

APPEAL FOR TRUE-UP FOR THE FY 2022-23
&
ANNUAL PERFORMANCE REVIEW FOR THE FY 2023-24
&
REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2024-
25
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



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2	Audited Annual Accounts FY 2022-23	Annexure-2
3	Statutory Audit Report	Annexure-3
4	SLDC certificates for plant performance certificate in 2022-23	Annexure-4
5	KLHEP letter to AERC on Major Overhauling	Annexure-5
6	APGCL letter to AERC intimating fire incident affecting 36.15 MW ST of NRPP dated 25.03.2022	Annexure-6
7	AERC letter to APGCL w.r.t restoration work of the ST Unit of NRPP dated 12.08.2022	Annexure-7
8	APGC Petition to allow open cycle operation for NRPP dated 19.10.2022	Annexure-8
9	AERC STG Order dated 2.11.2022	Annexure-9
10	APGCL letter to AERC on intimation of STG restoration dated 31.03.2023	Annexure-10
11	GoA Financial Sanctions for conversion of grant to equity for APGCL	Annexure-11
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13	Income Tax Return Acknowledgement (ITR-6) for FY 2022-23 (AY 2023-24)	Annexure-13
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22	Regulatory Formats	Annexure-22

1. Legal and Regulatory Framework

1.1. Background

- 1.1.1. Under the provisions of Electricity Act 2003 (hereinafter referred to as "Electricity Act") the Assam Electricity Reforms First Transfer Scheme, 2004 (hereinafter referred to as "Transfer Scheme") was notified by Government of Assam on 10th December 2004. Under Section 5 (2) of the transfer scheme the functions and undertakings as set out in Schedule-A of the transfer scheme stands transferred to Assam Power Generation Corporation Limited (APGCL). The final transfer scheme was notified by Govt. of Assam vide notification No: PEL/151/2003/Pt.349 dated 16th Aug' 2005 w.e.f 1st April'05.
- 1.1.2. Section 131 (2) of the Electricity Act provides "...Any property, interest in property, rights and liabilities vested in the State Government under sub-section (1) shall be re-vested by the State Government in a Government company or in a company or companies, in accordance with the transfer scheme so published along with such other property, interest in property, rights and liabilities of the State Government as may be stipulated in such scheme, on such terms and conditions as may be agreed between the State Government and such company or companies being State Transmission Utility or generating company or transmission licensee or distribution licensee,...".
- 1.1.3. Section 62 of the Electricity Act 2003 requires the generating company to furnish details as may be specified by the Commission for determination of tariff.
- 1.1.4. As per AERC Tariff Regulation, 2021, APGCL is now filing the Petition for Truing-up for FY 2022-23, Annual Performance Review for FY 2023-24 and Revised Aggregate Revenue Requirement and Determination of Tariff for the FY 2024-25 for the following plants.
 - i. Namrup Thermal Power Station
 - ii. Lakwa Thermal Power Station
 - iii. Karbi Langpi Hydro Electric Project
 - iv. Lakwa Replacement Power Plant
 - v. Namrup Replacement Power Plant
- 1.1.5. The various data formats and forms, as required by the Hon'ble Commission, are furnished in **Annexure-22**.

APPEAL FOR TRUE-UP FOR THE FY 2022-23
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – TRUE-UP

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for True-up of the FY 2022-23.

AND

IN THE MATTER OF

Assam Power Generation Corporation Limited
Bijulee Bhawan, Paltanbazar,
Guwahati-781 001.

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.


The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Deponent

Place: Guwahati

Date: 23/11/2023


(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER FOR TRUE-UP

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILING NO.

CASE NO.

IN THE MATTER OF:

Petition for Truing-up for FY 2022-23

AND IN THE MATTER OF:

Assam Power Generation Corporation Limited incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- i. That the Assam Power Generation Corporation Limited, hereinafter named as APGCL, is a successor corporate entity, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003 (Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- ii. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- iii. That APGCL submitted petitions for ARR and Determination of tariff for the FY 2022-23 to the AERC on 30/11/2021.
- iv. That the AERC declared tariff for FY 2022-23 on 21/03/2022 with effectuation date from 01/04/2022.
- v. That APGCL is now filing the Petition for Truing-up for FY 2022-23 as per relevant regulation.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

2. Background

2.1. Introduction

- 2.1.1. Assam State Electricity Board (ASEB) was constituted under section 5 of the Electricity (supply) Act 1948. The announcement of Indian Electricity Act 2003 has made a compulsion to restructure State Electricity Boards. With a view to implementing the reorganization of ASEB, the Govt. had adopted the following sector structure:
- a. One Generating Company to take over the generating functions of the State Electricity Board,
 - b. One Transmission Company to take over transmission functions along with the functions of the State Transmission Utility and State Load Dispatch Centre: and
 - c. Three Distribution Companies later amalgated to one for the areas in the State of Assam (later merged into one distribution company).
- 2.1.2. The Assam Power Generation Corporation Limited (APGCL), registered under the Companies Act (1956) on 23rd October 2003, is a successor Company of erstwhile Assam State Electricity Board (ASEB). APGCL was formed as per the Electricity Act, 2003 for the purpose of running the already installed generating capacity of ASEB and utilising the resources available in the State of Assam to add more generating capacity by constructing new power projects to cater to the energy need of the people of Assam.

2.2. APGCL Project Summary

- 2.2.1. NTPS: All the units of NTPS were derated in FY 2022-23. GT Unit-2 was derated from 21 MW to 17 MW, GT Unit-3 was derated from 21 MW to 15 MW and ST Unit-6 was derated from 22.5 MW to 9 MW. Letter on the same received from CEA is enclosed at **Annexure-1**. NTPS managed to generate 192.85 MUs in FY 2022-23 against the Hon'ble Commission's approved generation target of 195.09 MU. The plant's availability was better than the target set by Hon'ble Commission for FY 2022-23.
- 2.2.2. LTPS: LTPS was able to generate 540.52 MUs in FY 2022-23 against the Hon'ble Commission's approved generation target of 425.74 MU. The plant's availability was better than the target set by Hon'ble Commission for FY 2022-23.
- 2.2.3. KLHEP: KLHEP overachieved the gross generation target for the FY 2022-23 by 85.78 MU. However, the overall actual availability of the plant was 81.81% including 78 days of Major Overhauling of Unit-2 in FY 2022-23 against the approved availability of 85.00% in FY 2022-23.
- 2.2.4. LRPP: LRPP managed to generate 505.41 MUs in FY 2022-23 against the Hon'ble Commission's approved generation target of 519.4 MU. The plant's availability, auxiliary power consumption and Gross Station heat Rate were better than the targets set by Hon'ble Commission for FY 2022-23.
- 2.2.5. NRPP: NRPP was able to generate 442.23 MU in FY 2022-23 against approved target of 732.69 MU. Availability of 52.99% was achieved against approved target of 85%. The Station Heat Rate and Auxiliary Power Consumption of the plant were in accordance with the Regulatory Norms.

2.3. Annual accounts

- 2.3.1. The audited Annual accounts of APGCL for FY 2022-23, and Statutory Audit Report are attached at **Annexure-2 & Annexure-3** respectively as required under AERC Tariff Regulations, 2021.

2.4. True-up of FY 2022-23

2.5. Regulatory provisions

2.5.1. The Hon'ble Commission in its regulation has stated the provisions on true-up of various costs under the regulations of Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 which has been followed while preparing this True Up Petition.

2.6. Installed/Effective Capacity in FY 2022-23

2.6.1. APGCL submits the following Installed/Effective Capacity for FY 2022-23.

Table 1: Installed/Effective Capacity for FY 2022-23

Station	Installed Capacity (MW)	Installed/Effective Capacity (MW)	No. of Units	Units Available for Generation & Capacity in MW	Actual Effective Capacity
NTPS	119.5	36.91	3	GT U#2 (17MW), GT U#3 (15 MW) & WHRU U#6 (9 MW)	36.91
LTPS	142.2	97.20	4	5,6,7(20 MW Each),8 (37.20 MW-WHRU)	97.2
KLHEP	100	100	2	1 (50), 2(50)	100
LRPP	69.755	69.755	7	1-7 (9.965 each)	69.755
NRPP	98.40	98.40	2	1(62.25, 2(36.15)	98.40

3. Norms of operations

3.1. Regulatory provisions

3.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021 Section 48 and 50 for Thermal Generating Stations and Hydro Generating Stations respectively which has been followed for preparing this petition.

3.1.2. The actual performance vis-a-vis norms of operations set is discussed below:

3.2. Snapshot of plant wise performance for FY 2022-23

3.2.1. The following table shows the operating performance parameters of Namrup thermal power station for FY 2022-23.

Table 2: Operating Performance of NTPS for FY 2022-23

NTPS	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Gross Energy in MU	195.09	192.85	192.85	Actual
Aux. Power Cons. (%)	4.50%	4.50%	5.68%	It has lost 2.28 MU on net generation due to higher auxiliary consumption
Net Energy in MU	186.31	184.18	181.90	
Availability (%)	50.00%	50.00%	50.00%	Normative was achieved

NTPS	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
PLF (%) for incentive	50.00%	50.00%	58.91%	
Gross Station Heat Rate on GCV (kcal/ kWh)	3900	4300 (OC) 3900 (CC)	4020.76	Claimed weighted average normative value

3.2.2. The following table shows the operating performance parameters of gas based Lakwa thermal power station for FY 2022-23.

Table 3: Operating Performance of LTPS for FY 2022-23

LTPS	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Gross Energy in MU	425.74	540.52	540.52	Actual
Aux. Power Cons. (%)	5.50%	5.50%	7.72%	It has lost 11.98 MU on net generation due to higher auxiliary consumption.
Net Energy in MU	402.32	510.79	498.82	
Availability (%)	50.00%	50.00%	50.00%	Achieved normative value
PLF (%) for incentive	66.00%	66.00%	61.99%	Actual was lower than normative value
Gross Station Heat Rate on GCV (kcal/ kWh)	3900 (OC) 3200 (CC)	3200.00	3200.00	Claimed at normative SHR at Combined cycle

3.2.3. The following table shows the operating performance parameters of Karbi Langpi hydroelectric power station for FY 2022-23.

Table 4: Operating Performance of KLHEP for FY 2022-23

KLHEP	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Gross Energy in MU	390.00	475.78	475.78	Actual
Aux. Power Cons. (%)	0.50%	0.5%	0.50%	Actual auxiliary consumption was within normative value.
Net Energy in MU	388.05	473.40	473.40	
Availability (%)	85.00%	85.00%	81.81%	Actual was lower than normative value
PLF (%)	44.50%	44.50%	44.50%	Achieved Normative

3.2.4. The following table shows the operating performance parameters of Lakwa Replacement Power Project for FY 2022-23.

Table 5: Operating Performance of LRPP for FY 2022-23

LRPP	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Gross Energy in MU	519.4	505.41	505.41	Actual
Aux. Power Cons. (%)	3.50%	3.50%	3.50%	

LRPP	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Net Energy in MU	501.22	487.72	487.72	Actual auxiliary consumption was within normative value.
Availability (%)	85.00%	85.00%	85.00%	Achieved normative value
PLF (%) for incentive	90.00%	90.00%	84.35%	Actual was lower than normative value
Gross Station Heat Rate on GCV (kcal/kWh)	2150.00	2150.00	2150.00	Claimed normative value

3.2.5. The following table shows the operating performance parameters of Namrup Replacement Power Project for FY 2022-23.

Table 6: Operating Performance of NRPP for FY 2022-23

NRPP	Approved as per order of March 2022	Based on Normative	Claim for FY 2022-23	Remarks
Gross Energy in MU	732.69	442.23	442.23	Actual
Aux. Power Cons. (%)	5.00%	5.00%	5.00%	Actual auxiliary consumption was within normative value.
Net Energy in MU	696.05	420.11	420.11	
Availability (%)	85.00%	85.00%	85.00%	Claiming normative value due to open cycle operation for uncontrollable event. Details may be referred in Para 3.3.8
PLF (%) for incentive	85.00%	85.00%	52.19%	Actual was lower than normative value
Gross Station Heat Rate on GCV (kcal/kWh)	2927 (OC) 1951 (CC)	2927 (OC) 1988 (CC)	2927.00	Claiming normative value at Open Cycle

3.2.6. The performance parameter certificate showing plant wise availability, generation, auxiliary consumption etc. issued by SLDC is attached as **Annexure-4**.

3.3. Normative Annual Plant Availability Factor (NAPAF)

3.3.1. NAPAF for NTPS: As per Regulation 48.1 of the MYT Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50%. It has achieved actual availability higher than the normative value. The approved and claimed numbers are shown in the table below.

Table 7: Availability of NTPS for FY 2022-23

NTPS	Approved as per order of March 2022	Claim for FY 2022-23
Plant Availability Factor (%)	50.00%	50.00%

- 3.3.2. NAPAF for LTPS: As per Regulation 48.1 of the MYT Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50%. It has achieved actual availability higher than the normative value. The approved and claimed numbers are shown in the table below.

Table 8: Availability of LTPS for FY 2022-23

LTPS	Approved as per order of March 2022	Claim for FY 2022-23
Plant Availability Factor (%)	50.00%	50.00%

- 3.3.3. NAPAF for KLHEP: Regulation 50 of the MYT Regulations, 2021 specifies normative PAF for KLHEP as 85%. But it has achieved lower availability than the NAPAF.

- 3.3.4. The low Plant Availability of KLHEP in FY 2022-23 is mainly due to the Major Overhauling of Unit-2 of KLHEP. In this regard, APGCL has already submitted the details vide letter no. APGCL/CGM (G)/AERC/2022/115/Pt-XII/71 dated 06.11.2023 (**Annexure-5**) to the Hon'ble Commission. In view of this, APGCL most humbly submits to the Hon'ble Commission to consider the Major Overhauling period of 78 days for Unit-2 of KLHEP in FY 2022-23 and allow the Availability for KLHEP as per the calculation of the Table below for the True-up of the station:

Sl No.	Particulars	Value
A	Plant affected due to Major Overhauling of KLHEP U-2 in FY 2022-23 (Days)	78
B	Actual Availability of KLHEP in FY 2022-23	71.07%
C	Declared Capacity (MW)	50
D	Normative Auxiliary Consumption	0.50%
E	Availability Loss due to Major Overhauling of KLHEP U-2 [A*C*100/(100*365*(100-0.5))]	10.74%
F	Revised Plant Availability (B+E)	81.81%

- 3.3.5. Thus, revised Plant Availability Factor of 81.81% has been claimed in FY 2022-23 by the Petitioner for KLHEP. The approved and claimed numbers are shown in the table below.

Table 9: Availability of KLHEP for FY 2022-23

KLHEP	Approved as per order of March 2022	Claim for FY 2022-23
Plant Availability Factor (%)	85.00%	81.81%

- 3.3.6. NAPAF for LRPP: As per Regulation 48.1 of the Tariff Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 85% for new plants. It has achieved the actual availability higher than the normative value. The approved and claimed numbers are shown in the table below.

Table 10: Availability of LRPP for FY 2022-23

LRPP	Approved as per order of March 2022	Claim for FY 2022-23
Plant Availability Factor (%)	85.00%	85.00%

- 3.3.7. NAPAF for NRPP: As per Regulation 48.1 of the Tariff Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 85% for new plants. It has achieved the actual availability of 52.99% which is lower than the normative value.
- 3.3.8. However, it is to bring to the Hon'ble Commission's kind attention that the 36.15 MW ST Unit of NRPP got damaged due to a fire incident in the STG building on 22.03.2022. The matter was intimated to the Hon'ble Commission vide letter no. APGCL/CGM(G)/AERC/2018/115/Pt-XI/70 dated 25th March 2022 (**Annexure-6**). The Hon'ble Commission vide letter No. AERC.686/2018/16 dated 12.08.2022 directed APGCL to complete the restoration work of the ST Unit of NRPP by 30.11.2022 (**Annexure-7**). The work for restoration of the STG unit was awarded to the OEM M/s BHEL on 13.09.2022 with a completion period of 6 months. In view of this, APGCL submitted a Petition to the Hon'ble Commission vide letter No. APGCL/CGM(G)/AERC/2022/115/Pt-XII/40 dated 19.10.2022 to allow the open cycle operation of NRPP up to 22.03.2023 (**Annexure-8**). Thereafter, the Hon'ble Commission vide its Order dated 2.11.2022 (**Annexure-9**) allowed time up to 22.03.2023 to complete the restoration work of the STU of NRPP. Further, on APGCL's prayer in the Petition to allow open cycle Heat Rate for NRPP up to 22.03.2023, the Hon'ble Commission sated that APGCL is at the liberty to place this claim at the time of True-up with proper documentary evidence. Accordingly, APGCL vide its letter No. APGCL/CGM(G)/AERC/2022/115/Pt-XII/53 dated 31.03.2023 intimated the Hon'ble Commission that the STU of NRPP resumed its operation from 31.03.2023 after completion of the restoration work (**Annexure-10**). Now, APGCL most humbly submits to the Hon'ble Commission to allow Open Cycle Heat Rate for NRPP for FY 2022-23. Further, APGCL also submits to the Hon'ble Commission to consider the fire incident in the STG building as "Force Majeure Event" as per the Regulation 2 (35) under the provision of the Regulation 114- "Power to Relax" of the AERC (Terms and Conditions for Determination of MYT) Regulations, 2021 and allow full fixed cost for NRPP for FY 2022-23.
- 3.3.9. With regards to above, APGCL thus humbly requests the Hon'ble Commission to consider normative claimed availability of 85% for NRPP and accordingly allow full fixed cost recovery in FY 2022-23. The approved and claimed numbers are shown in the table below.

Table 11: Availability of NRPP for FY 2022-23

NRPP	Approved as per order of March 2022	Claim for FY 2022-23
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Plant Availability Factor (%)	85.00%	85.00%
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3.4. Normative Annual Plant Load Factor (NAPLF)

- 3.4.1. NAPLF for NTPS: As per Regulation 48.2 of the MYT Regulations, 2021 the Normative Plant Load factor, is 50% for NTPS. It has achieved more than the normative value in FY 2022-23. The approved and claimed numbers are accordingly shown in the table below.

Table 12: Plant Load Factor of NTPS for FY 2022-23

NTPS	Approved as per order of March 2022	Claim for FY 2022-23
Plant Load Factor (%)	50.00%	58.91%

- 3.4.2. NAPLF for LTPS: As per Regulation 48.2 of the MYT Regulations, 2021 the Normative Plant Load factor was 66% for LTPS. It has achieved the actual PLF lower than the normative value. The approved and claimed numbers are shown in the table below.

Table 13: Plant Load Factor of LTPS for FY 2022-23

LTPS	Approved as per order of March 2022	Claim for FY 2022-23
Plant Load Factor (%)	66.00%	61.99%

- 3.4.3. NAPLF for KLHEP: Further, Regulation 50 of the MYT Regulations, 2021 specifies normative PLF for KLHEP as 44.5% for FY 2022-23. It has achieved more than the normative value in FY 2022-23. The approved and claimed numbers are shown in the table below.

Table 14: Plant Load Factor of KLHEP for FY 2022-23

KLHEP	Approved as per order of March 2022	Claim for FY 2022-23
Plant Load Factor (%)	44.50%	54.31%

- 3.4.4. NAPLF for LRPP: As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load factor, is 90% for new plants commissioned. It has achieved actual PLF lower than the normative value in FY 2022-23. The approved and claimed numbers are shown in the table below.

Table 15: Plant Load Factor of LRPP for FY 2022-23

LRPP	Approved as per order of March 2022	Claim for FY 2022-23
Plant Load Factor (%)	90.00%	84.35%

- 3.4.5. NAPLF for NRPP: As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load Factor is 85% for newly commissioned gas based generating station. It has achieved the lower PLF than normative value. The approved and claimed numbers are shown in the table below.

Table 16: Plant Load Factor of NRPP for FY 2022-23

NRPP	Approved as per order of March 2022	Claim for FY 2022-23
Plant Load Factor (%)	85%	52.19%

3.5. Gross Station Heat Rate (SHR)

3.5.1. SHR for NTPS: As per Regulation 48.4 of the MYT Regulations, 2021 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2022-23 for NTPS in combined cycle and 4300 kCal/kWh in open cycle modes of operation.

3.5.2. We submit that the actual SHR of NTPS is 4914.93 KCal/KWh, which is higher than the approved SHR in FY 2022-23 due to part loading of units resulting due to lower gas supply and old nature of the plant equipment and machinery.

3.5.3. APGCL has claimed the normative SHR for FY 2022-23 as shown in the table below.

Table 17: SHR of NTPS for FY 2022-23

NTPS	Approved as per order of March 2022	Claim for FY 2022-23
Station Heat Rate (kCal/kWh)	3900.00	4020.76

3.5.4. The computation of actual weighted normative is shown in table below.

FY 2022-23	GSHR	Running Hours in	Normative Weighted
NTPS	Approved	Open Cycle Mode	Average SHR
Open Cycle	4300	2425.18	4020.76
Combined Cycle	3900	5608.02	
Total		8033.20	

3.5.5. SHR for LTPS: As per Regulation 48.4 of the MYT Regulations, 2021 the Normative Station Heat Rate for FY 2022-23 of LTPS, is 3200 kCal/kWh in combined and 3900 Kcal/KWh in open cycle modes of operation.

3.5.6. APGCL has claimed the normative SHR for FY 2022-23 as shown in the table below.

Table 18: SHR of LTPS for FY 2022-23

LTPS	Approved as per order of March 2022	Claim for FY 2022-23
Station Heat Rate (kCal/kWh)	3200 for Combined cycle 3900 for Open cycle	3200

3.5.7. SHR for LRPP: The Hon'ble Commission had approved the Gross Station Heat Rate for LRPP at 2,150 kCal/kWh in the Tariff Order dated March 2022 for LRPP.

3.5.8. APGCL has claimed the normative SHR for FY 2022-23 as shown in the table below.

Table 19: SHR of LRPP for 2022-23

LRPP	Approved as per Order of March 2022	Claim for FY 2022-23
Station Heat Rate (kCal/kWh)	2150	2150

3.5.9. SHR for NRPP: As per Regulation 48.4 of the MYT Regulations, 2021 the Normative Station Heat Rate for FY 2022-23 of NRPP, is 1951 kCal/kWh in combined and 2927 Kcal/KWh in open cycle modes of operation.

3.5.10. With respect to fire incident in the STG unit damaging the 36.15 MW ST unit of NRPP, and the resultant open cycle operation in FY 2022-23 as mentioned already in details vide para 3.3.8, APGCL accordingly has claimed the normative SHR for FY 2022-23 as shown in the table below.

Table 20: SHR of NRPP for FY 2022-23

NRPP	Approved as per Order of March 2022	Claim for FY 2022-23
Station Heat Rate (kCal/kWh)	2927 (OC) 1951 (CC)	2927

3.5.11. APGCL humbly submits to the Hon'ble Commission to kindly approve the gross station heat rate claimed by APGCL.

3.6. Auxiliary Energy Consumption

3.6.1. Auxiliary consumption for NTPS: As per Regulation 48.3 of the MYT Regulations, 2021 the Normative Auxiliary energy consumption, is 4.50% for FY 2022-23 for NTPS. It has achieved the actual auxiliary consumption of 5.68% which is higher than normative value. Hence, it has lost 2.28 MU on net generation due to higher auxiliary consumption than normative value.

3.6.2. APGCL has claimed the actual auxiliary consumption as shown in the table below.

Table 21: Auxiliary energy consumption of NTPS for FY 2022-23

NTPS	Approved as per order of March 2022	Claim for FY 2022-23
Auxiliary energy consumption (%)	4.50%	5.68%

3.6.3. Auxiliary consumption for LTPS: As per Regulation 48.3 of the MYT Regulations, 2021 the Normative Auxiliary energy consumption, is 5.50% for FY 2022-23 of LTPS. It has achieved the actual auxiliary consumption of 7.72% which is higher than normative value. Hence, it has lost 11.98 MU on net generation due to higher auxiliary consumption than normative value.

3.6.4. APGCL has claimed the actual auxiliary consumption as shown in the table below.

Table 22: Auxiliary energy consumption of LTPS for FY 2022-23

LTPS	Approved as per order of March 2022	Claim for FY 2022-23
Auxiliary energy consumption (%)	5.50%	7.72%

3.6.5. Auxiliary consumption for KLHEP: As per Regulation 50.1 of the MYT Regulations, 2021 the Normative Auxiliary energy consumption, is 0.5% for FY 2022-23 for KLHEP. It has achieved the actual auxiliary consumption within normative value.

3.6.6. APGCL has claimed the normative auxiliary consumption as shown in the table below.

Table 23: Auxiliary energy consumption of KLHEP for FY 2022-23

KLHEP	Approved as per order of March 2022	Claim for FY 2022-23
Auxiliary energy consumption (%)	0.50%	0.50%

3.6.7. Auxiliary consumption for LRPP: As per Regulation 48.3 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption, is 3.50% for gas engine-based generating station with gas booster compressor. It has achieved the actual auxiliary consumption within normative value.

3.6.8. APGCL has claimed the normative auxiliary consumption as shown in the table below.

Table 24: Auxiliary energy consumption of LRPP for FY 2022-23

LRPP	Approved as per order of March 2022	Claim for FY 2022-23
Auxiliary energy consumption (%)	3.50%	3.50%

3.6.9. Auxiliary consumption for NRPP: The Hon'ble Commission had approved the auxiliary consumption for NRPP at 5% in the Tariff Order dated March 2022. It has achieved the actual auxiliary consumption within normative value.

3.6.10. APGCL has claimed the normative auxiliary consumption as shown in the table below.

Table 25: Auxiliary energy consumption of NRPP for FY 2022-23

NRPP	Approved as per order of March 2022	Claim for FY 2022-23
Auxiliary energy consumption (%)	5.00%	5.00%

3.6.11. APGCL humbly to Hon'ble Commission to kindly approve the actual auxiliary consumption claimed by APGCL.

4. Fixed Cost of the Plant

4.1. Annual fixed cost for FY 2022-23

4.1.1. The fixed cost of APGCL's power plants has been approved by AERC via Revised ARR order in Case No. 09/2021 dated 21st March 2022, Tariff Order for NRPP in Case No. 10/2021 dated 21st March 2022, and subsequently via APR Order in Case No. 16/2022 dated 29th March 2023.

4.1.2. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components of fixed cost have been considered for True-up of the tariff for the power plant:

(a) Return on Equity

- (b) Interest on Long Term Loan
- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

4.1.3. For the computation of the fixed components, the Petitioner has considered the principles provided in the AERC Regulations, 2021. These components have been discussed plant wise in detail in the following sections of the petition

4.2. Additional Capital Expenditure incurred in FY 2022-23 for Post COD for NRPP

4.2.1. The petitioner had incurred the following additional capital expenditure for NRPP in FY 2022-23 for post COD of the plant.

Table 26: Additional Capital Expenditure incurred in FY 2022-23 Post COD for NRPP

Rs. Cr

Particulars	Approved additional capital expenditure in order dated March 2022	Actual expenditure incurred in FY 2022-23
Additional Expenditure (Rs. Crore)	0.00	0.00
Equity (Rs. Crore)	0.00	0.13
Loan (Rs. Crore)	0.00	0.00
Grant (Rs. Crore)	0.00	0.00

4.2.2. Out of Rs 0.13 Cr, which was accounted in the Annual Financial Statement of FY 2022-23, Rs 0.01 Cr was originally part of the scope of work. Hence, APGCL prays to the Hon'ble Commission to approve the additional capitalization planned in FY 2022-23.

4.3. Return on Equity (ROE)

4.3.1. The Hon'ble Commission in its regulation 34 of the AERC Regulations, 2021 has considered the pre-tax return on equity at 15.50% of equity capital.

4.3.2. The Plant wise Return in Equity has been shown below:

Table 27: Computation of Plant wise Return in Equity for FY 2022-23

Rs. Cr

Station	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
NTPS	Opening Equity	55.00	57.42
	Addition during year	0.00	0.87
	Closing Equity	55.00	58.29
	Rate of Return	15.50%	15.50%
	Return on Equity	8.53	8.97
	Return on Equity for Effective Capacity	3.10	2.77



Station	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
LTPS	Opening Equity	143.08	148.69
	Addition during year	0.00	1.95
	Closing Equity	143.08	150.64
	Rate of Return	15.50%	15.50%
	Return on Equity	22.18	23.20
	Return on Equity for Effective Capacity	15.16	15.86
KLHEP	Opening Equity	68.65	154.42
	Addition during year	0.00	2.01
	Closing Equity	68.65	156.43
	Rate of Return	15.50%	15.50%
	Return on Equity	10.64	24.09
LRPP	Opening Equity	15.74	80.63
	Addition during year	0.00	1.40
	Closing Equity	15.74	82.03
	Rate of Return	15.50%	15.50%
	Return on Equity	2.44	12.61
NRPP **	Opening Equity	218.69	218.69
	Addition during year	0.00	0.00
	Closing Equity	218.69	218.69
	Rate of Return	15.50%	15.50%
	Return on Equity	33.90	33.90

** For NRPP, the approved numbers are as per NRPP tariff order dated 21st March 2022

4.3.3. Expenditure for ERP implementation and consultancy has been based on grants in FY 2022-23, FY 2023-24, and FY 2024-25. Govt. of Assam vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. Hence, the expense amount of Rs 6.242 Cr incurred (previously grant) for ERP implementation and consultancy in FY 2022-23 has been converted to equity and accordingly, plant-wise return on equity on the same for NTPS, LTPS, KLHEP and LRPP have been claimed in FY 2022-23 True-Up petition.

4.3.4. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Return on Equity (on effective capacity in the case of NTPS and LTPS) as shown above.

4.4. Interest on Loan Capital

- 4.4.1. As per Regulation 35 of the Tariff Regulations, 2021, the Hon'ble Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.
- 4.4.2. In view of the above, the Petitioner has computed the Interest on long term Loan on normative basis for FY 2022-23. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2022-23. The interest rate has been considered as the weighted average rate of actual interest rate applicable to APGCL at the beginning of FY 2022-23.
- 4.4.3. The finance charges are shown separately plant wise for FY 2022-23. The table below summarizes the interest on loan and finance charges considered (at effective capacity for NTPS and LTPS) for True-up of FY 2022-23.

Table 28: Computation of Plant wise Interest and finance charges for FY 2022-23

Rs. Cr

Station	Particulars	Approved per March 2022	as order of Claim for FY 2022-23
NTPS	Net Normative Opening Loan	0.00	0.00
	Addition of normative loan during the year	0.66	3.09
	Normative Repayment during the year	1.28	2.05
	Net Normative Closing Loan	0.00	1.04
	Avg. Normative Loan	0.00	0.52
	Interest Rate	10.93%	10.18%
	Interest on Loan Capital	0.00	0.05
	Add: Bank Charges	0.00	0.02
	Net Interest on Loan Capital	0.00	0.07
	Net Interest on Loan Capital for Effective Capacity	0.00	0.02
LTPS	Net Normative Opening Loan	0	0.00
	Addition of normative loan during the year	13.67	19.59
	Normative Repayment during the year	16.47	14.26
	Net Normative Closing Loan	0.00	5.32
	Avg. Normative Loan	0.00	2.66
	Interest Rate	10.93%	10.18%
	Interest on Loan Capital	0.00	0.27
	Add: Bank Charges	0.00	0.05
	Net Interest on Loan Capital	0.00	0.32
	Net Interest on Loan Capital for Effective Capacity	0.00	0.22
KLHEP	Net Normative Opening Loan	153.46	123.72
	Addition of normative loan during the year	19.40	6.02
	Normative Repayment during the year	21.56	22.14
	Net Normative Closing Loan	151.30	107.60
	Avg. Normative Loan	152.38	115.66

Station	Particulars	Approved per March 2022	as order of Claim for FY 2022-23
	Interest Rate	10.93%	10.18%
	Interest on Loan Capital	16.66	11.78
	Add: Bank Charges	0.00	0.05
	Net Interest on Loan Capital	16.66	11.82
LRPP	Net Normative Opening Loan	24.43	26.83
	Addition of normative loan during the year	0.65	5.64
	Normative Repayment during the year	2.68	13.67
	Net Normative Closing Loan	22.40	18.80
	Avg. Normative Loan	23.42	22.82
	Interest Rate	10.93%	10.18%
	Interest on Loan Capital	2.56	2.32
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	2.56	2.32
NRPP **	Net Normative Opening Loan	476.05	491.52
	Addition of normative loan during the year	0.00	0.13
	Normative Repayment during the year	36.27	42.08
	Net Normative Closing Loan	439.79	449.56
	Avg. Normative Loan	457.92	470.54
	Interest Rate	10.93%	10.18%
	Interest on Loan Capital	50.05	47.91
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	50.05	47.91

** For NRPP, the approved numbers as per NRPP tariff order dated 21st March 2022

4.4.4. APGCL submits that the loan details and interest rates applicable on PFC loans is submitted as part of **Annexure-12** of this document.

4.4.5. APGCL prays to the Hon'ble Commission to kindly approve the total interest and finance charges as shown above.

4.5. Depreciation

4.5.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered the principle as laid out in Regulation 33.

4.5.2. In view of the above, the Petitioner has computed the Depreciation considering Capital Cost of the asset admitted by the Commission with 10% salvage value. The table below summarizes the plant wise Depreciation considered for True-up of FY 2022-23.

Table 29: Depreciation of NTPS for FY 2022-23

Particulars	FY 2022-23
Opening GFA	190.90
Addition during the year	3.09

Rs. Cr



Adjustment in GFA	0.00
Closing	193.98
Average GFA	192.44
Rate of Depreciation	1.07%
Total Depreciation	2.05
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	1.07%
Depreciation on grants	0.00
Net Depreciation	2.05

Table 30: Depreciation of LTPS for FY 2022-23

Rs. Cr

Particulars	FY 2022-23
Opening GFA	503.08
Addition during the year	19.59
Adjustment in GFA	0.00
Closing	522.67
Average GFA	512.88
Rate of Depreciation	2.78%
Total Depreciation	14.26
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	2.78%
Depreciation on grants	0.00
Net Depreciation	14.26

Table 31: Depreciation of KLHEP for FY 2022-23

Rs. Cr

Particulars	FY 2022-23
Opening GFA	505.47
Addition during the year	6.02
Adjustment in GFA	0.00
Closing	511.49
Average GFA	508.48
Rate of Depreciation	4.35%
Total Depreciation	22.14
Grant	0.00
Additions during the year	0.00
Closing grant	0.00



Particulars	FY 2022-23
Average grant	0.00
Rate of Depreciation	4.35%
Depreciation on grants	0.00
Net Depreciation	22.14

Table 32: Depreciation of LRPP for FY 2022-23

Rs. Cr

Particulars	FY 2022-23
Opening GFA	267.57
Addition during the year	5.64
Adjustment in GFA	0.00
Closing	273.22
Average GFA	270.40
Rate of Depreciation	5.06%
Total Depreciation	13.67
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	5.06%
Depreciation on grants	0.00
Net Depreciation	13.67

Table 33: Depreciation of NRPP for FY 2022-23

Rs. Cr

Particulars	FY 2022-23
Opening GFA	728.96
Addition during the year	0.13
Adjustment in GFA	0.00
Closing	729.09
Average GFA	729.02
Rate of Depreciation	5.77%
Total Depreciation	42.08
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	5.77%
Depreciation on grants	0.00
Net Depreciation	42.08

Table 34: Summary of Depreciation claimed for FY 2022-23

Rs. Cr



Station	Particulars	Approved as per order March 2022	Claim for FY 2022-23
NTPS	Depreciation	1.37	2.05
	Less: Depreciation on assets funded by Grants	0.10	0.00
	Net Depreciation	1.28	2.05
	Net Depreciation for Effective Capacity	0.47	
LTPS	Depreciation	18.97	14.26
	Less: Depreciation on assets funded by Grants	2.50	0.00
	Net Depreciation	16.47	14.26
	Net Depreciation for Effective Capacity	11.26	
KLHEP	Depreciation	24.10	22.14
	Less: Depreciation on assets funded by Grants	2.53	0.00
	Net Depreciation	21.56	22.14
LRPP	Depreciation	13.73	13.67
	Less: Depreciation on assets funded by Grants	11.04	0.00
	Net Depreciation	2.69	13.67
NRPP **	Depreciation	36.27	42.08
	Less: Depreciation on assets funded by Grants	0	0.00
	Net Depreciation	36.27	42.08

** For NRPP, the approved numbers as per NRPP tariff order dated 21st March 2022

- 4.5.3. Further, APGCL humbly submits that entire depreciation claimed in True Up is at par with the depreciation charged in the Annual Accounts and any depreciation on decommissioned / retired units does not form part of the depreciation charged in the Annual Accounts. Hence, the depreciation claimed is already at the effective capacity and further reduction of depreciation citing effective capacity is not justifiable. We humbly pray to the Hon'ble Commission to consider the same while approving True Up claim for depreciation and allow full recovery of the depreciation charged after reduction of depreciation on grants only and not further reduce the depreciation citing effective capacity.
- 4.5.4. Govt. of Assam vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.
- 4.5.5. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Depreciation for FY 2022-23 as shown above.

4.6. Interest on Working Capital

4.6.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

4.6.2. As per the above regulations, the Petitioner has claimed normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered as interest rate equivalent to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months i.e., 8.53% + 3.00 % = 11.53%. The plant wise interest on working capital considered is shown in the table below:

Table 35: Summary of Interest on working capital claimed for FY 2022-23

Rs. Cr

Station	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
NTPS	Fuel Cost for one month	3.78	11.32
	O&M Expenses for one month	3.52	1.60
	Maintenance Spares-30% of O&M	12.67	5.78
	Receivables for two months	16.09	27.13
	Total Working Capital Requirement	36.06	45.83
	Rate of interest	10.00%	11.53%
	Interest on Working capital	3.61	5.28
	Interest on Working capital at Effective Capacity	1.31	
LTPS	Fuel Cost for one month	9.64	32.65
	O&M Expenses for one month	3.57	3.88
	Maintenance Spares-30% of O&M	12.86	13.96
	Receivables for two months	34.87	79.42
	Total Working Capital Requirement	60.96	129.91
	Rate of interest	10.00%	11.53%
	Interest on Working capital	6.10	14.97
	Interest on Working capital at Effective Capacity	4.17	
KLHEP	O&M Expenses for one month	2.78	2.86
	Maintenance Spares-30% of O&M	5.00	10.28
	Receivables for two months	16.47	19.91
	Total Working Capital Requirement	24.25	33.05
	Rate of interest	10.00%	11.53%
	Interest on Working capital	2.42	3.81

Station	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
LRPP	Fuel Cost for one month	7.91	24.80
	O&M Expenses for one month	2.52	2.52
	Maintenance Spares-30% of O&M	9.08	9.08
	Receivables for two months	28.41	63.73
	Total Working Capital Requirement	47.92	100.13
	Rate of interest	10.00%	11.53%
	Interest on Working capital	4.79	11.54
NRPP**	Fuel Cost for one month	7.27	18.89
	O&M Expenses for one month	1.91	3.47
	Maintenance Spares-30% of O&M	6.87	12.50
	Receivables for two months	39.31	70.23
	Total Working Capital Requirement	55.36	105.08
	Rate of interest	10.00%	11.53%
	Interest on Working capital	5.54	12.11

** For NRPP, the approved numbers as per NRPP tariff order dated 21st March 2022

4.6.3. APGCL prays to the Hon'ble Commission to kindly approve the plant wise interest on Working capital for FY 2022-23 as shown above.

4.7. Operation and Maintenance Expenses

4.7.1. As per Regulation 51 of the Tariff Regulations, 2021 does not provide for separate approval of Employee expenses, A&G expenses, and R&M expenses.

4.7.2. APGCL submitted that the Commission in the Tariff Order of dated March 21, 2022, had approved normative O&M expenses of Rs. 42.24 Crore for NTPS, Rs 42.88 Crore for LTPS, Rs. 33.31 Crore for KLHEP and Rs. 30.27 Crore for LRPP for FY 2022-23, which works out to total of Rs. 148.70 Crore.

4.7.3. APGCL had submitted to the Commission to amend Regulation 51.2 (a) in AERC MYT Regulations, 2021 to allow the actual O&M cost of NRPP at the time of True up after prudence check for FY 2021-22 and FY 2022-23. Further, APGCL requested the Commission to consider the Trued-up O&M Cost of FY 2021-22 and FY 2022-23 for arriving at normative O&M Cost for FY 2023-24 after escalation.

4.7.4. Based on the above submission, The Hon'ble Commission vide Order No. 03/2022 dated 20th August 2022 had given their judgement as reproduced below:

" 7. After scrutinizing the Petition and related information submitted by APGCL, the Commission noted that the figures submitted by APGCL are estimations only. The Commission is of the view that in absence of actual O & M cost (Audited), it may not be prudent to revise the norms only on the basis of submissions of APGCL.

8. However, APGCL is at liberty to place their claim at the time of true up with proper documentary evidence during the control period from FY 2022-23 to FY 2024-25 based on the audited data of O&M expenses and the Commission shall decide on the basis of the actual audited data. "



4.7.5. Based on the above Order of the Hon'ble Commission, APGCL had already submitted the actual O&M cost in the True-up of FY 2021-22 for NRPP for approval and accordingly the Hon'ble Commission approved the same after prudence check. APGCL is now submitting the actual O&M Cost of NRPP for approval for FY 2022-23 in the True-up and humbly prays to the Commission to approve the same in continuation of the precedence of the True-up of FY 2021-22 for NRPP.

4.7.6. **Based on above Submission, APGCL has claimed the actual O&M cost of Rs. 41.66 Crore with respect to NRPP for FY 2022-23.**

4.7.7. As per Tariff Order dated March 2023, wherein as per Para 5.11.5, the Hon'ble Commission had mentioned that it had escalated approved True Up figures of FY 2021-22 to arrive at normative figures for APR of FY 2022-23 (escalation factor of 6.3% considered). However, for NTPS, LTPS and KLHEP, the calculation of approved figure with respect to approach as taken by Hon'ble Commission as mentioned in Para 5.11.5 of Tariff Order dated 29th March 2023 is not aligned. Same is showcased below:

Station	Approved in True-Up for FY 2021-22 as per Order dated March 2023	Normative Figure for APR for FY 2022-23 calculated considering escalation of 6.3% from True-Up (Para 5.11.5 of Order dated March 2023)	Amount actually approved by Hon'ble Commission for APR for FY 2022-23
	A	B = A*(1+6.3%)	C
NTPS	58.44	62.12	54.82
LTPS	63.83	67.85	62.62
KLHEP	32.14	34.16	33.43

Hon'ble Commission is thus requested to relook/ kindly clarify with respect to the approved APR figure of O&M expense for FY 2022-23 as it is clearly mentioned in para 5.11.5 of Tariff Order dated March 2023, that Hon'ble Commission has calculated the same escalating the approved True-Up figure of FY 2021-22 by 6.3%.

4.7.8 As per Para 4.10.3 of Tariff Order dated March 2022, Commission had computed normative O&M expenses for FY 2020-21 True Up by applying escalation factor of 6.30%, on normative O&M Expenses for FY 2019-20 approved in the APR. Further, as per Table 18 and Para 4.10.7 of Tariff Order dated March 2023, similar approach was taken by Commission (except for NRPP wherein Commission approved on Actuals) wherein approved O&M figures for NTPS, LTPS, KLHEP and LRPP for True Up for FY 2021-22 were calculated by escalating approved APR figure w.r.t FY 2020-21 by 6.3%.

4.7.8 With regards to above, approved APR figures of FY 2021-22 have been escalated by the Commission determined escalation factor of 6.3% with respect to NTPS, KLHEP and LTPS to arrive at figures being claimed for True Up for FY 2022-23 for NTPS, LTPS and KLHEP. For LRPP, as per para 5.11.6 of Tariff Order dated March 2023,

"5.11.6 The O&M expenses for LRPP have been estimated based on the O&M norm of Rs. 43.40 Lakh/MW, which has been derived after escalating O&M norm of Rs. 32.46 Lakh/MW

considered in Truing-up of FY 2021-22 by 6.30% as specified in the MYT Regulations, 2021. The total O&M expenses for LRPP works out to Rs 30.27 Crore for FY 2021-22.”

Thus, for LRPP, O&M expense of Rs 30.27 Cr has been claimed in True-Up for FY 2022-23. For NRPP, as mentioned above in para 4.7.5 of this petition, O&M expenses at actuals excluding Special R&M expenses have been claimed in FY 2022-23 True Up.

4.7.8. APGCL prays to the hon’ble commission to approve the O&M expenses for FY 2022-23 as shown in the table below.

Table 36: Operation and Maintenance claimed for FY 2022-23

Rs. Cr

Station	Normative O&M cost approved in order dated March 2022	Approved O&M at effective capacity in order March 2022	Normative O&M cost approved in order dated March 2023*	Normative O&M calculated for FY 22-23 at full capacity	Amount Claim at actual effective capacity for FY 2022-23
NTPS	42.24	15.38	54.82	62.34	19.26
LTPS	42.88	29.31	62.62	68.10	46.55
KLHEP	33.31	33.31	33.43	34.28	34.28
LRPP	30.27	30.27	30.27	30.27	30.27
NRPP**	22.90	22.90	22.90	41.66	41.66
Total	171.60	131.17	204.04	236.65	172.01

*Please refer para 4.7.7

** For NRPP, the approved numbers as per NRPP tariff order dated 21st March 2022

4.7.9. Further, APGCL has separately claimed Rs. 0.22 crore against capacity building and Rs. 41.64 crore against special R&M for FY 2022-23.

4.7.10. APGCL prays to the Hon’ble Commission to kindly approve the plant wise O&M expenses for FY 2022-23 as shown above.

4.8. Impact of AERC (Payment of Fees etc.) Regulation, 2020

4.8.1. The Hon’ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

4.8.2. The tentative impact of the increase in the filing fees has been shown below:

Table 37: Impact of increase in AERC Fees claimed for FY 2022-23

Rs. Cr

Station	Approved in Tariff Order dated March 2022	Actual claim for FY 2022-23
NTPS	0.10	0.10
LTPS	0.10	0.10
KLHEP	0.0	0.0
LRPP	0.10	0.10
NRPP	0.0	0.00
Total	0.30	0.30

4.9. Actual Tax Claim

4.9.1. As per regulation 36 of the Tariff Regulations 2021, income tax as will be reimbursed per actual income tax paid, based on the documentary evidence submitted at the time of truing up.

4.9.2. APGCL has determined that total amount of Rs. 19.48 Crores to be payable to Income Tax Department.

Table 38: Plant wise Tax on income claimed for FY 2022-23

Rs. Cr	
Station	Tax on income claimed for FY 2022-23
NTPS	2.09
LTPS	6.38
KLHEP	1.51
LRPP	5.26
NRPP	4.24
Total	19.48

4.9.3. Income Tax Return Acknowledgement (ITR-6) for FY 2022-23 (AY 2023-24) annexed at **Annexure-13** with regards to above.

4.9.4. The Petitioner prays to the Hon'ble Commission to kindly approve the plant wise tax on income for FY 2022-23 as shown in the table above.

4.10. Special R&M

4.10.1. As per regulation 29.5 (iii) of the Tariff Regulations 2018, special R&M expenditure is allowed for efficient operation of the stations.

4.10.2. APGCL's expenditure under Special R&M was done for the following.

Table 39: Details of Special R&M claimed for FY 2022-23

Rs. Cr				
Work Name	Approved as per Tariff Order dated March 2022	Approved as per Tariff Order dated March 2023	Claim in FY 2022-23	Remarks
Procurement of Overseas spares for major overhauling of 2 nos. W301 Gas Turbine unit proposed to be carried out in 2023-24 used in GT #2 & #3 for NTPS	1.68	1.68	0	Work is under process. Delay is due to long procurement lead time.
Procurement of spares for major overhauling of	0.90	0.90	0	PO to be placed. Delay is due to extension in tendering process.

Work Name	Approved as per Tariff Order dated March 2022	Approved as per Tariff Order dated March 2023	Claim in FY 2022-23	Remarks
WHT#6 proposed to be carried out in 2023-24 for NTPS				
Overhauling of LTPS Unit -7 in FY 2020-21	15	15	0.98	Part amount claimed. Balance amount will be claimed in FY 2023-24
Capital Overhauling of 50 MW Francis type Fuji make Generator Turbine Unit-II -KLHEP	0	0	11.14	The work was proposed in two FYs. Procurement of spares was proposed in one FY and execution of the work was proposed in the other FY. Accordingly, work was approved in the FY 2020-21 for ₹ 15.10 Cr for procurement of spares and in the FY 2022-23 for ₹ 12.00 Cr for execution of the work.
	12	12	0	Major Overhauling of Unit-2 was delayed due to a delay in the execution of Major Overhauling of Unit-1 of KLHEP (due to Covid-19 outbreak) and the issue of replacement of the runner of Unit-2. Major Overhauling Work of Unit-2 started on 13.01.2023 and completed on 05.08.2023. With respect to Procurement and execution works, balance amounts will be claimed in FY 2023-24
Replacement of Runner of U#2 for KLHEP	8	8	3.03	The replacement was done with refurbished runner as the delivery period of a new runner was very high. The refurbished runner for Unit-2 was received at site on 27.12.2022. Major Overhauling Work of Unit-2 started on 13.01.2023 and completed on 05.08.2023 including the work of replacement of the runner.
Additional Capital Investment for Renovation work of	12	8.08	4.83	The landslide related works of KLHEP is ongoing from FY 2021-22. The Hon'ble

Work Name	Approved as per Tariff Order dated March 2022	Approved as per Tariff Order dated March 2023	Claim in FY 2022-23	Remarks
damaged assets due to Landslide for KLHEP Plant				Commission has already approved ₹ 3.92 Cr for part completion of this work in the True-up of FY 2021-22 as Special R&M. Now, APGCL is claiming ₹ 4.83 Cr for this work in the True-up of FY 2022-23 as Special R&M. Balance amount of ₹ 3.25 Cr will be claimed in the next True-up of FY 2023-24. Total Estimate for the work was ₹ 12.00 Cr and was submitted in the APR of FY 2021-22 due to emergency nature of the work as Special R&M for KLHEP and was also Considered by the Hon'ble Commission in the APR Order for FY 2021-22
Overhauling of Gas Engine units and Turbocharger of LRPP	32.72	32.72	8.90	Some work shifted to FY 2023-24. Balance amount of ₹ 23.82 Cr will be claimed in FY 2023-24 True Up
Combustion Inspection of the GT Unit of NRPP	0	0	12.76	<p>The work is already complete in FY 2022-23.</p> <p>APGCL proposed the work in the Tariff Petition for FY 2022-23 and APR for FY 2022-23. Hon'ble Commission in the APR Order for FY 2022-23 directed APGCL to submit detailed DPR for the work. APGCL submitted the same in the Review Petition and the Hon'ble Commission in the Review Order dated 25/07/2023 stated that the Commission shall consider this expense during the True-up of FY 2022-23 based on actual expenditure and submissions to be made by APGCL in the separate Petition.</p> <p>As such, APGCL is submitting the details along with the DPR and cost benefit analysis for</p>

Work Name	Approved as per Tariff Order dated March 2022	Approved as per Tariff Order dated March 2023	Claim in FY 2022-23	Remarks
				the work, as attached in Annexure-14. , APGCL is claiming 12.76 Cr in this regard in the True-up Petition of FY 2022-23. Balance amount to be claimed for FY 2023-24.

4.10.3. In view of the above regulations, the approved and actual number for Special R&M for FY 2022-23 are shown in the table below.

Table 40: Plant wise Special R&M for FY 2022-23

Rs. Cr

Station	Approved as per order of March 2022	Approved as per order of March 2023	Actual claim for FY 2022-23
NTPS	2.58	2.58	0
LTPS	15	15	0.98
KLHEP	20	28.08	19.00
LRPP	32.72	32.72	8.90
NRPP	0	0	12.76
Total	70.30	78.38	41.64

4.10.4. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Special R&M for FY 2022-23 as shown in the table above.

4.11. Capacity building

4.11.1. The Hon'ble Commission had approved expenses pertaining to Capacity Building of APGCL employees.

4.11.2. The list of capacity building activities undertaken in FY 2022-23 is shown below:

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
1	Dam Safety Act 2021 for Dam Safety Governance in India	Dept. of Water Resources, River Development and Ganga Rejuvenation	6/16/2022	6/16/2022	2
2	Seminar on National Hydrogen	AERC	7/25/2022	7/25/2022	3

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
	Mission (NHM)-2030				
3	Webinar on FIDIC Contract Management	Capacity Development Resource Center, ADB	8/29/2022	8/6/2022	2
4	Webinar on ADB Gender Policy and Practices- Capturing Gender Equality Results and documentation for Project Completion Report		8/2/2022	8/2/2022	2
5	Capacity Building on Bridges		8/30/2022	8/31/2022	2
6	Upgraded Software of CAA&A for all externally aided PIAs and Eas and other budget related information	O/o the Controller of Aid, Accounts & Audit Department of Economic Affairs, Ministry of Finance, Government of India	not mentioned	not mentioned	8
7	9th International Symposium on Hydraulic Structures (ISHS 2022)	IIT Roorkee	10/25/2022	10/27/2022	2
8	On FinAssam portal	ASPIRe, Finance department, Dispur, Guwahati	November		1
9	National Workshop on ESCerts Trading Process PAT Cycle II DCs	Price Waterhouse on Escerts Trading Process PAT Cycle II DCs	11/25/2022	11/25/2022	1

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
10	Latest Investigations, Repair & Rehabilitation Technologies for Dams	AF Academy	3/2/2023	3/3/2023	3
11	Webinar on Wealth Awareness Program	Advisors Organization	2/9/2023	2/10/2023	Open for all employees of APGCL
12	Strengthening Project Performance through Evaluation	Capacity Development Resource Center, ADB	3/1/2023	3/3/2023	5
13	Domestic Buyer Seller Meet	ELECRAMA-2023	2/18/2023	2/22/2023	3
14	ESG for Industry Transformation in NER States	National Productivity Council (NPC), under DPIIT, Ministry of Commerce and Industry, GOI	1/30/2023	1/30/2023	3
15	One day Workshop on Budget Preparation	Centre for Financial Management under the Assam Administrative Staff College (AASC)	12/22/2022	12/22/2022	3
16	Government e-Marketplace (GeM)	ASPIRe, Finance department, Dispur, Guwahati	11/30/2022	11/30/2022	2
17	One Week Capacity Building Program on Open Access, Power Trading, Tariff,	NPTI-NER	11/21/2022	11/25/2022	8

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
	ABT & Forecasting				
18	Procurement, reverse auctioning through GeM Portal	Bharat Heavy Electricals Limited (BHEL)	11/18/2022	11/18/2022	1
19	Change Management	Assam Administrative Staff College	11/28/2022	11/30/2022	5
20	5G Deployment in NE States-Issues and Challenges	Telecom Regulatory Authority of India (TRAI)	11/4/2022	11/4/2022	1
21	Webinar on Role of Energy Storage in the Clean Energy Transition	Capacity Building Resource Center, Asian Development Bank (ADB)	11/10/2022	11/10/2022	2
22	3rd WePower Conference of the South Asia Women in Power Sector Professional Network	Asian Development Bank	12/6/2022	12/8/2022	1
23	Solar PV Power Plant (O&M, Design, DPR Preparation & Tariff Calculation)	NPTI-NER	9/19/2022	9/23/2022	5
24	Public Procurement Act 2017 & Rules, 2020 and Government e-Marketplace	Assam Administrative Staff College	5/7/2022	5/7/2022	4
25	Webinar on ADB Financial Management Reporting Requirements	Centre for Financial Management under the Assam	4/28/2022	4/28/2022	1

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
		Administrative Staff College (AASC)			
26	Webinar on Grievance Redress Mechanism for ADB assisted Projects (Batch B)	Capacity Development Resource Center, ADB	7/14/2022	7/16/2022	2
27	Webinar on Grievance Redress Mechanism for ADB assisted Projects (Batch A)	Capacity Development Resource Center, ADB	6/20/2022	6/24/2022	2
28	Webinar on Transitioning from the FIDIC Pink Book (2010) to FIDIC Red Book	Capacity Development Resource Center, ADB	6/28/2022	6/28/2022	2
29	Cloud Computing on Physical Delivery	Ministry of Electronics and Information Technology (MeitY), Govt. of India	4/4/2022	4/5/2022	2
30	Cloud Computing on Online Delivery	Ministry of Electronics and Information Technology (MeitY), Govt. of India	4/6/2022	4/8/2022	2
31	Webinar on FAQs on Procurement of Works and Goods and Consultancy Services	Capacity Development Resource Center, ADB	4/20/2022	4/20/2022	2

Sl. No.	Name of Training Programme	Organizing Institute	Period of Training		No. of Participants
			From	To	
32	Webinar on ADB Disbursement Procedures and CPD		4/25/2022	4/27/2022	2
33	Webinar on ADB Gender Policy and Practices- GESI/Gender Action Plan implementation, monitoring and reporting		4/29/2022	4/29/2022	2
34	Webinar on ADB Safeguards Procedures		5/9/2022	5/12/2022	2
35	Claims Management	Salasar Services (Insurance Brokers) Pvt. Ltd.	4/5/2022	4/8/2022	Open for all employees of APGCL

4.11.3. The approved and claimed expenses have been shown in the table below:

Table 41: Expenses under Capacity building for FY 2022-23

Station	Approved as per order of March 2022	Claim for FY 2022-23
NTPS	0	0.02
LTPS	0	0.05
KLHEP	0	0.05
LRPP	0	0.04
NRPP	0	0.05
Total	0	0.22

4.11.4. APGCL prays to the Hon'ble Commission to kindly approve the above-mentioned capacity building expenses for FY 2022-23.

4.12. Non-Tariff income

4.12.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

4.12.2. In view of the above regulations, the details of non-tariff income for FY 2022-23 are shown in the table below.

Table 42: Station-wise details of non-tariff income for FY 2022-23

Rs. Cr

Station	Approved as per order of March 2022	Approved as per APR Order of March 2023	Actual claim for FY 2022-23
NTPS	7.13	6.58	5.96
LTPS	9.22	26.97	14.61
KLHEP	5.75	11.84	13.86
LRPP	0.00	0.00	0.00
NRPP	0.00	0.00	0.00
Total	22.09	45.39	34.43

4.12.3. As per audited accounts for FY 2022-23, total other income appeared as Rs. 35.79 Crore. However, as per CAG report, same is overstated by Rs 1.36 Cr through wrong inclusion of advance received against 'Land Lease charges' and 'Local Area Development Fund Charges' pertaining to FY 2023-24 and hence same has been deducted from above claim. Non-tariff income, thus considered and claimed totals to Rs 34.43 Cr. Copy of CAG report with respect to above is provided at **Annexure-15**.

4.12.4. APGCL prays to the Hon'ble Commission to approve the plant wise non-tariff income for FY 2022-23 as shown above.

5. Energy Charges

5.1. Fuel Price and Calorific Value

5.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The actual values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below.

Table 43: Actual Plant wise GCV and Price of Gas for FY 2022-23

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs. /1000 SCM)
NTPS	9220.72	16146.25
LTPS	9853.02	22317.28
LRPP	9217.11	25247.21
NRPP	9220.72	16146.25

5.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the actual Price of Gas and GCV for NTPS, LTPS, LRPP and NRPP for FY 2022-23 as shown in the table above.

5.2. Fuel cost

5.2.1. The table below shows the plant wise approved fuel cost and the claimed fuel cost for FY 2022-23.

Table 44: Fuel cost of NTPS for FY 2022-23

Rs. Cr

Particulars	Unit	Approved as per order of March 2022	Claim for FY 2022-23
Gross Generation	MU	195.09	192.85
Heat Rate	kCal/kWh	3900.00	4020.76
GCV of gas	kCal/kWh	9204.80	9220.72
Overall Heat	G. cal.	760856.22	775422.08
Gas consumption	M. SCM	82.66	84.10
Price of Gas	Rs. /1000 SCM	5617.39	16146.25
Total cost of Gas	Rs. Crore	46.43	135.78

Table 45: Fuel cost of LTPS for FY 2022-23

Rs. Cr

Particulars	Unit	Approved as per order of March 2022	Claim for FY 2022-23
Gross Generation	MU	425.74	540.52
Heat Rate	kCal/kWh	3200.00	3200.00
GCV of gas	kCal/kWh	9337.66	9853.02
Overall Heat	G. cal.	1362355.20	1729670.40
Gas consumption	M. SCM	145.90	175.55
Price of Gas	Rs. /1000 SCM	7932.73	22317.28
Total cost of Gas	Rs. Crore	115.74	391.77

Table 46: Fuel cost of LRPP for FY 2022-23

Rs. Cr

Particulars	Unit	Approved as per order of March 2022	Claim for FY 2022-23
Gross Generation	MU	519.40	505.41
Heat Rate	kCal/kWh	2150.00	2150.00
GCV of gas	kCal/kWh	9337.66	9217.11
Overall Heat	G. cal.	1116700.82	1086622.47
Gas consumption	M. SCM	119.59	117.89
Price of Gas	Rs./1000 SCM	7932.73	25247.21
Total cost of Gas	Rs. Crore	94.87	297.64

Table 47: Fuel cost of NRPP of FY 2023-23

Rs. Cr

Particulars	Unit	Approved as per order of March 2022	Claim for FY 2022-23
Gross Generation	MU	732.69	442.23
Heat Rate	kCal/kWh	1951.05	2927.00
GCV of gas	kCal/kWh	9204.80	9220.72
Overall Heat	G. cal.	1429505.60	1294392.93
Gas consumption	M. SCM	155.30	140.38
Price of Gas	Rs./1000 SCM	5617.39	16146.25
Total cost of Gas	Rs. Crore	87.24	226.66

5.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the actual fuel cost Price for NTPS, LTPS, LRPP and NRPP for FY 2022-23 as shown in the table above.

5.3. Incentives

5.3.1. Incentive for NTPS: As per regulation 53 of the Tariff Regulations 2021, incentive is payable for actual energy generation in excess of ex-bus energy corresponding to target PLF.

5.3.2. The target PLF of NTPS was 50% for claiming incentive as per the Tariff Regulations 2021. Actual PLF achieved considering effective installed capacity of 36.91 MW was 58.91% for FY 2022-23.

5.3.3. In view of the above, the Petitioner claims the incentive at a rate of 50 paise for NTPS as shown in the table below.

Table 48: Incentive claim for NTPS for FY 2022-23

Sl. No.	Station	Installed Capacity (MW)	Target PLF for allowing incentive (%)	Gross Generation with target PLF (MU)	Approved aux. consumption (%)	Net generation with target PLF (MU)	Actual PLF	Gross Generation (Actual) (MU)	Actual aux. consumption (%)	Net Generation (Actual) (MU)	Ex-bus energy eligible for incentive	Incentive Rs Crore
	1	2	3	4	5	6	7	8	9	10	12= (10+11-6)	13= 12 x 50 paise
1	NTPS	36.91	50%	161.67	4.50%	154.40	58.91%	192.85	5.68%	181.90	27.50	1.375

5.3.4. Secondary charge for KLHEP: As per regulation 54.6 of the Tariff Regulations 2021, for a hydro power station if the actual saleable energy in a year exceeds Design energy the Energy Charge for such energy is billed equal to the lowest variable charges of the central sector thermal power generating stations in the northeast region.

5.3.5. For the FY 2022-23, APGCL has claimed towards secondary charge for KLHEP as mentioned in below table.

Table 49: Secondary Charge of KLHEP for FY 2022-23

Rs. Cr

Sl. No.	Month	Cumulative Design Energy (net of Aux. Consumption) in FY 2022-23	Cumulative Actual Energy Sent out in FY 2022-23	Excess over Design Energy eligible for incentive	Secondary Charge Rate (Rs/kWh)	Secondary charge (Rs. Cr)
		A	B	C	D	E= C x D/10
1	Nov-22	351.24	401.18	13.13	1.951	2.56
2	Dec-22	366.16	427.56	26.38	1.951	5.14
3	Jan-23	377.11	445.96	18.40	1.943	3.57
4	Feb-23	382.08	459.33	13.37	1.943	2.60
5	Mar-23	388.05	473.40	14.07	1.943	2.73
TOTAL				85.35		16.61

5.4. Revenue from sale of power

5.4.1. The plant wise Revenue from Sale of Power for FY 2022-23 are as shown in the tables below.

Table 50: Plant wise Revenue from Sale of Power for FY 2022-23

Rs. Cr

Particular	Fixed/Capacity charges	Variable charges	Incentive	Total Revenue appeared in Accounts FY 23	Approved as per order of March 2022	Actual claim for FY 2022-23
NTPS	15.84	131.65	1.38	148.87	62.23	148.87
LTPS	65.76	388.18	0	453.94	181.52	453.94
KLHEP	41.28	49.28	16.61	107.16	98.85	107.16
LRPP	75.60	298.75	0	374.35	170.45	374.35
NRPP	148.68	152.55	0	301.23	235.88**	301.23
Total	347.16	1020.42	17.98	1385.55	748.93	1385.55

**Net ARR approved for NRPP in tariff order dated 21st March 2022.

5.4.2. The Petitioner prays to the Hon'ble Commission to approve the plant wise Sale of Power for FY 2022-23 as discussed in the table above.

6. Summary of submissions for True-up of FY 2022-23

6.1. Net Annual Revenue Requirement

6.1.1. The plant wise Net Annual Revenue Requirements for FY 2022-23 are as shown in the tables below.

Table 51: Net Annual Revenue Requirements of NTPS for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	195.09	192.85
	Net Generation	186.31	181.90
	Auxiliary Consumption Loss %	4.50%	5.68%
I	Fixed Charges		
	Operation & Maintenance Expenditure	15.38	19.26
	Increase in AERC Filing Fees	0.10	0.10
	Interest & Finance Charges	0.00	0.02
	Interest on working Capital	1.31	5.28
	Depreciation	0.47	2.05
	Return on Equity	3.10	2.77
	Income taxes	0	2.09
	Special R&M	2.58	0.00
	Capacity Building	0.00	0.02
	Less: Other Income	-7.13	-5.96
II	Total Fixed Charges	15.81	25.64
III	Fuel Cost	46.43	135.78
IV	Total Revenue Requirement	62.24	161.42
V	Incentive for generation for FY 23		1.37
VI	Total Cost	62.24	162.80
VII	Revenue from Sale of Power	62.24	148.87
VIII	Revenue Gap (+) / Surplus (-)		13.93

Table 52: Net Annual Revenue Requirements of LTPS for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	425.74	540.52
	Net Generation	402.32	498.82
	Auxiliary Consumption Loss %	5.50%	7.72%
I	Fixed Charges		
	Operation & Maintenance Expenditure	29.31	46.55
	Increase in AERC Filing Fees	0.10	0.10



Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
	Interest & Finance Charges	0.00	0.22
	Interest on working Capital	4.17	14.97
	Depreciation	11.26	14.26
	Return on Equity	15.16	15.86
	Income taxes	0	6.38
	Special R&M	15.00	0.98
	Capacity Building	0.00	0.05
	<u>Less: Other Income</u>	-9.22	-14.61
II	Total Fixed Charges	65.78	84.76
III	Fuel Cost	115.74	391.77
IV	Total Revenue Requirement	181.52	476.53
V	Incentive for generation for FY 22		
VI	Total Cost	181.52	476.53
VII	Revenue from Sale of Power	181.52	453.94
VIII	Revenue Gap (+) / Surplus (-)		22.60

Table 53: Net Annual Revenue Requirements of KLHEP for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	390.00	475.78
	Net Generation	388.05	473.40
	Auxiliary Consumption Loss %	0.50%	0.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	33.31	34.28
	Increase in AERC Filing Fees	0.00	0.00
	Interest & Finance Charges	16.66	11.82
	Interest on working Capital	2.42	3.81
	Depreciation	21.56	22.14
	Return on Equity	10.64	24.09
	Income taxes	0	1.51
	Special R&M	20.00	19.00
	Capacity Building	0.00	0.05
	<u>Less: Other Income</u>	-5.75	-13.86
II	Total Fixed Charges	98.85	102.85
III	Fuel Cost	0.00	0.00
IV	Total Revenue Requirement	98.85	102.85
V	Incentive for generation & Secondary energy generation		16.61
VI	Total Cost	98.85	119.45
VII	Revenue from Sale of Power	98.85	107.16



Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
VIII	Revenue Gap (+) / Surplus (-)		12.29

Table 54: Net Annual Revenue Requirements for LRPP for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	519.40	505.41
	Net Generation	501.22	487.72
	Auxiliary Consumption Loss %	3.50%	3.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	30.27	30.27
	Increase in AERC Filing Fees	0.10	0.10
	Interest & Finance Charges	2.56	2.32
	Interest on working Capital	4.79	11.54
	Depreciation	2.69	13.67
	Return on Equity	2.44	12.61
	Income taxes	0	5.26
	Special R&M	32.72	8.90
	Capacity Building	0.00	0.04
	<u>Less:</u> Other Income	0.00	0.00
II	Total Fixed Charges	75.58	84.71
III	Fuel Cost	94.87	297.64
IV	Total Revenue Requirement	170.45	382.35
V	Incentive for generation for FY 22		
VI	Total Cost	170.45	382.35
VII	Revenue from Sale of Power	170.45	374.35
VIII	Revenue Gap (+) / Surplus (-)		8.00

Table 55: Net Annual Revenue Requirements of NRPP for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	732.69	442.23
	Net Generation	696.05	420.11
	Auxiliary Consumption Loss %	5.00%	5.00%
I	Fixed Charges		
	Operation & Maintenance Expenditure	22.90	41.66
	Increase in AERC Filing Fees	0.00	0.00
	Interest & Finance Charges	50.05	47.91



Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
	Interest on working Capital	5.54	12.11
	Depreciation	36.27	42.08
	Return on Equity	33.90	33.90
	Income taxes	0	4.24
	Special R&M	0.00	12.76
	Capacity Building	0.00	0.05
	<u>Less:</u> Other Income	0.00	0.00
II	Total Fixed Charges	148.65	194.70
III	Fuel Cost	87.24	226.66
IV	Total Revenue Requirement	235.89	421.36
V	Incentive for generation for FY 2021-22		
VI	Total Cost	235.89	421.36
VII	Revenue from Sale of Power	235.89	301.23
VIII	Revenue Gap (+) / Surplus (-)		120.13

6.1.2. For NRPP, with reference to issues faced mentioned in para 3.5.10, the Hon'ble Commission is requested to allow full fixed cost recovery for FY 2022-23.

6.2. Summary

6.2.1. The summary of the True-up for FY 2022-23 For APGCL is as shown below.

Table 56: True-up of APGCL as Whole for FY 2022-23

Rs. Cr

Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
I	POWER GENERATION (MU)		
	Gross Generation	2262.92	2156.79
	Net Generation	2173.96	2061.95
	Auxiliary Consumption Loss %	3.9%	4.4%
I	Fixed Charges		
	Operation & Maintenance Expenditure	131.17	172.01
	Increase in AERC Filing Fees	0.30	0.30
	Interest & Finance Charges	69.27	62.29
	Interest on working Capital	18.22	47.71
	Depreciation	72.24	94.21
	Return on Equity	65.24	89.22
	Income taxes	0.00	19.48
	Special R&M	70.30	41.64
	Capacity Building	0.00	0.22
	<u>Less:</u> Other Income	-22.10	-34.43
II	Total Fixed Charges	404.67	492.65



Sl. No	Particulars	Approved as per order of March 2022	Claim for FY 2022-23
III	Fuel Cost	344.28	1051.86
IV	Total Revenue Requirement	748.95	1544.51
V	Incentive for generation and Secondary Energy generation	0.00	17.98
VII	Total Cost	748.95	1562.50
VIII	Revenue from Sale of Power	748.95	1385.55
X	Revenue Gap (+) / Surplus (-)	0.00	176.94

6.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the plant wise Net Annual Revenue Requirement for FY 2022-23 as discussed in the tables above.

6.3. Adjustment of Revenue Gap / Surplus

6.3.1. The plant wise Revenue Gap / Surplus and for APGCL as a whole are shown in the table below.

Table 57: Revenue Gap / Surplus amount of APGCL for FY 2022-23

Rs. Cr

Particulars	NTPS	LTPS	KLHEP	LRPP	NRPP	APGCL as a whole
	Amount claimed for True-Up					
Total Cost	162.80	476.53	119.45	382.35	421.36	1562.50
Revenue from Sale of Power	148.87	453.94	107.16	374.35	301.23	1385.55
Revenue Gap (+) / Surplus (-)	13.93	22.60	12.29	8.00	120.13	176.94

6.3.2. In view of the above, APGCL has not claimed the carrying cost for APGCL as a whole. The Total True-up Claim is shown in the table below.

Table 58: Total True-up Claim of APGCL for FY 2022-23

Rs. Cr

True-up Claim	FY 2022-23
Revenue Gap for 2022-23	176.94
Carrying /(holding) cost for FY 2022-23 @ 11.53% (half Year)	10.20
Carrying /(holding) cost for FY 2023-24 @ 11.53% (Full Year)	20.39
Carrying /(holding) cost for FY 2024-25 @ 11.53% (half Year)	10.20
Cumulative Revenue Gap	217.73

6.3.3. The Petitioner prays to the Hon'ble Commission to approve the total True-up Claim including carrying cost for FY 2022-23 as discussed in the table above.

6.4. Mechanism of recovery of Surplus/Gap of FY 2022-23

- 6.4.1. APGCL humbly submits that the revenue gap obtained for FY 2022-23 may be allowed to be recovered from APDCL in 12 equal monthly instalments in FY 2024-25, over and above the tariff for FY 2024-25.

REVISED CAPITAL INVESTMENT PLAN FOR FY 2023-24
TO
FY 2024-25 for NTPS, LTPS, KLHEP, LRPP and NRPP
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

7. Revised Capital Investment Plan of NTPS, LTPS, KLHEP, LRPP and NRPP for FY 2023-24 to FY 2024-25

7.1. Regulatory provisions

7.1.1. The Hon'ble Commission in its Tariff regulations 2021 has stated the following on Capital Investment Plan for generating companies for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"6 Capital Investment Plan

6.1 The Generating Company, Transmission Licensee, SLDC Business and Distribution Licensee shall submit a Capital Investment Plan for the entire Control Period, as part of the MYT Petition as per the timeline specified in this Regulation and accompanied by the Fee required for processing of Investment plan, as specified in AERC (Payment of Fee) Regulations, 2020 as amended from time to time.

6.2 The Capital Investment Plan for a generating company shall be based on planned generation capacity growth and shall contain among other things the following (i) generation forecasts; (ii) future performance targets; (iii) proposed efficiency improvement measures; (iv) saving in operating costs; (v) plan for reduction in per unit/per MW cost of generation (vi) financial statements (which include balance sheet, profit and loss statement and cash flow statement) - current and projected (at least for the control period duration) along with basis of projections; (vii) any other new measure to be initiated by the Generating Company e.g. IT initiatives, third party energy audit, safety initiatives etc."

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6.15 In case the capital expenditure is required for emergency work which has not been approved in the Capital Investment Plan, the licensee shall submit an application, containing all relevant information along with reasons justifying emergency nature of the proposed work, seeking approval by the Commission. The licensee shall take up the work prior to the approval of the Commission provided that the emergency nature of the scheme has been certified by its Board of Directors.

6.16 The generation company and the licensee shall submit all information / data as required by the Commission for necessary approval of the Capital Investment plan.

7.1.2. In accordance with the regulatory requirements, APGCL is submitting a revised Capital Expenditure Plan for APGCL for the Control Period FY 2023-24 to FY 2024-25 for approval from the Hon'ble Commission.

8. Revised Capital Expenditure Plan – Existing Projects

8.1. Revised Capital Expenditure Plan of Existing Projects

8.1.1. In continuation of successful execution of earlier Renovation and Modernisation (R&M) schemes, it has been proposed for implementation of a comprehensive R&M schemes for LTPS, NTPS, KLHEP, LRPP and NRPP covering the period 2023-24 to 2024-25. These R&M schemes have been necessitated in order to ensure maximum reliability and availability of the existing units of NTPS, LTPS, KLHEP, LRPP & NRPP to maximize generation. The R&M of power stations has been considered to be the most attractive economic option for the Company. R&M schemes are aimed at improving generation, reliability and availability of generating units.

8.1.2. APGCL hereby petitions for a revised Capital Expenditure Plan for its Existing Plants to the Hon'ble Commission.

8.2. Revised Capital Expenditure Plan of NTPS

8.2.1. The following capital expenditure Plan is proposed for Namrup Thermal Power Station for the Period FY 2023-24 to 2024-25.

Table 59: Revised CAPEX plan proposed for NTPS in FY 2023-24 and FY 2024-25

Rs. Lakhs

		Approved by Commission		Revised Capital Expenditure		
S. No	Approved Schemes	In Rs. Lakhs				Remarks
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
A	Electro-mechanical Work of NTPS					
1	100W LED Street Light/bay light (complete set) with separate clamps & pipe bend fitting etc.	10	-	10	-	50 Nos street lights procured. Procurement complete
2	30 M high Mast Lighting System (complete set)	12	12	-	17	Dropped due to fund constraint in FY 2023-24. Proposed to revise the amount for FY 2024-25. Revised as per revised estimate.
3	Renovation of damaged sludge removing system of water clariflocculation system at Dillighat water Intake for the purpose of better water treatment	12	-	16.15	-	Rs 12 lakhs approved in FY 2022-23 and FY 2023-24 each. Total amount claimed in FY 2023-24. Order placed, to be completed by March'24
4	Construction of dedicated 2 (two) nos. of 33 KV APGCL Bay at 220 KV GSS, AEGCL, Namrup	-	-	160	-	Rs 1.6 Cr approved by Commission in FY 2022-23. The work got delayed due to Fund Constraint. Order placed, to be completed by March'24. Amount hence claimed in FY 2023-24

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24		FY 2024-25
5	Supply, installation & commissioning of sulphuric Acid dilution tank at DM Plant	-	-	9.5	-	Rs. 9.5 Lakhs was approved by Commission for FY 2022-23. The work got delayed due to Fund Constraint. Order placed, to be completed by March'24. Amount hence claimed in FY 2023-24
6	Renovation of damaged drinking water supply pipeline from D.M. plant to WHP residential colony & officers' colony at pahar line	-	-	12	-	Rs 12 lakhs was approved in FY 2022-23. Work got delayed due to Fund Constraint. Order placed, to be completed by March'24. Amount hence claimed in FY 2023-24
Total Amount (Rs. Lakhs)		34.00	12.00	207.65	17.00	

8.3. Revised Capital Expenditure Plan of LTPS

8.3.1. The following capital expenditure Plan is proposed for Lakwa Thermal Power Station for the Period FY 2023-24 to 2024-25:

Table 60: Revised CAPEX plan proposed of LTPS for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Approved Schemes	Approved by Commission		Revised Capital Expenditure		Remarks
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
A	Electro-mechanical Work of LTPS					
1	Replacement of Fill Packs of 03 cells of Cooling Tower		-	170		Amount approved by Commission in FY 2022-23. Work is Completed. Same is extended to FY 2023-24 due to mismatch of one butterfly valve. Hence, amount claimed in FY 2023-24.
2	Overhauling of HPBFP with mandatory spares	140	-	140	-	Same
3	Overhauling of Cooling Water Pumps (CWP) along with supply of spares.	-	-	100		Supply part complete. Service part to be completed by March'24. Commission via Order dated March 2023 had mentioned to approve the amount based on actuals.
4	Replacement of Battery Bank, Charger Panel and DCDB Panel for GT unit #5, #6 and #7	-	150	-	150	Same

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24		FY 2024-25
5	Condensate Extractor Pump Overhauling	-	-	50	-	Amount was approved in FY 2022-23. Work is completed in FY 2023-24 and hence amount claimed in FY 2023-24. Was delayed due to delay in necessary approvals
6	Replacement of critical MOVs with new & servicing of the remaining MOVs & servicing of Mechanical Valves	-	-	100	-	Amount was approved in FY 2022-23. Work is completed in FY 2023-24 and hence amount claimed in FY 2023-24. Was delayed due to delay in necessary approvals
7	Up-gradation of Generators control & protection panel of 3 X 20MW, Ph-II units (1 unit in first phase) For unit # 5	150	-	-	-	Dropped due to Funds Constraint
8	Procurement and installation and commissioning of 132 KV SF6 Breaker (05 nos.), spring charge mechanism along with up gradation of Control Panel.	350	-	-	-	Dropped due to Funds Constraint
9	Procurement of auxiliaries motors and field instruments for 4RDS2 Dresser-Rand Gas Compressor units #6, # 7 and #8	-	-	73	-	Amount was approved in FY 2022-23. Work was delayed due to modification of scope of work. PO has been Placed. To be completed by March'24
10	Procurement of spares for 4RDS2 Dresser-Rand Gas Compressor # 6,7 & 8.	-	-	78	-	Amount was approved in FY 2022-23. Work was delayed due to procurement through Tendering process rather than OEM procurement for better price discovery. PO has been placed. To be completed by March'24
11	Diversion of 11 KV Colony Feeder	-	-	35	-	Amount was approved in FY 2022-23. Work was delayed due to modification in scope of work. Tendering is under process
12	Servicing of Diverter Damper (DD) Complete & its actuator gearbox along with supply of spares	40	-	-	40	Deferred due to funds constraint
13	Procurement of a new Silica analyzer for SWAS.	12	-	-	12	Deferred due to funds constraint
14	Replacement of Motor Control Centre Panel for	25	-	-	-	Dropped due to funds constraint

		Approved by Commission	Revised Capital Expenditure		Remarks	
S. No	Approved Schemes	In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
	Raw Water Intake Pump House.					
15	Major overhauling of Generator transformer ,30 MVA 11/132KV of GT unit #5 and #6 along with oil filtration	25	-	-	25	Deferred due to funds constraint
16	Procurement of 05 sets of 132KV isolators for replacing the old existing isolators in phase II power house switchyard	50	-	-	-	Dropped due to funds constraint
17	Testing and commissioning of transfer Bus of 132kV PH#II switchyard including switchyard auxiliaries.	40	-	-	-	Dropped due to funds constraint
18	Major Overhauling of 7.5MVA 132/3.3kv Station transformer 1 &2.	20	-	-	20	Overhauling of ST-1 had to be done on emergency basis with O&M fund due to breakdown. Overhauling of ST-2 could not be done in FY 2023-24 due to fund constraints. Now, the work for ST-2 is proposed in FY 2024-25.
19	Renovation of Air Conditioning system of Phase-II Power Control room	50	-	50	-	Same
20	Procurement of Inlet Air filter for 20 MW frave-V Gas Turbine # 6 & 7- 01 set	15	-	15	-	Tendering is under process. Work to be completed within FY 2023-24
21	Modification of Hydran Point Pipe line of Fire Fighting system at PH-II power House	50	-	-	-	Dropped due to funds constraint
22	Procurement of 33kV Current transformers.	21	-	-	-	Dropped due to funds constraint
23	Procurement of Transformer 132kV Isolators.	36	-	-	-	Dropped due to funds constraint
24	Procurement of 33kV Isolators.	28	-	-	-	Dropped due to funds constraint
25	Procurement of 145kV Circuit Breaker	9	-	-	-	Dropped due to funds constraint
26	Field Instruments of C&I	-	10	-	10	Same
27	Procurement of Intake Pump	-	25	-	25	Same

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24		FY 2024-25
28	Up-gradation of illumination system of WHRP.	-	10	-	10	Same
29	Procurement, erection, testing and commissioning of High Mast Tower for illumination in the entire Ph-II Power House and Switchyard area. 4 (Four) No.s	-	60	-	60	Same
30	Procurement of spares for Ingersoll rand Instrument Air Compressor # 1, 2 & 3	-	5	-	5	Same
31	Procurement of fan blade Assembly for 4DRS2 Dresser -Rand Heat exchanger of Gas Compressor #6, 7 or 8.(02 set)	-	35	-	35	Same
32	Inspection servicing and maintenance of 4RDS2 Gas compressor #8 by OEM Dresser-Rand	-	10	-	10	Same
33	Procurement of one 500KVA 33/0.4kV transformer.	-	7.7	-	7.7	Same
34	Procurement of Transformer oil filtration machine	-	35.2	-	35.2	Same
35	Procurement of one 2.5 MVA 33/11 KV Transformer.	-	35	-	35	Same
36	Procurement of Switchyard and Colony equipment for renovation and upgradation of existing old system	-	30	-	30	Same
B	Civil Work of LTPS					
37	Layout of LTPS Plant with supply of all proper drawings	-	-	6	-	Amount approved by Commission for FY 2022-23. Work is deferred to FY 2023-24 due to fund constraints. PO is already placed. Work to be completed by March24
38	Deep tube well water supply system inside the power plant at LTPS,	-	-	55	-	Amount approved by Commission for FY 2022-23. Work is deferred to FY 2023-24 due to fund constraints. PO is

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
	Maibella (Including boring, supplying, and fitting of pump set up with all pipeline and fittings, construction of filter chamber and supply of all filter materials.)					already placed. Work to be completed by March24
39	Construction of paver block road from main road in front of army canteen to newly constructed multi storied building inside LTPS residential colony.	-	-	35		Amount approved by Commission for FY 2022-23. Work is deferred to FY 2023-24 due to fund constraints. PO is already placed. Revised estimate is due to price escalation
40	Roof treatment of cooling water pump house panel room of WHRP at power plant of LTPS	-	-	0.78	-	Rs 2 Lakhs was approved for FY 2022-23. Work complete. Same was delayed due to fund constraints.
41	Repairing of Switchyard stored at power plant at LTPS	-	-	8.8	-	Rs 8 Lakhs was approved by Commission for FY 2022-23. Work complete. Same was delayed due to fund constraints
42	Renovation of children park and construction of surrounding drain along with cover slabs at LTPS, Maibella	-	-	20	-	Amount approved by Commission for FY 2022-23. Work is deferred to FY 2023-24 due to fund constraints. PO is already placed. Work to be completed by March25
43	Development and repairing of roads inside LTPS residential colony.	15	15	-	15	Work is deferred to FY 2024-25 due to fund constraint.
44	Repairing of quarters at LTPS residential colony.	30	30	23.7	30	Work Complete for FY 2023-24.
45	Renovation of water supply pipelines and all fittings at LTPS residential colony and Power Plant	10	-	10	-	PO is already placed. Work to be completed by March24
46	Repairing of water pump house building, development of surrounding areas of water supply system of LTPS	7	-	7	-	PO is already placed. Work to be completed by March24
47	Supplying of filter chamber material of LTPS	8	-	7.24	-	Work completed.
48	Development of boundary walls around LTPS Colony	20	-	20	-	PO is already placed. Work to be completed by March24
49	Renovation of Erector's Hostel at LTPS	15	15	-	15	To be executed in FY 2024-25 with the approved amount for that year.

		Approved by Commission	Revised Capital Expenditure		Remarks	
S. No	Approved Schemes	In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
50	Providing of boundary fencing for the residential quarters of LTPS	20	20	17.88	20	Work Complete for FY 2023-24.
51	Repairing of Administrative office building of LTPS	15	15	15	-	PO is already placed. Work to be completed by March24
Total Amount (Rs. Lakhs)		1201	507.9	1037.4	589.9	

8.4. Revised Capital Expenditure Plan of KLHEP

8.4.1. The following Revised Capital Expenditure Plan is proposed for Karbi Langpi Hydro Electric Power Station for the Period 2023-24 to 2024-25.

Table 61: Revised CAPEX plan proposed of KLHEP for FY 2023-24 to FY 2024-25

Rs. Lakhs

		Approved by Commission	Revised Capital Expenditure		Remarks	
S. No	Approved Schemes	In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
A	Electro-mechanical Work of KLHEP					
1	Spare for Inspection & Repairing of KLHEP units	40	40	40	40	Work complete for FY 2022-23 & 2023-24.
2	Replacement of Broken Cable Tray in 220 KV Switchyard area.	20	20	0	60	Work for FY 2022-23 & 2023-24 not done. The whole work is proposed to be done in FY 2024-25
3	Renovation of Runner for 51MW Francis type vertical shaft Turbine of KLHEP	-	500			The amount is approved by Commission for FY 2024-25. The work of refurbishment of the runner had to prepone with own fund of APGCL to FY 2022-23 to replace the existing runner of unit-2 during the overhauling of the unit to avoid delay of the overhauling work as the delivery period of a new runner was very long. The amount for refurbishment of the runner will be claimed in the true-up as Special R&M.
4	Marshalling Panel for 21MVA Generator Transformer	-	-	61.4	-	Rs 65 Lakhs was approved by Commission for FY 2022-23. Work got delayed due to funds constraint. Work Order has been issued. Execution is under progress. To be completed within FY 2023-24

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24		FY 2024-25
5	3-Phase, 750KVA, 11/0.43KV Transformer used as Unit Auxiliary Transformer (UAT)	-	-	20.5	-	Rs 25 Lakhs was approved by Commission for FY 2022-23. Work got delayed due to funds constraint. Work Order has been issued. Execution is under progress.
6	Design, Supply and installation & Commissioning of extension in the existing 33 KV outdoor Switchyard for Station auxiliary power supply to 2X50 MW KLHEP Power house and Project Area	-	-	-	250	Amount has already been approved by Commission for FY 2022-23. Work got delayed due to funds constraint. Tender evaluation is under process
7	Silent 500KVA DG set for Power House	65	-	90		Work is under progress. To be completed by FY 2023-24. Amount has been revised after tendering
8	Mobile crane with 360 base rotation and lifting capacity of 20 Ton	180	-	180	-	Tendering is under process.
9	Renovation and Refurbishment of 130T EOT Crane with redesigned control system.	60	-	-	60	Work partially completed in FY 2022-23 with O&M fund due to emergency as the crane brokedown during the overhauling of U-2. Now the overall overhauling of the crane is proposed in FY 2024-25.
10	Replacement of all 2X50 Mw Generator Control and Relay Panel	350	-	-	350	Work deferred due to fund constraint
11	Cooling water supply system for Generator Turbine and Transformer	150	-	-	150	Deferred due to exploring new technology
12	Design, Supply and installation & Commissioning Bay Extension in the existing 220KV KLHEP Switchyard for ideal Charging of 16 MVA Bharat Bijlee make 220/33KV transformer.	-	100	-	100	Work will be done in FY 2024-25
13	Roof Top Solar Power For KLHEP	-	95	95	-	Work has been preponed to FY 2023-24. Work is under process and will be completed by Mar'24
14	Upgradation of Transformer capacity and	-	75		75	Same

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24		FY 2024-25
	substation at KLHEP Lengery					
	Civil Work of KLHEP					
15	TOE wall for all benches at excavated area, drains for all benches, riverbank, protection at upstream left bank, site clearance at Dam gallery etc	-	-			This work is being executed as Special R&M as proposed by APGCL and considered by the Hon'ble Commission in the APR of FY 2021-22 as part of the landslides related works. The work was also proposed in the CAPEX with funds proposed to be obtained from GOA as it was an emergency work and APGCL was not certain whether the same would be considered by the Hon'ble Commission or not. Thereafter, the Hon'ble Commission considered the work in the APR of FY 2021-22 and part expenditure of ₹ 3.92 Cr for landslides related works was also approved as Special R&M in the True-up of FY 2021-22. Further, APGCL has not received any fund from GOA for this work.
16	Roof leakage treatment, Boundary wall and fencing, painting of penstock pipes, checking of penstock welding joints etc	40	-	40		Tender for the work is under process. Work to be completed before 31st March 2024
17	Chain link fencing around the premises, repairing of old civil store at Amtreng etc	20	-		20	Work could not be carried out in FY 2023-24 due to fund constraint. Deferred for FY 2024-25
18	Colony road, quarter repairing, construction of new multi storey residential building etc	170	-		170	Deferred due to fund constraint
19	Renovation of tunnel for spalling areas at various locations of tunnel during impounding or machine over hauling	20	-			This work is being executed as Special R&M as proposed by APGCL and considered by the Hon'ble Commission in the APR of FY 2021-22 as part of the landslides related works. The work was also proposed in the CAPEX with funds proposed to be obtained from GOA as it was an emergency work and APGCL was not certain whether the same would be considered by the Hon'ble Commission or not. Thereafter, the Hon'ble Commission considered the work in the

		Approved by Commission		Revised Capital Expenditure		Remarks
S. No	Approved Schemes	In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
						APR of FY 2021-22 and part expenditure of ₹ 3.92 Cr for landslides related works was also approved as Special R&M in the True-up of FY 2021-22. Further, APGCL has not received any fund from GOA for this work.
20	Security barrack, staircase or permanent foot bridge, hydraulic oil for powerpack, painting of radial gates, drain at quarry no. 1&2 etc	150	-		150	Deferred due to fund constraint
21	Painting of powerhouse, maintenance of anchor blocks and saddles etc	35	-	35		Tender for the work has been floated for an amount of Rs. 18.19 lakhs as per the estimate and site conditions. Works to be completed before 31st March 2024
22	Repairing of security rest room, chain link fencing, around the premise etc	25	-			Dropped due to fund constraint.
23	Side drain along with Bitumeneous roads from zero point to Hatidubi Dam, cattle bridge, retaining walls etc	300	-	-	-	Dropped due to ongoing talks with KAAC to hand over the road to PWD
24	Boundary wall around the premises, repairing of old electromechanical store etc	50	-		50	Deferred due to fund constraint
25	New water supply system, water treatment plant etc	50	-	50	-	Tender for the work has been floated. Works to be completed before 31st March 2024
26	Construction of new bitumeneous road at 3-new stretches, bamboo palasiding for slope protection, plantation along the newly excavated areas etc	-	200	-	-	This work is being executed as Special R&M as proposed by APGCL and considered by the Hon'ble Commission in the APR of FY 2021-22 as part of the landslides related works. The work was also proposed in the CAPEX with funds proposed to be obtained from GOA as it was an emergency work and APGCL was not certain whether the same would be considered by the Hon'ble Commission or not. Thereafter, the Hon'ble Commission considered the work in the APR of FY 2021-22 and part expenditure of ₹ 3.92 Cr for landslides related works

		Approved by Commission	Revised Capital Expenditure		Remarks	
S. No	Approved Schemes	In Rs. Lakhs				
		FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25	
						was also approved as Special R&M in the True-up of FY 2021-22. Further, APGCL has not received any fund from GOA for this work.
27	Repairing and construction of new drain where required along the penstock pipelines etc	-	60	-	-	Dropped as the work is no more required
28	Water supply system for valve house, beautification valve house etc	-	15		15	Work will be executed on FY 2024-25
29	Cattle bridges, box culverts, retaining walls for hill slope protection at required locations etc	-	40	-	-	This work is being executed as Special R&M as proposed by APGCL and considered by the Hon'ble Commission in the APR of FY 2021-22 as part of the landslides related works. The work was also proposed in the CAPEX with funds proposed to be obtained from GOA as it was an emergency work and APGCL was not certain whether the same would be considered by the Hon'ble Commission or not. Thereafter, the Hon'ble Commission considered the work in the APR of FY 2021-22 and part expenditure of ₹ 3.92 Cr for landslides related works was also approved as Special R&M in the True-up of FY 2021-22. Further, APGCL has not received any fund from GOA for this work.
30	Construction of new watch tower at electromechanical store etc	-	10		10	Work will be executed on FY 2024-25
Total Amount (Rs. Lakhs)		1725	1155	611.9	1500	

8.5. Revised Capital Expenditure Plan of LRPP

8.5.1. The following Revised Capital Expenditure Plan is proposed for Lakwa Replacement Power Project for the Period 2023-24 to 2024-25.

Table 62: Revised CAPEX plan proposed of LRPP for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Approved Schemes	Approved by Commission	Revised Capital Expenditure		Remarks	
		In Rs. Lakhs				
		FY 24	FY 25	FY 24		FY 25
A	Electro-mechanical Work of LRPP					
1	Procurement of 11 KV and 3.3 KV VCB Breaker	25	-	-	-	Dropped due to fund constraint.
B	Civil Work of LRPP					
2	Deep tube well water supply system for to support the river water supply system at LTPS, Maibella. (Including boring, supplying and fitting of pump set up with all pipeline and fittings)	35	-	-	35	Deferred due to fund constraint.
3	Water supply pipeline and reservoir for the newly constructed multistorey building at LTPS.	-	20	-	-	Work completed in FY 2022-23.
4	Development and repairing of roads inside LTPS residential colony.	10	10	-	10	Deferred due to fund constraint.
Total Amount (Rs. Lakhs)		70	30	0	45	

9. Additional New Capital Expenditure Plan Proposed – Existing Projects

9.1. Procurement of Emergency Capital Spares – Existing Projects

9.1.1. In power generating stations, Maintenance and upgradation has paramount importance for several reasons. Firstly, it ensures optimal performance and efficiency of the machinery, preventing breakdowns and minimizing downtime. Secondly, it prolongs the lifespan of the equipment, reducing the need for costly replacements. Thirdly, it enhances safety, reducing the risk of accidents and ensuring a safe working environment. Lastly, regular maintenance ensures compliance with regulatory standards and can help in identifying potential issues before they escalate, allowing for timely intervention and problem resolution. Thus, maintenance and upgradation are critical aspect of operations in power generating stations.

9.1.2. Also, Spare parts availability is an important aspect of power plant operation and management. Spare parts are essential for maintaining the reliability and performance of the power plant equipment, as well as preventing costly downtime and emergency situations. Therefore, to maintain efficient running of power stations and to develop a strategic and effective spare parts management APGCL is proposing new proposals under CAPEX plan, that can balance low breakdown time with efficient running of power stations of APGCL and optimize the spare parts supply chain.

9.1.3. Plant-wise new capex proposals in this regard are thus presented subsequently for the consideration of the Hon'ble Commission.

9.2. New Capital Expenditure Plan proposed for LTPS

9.2.1. The following new Capital Expenditure Plan is proposed for Lakwa Thermal Power Station for the Period 2023-24 to 2024-25.

Table 63: New CAPEX plan proposed of LTPS for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
1	Procurement of upgraded lubricating system for gas compressors (Xperlube System)	-	125	<p>The present lube oil consumption for the Dresser Rand Gas Compressors, namely GC 6,7 and 8 LTPS is more than the OEM recommendation and is not efficient. Currently these Gas compressors have Point-to-Point lubrication system which consists of 12 nos. of Force Feed Lubricator Pumps. To overcome the above issues, APGCL has decided to replace the old lubrication system of these Gas Compressors with the New Generation Lubricating System (Xperlube) Lubrication system. The New Generation Lubricating System (Xperlube) is a more advanced and efficient solution for lubrication of gas compressors.</p> <p>This proposed work is approved in SOPD for FY 2023-24. Order issued. Work to be completed within FY 2024-25. As directed by the Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16.</p>
2	Revamping of Existing Natural Gas & water coolers of GC-6, 7, 8	100	200	<p>Currently, there are three Natural Gas and Water Coolers (Air-Cooled Heat Exchangers (ACHE) - Make Mannesmann, London) installed for three Dresser-Rand Gas Compressors in the Phase II powerhouse. However, due to aging, the ACHE's cooling efficiency has significantly decreased. Over</p>

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
				<p>10% of the tubes have already been plugged in due to leakage. As a result of the ACHE's poor performance, continuous water pouring is required on the finned surface, even at an ambient temperature of 27 °C. This continuous water pouring leads to the following issues:</p> <ol style="list-style-type: none"> 1. Accumulation of dust, dirt, and clay on the fins, which blocks the air path. 2. Rusting of steel parts. 3. Increased risk of the fan motors failing due to continuous water exposure. <p>To overcome the above issues, APGCL has decided to replace the old Air-Cooled Heat Exchangers (ACHE).</p> <p>Upgrading to a new Air-Cooled Heat Exchangers (ACHE) system is crucial to restore the cooling efficiency required for the gas compressors, ensuring optimal operational performance in the Phase II powerhouse. This replacement would mitigate the need for continuous water pouring, reducing the risk of tube blockages, rusting, and potential damage to the fan motor, thereby improving overall reliability.</p> <p>Approved in SOPD for FY 2023-24 for 1 GC. Rest 2 units are proposed in FY 2024-25. As directed by the Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16.</p>
3	Control & Instrumentation related capital spares	-	198.67	<p>To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed.</p> <p>As directed by the Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16</p>
4	Gas compressor #6,7, 8 & 9 related capital spares	-	473.05	
5	Starting Diesel Engine for GT 5, 6 & 7 related capital spares	-	34.19	
6	Instrument Air Compressor related capital spares	-	20.24	
7	High pressure BFP related capital spares	-	155.60	
8	Raw Water Pump related capital spares	-	5.37	
9	Intake Water Pump related capital spares	-	71.58	
Total Amount (Rs. Lakhs)		100	1283.7	

9.3. New Capital Expenditure Plan proposed for KLHEP

9.3.1. The following new Capital Expenditure Plan is proposed for Karbi Langpi Hydro Electric Project for the Period 2023-24 to 2024-25.

Table 64: New CAPEX plan proposed of KLHEP for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
1	Procurement of 3 Nos of Generator Transformers		1000	<p>The 7 nos of CGL make 21MVA Generator Transformers of KLHEP were manufactured in the year 1982 and commissioned in the year 2007. Due to sitting without charging for more than 22 years and continuously in service period for 16 Years, the service life of the transformer has been completed and condition of the Transformers has started to deteriorate. The tan-delta & other recommended tests conducted by MRT & CPRI for 21MVA Generator Transformer were not satisfactory due to ageing. Also, spares required for keeping these transformers in healthy condition are not available with the vendor due to upgradation and modernization in the OEM workshop thereby affecting the efficiency of power generation. Failure of any transformer will cause huge generation loss. So, for the smooth functioning, renovation & modernization, it is proposed to procure the 3 nos of Single phase 21 MVA 220KV/11KV Generator Transformers.</p> <p>As directed by Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16.</p>
2	Emergency Capital Spares		1000	<p>All the equipments of the units of 2X50 MW KLHEP were supplied during the year 1980. After in service for long time these components have now started to malfunction due to ageing. Also, most of the spares that were there during the commissioning stage either got consumed or are not good to use. Hence, it is very vital to keep these emergency spares handy for smooth operation of the machines and in the greater interest of APGCL as it will reduce the downtime of the machines as well as help in</p>

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
				maintaining reliability of the machines and optimum power generation from the plant. As such, the procurement of these emergency capital spares are proposed.
				As directed by Commission,, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16 .
Total Amount (Rs. Lakhs)		-	2000	

9.4. New Capital Expenditure Plan proposed for LRPP

9.4.1. The following new Capital Expenditure Plan is proposed for Lakwa Replacement Power Project for the Period 2023-24 to 2024-25.

Table 65: New CAPEX plan proposed of LRPP for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
1	Electrical related capital spares	-	65.95	To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed
2	Gas Engine related capital spares	-	443.37	
3	Capital spares Black Start Diesel Engine Generator	-	1.34	
4	Other capital mandatory spares	-	214.40	As directed by Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16 .
Total Amount (Rs. Lakhs)		-	725.07	

9.5. New Capital Expenditure Plan proposed for NRPP

9.5.1. The following new Capital Expenditure Plan is proposed for Namrup Replacement Power Project for the Period 2023-24 to 2024-25.

Table 66: New CAPEX plan proposed of NRPP for FY 2023-24 to FY 2024-25

Rs. Lakhs

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
1	55 MVA 230/11.5 kV Transformer related capital spares	-	13.83	<p>To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed.</p> <p>As directed by Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-16.</p>
2	15 MVA, 11/6.9kV Transformer related capital spares	-	4.89	
3	VCB and VCB panel related capital spares	-	16.58	
4	SF6 breaker related capital spares	-	22.72	
5	Control & Instrumentation related capital spares	-	6.22	
6	220V Battery Charger related capital spares	-	4.65	
7	11/0.370 KV, 500 KVA Dry Type Excitation Transformer related capital spares	-	11.98	
8	5 MVA, 33/6.6 KV, 3-phase, Oil Filled, ONAN, Outdoor type Auxiliary Power Transformer related capital spares	-	74.18	
9	Gas Turbine related capital spares	-	16.21	
10	Gas Booster Compressor related capital spares	-	30.47	
11	Condensate extraction pump related capital spares	-	6.20	
12	High pressure BFP related capital spares	-	2.63	
13	Instrument and plant air compressor related capital spares	-	10.46	
14	Horizontal Split Case Pump (Cooling Tower Make Up Pump 2) related capital spares	-	43.53	
15	STG AC/DC jack oil pump related capital spares	-	4.54	
16	CWP related capital spares	-	10.40	
17	CCW, CT makeup pump related capital spares	-	9.19	
18	Cooling Tower Gear Box related capital spares	-	0.66	
19	Cooling Tower related capital spares	-	0.38	

S. No	Schemes	New Capital Expenditure proposed		Remarks
		FY 2023-24	FY 2024-25	
20	Cooling Water Treatment Plant Pump related capital spares	-	0.42	
Total Amount (Rs. Lakhs)		-	290.14	

10. ERP implementation and Consultancy

10.1. Capital investment

10.1.1. Enterprise Resource Planning(ERP) Project is part of ADB Loan 4029, financed under Assam Power Sector Investment Program (APSIP) - Tranche 3.

10.1.2. Current Status of ERP implementation is shown in below table.

Package	Status
Lot 1: Supply, Configuration, Integration, Installation, Implementation & Support of ERP Application Software for APGCL	<ul style="list-style-type: none"> ✓ The work has been awarded to M/s Accenture Solutions Pvt. Ltd. ✓ Contract signed on 31st July 2019. ✓ Effective date of Contract: 24th September,2019. • ERP was declared Go-Live on 1st Dec'2022. Transactions started from 5th Dec'2022. • Presently, Project is in Application Maintenance Support(AMS) phase.
Lot 2: Managing and Hosting APGCL SAP ERP on Cloud	<ul style="list-style-type: none"> ✓ APGCL has awarded the contract to M/s CtrlS Datacentres Ltd., India. ✓ Contract Signed date: 18th January 2022. ✓ Effective date: 25th January 2022. • AMC started on 1st November 2022. At present the project is in AMC phase (Year-1 Qtr-4).
Lot 3: Supply, Installation, Commissioning and Warranty for desktop computers/ peripheral/ accessories/ local area networking equipment along with related systems software and cabling	<ul style="list-style-type: none"> • Contract awarded to M/s Interlace India Pvt. Ltd.. • Contract Signed on: 24th August 2022. • Effective date of Contract: 15th September 2022. • Contract Amendment Date: 29th September, 2022. • At present, acceptance testing work is ongoing.
Lot 4: Installation and establishing Network connectivity between Data Centre and APGCL Location	<ul style="list-style-type: none"> • Contract awarded to M/s Bharti Airtel Limited • Contract Signed on: 11th January 2023. • Effective date of Contract: 12th January 2023. • AMC of ERP Lot-4 started on 1st June 2023. At present AMC phase is ongoing (Year-1 Qtr-2).

10.1.3. The total financial impact is shown in the table below:

Table 67: Financial impact of ERP implementation and Consultancy

Rs. Cr

Particulars	Actual Expenditure		Revised Projection	
	FY 2022-23	FY 2023-24 H1	FY 2023-24 H2	FY 2024-25
	Equity	Grant	Grant	Grant
ERP Implementation	5.992	5.59	11.9	4.63
ERP Consultancy	0.25	0	0	0
Total	6.242	5.59	11.9	4.63

10.1.4. The financial impact of ERP implementation and consultancy services is shown in the table below.

Table 68: Revised financial impact of ERP implementation and Consultancy plant wise

Rs. Cr

Particulars	Approved By Commission		Revised Projection	
	FY 2023-24	FY 2024-25	FY 2023-24	FY 2024-25
	Grant	Grant	Grant	Grant
NTPS	0.62	0.63	2.48	0.65
LTPS	1.39	1.40	5.55	1.45
KLHEP	1.43	1.44	5.71	1.49
LRPP	0.94	1.01	3.75	1.04
NRPP	0	0	0	0
Total	4.38	4.48	17.49	4.63

10.1.5. The financial impact of ERP implementation and Asset valuation services are capitalized station wise in the FY 2023-24 and FY 2024-25 as shown above.

11. SUMMARY OF THE REVISED CAPITAL EXPENDITURE PLAN

11.1. Proposed Capex

11.1.1. As per the proposals given in the above sections for existing projects, total proposed year wise revised capital expenditure during the period from 2023-24 to 2024-25 of APGCL is as given below:

Table 69: Summary of revised capital expenditure plan for FY 2023-24 to FY 2024-25

Rs. Cr

	FY 2023-24 (in Crores)			FY 2024-25 (in Crores)		
Existing Projects	Equity	Loan	Grant	Equity	Loan	Grant
R&M Cost including Emergency Capital Spares – A						
NTPS		2.08			0.17	
LTPS		11.37			18.74	
KLHEP	0.25	5.87			35.00	
LRPP		0.00			7.70	
NRPP		0.00			2.90	
Sub Total – A	0.25	19.32			64.51	
ERP Implementation – B			17.49			4.63
Grand Total (A+B)	0.25	19.32	17.49		64.51	4.63

APPEAL FOR ANNUAL PERFORMANCE REVIEW FOR
FY 2023-24
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – ANNUAL PERFORMANCE REVIEW

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Annual Performance Review of the FY 2023-24.

AND

IN THE MATTER OF

Assam Power Generation Corporation Limited
Bijulee Bhawan, Paltanbazar,
Guwahati-781 001.

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER – ANNUAL PERFORMANCE REVIEW

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILING NO

CASE NO.....

IN THE MATTER OF:

Petition for Annual Performance Review of the FY 2023-24

AND IN THE MATTER OF:

Assam Power Generation Corporation Limited incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- i. That the Assam Power Generation Corporation Limited, hereinafter named as APGCL, is a successor corporate entity, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003(Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- ii. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- iii. That the APGCL submitted petitions for ARR and tariff for the FY 2023-24 to the AERC on 28/11/2022.
- iv. That the AERC declared tariff for FY 2023-24 on 29/03/2023 with effectuation date from 01/04/2023.
- v. That the licensee is filing the Petition for Annual Performance Review for FY 2023-24 as per relevant regulation.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

12. Present status of NTPS, LTPS, KLHEP, LRPP and NRPP

Table 70: Present Status of NTPS Units

Unit No.	Installed/Effective capacity (MW)	Present Status
2 (GT)	17	Under S/D by GTMD as flexible coupling found to be damage. Expected return is March'24
3 (GT)	15	Unit is available and generating power as per availability of gas and load demand
6 (WHRU with GTs 2 & 3)	9	
Total	41	

Table 71: Present Status of LTPS Units

Unit No.	Installed capacity (MW)	Present Status
5 (GT)	20	Units are available and generating power as per availability of gas and load demand
6 (GT)	20	
7 (GT)	20	Maintenance work is going on. Expected return date us 2 nd week of Dec'23.
8 (STG)	37.2	Unit is available and generating power as per availability of mother units
Total	97.20	

Table 72: Present Status of KLHEP Units

Unit No.	Installed Capacity (MW)	Present Status
1	50	Units are available and generating power as per availability of water and load demand
2	50	
Total	100	100

Table 73: Present Status of LRPP Unit

Unit No.	Installed Capacity (MW)	Present Status
1	9.965	All units are available and generating power as per availability of gas and load demand
2	9.965	
3	9.965	
4	9.965	
5	9.965	
6	9.965	
7	9.965	
Total	69.755	

Table 74: Present Status of NRPP Units

Unit No.	Installed Capacity (MW)	Present Status
1 (GT)	62.25	

Unit No.	Installed Capacity (MW)	Present Status
2 (STG)	36.15	All units are available and generating power as per availability of gas and load demand
Total	98.40	

13. Annual Performance Review of FY 2023-24

13.1. Regulatory provisions

13.1.1. The Hon'ble Commission in its regulation has stated the following on Annual Performance Review of various costs under the Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021. The same is reproduced below for ready reference:

"9 Annual Performance Review and True Up

9.1 Where the aggregate revenue requirement and expected revenue from tariff and charges of a Generating Company or Transmission Licensee or Distribution Licensee or SLDC is covered under a Multi-Year Tariff framework, then such Generating Company or Transmission Licensee or Distribution Licensee or SLDC, as the case may be, shall be subject to an annual performance review and true up during the Control Period in accordance with this Regulation.

9.2 The Generating company, Transmission Licensee, SLDC and the Distribution Licensee shall file an application for annual performance review of current year, true-up of previous year and tariff for the ensuing year not less than 120 days before the close of each year of the control period.

Provided that the Generating Company or Transmission Licensee or Distribution Licensee or SLDC, as the case may be, submit to the Commission information in such form as may be stipulated by the Commission, together with the Accounting Statements, extracts of books of account and such other details as the Commission may require to assess the reasons for and extent of any variation in financial performance from the approved forecast of Aggregate Revenue Requirement and actual revenue from tariff and charges.

9.3 The scope of the Annual Performance review and True up shall be a comparison of the actual performance of the Generating Company or Transmission Licensee or SLDC or Distribution Licensee with the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges and shall comprise the following:

a) True Up: a comparison of the audited performance of the applicant for the previous financial year with the approved forecast for that financial year and truing up of expenses and revenue in line with Regulation 10 of this regulation including pass through of gain/loss pertaining to controllable and uncontrollable items;

b) Annual Performance Review: a comparison of the performance targets estimated to be achieved for the current financial year (based on 6 months actual data) with the approved forecast for that financial year including adjusting trajectories of uncontrollable if needed.

c) Categorisation of variations in performance with reference to approved forecast into factors within the control of the applicant (controllable items) and those caused by factors beyond the control of the applicant (un-controllable items):

Provided such categorization of the controllable and uncontrollable items shall be done in accordance with Regulation 10 of this regulation.

....."

14. Norms of operations

14.1. Regulatory provisions

14.1.1. The Hon'ble Commission had set norms of operations under Regulation 47 of Tariff Regulations 2021.

14.1.2. The 6 months actual and 6 months estimated performance vis-a-vis norms of operations set is discussed below:

14.2. Installed and Effective Capacity in FY 2023-24

14.2.1. APGCL submits the following Installed & Effective Capacity for FY 2023-24

Table 75: Installed & Effective Capacity for FY 2023-24

Station	Installed Capacity (MW)	Revised Installed Capacity (MW)	No. of Units	Units Available for Generation & Capacity in MW	Effective Capacity
NTPS	119.5	41	3	GT U#2 (17MW), GT U#3 (15 MW) & WHRU U#6 (9 MW)	27.74
LTPS	142.2	97.20	4	5,6,7(20 MW Each),8 (37.20 MW-WHRU)	97.2
KLHEP	100	100	2	1 (50), 2(50)	100
LRPP	69.755	69.755	7	1-7 (9.965 each)	69.755
NRPP	98.40	98.40	2	1(62.25, 2(36.15)	98.40

14.3. Snapshot of plant wise performance for FY 2023-24

14.3.1. The following table shows the operating performance parameters of Namrup thermal power station for FY 2023-24.

Table 76: Operating Performance of NTPS for FY 2023-24

NTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Gross Energy in MU	179.58	77.49	60.74	138.23	138.23	Estimated based on 6 months actual
Aux. Power Cons. (%)	4.50%	8.49%	4.50%	4.50%	6.74%	It is expected that APGCL may lose 3.09 MU on net generation due to higher auxiliary consumption
Net Energy in MU	171.50	70.91	58.01	132.01	128.92	
Availability (%)	50.00%	66.44%	50.00%	50.00%	50.00%	Expected to achieve normative
PLF (%) for incentive	50.00%	60.95%	50.00%	50.00%	55.48%	Expected to achieve normative
Gross Station Heat Rate on	3900	4668.19	3900.00	4300 (OC) 3900 (CC)	3900.00	Claimed at normative for

NTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
GCV (kcal/kWh)						Combined Cycle operation

14.3.2. The following table shows the operating performance parameters of Lakwa thermal power station for FY 2023-24.

Table 77: Operating Performance of LTPS for FY 2023-24

LTPS + WHRU	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Gross Energy in MU	425.74	240.46	212.87	453.33	453.33	Estimated based on 6 months actual
Aux. Power Cons. (%)	5.50%	7.51%	5.50%	5.50%	6.57%	APGCL has loss 4.83 MU on net generation due to higher auxiliary consumption
Net Energy in MU	402.32	222.41	201.16	428.40	423.57	
Availability (%)	50.00%	61.45%	50.00%	50.00%	50.00%	Expected to achieve normative value
PLF (%) for incentive	66.00%	55.13%	66.00%	66.00%	60.57%	Expected to achieve lower than normative value
Gross Station Heat Rate on GCV (kcal/kWh)	3200	2535.57	3200	3200.00	3200	Claimed normative value

14.3.3. The following table shows the operating performance parameters of Karbi Langpi hydroelectric power station for FY 2023-24.

Table 78: Operating Performance of KLHEP for FY 2023-24

KLHEP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Gross Energy in MU	390.00	208.90	103.00	311.90	311.90	Estimated based on 6 months actual
Aux. Power Cons. (%)	0.50%	1.25%	0.50%	0.50%	0.5%	Expected to achieve auxiliary consumption within normative
Net Energy in MU	388.05	206.29	102.49	310.34	310.34	
Availability (%)	85.00%	63.69%	85.00%	85.00%	74.35%	Impact of ~17.37% in Availability due to Major

KLHEP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
						Overhauling of KLHEP U-2 as per scheduled and unscheduled works.
PLF (%)	44.50%	47.21%	44.50%	44.50%	45.85%	Expected to achieve normative value

14.3.4. The following table shows the operating performance parameters of LRPP power station for FY 2023-24.

Table 79: Operating Performance of LRPP for FY 2023-24

LRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Gross Energy in MU	519.40	250.24	259.70	509.94	509.94	Estimated based on 6 months actual
Aux. Power Cons. (%)	3.50%	3.25%	3.50%	3.50%	3.5%	Expected to achieve auxiliary consumption within normative
Net Energy in MU	501.22	242.09	250.61	492.09	492.09	
Availability (%)	85.00%	91.70%	85.00%	85%	85.00%	Expected to achieve normative value
PLF (%)	90.00%	81.89%	90.00%	90%	85.94%	Expected to achieve lower than normative value
Gross Station Heat Rate on GCV (kcal/kWh)	2150	2146	2150	2150	2150	Claimed normative value

14.3.5. The following table shows the operating performance parameters of NRPP power station for FY 2023-24.

Table 80: Operating Performance of NRPP for FY 2023-24

NRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Gross Energy in MU	732.69	304.24	231.76	536.00	536.00	Estimated based on 6 months actual

NRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Based on Normative	Claim for FY 2023-24	Remarks
Aux. Power Cons. (%)	5.00%	4.17%	5.00%	5.00%	5.0%	Expected to achieve auxiliary consumption within normative
Net Energy in MU	696.05	291.56	220.17	509.20	509.20	
Availability (%)	85.00%	71.72%	85.00%	85.00%	78.36%	Expected to achieve lower than normative
PLF (%)	85.00%	71.01%	85.00%	85.00%	78.01%	Expected to achieve lower than normative
Gross Station Heat Rate on GCV (kcal/ kWh)	1951	2403	1988	2927 (OC) 1951 (CC)	1988	Claimed value as was sought in Review Petition No. 05/2022 for Review of NRPP's Tariff Order dated March 21, 2022 regarding Tariff Order for FY 2021-22 and MYT Order for Control Period from FY 2022-23 to FY 2024-25

14.3.6. Further, it is to bring to the kind attention of the Hon'ble Commission that the Assam Power Generation Corporation Limited (APGCL) as a whole is facing frequent load restrictions imposed by the State Load Dispatch Centre (SLDC) from April 2023 onwards for the financial year 2023-24, which has brought the operation of the thermal power plants down to its technical minimum. This situation could potentially lead to significant financial losses for APGCL. APGCL thus humbly submits to the Hon'ble Commission to consider the loss at the time of True Up for FY2023-24 in fuel cost , if any.

14.4. Normative Annual Plant Availability Factor (NAPAF)

14.4.1. As per Regulation 48.1 of the MYT Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2023-24 for NTPS. It is expected that NTPS will achieve the normative plant availability factor based on 6 months actual number.

14.4.2. In view of the above, APGCL prays to the Hon'ble Commission to approve the revised estimated availability for FY 2023-24 as shown in the table below.

Table 81: Availability of NTPS for FY 2023-24

NTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Availability Factor (%)	50.00%	66.44%	50.00%	50.00%

14.4.3. As per Regulation 48.1 of the MYT Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2023-24 of LTPS. It is expected that LTPS will achieve the normative plant availability factor based on 6 months actual number.

14.4.4. The approved and estimated numbers are shown in the table below.

Table 82: Availability of LTPS for FY 2023-24

LTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Availability Factor (%)	50.00%	61.45%	50.00%	50.00%

14.4.5. Further, Regulation 50, of MYT Regulations, 2021 specifies normative PAF for KLHEP as 85% for FY 2023-24. It is expected that KLHEP will not be able to achieve the normative plant availability factor based on 6 months actual number.

14.4.6. With regards to above, it is brought to the kind attention of the Hon'ble Commission that due to Scheduled and Unscheduled works related to major overhauling of KLHEP Unit-2, (as already communicated to the Commission vide letter no. APGCL/CGM (G)/AERC/2022/115/Pt-XII/71 dated 06.11.2023 (**Annexuer-5**)), significant availability was impacted. The same is showcased below for kind reference and consideration of the Hon'ble Commission.

Table 83: Impact on Availability due to Scheduled and Unscheduled works related to Major Overhauling of KLHEP Unit-2

SI No	Particulars	Value
A	Plant affected due to Major Overhauling of KLHEP U-2 in FY 2023-24 as per OEM Schedule (Days)	51
B	Plant affected due to Major Overhauling of KLHEP U-2 in FY 2023-24 with unscheduled days (Days)	77
C	Declared Capacity (MW)	49
D	Normative Auxiliary Consumption %	0.50
E	Availability Loss due to Major Overhauling of KLHEP U-2 as per schedule $[A \times C \times 100 / (100 \times 365 \times (100 - 0.5))]$	6.92%
F	Availability Loss due to Major Overhauling of KLHEP U-2 for unscheduled works $[B \times C \times 100 / (100 \times 365 \times (100 - 0.5))]$	10.45%

14.4.7. The approved and estimated numbers are shown in the table below.

Table 84: Availability of KLHEP for FY 2023-24

KLHEP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Availability Factor (%)	85.00%	63.69%	85.00%	74.35%

14.4.8. With respect to above, the Hon'ble Commission is thus requested to allow full Fixed Cost recovery in FY 2023-24 for KLHEP.

14.4.9. The Hon'ble Commission had approved NAPAF of 85% for LRPP for FY 2023-24 in its order of March 2023. It is expected that LRPP will be able to achieve the normative plant availability factor based on 6 months actual number.

14.4.10. The approved and estimated numbers are shown in the table below.

Table 85: Availability of LRPP for FY 2023-24

LRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Availability Factor (%)	85.00%	91.70%	85.00%	85%

14.4.11. The Hon'ble Commission had approved NAPAF of 85% for NRPP for FY 2023-24 in its order of March 2023. It is expected that NRPP will not be able to achieve the normative plant availability factor based on 6 months actual number.

14.4.12. The approved and estimated numbers are shown in the table below.

Table 86: Availability of NRPP for FY 2023-24

NRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Availability Factor (%)	85.00%	71.72%	85.00%	78.36%

14.4.13. APGCL prays to Hon'ble Commission to kindly approve the estimated NAPAF for the plants shown above for recovery of fixed charges for FY 2023-24.

14.5. Normative Annual Plant Load Factor (NAPLF)

14.5.1. As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load factor for NTPS is 50% for FY 2023-24. The Hon'ble Commission had approved the same for NTPS in its order dated March 2023. It is expected that NTPS will be able to achieve the normative plant load factor based on 6 months actual number. The approved and estimated numbers are shown in the table below.

Table 87: Plant Load Factor of NTPS for FY 2023-24

NTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Load Factor (%)	50.00%	60.95%	50.00%	55.48%

14.5.2. As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load factor for LTPS is 66% for FY 2023-24. The Hon'ble Commission had approved the same of LTPS in its order dated March 2023. It is expected that LTPS will not be able to achieve the normative plant load factor based on 6 months actual number. The approved and estimated numbers are shown in the table below.

Table 88: Plant Load Factor of LTPS for FY 2023-24

LTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Load Factor (%)	66.00%	55.13%	66.00%	60.57%

14.5.3. As per Regulation 50.1 of the Tariff Regulations, 2021, normative PLF for KLHEP as 44.5%. The Hon'ble Commission had approved the same for FY 2023-24 in its order dated March 2023. It is expected that KLHEP will be able to achieve the normative plant load factor based on 6 months actual number. The approved and estimated numbers are shown in the table below.

Table 89: Plant Load Factor of KLHEP for FY 2023-24

KLHEP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Load Factor (%)	44.50%	47.21%	44.50%	44.50%

14.5.4. The Hon'ble Commission had approved 90% as PLF for incentive for LRPP for FY 2023-24 in its order dated March 2023. It is expected that LRPP will not be able to achieve the normative plant load factor based on 6 months actual number. The approved and estimated numbers are shown in the table below.

Table 90: Plant Load Factor of LRPP for FY 2023-24

LRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Load Factor (%)	90.00%	81.89%	90.00%	85.94%

14.5.5. As per regulation 48.2(b) of tariff regulation 2021, the normative plant load factor for incentive of gas based generating station is 85%. It is expected that NRPP will not be able to achieve normative PLF based on 6 months actual number. The approved and estimated numbers are shown in the table below.

Table 91: Plant Load Factor of NRPP for FY 2023-24

NRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Plant Load Factor (%)	85.00%	71.01%	85.00%	78.01%

14.6. Gross Station Heat Rate (SHR)

14.6.1. As per Regulation 48.4, of the Tariff Regulations, 2021 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2023-24 for NTPS in combined cycle mode of operation.

14.6.2. The approved and estimated numbers are shown in the table below.

Table 92: SHR of NTPS for FY 2023-24

NTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Station Heat Rate (kCal/kWh)	3900	4668	3900	3900

14.6.3. As per Regulation 48.4, of the Tariff Regulations, 2021 the Normative Station Heat Rate, is 3200 kCal/kWh for FY 2023-24 of LTPS in combined cycle mode of operation. APGCL has considered the SHR at actuals for the first 6 months and normative for rest of the year. The approved and estimated numbers are shown in the table below.

Table 93: SHR of LTPS for FY 2023-24

LTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Station Heat Rate (kCal/kWh)	3200	2536	3200	3200

14.6.4. The Hon'ble Commission had approved SHR of 2,150 kCal/kWh for LRPP for FY 2023-24 in its order dated March 2022. The approved and estimated numbers are shown below:

Table 94: SHR of LRPP for FY 2023-24

LRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Station Heat Rate (kCal/kWh)	2150	2146	2150	2150

14.6.5. SHR for NRPP: Since, NRPP was commissioned on 16th July 2021. Hence, as per Regulation 47.4 (ii) (b) of MYT Regulation 2018, the GSHR of new plants commissioned on or after 1st April 2019 for Gas-based plant

= "1.05 X Design Heat Rate of the unit/block for Natural Gas and RLNG (kCal/kWh

Where, the **Design Heat Rate of a unit shall mean the guaranteed heat rate for a unit at 100% MCR and at site ambient conditions....**

- ✓ The Guaranteed Heat Rate of NRPP at 98.4 MW combined cycle operation by OEM at NCV is 1705.8 kCal/kWh.
- ✓ The Guaranteed Heat Rate of NRPP at 98.4 MW combined cycle operation by OEM at GCV is (1705.8X1.11 KCal/kWh) = 1893.4 kCal/kWh
- ✓ As such combined cycle GSHR of NRPP as per Regulation= 1893.4X1.05 kCal/kWh=1988 kCal/kWh
- ✓ Further, the normative open cycle GSHR of NRPP is 2927 kCal/kWh

14.6.6. The normative and estimated numbers for NRPP are shown below:

Table 95: SHR of NRPP for FY 2023-24

NRPP	As per Regulation	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Station Heat Rate (kCal/kWh)	1988 (CC) 2927 (OC)	2403	1988	1988

14.6.7. APGCL prays Hon'ble Commission to kindly approve the normative SHR of 1988 Kcal/KWh for FY 2023-24 for NRPP.

14.7. Auxiliary Energy Consumption

14.7.1. As per Regulation 48.3 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption is 4.50% for FY 2023-24 for NTPS. We submit that the auxiliary consumption of NTPS is estimated to be higher than the approved auxiliary consumption in FY 2023-24 due to part loading of units and old nature of plant and machinery. The approved and estimated numbers are shown in the table below.

14.7.2. The approved and estimated numbers are shown in the table below.

Table 96: Auxiliary energy consumption of NTPS for FY 2023-24

NTPS	Approved as per Order of March 2022	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2022-23
Aux. consumption (%)	4.50%	8.49%	4.50%	6.74%

14.7.3. As per Regulation 48.3 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption, is 5.50% for FY 2023-24 of LTPS. The same has been approved by the Hon'ble Commission in its order dated March 2023. It is expected that LTPS will achieve the auxiliary consumption higher than normative value. The approved and estimated numbers are shown in the table below.

Table 97: Auxiliary energy consumption of LTPS for FY 2023-24

LTPS	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Aux. consumption (%)	5.50%	7.51%	5.50%	6.57%

14.7.4. As per Regulation 50.1 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption, is 0.50% for KLHEP. The same has been approved by the Hon'ble Commission in its order dated March 2023. The approved and claimed numbers are shown in the table below.

Table 98: Auxiliary energy consumption of KLHEP for FY 2023-24

KLHEP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Aux. consumption (%)	0.50%	1.25%	0.50%	0.50%

14.7.5. The Hon'ble Commission had approved Auxiliary Consumption of 3.5% for LRPP for FY 2023-24 in its order dated March 2023. It is expected that LRPP will achieve the auxiliary consumption lower than normative value. The approved and estimated numbers are shown in the table below:

Table 99: Auxiliary energy consumption of LRPP for FY 2023-24

LRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Aux. consumption (%)	3.50%	3.25%	3.50%	3.50%

14.7.6. The Hon'ble Commission had approved Auxiliary Consumption of 5% for NRPP for FY 2023-24 in its order dated March 2023. It is expected that NRPP will achieve the auxiliary consumption higher within normative value. The approved and estimated numbers are shown in the table below:

Table 100: Auxiliary energy consumption of NRPP for FY 2023-24

NRPP	Approved as per Order of March 2023	April - Sep (actual)	Oct - March (estimated)	Claim for FY 2023-24
Aux. consumption (%)	5%	4.17%	5%	5%

14.7.7. The performance parameter certificate showing plant wise availability, generation, auxiliary consumption etc. issued by SLDC is attached at **Annexure-17**.

15. Fixed Cost of the Plant

15.1. Annual fixed cost for FY 2023-24

15.1.1. The fixed cost of APGCL's power plants has been approved by AERC via order in case no. 16/2022 dated 29th March 2023 for NTPS, LTPS, KLHEP, LRPP and NRPP.

15.1.2. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital
- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

15.1.3. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

15.2. Return on Equity (ROE)

15.2.1. The Hon'ble Commission in its regulation 34 of Tariff Regulations 2021 has considered the pre-tax return on equity at 15.5% of equity capital.

15.2.2. The Petitioner has determined the Return on Equity (RoE) at a rate of 15.5% in accordance with the AERC Regulations, 2021. The Petitioner submits that there has been no addition in Equity in FY 2023-24 for NTPS, LTPS, LRPP and NRPP. For KLHEP, there has been some equity addition as claimed below.

15.2.3. The plant wise Return on Equity approved and claimed (at effective capacity for NTPS and LTPS) for FY 2023-24 has been shown in the table below:

Table 101: Computation of Plant wise Return in Equity for FY 2023-24

Rs. Cr

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
NTPS	Opening Equity	57.42	58.29
	Addition during year	0.00	0.00
	Closing Equity	57.42	58.29
	Rate of Return	15.50%	15.50%
	Return on Equity	8.90	9.04
	Return on Equity for Effective Capacity	3.05	2.10
LTPS	Opening Equity	148.69	150.64
	Addition during year	0.00	0.00
	Closing Equity	148.69	150.64

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
	Rate of Return	15.50%	15.50%
	Return on Equity	23.05	23.35
	Return on Equity for Effective Capacity	15.75	15.96
KLHEP	Opening Equity	154.42	156.43
	Addition during year	0.00	0.25
	Closing Equity	154.42	156.68
	Rate of Return	15.50%	15.50%
	Return on Equity	23.94	24.27
LRPP	Opening Equity	80.63	82.03
	Addition during year	0.00	0.00
	Closing Equity	80.63	82.03
	Rate of Return	15.50%	15.50%
	Return on Equity	12.50	12.71
NRPP	Opening Equity	218.69	218.69
	Addition during year	0.00	0.00
	Closing Equity	218.69	218.69
	Rate of Return	15.50%	15.50%
	Return on Equity	33.90	33.90

15.2.4. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Return on Equity as shown above.

15.3. Interest on Loan Capital

15.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

15.3.2. In view of the above, the Petitioner has computed the Interest on long term Loan on normative basis for FY 2023-24. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2023-24. The interest rate has been considered as the expected weighted average rate of interest for FY 2023-24.

15.3.3. The finance charges are shown separately plant wise for FY 2023-24. The table below summarizes the interest on loan and finance charges considered (at effective capacity for NTPS and LTPS) for Annual Performance Review of FY 2023-24.

Table 102: Computation of Plant wise Interest and finance charges for FY 2023-24

Rs. Cr

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
NTPS	Net Normative Opening Loan	0.84	1.04
	Addition of normative loan during the year	0.94	4.56
	Normative Repayment during the year	1.43	2.19
	Net Normative Closing Loan	0.35	3.41
	Avg. Normative Loan	0.60	2.22
	Interest Rate	11.64%	10.35%
	Interest on Loan Capital	0.07	0.23
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	0.07	0.23
	Net Interest on Loan Capital for Effective Capacity	0.02	0.05
LTPS	Net Normative Opening Loan	0	5.32
	Addition of normative loan during the year	12.31	16.92
	Normative Repayment during the year	19.64	14.72
	Net Normative Closing Loan	0.00	7.53
	Avg. Normative Loan	0.00	6.42
	Interest Rate	11.64%	10.35%
	Interest on Loan Capital	0.00	0.66
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	0.00	0.66
	Net Interest on Loan Capital for Effective Capacity	0.00	0.45
KLHEP	Net Normative Opening Loan	113.94	107.60
	Addition of normative loan during the year	17.25	11.58
	Normative Repayment during the year	23.79	22.48
	Net Normative Closing Loan	107.40	96.69
	Avg. Normative Loan	110.67	102.14
	Interest Rate	11.64%	10.35%
	Interest on Loan Capital	12.88	10.57
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	12.87	10.57
	Net Normative Opening Loan	24.28	18.80
	Addition of normative loan during the year	0.7	3.75
	Normative Repayment during the year	2.67	13.79
	Net Normative Closing Loan	22.31	8.76

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
LRPP	Avg. Normative Loan	23.30	13.78
	Interest Rate	11.64%	10.35%
	Interest on Loan Capital	2.71	1.43
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	2.71	1.43
NRPP	Net Normative Opening Loan	454.03	449.56
	Addition of normative loan during the year	0.00	0.00
	Normative Repayment during the year	37.50	42.08
	Net Normative Closing Loan	416.53	407.48
	Avg. Normative Loan	435.28	428.52
	Interest Rate	11.64%	10.35%
	Interest on Loan Capital	50.67	44.34
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	50.67	44.34

15.3.4. APGCL submits that the loan details and interest rates applicable for the first 6 months on PFC loans is submitted as part of **Annexure-18** of this document.

15.3.5. APGCL further submits that the document specifying the interest rates applicable on Assam govt. loans @ 10% is attached at **Annexure-19** of this document.

15.3.6. APGCL prays to the Hon'ble Commission to kindly approve the Total interest and finance charges as shown above.

15.4. Depreciation

15.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has provided the principles for determination of depreciation.

15.4.2. In view of the above, the Petitioner has computed the Depreciation considering Capital Cost of the asset admitted by the Commission with 10% salvage value. The table below summarizes the plant wise Depreciation considered for Annual Performance Review of FY 2023-24.

Table 103: Depreciation of FY NTPS for 2023-24

Rs. Cr

Particulars	FY 2023-24
Opening GFA	193.98
Addition during the year	4.56
Closing	198.54
Average GFA	196.26
Rate of Depreciation	1.11%
Total Depreciation	2.19
Grant	0.00
Additions during the year	0.00

Particulars	FY 2023-24
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	1.11%
Depreciation on grants	0.00
Net Depreciation	2.19

Table 104: Depreciation of LTPS for FY 2023-24

Rs. Cr

Particulars	FY 2023-24
Opening GFA	522.67
Addition during the year	16.92
Closing	539.59
Average GFA	531.13
Rate of Depreciation	2.77%
Total Depreciation	14.72
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	2.77%
Depreciation on grants	0.00
Net Depreciation	14.72

Table 105: Depreciation of KLHEP for FY 2023-24

Rs. Cr

Particulars	FY 2023-24
Opening GFA	511.49
Addition during the year	11.83
Closing	523.32
Average GFA	517.40
Rate of Depreciation	4.35%
Total Depreciation	22.48
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	4.35%
Depreciation on grants	0.00
Net Depreciation	22.48

Table 106: Depreciation of LRPP for FY 2023-24

Rs. Cr

Particulars	FY 2023-24
Opening GFA	273.22

Addition during the year	3.75
Closing	276.97
Average GFA	275.09
Rate of Depreciation	5.01%
Total Depreciation	13.79
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	5.01%
Depreciation on grants	0.00
Net Depreciation	13.79

Table 107: Depreciation of NRPP for FY 2023-24

Rs. Cr

Particulars	FY 2023-24
Opening GFA	729.09
Addition during the year	0.00
Closing	729.09
Average GFA	729.09
Rate of Depreciation	5.77%
Total Depreciation	42.08
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	5.77%
Depreciation on grants	0.00
Net Depreciation	42.08

Table 108: Summary of Depreciation claimed for FY 2023-24

Rs. Cr

Station	Particulars	Approved as per Order of March 2023	Estimation for FY 2023-24
NTPS	Depreciation	1.45	2.19
	Less: Depreciation on assets funded by Grants	0.02	0.00
	Net Depreciation	1.43	2.19
	Net Depreciation for Effective Capacity	0.49	
LTPS	Depreciation	20.22	14.72
	Less: Depreciation on assets funded by Grants	0.58	0.00
	Net Depreciation	19.64	14.72

Station	Particulars	Approved as per Order of March 2023	Estimation for FY 2023-24
	Net Depreciation for Effective Capacity	13.42	
KLHEP	Depreciation	24.36	22.48
	Less: Depreciation on assets funded by Grants	0.57	0.00
	Net Depreciation	23.79	22.48
LRPP	Depreciation	13.75	13.79
	Less: Depreciation on assets funded by Grants	11.08	0.00
	Net Depreciation	2.67	13.79
NRPP	Depreciation	37.5	42.08
	Less: Depreciation on assets funded by Grants	0	0.00
	Net Depreciation	37.50	42.08

15.4.3. Further, APGCL humbly submits that entire depreciation claimed in True Up is at par with the depreciation charged in the Annual Accounts and any depreciation on decommissioned / retired units does not form part of the depreciation charged in the Annual Accounts. Hence, the depreciation claimed is already at the effective capacity and further reduction of depreciation citing effective capacity is not justifiable. We humbly pray to the Hon'ble Commission to consider the same while approving APR claim for depreciation and allow full recovery of the depreciation charged after reduction of depreciation on grants only and not further reduce the depreciation citing effective capacity.

15.4.4. GoA vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.

15.4.5. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Depreciation for FY 2023-24 as shown above.

15.5. Interest on Working Capital

15.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

15.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

Table 109: Summary of Interest on working capital claimed for FY 2023-24

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
NTPS	Fuel Cost for one month	3.83	6.88
	O&M Expenses for one month	4.86	1.28
	Maintenance Spares-30% of O&M	17.48	4.61
	Receivables for two months	18.96	16.87
	Total Working Capital Requirement	45.13	29.65
	Rate of interest	10.58%	11.53%
	Interest on Working capital	4.77	3.42
	Interest on Working capital on effective Capacity	1.64	
LTPS	Fuel Cost for one month	9.21	24.85
	O&M Expenses for one month	5.55	4.12
	Maintenance Spares-30% of O&M	19.97	14.84
	Receivables for two months	37.77	70.49
	Total Working Capital Requirement	72.50	114.30
	Rate of interest	10.58%	11.53%
	Interest on Working capital	7.67	13.17
	Interest on Working capital on effective Capacity	5.24	
KLHEP	O&M Expenses for one month	2.96	3.04
	Maintenance Spares-30% of O&M	5.33	10.93
	Receivables for two months	14.45	18.49
	Total Working Capital Requirement	22.74	32.46
	Rate of interest	10.58%	11.53%
	Interest on Working capital	2.41	3.74
LRPP	Fuel Cost for one month	10.02	22.95
	O&M Expenses for one month	2.68	2.68
	Maintenance Spares-30% of O&M	9.66	9.66
	Receivables for two months	30.90	63.37

Station	Particulars	Approved as per order of March 2023	Claim for FY 2023-24
	Total Working Capital Requirement	53.26	98.66
	Rate of interest	10.58%	11.53%
	Interest on Working capital	5.63	11.37
NRPP	Fuel Cost for one month	7.82	13.60
	O&M Expenses for one month	2.03	3.69
	Maintenance Spares-30% of O&M	7.30	13.28
	Receivables for two months	41.06	57.27
	Total Working Capital Requirement	58.21	87.85
	Rate of interest	10.58%	11.53%
	Interest on Working capital	6.16	10.12

15.5.3. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Interest on Working capital for FY 2023-24 as shown above.

15.6. Operation and Maintenance Expenses (O&M Expenses)

15.6.1. As per Regulation 51 of the Tariff Regulations, 2021, Operation and Maintenance expenses will be considered on normative basis.

15.6.2. With respect to Tariff Order dated March 2023, wherein as per Para 5.11.5, the Hon'ble Commission had escalated approved True Up figures of FY 2021-22 to arrive at normative figures for APR of FY 2022-23 by escalation factor of 6.3% as considered by the Hon'ble Commission. In line with above, the Petitioner for APR of FY 2023-24, has claimed normative figures which have been arrived at by escalating the True Up claimed figures of FY 2022-23 by 6.3% escalation factor as determined by the Hon'ble Commission. With respect to NRPP, as already mentioned in True Up petition of FY 2022-23, O&M expenses of Rs 41.66 Cr (at actuals excluding Spl. R&M) was claimed in True Up for FY 2022-23 which has been escalated by 6.3% in line with above submission to arrive at claimed figure for APR of FY 2023-24.

15.6.3. APGCL humbly prays to the hon'ble commission to kindly approve the O&M expenses for FY 2023-24 as shown in the table below.

Rs. Cr

Table 110: Revised O&M Cost for FY 2023-24

Station	Approved in order of March 2023	Approved O&M Cost at effective Capacity	Revised normative O&M Cost at Installed Capacity	Amount Claim at the actual effective capacity for FY 2023-24
NTPS	58.28	20.00	66.27	15.38
LTPS	66.57	45.50	72.39	49.48
KLHEP	35.54	35.54	36.44	36.44
LRPP	32.19	32.19	32.18	32.19
NRPP	24.34	24.34	44.28	44.28
Total	216.92	157.57	251.56	177.77

15.7. Impact of AERC (Payment of Fees etc.) Regulation, 2020

15.7.1. The Hon'ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

15.7.2. The tentative impact of the increase in the filing fees has been shown below:

Rs. Cr

Table 111: Impact of increase in AERC Fees claimed for FY 2023-24

Station	Approved in Tariff Order dated March 2023	Actual claim for FY 2023-24
NTPS	0.10	0.10
LTPS	0.10	0.10
KLHEP	0.0	0.0
LRPP	0.10	0.10
NRPP	0.0	0.00
Total	0.30	0.30

15.8. Incentives

15.8.1. Incentives will be claimed during True-up of FY 2023-24.

15.9. Special R&M

15.9.1. The Hon'ble Commission in its order dated 29th March 2023 had approved Special R&M for NTPS, LTPS, KLHEP and LRPP. The status of the approved and actual special R&M being conducted in FY 2023-24 has been shown in the table below:

Rs. Lakhs

Work Name	Approved as per Tariff Order March 2023	Claim in FY 2023-24	Remarks
For NTPS			
Procurement of Overseas spares for major overhauling of 2 nos. W301 Gas Turbine unit proposed to be carried out in 2023-24 used in GT #2 & #3	0	167.5	Amount was approved by Commission in FY 2022-23. Delay is due to long procurement lead time. Work is under process.
Procurement of spares for major overhauling of	90	90	PO to be placed shortly. Delay is due to extension in tendering process.

Work Name	Approved as per Tariff Order March 2023	Claim in FY 2023-24	Remarks
WHT#6 proposed to be carried out in 2023-24			
Overhauling of Gas turbine Unit 2 (Execution Part) excluding procurement of spares	80	0	Tender is under process. Execution delayed due to delay in procurement of spares
For LTPS			
Overhauling of LTPS Unit - 7 in FY 2020-21		1402	Rs 15 Cr was approved in FY 2022-23. Rs 0.98 Cr has been claimed in FY 2022-23 and balance Rs 14.02 Cr is being claimed in FY 2023-24
Major Inspection works of Gas Turbine unit # 5	145	145	Tender under process
Overhauling of Generator and Exciter of GT unit # 5	100	100	Tender under process
Procurement of spares for Major inspection of Gas Turbine unit # 5.	2360	2360	Tender under process
For KLHEP			
Capital Overhauling of 50MW Francis type Fuji make Generator Turbine Unit-II – KLHEP	0	396	The work was proposed in two FYs. Procurement of spares was proposed in one FY and execution of the work was proposed in the other FY. Accordingly, work was approved in the FY 2020-21 for ₹ 15.10 Cr for procurement of spares and in the FY 2022-23 for ₹ 12.00 Cr for execution of the work. Major Overhauling of Unit-2 was delayed due to a delay in the execution of Major Overhauling of Unit-1 of KLHEP (due to Covid-19 outbreak) and the issue of replacement of the runner of Unit-2. Major Overhauling Work of Unit-2 started on 13.01.2023 and completed on 05.08.2023
	0	1200	
Additional Capital Investment for Renovation work of damaged assets due to Landslide for KLHEP Plant		325	An amount of Rs. 12 crore was approved for FY 2021-22 in the tariff order dated 21st March 2022. The landslide related works of KLHEP is ongoing from FY 2021-22. The Hon'ble Commission has already approved ₹ 3.92 Cr for part completion of this work in the True-up of FY 2021-22 as Special R&M. For True-Up of FY 2022-

Work Name	Approved as per Tariff Order March 2023	Claim in FY 2023-24	Remarks
			23, APGCL is claiming ₹ 4.83 Cr and balance amount is claimed for FY 2023-24 (also to be claimed for FY 2023-24 in the next True-up)
For LRPP			
Overhauling of Gas Engine units and Turbocharger of LRPP		2382	Rs 32.72 Cr in total was approved in FY 2022-23 as per Tariff Order dated March 2023. Rs 8.9 Cr already claimed in True Up for FY 2022-23 and balance amount is claimed in FY 2023-24
48,000 Running Hours Turbocharger Maintenance	777	777	PO has been issued to Wartsilla on 17.08.2023. Expected time of completion is March'24
Procurement of Special measuring instruments for Electrical Maintenance Works	160	160	Tender already floated.
For NRPP			
Special R&M for Combustion Inspection of the GT Unit of NRPP	0	574	<p>The work is already complete in FY 2022-23.</p> <p>APGCL proposed the work in the Tariff Petition for FY 2022-23 and APR for FY 2022-23. Hon'ble Commission in the The APR Order for FY 2022-23 directed APGCL to submit detailed DPR for the work. APGCL submitted the same in the Review Petition and the Hon'ble Commission in the Review Order dated 25/07/2023 stated that the Commission shall consider this expense during the True-up of FY 2022-23 based on actual expenditure and submissions to be made by APGCL in the separate Petition.</p> <p>Out of total expense, Rs 12.76 Cr is claimed in True Up of FY 2022-23 and remaining Rs 5.74 Cr will be claimed in True Up of FY 2023-24 (and accordingly claimed in APR)</p> <p>As such, in line with directions of the Commission, APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached at Annexure-14.</p>

Table 112: Plant wise Special R&M for FY 2023-24

Rs. Cr

Station	Approved as per order of March 2023	Amount claimed for APR
NTPS	0	2.58
LTPS	26.05	40.07
KLHEP	0	19.21
LRPP	9.37	33.19
NRPP	0	5.74
Total	35.42	100.79

15.9.2. APGCL prays to the Hon'ble Commission to kindly approve the revised estimated Special R&M activities as mentioned above for FY 2023-24.

15.10. Non-Tariff Income

15.10.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

15.10.2. The Non-tariff income has been estimated at normatively approved numbers by Hon'ble Commission in its order dated March 2022. The same will be claimed at actuals during truing up for FY 2023-24.

15.10.3. The details of non-tariff income for FY 2023-24 are shown in the table below:

Table 113: Station-wise details of non-tariff income for FY 2023-24

Rs. Cr

Station	Approved as per order of March 2022	Claim for FY 2023-24
NTPS	7.13	7.13
LTPS	9.22	9.22
KLHEP	5.75	5.75
LRPP	0.00	0.00
NRPP	0.00	0.00
Total	22.09	22.09

15.10.4. APGCL prays to the Hon'ble Commission to kindly approve the plant wise Non-tariff income for FY 2023-24 as shown above.

16. Energy Charges

16.1. Fuel Price and Calorific Value

16.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The actual values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below:

Table 114: Actual Plant wise GCV and Price for FY 2023-24

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs. /1000 SCM)	Wt. Avg. Price of Gas (Rs. /1000 SCM)	Wt. Avg. Price of Gas (Rs. /1000 SCM)
		April – Sept (Actual)	Oct -March (Estimated)	
NTPS	9251.70	14496.79	13838.27	14167.53
LTPS	9854.15	20527.80	19982.85	20255.32
LRPP	9246.32	23586.66	22872.58	23229.62
NRPP	9251.70	14496.79	13838.27	14167.53

16.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the Price of Gas and GCV for NTPS, LTPS, LRPP and NRPP for FY 2023-24 as shown in the table above.

16.2. Fuel cost

16.2.1. The Commission, in the Tariff Orders dated March 2023 had approved the Fuel Cost for FY 2023-24 for NTPS, LTPS, LRPP and NRPP. The table below shows the plant wise approved fuel cost, the actual total fuel cost incurred and the fuel cost on normative parameters for FY 2023-24. The average price of fuel and GSHR for April to September has been considered for the month of October – March.

Table 115: Fuel cost of NTPS for FY 2023-24

Particulars	Unit	Approved as per order of March 2023	April - Sep (actual)	Oct -March (estimated)	FY 2023-24 (Claim)
Gross Generation	MU	179.58	77.49	60.74	138.23
Heat Rate	kcal/kWh	3900	4668.19	3900.00	3900.00
GCV of gas	kcal/SCM	9251.93	9251.70	9251.70	9251.70
Overall Heat	G. cal.	700362	361732.58	236889.82	539096.26
Gas consumption	M. SCM	75.70	39.10	25.61	58.27
Price of Gas	Rs. /1000 SCM	6072.89	14496.79	13838.27	14167.53
Total cost of Gas	Rs. Crore	45.97	56.68	35.43	82.55

Table 116: Fuel cost of LTPS for FY 2023-24

Particulars	Unit	Approved as per order of March 2023	April - Sep (actual)	Oct -March (estimated)	FY 2023-24 (Claim)
Gross Generation	MU	425.74	240.46	212.87	453.33
Heat Rate	kcal/kWh	3200	2535.57	3200.00	3200.00
GCV of gas	kcal/SCM	9959.34	9854.15	9854.15	9854.15

Overall Heat	G. cal.	1362368	609706.25	681177.60	1450652.80
Gas consumption	M. SCM	136.79	61.87	69.13	147.21
Price of Gas	Rs. /1000 SCM	8078.42	20527.80	19982.85	20255.32
Total cost of Gas	Rs. Crore	110.51	127.01	138.13	298.18

Table 117: Fuel cost of LRPP for FY 2023-24

Particulars	Unit	Approved as per order of March 2023	April - Sep (actual)	Oct -March (estimated)	FY 2023-24 (Claim)
Gross Generation	MU	519.40	250.24	259.70	509.94
Heat Rate	kcal/kWh	2150	2146.40	2150.00	2150.00
GCV of gas	kcal/SCM	9235.46	9246.32	9246.32	9246.32
Overall Heat	G. cal.	1116710	537110.97	558350.41	1096362.97
Gas consumption	M. SCM	120.92	58.09	60.39	118.57
Price of Gas	Rs./1000 SCM	9944.57	23586.66	22872.58	23229.62
Total cost of Gas	Rs. Crore	120.25	137.01	138.12	275.44

Table 118: Fuel cost of NRPP for FY 2023-24

Particulars	Unit	Approved as per order of March 2023	April - Sep (actual)	Oct -March (estimated)	FY 2023-24 (Claim)
Gross Generation	MU	732.69	304.24	231.76	536.00
Heat Rate	kcal/kWh	1951	2403.33	1988.00	1988.00
GCV of gas	kcal/SCM	9251.93	9251.70	9251.70	9251.70
Overall Heat	G. cal.	1429478.19	731195.00	460732.42	1065566.21
Gas consumption	M. SCM	154.51	79.03	49.80	115.18
Price of Gas	Rs./1000 SCM	6072.89	14496.79	13838.27	14167.53
Total cost of Gas	Rs. Crore	93.83	114.57	68.91	163.17

16.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the estimated Fuel cost Price for NTPS, LTPS, LRPP and NRPP for FY 2023-24 as shown in the table above.

17. Summary of submissions for Annual Performance Review of FY 2023-24

17.1. Net Annual Revenue Requirement

17.1.1. The plant wise Net Annual Revenue Requirements for FY 2023-24 are as shown in the tables below.

Table 119: Net Annual Revenue Requirements of NTPS for FY 2023-24

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	179.58	138.23
	Net Generation	171.50	128.92

Rs. Cr

Sl. No	Particulars	Approved	Claim for FY 2023-24
	Auxiliary Consumption, Loss %	4.50%	6.74%
I	Fixed Charges		
	Operation & Maintenance Expenditure	20.00	15.38
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	0.02	0.05
	Interest on working Capital	1.64	3.42
	Depreciation	0.49	2.19
	Return on Equity	3.05	2.10
	Income taxes	0	0
	Special R&M	0.00	2.58
	Capacity Building	0.00	0.00
	<u>Less: Other Income</u>	-7.13	-7.13
II	Total Fixed Charges	18.17	18.68
III	Fuel Cost	45.97	82.55
IV	Total Revenue Requirement	64.14	101.24
VII	Total Cost	64.14	101.24
VIII	Revenue from Sale of Power	64.14	85.15
IX	Revenue Gap (+) / Surplus (-)	0.00	16.09

Table 120: Net Annual Revenue Requirements of LTPS for FY 2023-24

Rs. Cr

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	425.74	453.33
	Net Generation	402.32	423.57
	Auxiliary Consumption, Loss %	5.50%	6.57%
I	Fixed Charges		
	Operation & Maintenance Expenditure	45.50	49.48
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	0.00	0.45
	Interest on working Capital	5.24	13.17
	Depreciation	13.42	14.72
	Return on Equity	15.75	15.96
	Income taxes	0	0
	Special R&M	26.05	40.07
	Capacity Building	0.00	0.00
	<u>Less: Other Income</u>	-9.22	-9.22
II	Total Fixed Charges	96.86	124.74

Sl. No	Particulars	Approved	Claim for FY 2023-24
III	Fuel Cost	110.51	298.18
IV	Total Revenue Requirement	207.4	422.92
VII	Total Cost	207.36	422.92
VIII	Revenue from Sale of Power	207.36	291.66
IX	Revenue Gap (+) / Surplus(-)	0.00	131.26

Table 121: Net Annual Revenue Requirements of KLHEP for FY 2023-24

Rs. Cr

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	390.00	311.90
	Net Generation	388.05	310.34
	Auxiliary Consumption, Loss %	0.50%	0.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	35.54	36.44
	Increase in AERC Tariff Filing Fees	0	0.00
	Interest & Finance Charges	12.87	10.57
	Interest on working Capital	2.41	3.74
	Depreciation	23.79	22.48
	Return on Equity	23.94	24.27
	Income taxes	0	0
	Special R&M	0.00	19.21
	Capacity Building	0.00	0.00
	Less: Other Income	-5.75	-5.75
II	Total Fixed Charges	92.81	110.96
III	Fuel Cost		
IV	Total Revenue Requirement	92.81	110.96
VII	Total Cost	92.81	110.96
VIII	Revenue from Sale of Power	92.81	72.51
IX	Revenue Gap (+) / Surplus (-)	0.00	38.45

Table 122: Net Annual Revenue Requirements of LRPP for FY 2023-24

Rs. Cr

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	519.40	509.94
	Net Generation	501.22	492.09
	Auxiliary Consumption, Loss %	3.50%	3.50%

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	Fixed Charges		
	Operation & Maintenance Expenditure	32.19	32.19
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	2.71	1.43
	Interest on working Capital	5.63	11.37
	Depreciation	2.67	13.79
	Return on Equity	12.50	12.71
	Income taxes	0	0
	Special R&M	9.37	33.19
	Capacity Building	0.00	0.00
	<u>Less:</u> Other Income	0.00	0.00
II	Total Fixed Charges	65.18	104.78
III	Fuel Cost	120.25	275.44
IV	Total Revenue Requirement	185.43	380.22
VII	Total Cost	185.43	380.22
VIII	Revenue from Sale of Power	185.43	262.57
IX	Revenue Gap (+) / Surplus (-)	0.00	117.65

Table 123: Net Annual Revenue Requirements of NRPP for FY 2023-24

Rs. Cr

Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	732.69	536.00
	Net Generation	696.05	509.20
	Auxiliary Consumption, Loss %	5.0%	5.0%
I	Fixed Charges		
	Operation & Maintenance Expenditure	24.34	44.28
	Increase in AERC Tariff Filing Fees	0	0.00
	Interest & Finance Charges	50.67	44.34
	Interest on working Capital	6.16	10.12
	Depreciation	37.50	42.08
	Return on Equity	33.90	33.90
	Income taxes	0	0
	Special R&M	0.00	5.74
	Capacity Building	0.00	0.00
	<u>Less:</u> Other Income	0.00	0.00
II	Total Fixed Charges	152.55	180.46
III	Fuel Cost	93.83	163.17
IV	Total Revenue Requirement	246.37	343.64

Sl. No	Particulars	Approved	Claim for FY 2023-24
VII	Total Cost	246.37	343.64
VIII	Revenue from Sale of Power	246.37	285.16
IX	Revenue Gap (+) / Surplus (-)	0.00	58.48

17.2. Summary

17.2.1. The summary of the APR for FY 2023-24 For APGCL is as shown below.

Table 124: APR of APGCL as whole for FY 2023-24

Rs. Cr			
Sl. No	Particulars	Approved	Claim for FY 2023-24
I	POWER GENERATION (MU)		
	Gross Generation	2247.41	1949.39
	Net Generation	2159.14	1864.11
	Auxiliary Consumption, Loss %	3.9%	4.4%
I	Fixed Charges		
	Operation & Maintenance Expenditure	157.57	177.77
	Increase in AERC Tariff Filing Fees	0.30	0.30
	Interest & Finance Charges	66.27	56.84
	Interest on working Capital	21.08	41.83
	Depreciation	77.88	95.26
	Return on Equity	89.14	88.94
	Income taxes	0.00	0.00
	Special R&M	35.42	100.79
	Capacity Building	0.00	0.00
	Less: Other Income	-22.09	-22.09
II	Total Fixed Charges	425.58	539.64
III	Fuel Cost	370.55	819.35
IV	Total Revenue Requirement	796.13	1358.99
VII	Total Cost	796.13	1358.99
VIII	Revenue from Sale of Power	796.13	997.06
IX	Revenue Gap (+) / Surplus (-)	0.00	361.94

Table 125: Net Annual Revenue Requirements of APGCL for FY 2023-24

Rs. Cr		
Particulars	Approved as per order of March 2023	Amount estimated for Annual Performance Review
Total Fixed Charges	425.58	539.64
Fuel Cost	370.55	819.35
Total Revenue Requirement	796.13	1358.99

- 17.2.2. We submit that since the figures for the FY 2023-24 are estimated and are subject to True-up, APGCL has not considered gap in the tariff for FY 2023-24. The same shall be considered at the time of True-up petition of FY 2023-24.
- 17.2.3. The Petitioner prays to the Hon'ble Commission to approve the plant wise Net Annual Revenue Requirement and for APGCL as a whole for FY 2023-24 as discussed in the tables above.

APPEAL FOR AGGREGATE REVENUE REQUIREMENT FOR FY
2024-25 for NTPS
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – NTPS

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for Revised Aggregate Revenue Requirement for the FY 2024-25.

AND

Petition for Determination of Tariff for the FY 2024-25

AND

IN THE MATTER OF

Namrup Thermal Power Station,
Assam Power Generation Corporation Limited,
Namrup-786622

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

Place: Guwahati

Date: 23/11/2023

PRAYER – NTPS

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILINGNO

CASENO.....

IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement for the FY 2024-25 and Determination of Tariff for the FY 2024-25

AND IN THE MATTER OF:

Namrup Thermal Power Station (hereinafter referred to as "NTPS") of Assam Power Generation Corporation Limited (hereinafter referred to as "APGCL") incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

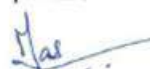
THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the APGCL is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003(Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- III. That the NTPS, with its first of the six units commissioned in April'1965 and the last of the six units commissioned in March'1985, is an operating gas based thermal Power Station under the APGCL in the district of Dibrugarh, Assam.
- IV. That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 on 18th September, 2021.
- V. That as per the Hon'ble Commission's this new MYT Regulations of 2021 the licensee is filing for approval of the for Revised Aggregate Revenue Requirement of NTPS for the FY 2024-25 and Determination of Tariff for the FY 2024-25.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

18. Revised ARR of NTPS for FY 2024-25

18.1. Regulatory provisions for Revised ARR

18.1.1. The Hon'ble Commission in its Tariff regulations, 2021 has stated the following on Revised ARR for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"4 Multi-Year Tariff Framework

4.1 The Commission shall determine the tariff for matters covered under Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2022.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of

Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Companies, Transmission Licensee, SLDC, Distribution Wheeling Business and Retail Supply Business:

- (i) Before commencement of Control Period, a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission.*
- (ii) A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval.*
- (iii) The applicant shall submit operating norms and trajectories of performance parameters for each year of the Control Period, for the Commission's approval.*
- (iv) The applicant shall submit the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for Generating Companies, SLDC, Transmission Licensee, Distribution Wheeling Business and Retail Supply Business, for each year of the Control Period.*
- (v) In its tariff petition, a generating company shall submit information to support the determination of tariff for each generating station"*

5 Control Period and Baseline

5.1 The first Control Period under these Regulations shall be of three financial years from April 1st, 2022 to March 31st, 2025 and for every block of three years thereafter or such other period as may be decided by the Commission.

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may determine the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

5.2 The Commission shall determine baseline values for various financial and operational parameters of ARR for the Control Period taking into consideration the figures approved by the Commission in the past, actual average figures of last three years, audited accounts, estimate of the figures for the relevant year, Industry benchmarks/norms and other factors considered appropriate by the Commission. Provided that in case of substantial difference between the estimates earlier provided considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year suo-moto or on an application filed by the Applicant.

19. Norms of operations

19.1. Regulatory provisions

19.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021.

19.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

19.2. Installed and Effective Capacity in FY 2024-25

19.2.1. APGCL submits the following Installed and Effective Capacity for FY 2024-25.

Table 126: Installed & Effective Capacity of NTPS for FY 2024-25

Station	Installed Capacity (MW)	Revised Installed Capacity (MW)	Units Available for Tariff in MW	Effective Capacity (In MW)
NTPS	119.5	41	GT U # 2 (17MW), and WHRU U # 6 (9 MW)	26

19.2.2. APGCL submits that GT U#3 (15 MW) of NTPS is proposed to be operated for the purpose of merchant sale of power in FY 2024-25.

19.3. Snapshot of performance projection for FY 2024-25

19.3.1. The Commission in its order dated 21st March 2022 had approved the NAPAF of NTPS at 50% for FY 2024-25.

19.3.2. The following table shows the projection of performance parameters of gas based Namrup thermal power station for FY 2024-25.

Table 127: Projected Operating Performance of NTPS for FY 2024-25

NTPS	FY 2024-25 Approved	FY 2024-25 Revised Projection
Gross Energy in MU	195.09	113.88
Aux. Power Cons. (%)	4.50%	4.5%
Net Energy in MU	186.31	108.76
Plant Availability Factor (%)	50.00%	50%
Plant Load Factor (%)	50.00%	50%
Gross Station Heat Rate on GCV (kcal / kWh)	4300 (OC) 3900 (CC)	3900

19.4. Normative Annual Plant Availability Factor (NAPAF)

19.4.1. As per Regulation 48.1 of the Tariff Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2024-25 for NTPS. The approved and projected numbers are shown in the table below.

Table 128: Projected Availability of NTPS for FY 2024-25

NTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Plant Availability Factor (%)	50%	50%

19.5. Normative Annual Plant Load Factor (NAPLF)

19.5.1. As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load factor is 50% for FY 2024-25 for NTPS. The approved and projected numbers are shown in the table below.

Table 129: Projected PLF of NTPS for FY 2024-25

NTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Plant Load Factor (%)	50%	50%

19.6. Gross Station Heat Rate (SHR)

19.6.1. As per Regulation 48.4, of the Tariff Regulations, 2021 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2024-25 for NTPS in combined cycle mode of operation.

19.6.2. The approved and projected numbers are shown in the table below.

Table 130: Projected SHR of NTPS for FY 2024-25

NTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Gross Station Heat Rate on GCV (kcal/ kWh)	4300 (OC) 3900 (CC)	3900

19.7. Auxiliary Energy Consumption

19.7.1. As per Regulation 48.3 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption is 4.50% for FY 2024-25 for NTPS. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 131: Projected Auxiliary energy consumption of NTPS for FY 2024-25

NTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Auxiliary Power Consumption (%)	4.50%	4.50%

19.7.2. APGCL prays to the Hon'ble Commission to kindly approve the projection of performance parameters as shown above.

20. Fixed Cost of the Plant

20.1. Annual fixed cost for FY 2024-25

20.1.1. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital
- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

33.1.2 For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

20.2. Return on Equity (ROE)

20.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital. The Regulation 34 of the Tariff Regulations, 2021 is reproduced below for reference.

"34 Return on Equity Capital

34.1 Return on equity capital shall be computed on the equity capital determined in accordance with Regulation 32

.....

20.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2021. The Petitioner submits that there is no plan of addition in Equity in FY 2024-25 for the existing plants. The petitioner has claimed RoE at effective capacity. Further, it is submitted that the actual tax paid would be claimed separately during True up of respective years.

Table 132: Projected Return on Equity capital of NTPS for FY 2024-25

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
NTPS	Opening Equity	55.00	58.29
	Addition during Year	0.00	0.00

Rs. Cr



	Closing Equity	55.00	58.29
	Rate of Return	15.50%	15.50%
	Return on Equity	8.53	9.04
	Return on Equity at Effective Capacity	3.11	1.97

20.2.3. APGCL prays to the Hon'ble Commission to kindly approve the projected Return on Equity as shown above.

20.3. Interest on Loan Capital

20.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

20.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY 2024-25. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2024-25. The interest rate has been considered as the weighted average rate of interest for FY 2024-25.

20.3.3. The finance charges are shown separately for FY 2024-25. The table below summarizes the interest on loan and finance charges considered for FY 2024-25 at effective capacity.

Table 133: Projected Interest and Finance charges of NTPS for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
NTPS	Net Normative Opening Loan	0.00	3.41
	Addition of normative loan during the year	0.44	0.82
	Normative Repayment during the year	1.30	2.21
	Net Normative Closing Loan	0.00	2.02
	Avg. Normative Loan	0.00	2.71
	Interest Rate	10.79%	10.31%
	Interest on Loan Capital	0.00	0.280
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	0.00	0.28
	Net Interest on Loan Capital at effective capacity	0.00	0.06

20.3.4. APGCL prays to the Hon'ble Commission to kindly approve the projected total interest and finance charges as shown above.

20.4. Depreciation

20.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered following principals for determination of depreciation.

"33 Depreciation

33.1 The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission.

Provided that depreciation shall not be allowed on assets funded through Consumer contribution and Capital Subsidies/Grants.

33.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

....."

20.4.2. In view of the above, the Petitioner has computed the Depreciation considering the Capital Cost of the asset admitted by the Commission and projected asset addition with 10% salvage value. The table below summarizes the Depreciation projected for FY 2024-25.

Table 134: Projected Depreciation of NTPS for FY 2024-25

Rs. Cr

Particulars	FY 2024-25
	Revised Projection
Opening GFA	198.54
Addition during the year	0.82
Closing GFA	199.36
Average GFA	198.95
Rate of Depreciation	1.11%
Total Depreciation	2.21
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	1.11%
Depreciation on grants	0.00
Net Depreciation	2.21

Table 135: Summary of projected Depreciation of NTPS for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
NTPS	Depreciation	1.4	2.21

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
	Less: Depreciation on assets funded by Grants	0.1	0.00
	Net Depreciation	1.30	2.21
	Net Depreciation at effective capacity	0.47	

20.4.3. GoA vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.

20.4.4. APGCL pray to the Hon'ble Commission to kindly approve the projected Depreciation for FY 2023-24 as shown above.

20.5. Interest on Working Capital

20.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

20.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

20.5.3. The interest on working capital considered is shown in the table below:

Table 136: Summary of Interest on working capital of NTPS for FY 2024-25

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
NTPS	Fuel Cost for one month	3.78	5.54
	O&M Expenses for one month	3.90	1.28
	Maintenance Spares-30% of O&M	14.04	4.60
	Receivables for two months	16.59	13.91
	Total Working Capital Requirement	38.31	25.33
	Rate of interest	10.00%	11.53%
	interest on Working capital	3.83	2.92
	interest on Working capital at effective capacity	1.39	

Rs. Cr

20.5.4. APGCL prays to the Hon'ble Commission to kindly approve the interest on Working capital for FY 2024-25 as shown above.

20.6. Operation and Maintenance Expenses

20.6.1. The operation and maintenance expense are to be projected as per Regulation 51.1 of the Tariff Regulations, 2021.

20.6.2. As per Para 7.8.2 of Tariff Order dated 29th March 2023, wherein for revised ARR, the Hon'ble Commission had escalated admitted O&M figure in APR for FY 2022-23 for arriving at normative O&M figure for revised ARR for FY 2023-24 by 6.31%; in line with MYT Regulations, 2021. APGCL also has claimed revised ARR figure of FY 2024-25 by escalating claimed O&M figure in APR petition of FY 2023-24 by 6.31% and accordingly calculating same at effective capacity.

Table 137: Revised O&M cost of NTPS for FY 2024-25

Rs. Cr

Station	Approved in MYT order of March 2022	Approved O&M Cost at effective capacity	O&M considered for APR of FY 2023-24 at Full Capacity	O&M calculated for Revised ARR of FY 2024-25 at Full Capacity	Claimed at effective capacity
A	B	C	D	E = D *(1+6.31%)	F
NTPS	46.79	17.03	66.27	70.45	15.33

20.6.3. APGCL prays to the Hon'ble Commission to kindly approve the O&M expenses for FY 2024-25 as shown above on effective capacity.

20.7. Impact of AERC (Payment of Fees etc.) Regulation, 2020

20.7.1. The Hon'ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

20.7.2. The tentative impact of the increase in the filing fees has been shown below:

Table 138: Impact of increase in AERC Fees projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	
	Approved	Revised Projection
NTPS	0.10	0.10

20.8. Non-Tariff income

20.8.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

20.8.2. The non-tariff income for FY 2024-25 has been projected same as approved by Hon'ble Commission in its order dated 21st March 2022. The same is as shown in the table below:

Table 139: Station-wise non-tariff income projected for FY 2024-25

Rs. Cr

Station	FY 2024-25 Approved	FY 2024-25 Revised Projection
NTPS	7.13	7.13

20.8.3. APGCL prays to the Hon'ble Commission to kindly approve the non-tariff income for FY 2024-25 as shown above.

21. Energy Charges

21.1. Fuel Price and Calorific Value

21.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below:

Table 140: Projected GCV and Price for FY 2024-25

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs./1000 SCM)
NTPS	9251.70	13838.27

21.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Price of Gas and GCV for NTPS for FY 2024-25 as shown in the table above.

21.2. Fuel cost

21.2.1. The Hon'ble Commission, in the Tariff Order dated 21st March 2022 had approved the Fuel Cost for FY 2024-25. The table below shows the revised projected fuel cost for FY 2024-25.

Table 141: Fuel cost of NTPS for FY 2024-25

Particulars	Derivation	Unit	FY 2024-25	FY 2024-25
			Approved	Revised Projection
Gross Generation	A	MU	195.09	113.88
Heat Rate	B	kcal/kWh	3900	3900.00
GCV of gas	C	kcal/SCM	9204.8	9251.70
Overall Heat	D=AxB	G. cal.	760856.22	444132.00
Gas consumption	E=D/C	M. SCM	82.66	48.01
Price of Gas	F	Rs./1000 SCM	5617.39	13838.27
Total cost of Gas	G=ExF/10000	Rs. Crore	46.43	66.43

21.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Fuel cost Price of NTPS for FY 2024-25 as shown in the table above.

21.3. Incentives

21.3.1. APGCL submits that the Incentives for FY 2024-25 will be claimed in True-up as per Regulations.

22. Other expenses

22.1. Capacity building

22.1.1. The Hon'ble Commission had not approved any amount for the Capacity Building expenditure for FY2024-25 of NTPS in its order dated 21st March 2022.

22.1.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 142: Expenses under capacity building

Rs. Cr

Plant Name	FY 2023-24	FY 2023-24
	Approved	Revised Projection
NTPS	0.0	0.0

22.2. Special R&M

22.2.1. APGCL's plans to undertake Special R&M for the following units, cost of which will be claimed as shown below.

Table 143: Expenses under Special R&M

Rs. Lakhs

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
NTPS	80	160

Sl. No.	Work Name	Approved (Rs. Lakhs)	Claim for FY 2024-25 (Rs. Lakhs)	Remarks
1	Overhauling of Steam Turbine Unit 6 (Execution Part) excluding procurement of spares.		80	Rs 0.8 Cr approved in FY 2023-24 Execution delayed due to delay in procurement of spares. Tender is under process.
2	Overhauling of Gas turbine Unit 2 (Execution Part) excluding procurement of spares.	80	80	Same

23. Summary of submissions for Revised ARR of FY 2024-25

23.1. Summary

23.1.1. The Summary of the Revised ARR of NTPS for FY 2024-25 is shown below.

Table 144: Revised ARR of NTPS for FY 2024-25

Sl. No	Particulars	FY 2024-25	
		Approved	Revised Projection
I	POWER GENERATION (MU)		
	Gross Generation	195.09	113.88
	Net Generation	186.31	108.76
	Auxiliary Consumption Loss %	4.50%	4.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	17.03	15.33
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	0.00	0.06
	Interest on working Capital	1.39	2.92
	Depreciation	0.47	2.21
	Return on Equity	3.11	1.97
	Income taxes	0	0
	Special R&M	0.8	1.6
	Capacity Building	0	0
	<u>Less: Other Income</u>	-7.13	-7.13
II	Total Fixed Charges	15.78	17.06
III	Fuel Cost	46.43	66.43
IV	Total Revenue Requirement	62.21	83.49

23.2. Net Annual Revenue Requirement

23.2.1. The Net Annual Revenue Requirements for FY 2024-25 are as shown in the tables below.

Table 145: Net Annual Revenue Requirements of NTPS for FY 2024-25

Particulars	FY 2024-25	
	Approved	Revised Projection
Total Fixed Charges (Rs. Crore)	15.78	17.06
Fuel Cost (Rs. Crore)	46.43	66.43
Total Revenue Requirement (Rs. Crore)	62.21	83.49
Total Per unit cost (Rs/ KWh)	3.34	7.68

23.3. Tariff of NTPS for FY 2024-25

23.3.1. The tariff proposed of NTPS for FY 2024-25 is as shown below.

Table 146: Tariff proposed of NTPS for FY 2024-25

Particulars	NTPS
Annual fixed charges (Rs crore)	17.06
Monthly fixed charges (Rs crore)	1.42
Energy charge rate (Rs. / kWh)	6.11

23.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2024-25 as discussed in the tables above.

APPEAL FOR AGGREGATE REVENUE REQUIREMENT FOR FY
2024-25 for LTPS
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – LTPS

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for Revised Aggregate Revenue Requirement for the FY 2024-25

AND

Petition for Determination of Tariff for the FY 2024-25

AND

IN THE MATTER OF

Lakwa Thermal Power Station,
Assam Power Generation Corporation Limited,
Maibella, Charaideo,
Saffry-785689

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali,
Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the
petitioner in the above matter and am duly authorized by the said Petitioner to make this
affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and
I believe them to reflect truly and no material has been concealed from the statements so
made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2022 that the contents of this affidavit are
true to my knowledge, no part of it is false or no material has been concealed therefore and
misleading material included therein.

Deponent

Place: Guwahati

Date: 23/11/2023



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER – LTPS

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILING NO

CASE NO

IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement for the FY 2024-25 and Determination of Tariff for the FY 2024-25

AND IN THE MATTER OF:

Lakwa Thermal Power Station (hereinafter referred to as "LTPS") of Assam Power Generation Corporation Limited (hereinafter referred to as "APGCL") incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the APGCL is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003 (Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- III. That the LTPS, with its first of the eight units commissioned on 26/04/1981 and the last of the eight units commissioned on 17/01/2012, is an operating gas based thermal Power Station under the APGCL in the district of Charaideo (earlier Sivsagar), Assam.
- IV. That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 on 18th September, 2021.
- V. That as per the Hon'ble Commission's this new MYT Regulations of 2021 the licensee is filing for approval of the for Revised Aggregate Revenue Requirement of LTPS for the FY 2024-25 and Determination of Tariff for the FY 2024-25.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ),
Assam Power Generation Corporation Ltd.

24. Revised ARR of LTPS for FY 2024-25

24.1. Regulatory provisions for Revised ARR

24.1.1. The Hon'ble Commission in its Tariff regulations, 2021 has stated the following on Revised ARR for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"4 Multi-Year Tariff Framework

4.1 The Commission shall determine the tariff for matters covered under Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2022.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of

Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Companies, Transmission Licensee, SLDC, Distribution Wheeling Business and Retail Supply Business:

- (vi) Before commencement of Control Period, a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission.*
- (vii) A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval.*
- (viii) The applicant shall submit operating norms and trajectories of performance parameters for each year of the Control Period, for the Commission's approval.*
- (ix) The applicant shall submit the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for Generating Companies, SLDC, Transmission Licensee, Distribution Wheeling Business and Retail Supply Business, for each year of the Control Period.*
- (x) In its tariff petition, a generating company shall submit information to support the determination of tariff for each generating station"*

5 Control Period and Baseline

5.1 The first Control Period under these Regulations shall be of three financial years from April 1st, 2022 to March 31st, 2025 and for every block of three years thereafter or such other period as may be decided by the Commission.

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may determine the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

5.2 The Commission shall determine baseline values for various financial and operational parameters of ARR for the Control Period taking into consideration the figures approved by the Commission in the past, actual average figures of last three years, audited accounts, estimate of the figures for the relevant year, Industry benchmarks/norms and other factors considered appropriate by the Commission. Provided that in case of substantial difference between the estimates earlier provided considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year suo-moto or on an application filed by the Applicant.

25. Norms of operations

25.1. Regulatory provisions

25.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021.

25.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

25.2. Installed and Effective Capacity in FY 2024-25

25.2.1. APGCL submits the following Installed and Effective Capacity for FY 2024-25.

Table 147 : Installed & Effective Capacity of LTPS for FY 2024-25

Station	Installed Capacity (MW)	Revised Installed Capacity	Units Available for Generation & Capacity in MW	Effective Capacity
LTPS	142.2	97.20	5,6,7(20 MW Each),8 (37.20 MW-WHRU)	97.2 MW

25.3. Snapshot of performance projection for FY 2024-25

25.3.1. The following table shows the projection of performance parameters of gas based Lakwa thermal power station for FY 2024-25.

Table 148: Projected Operating Performance of LTPS for FY 2024-25

LTPS	FY 2024-25 Approved	FY 2024-25 Projected
Gross Energy in MU	425.74	425.74
Aux. Power Cons. (%)	5.50%	5.5%
Net Energy in MU	402.32	402.32
Plant Availability Factor (%)	50.00%	50.0%
Plant Load Factor (%)	66.00%	66.0%
Gross Station Heat Rate on GCV (kcal / kWh)	3900 (OC) 3200 (CC)	3200.00

25.4. Normative Annual Plant Availability Factor (NAPAF)

25.4.1. As per Regulation 48.1 of the Tariff Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2024-25 for LTPS. The approved and projected numbers are shown in the table below.

Table 149: Projected Availability of LTPS for FY 2024-25

LTPS	FY 2024-25 Approved	FY 2024-25 Revised Projection
Plant Availability Factor (%)	50%	50%

25.5. Normative Annual Plant Load Factor (NAPLF)

25.5.1. As per Regulation 48.2 of the Tariff Regulations, 2021 the Normative Plant Load factor is 66% for FY 2024-25 for LTPS. The approved and projected numbers are shown in the table below.

Table 150: Projected PLF of LTPS for FY 2024-25

LTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Plant Load Factor (%)	66%	66%

25.6. Gross Station Heat Rate (SHR)

25.6.1. As per Regulation 48.4, of the Tariff Regulations, 2021 the Normative Station Heat Rate, is 3200 kCal/kWh for FY 2024-25 for LTPS in combined cycle mode of operation.

25.6.2. The approved and projected numbers are shown in the table below.

Table 151: Projected SHR of LTPS for FY 2024-25

LTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Gross Station Heat Rate on GCV (kcal/ kWh)	3200	3200

25.7. Auxiliary Energy Consumption

25.7.1. As per Regulation 48.3 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption is 5.50% for FY 2024-25 for LTPS. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 152: Projected Auxiliary energy consumption of LTPS for FY 2024-25

LTPS	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Auxiliary Power Consumption (%)	5.50%	5.50%

25.7.2. APGCL prays to the Hon'ble Commission to kindly approve the projection of performance parameters as shown above.

26. Fixed Cost of the Plant

26.1. Annual fixed cost for FY 2024-25

26.1.1. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital
- (c) Depreciation

(d) Operation and Maintenance Expenses

(e) Interest on Working Capital

(f) Less: Non-Tariff Income

26.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

26.2. Return on Equity (ROE)

26.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital. The Regulation 34 of the Tariff Regulations, 2021 is reproduced below for reference.

"34 Return on Equity Capital

34.1 Return on equity capital shall be computed on the equity capital determined in accordance with Regulation 32

....."

26.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2021. The Petitioner submits that there is no plan of addition in Equity in FY 2024-25 for the existing plants. The petitioner has claimed RoE at effective capacity. Further, it is submitted that the actual tax paid would be claimed separately during True up of respective years.

Table 153: Projected Return on Equity capital for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LTPS	Opening Equity	143.08	150.64
	Addition during the year	0	0.00
	Closing Equity	143.08	150.64
	Rate of Return	15.50%	15.50%
	Return on Equity	22.18	23.35
	Return on Equity on effective capacity	15.16	15.96

26.2.3. APGCL prays to the Hon'ble Commission to kindly approve the projected Return on Equity as shown above.

26.3. Interest on Loan Capital

26.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

26.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY 2024-25. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2024-25. The interest rate has been considered as the weighted average rate of interest for FY 2024-25.

26.3.3. The finance charges are shown separately for FY 2024-25. The table below summarizes the interest on loan and finance charges considered for FY 2024-25 at effective capacity.

Table 154: Projected Interest and Finance charges for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
LTPS	Net Normative Opening Loan	0	7.53
	Addition of normative loan during the year	5.88	20.19
	Normative Repayment during the year	14.93	15.25
	Net Normative Closing Loan	0.00	12.46
	Avg. Normative Loan	0.00	9.99
	Interest Rate	10.79%	10.31%
	Interest on Loan Capital	0.00	1.03
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	0.00	1.03
	Net Interest on Loan Capital on effective capacity	0.00	0.70

26.3.4. APGCL prays to the Hon'ble Commission to kindly approve the projected total interest and finance charges as shown above.

26.4. Depreciation

26.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered following principals for determination of depreciation.

"33 Depreciation

33.1 The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission.

Provided that depreciation shall not be allowed on assets funded through Consumer contribution and Capital Subsidies/Grants.

33.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

....."

26.4.2. In view of the above, the Petitioner has computed the Depreciation considering the Capital Cost of the asset admitted by the Commission and projected asset addition with 10% salvage value. The table below summarizes the Depreciation projected for FY 2024-25.

Table 155: Projected Depreciation of LTPS for FY 2024-25

Rs. Cr

Particulars	FY 2024-25
	Revised Projection
Opening GFA	539.59
Addition during the year	20.19
Closing GFA	559.78
Average GFA	549.69
Rate of Depreciation	2.77%
Total Depreciation	15.25
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	2.77%
Depreciation on grants	0.00
Net Depreciation	15.25

Table 156: Summary of projected Depreciation for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LTPS	Depreciation	17.09	15.25
	Less: Depreciation on assets funded by Grants	2.15	0.00
	Net Depreciation	14.93	15.25
	Net Depreciation at effective capacity	10.21	

26.4.3. GoA vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.

26.4.4. APGCL pray to the Hon'ble Commission to kindly approve the projected Depreciation for FY 2024-25 as shown above.

26.5. Interest on Working Capital

26.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

26.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

26.5.3. The interest on working capital considered is shown in the table below:

Table 157: Summary of Interest on working capital projected for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LTPS	Fuel Cost for one month	9.64	23.02
	O&M Expenses for one month	3.96	4.38
	Maintenance Spares-30% of O&M	14.25	15.78
	Receivables for two months	37.29	65.87
	Total Working Capital Requirement	65.14	109.06
	Rate of interest	10.00%	11.53%
	interest on Working capital	6.51	12.57
	interest on Working capital at effective capacity	4.45	

26.5.4. APGCL prays to the Hon'ble Commission to kindly approve the interest on Working capital for FY 2024-25 as shown above.

26.6. Operation and Maintenance Expenses (O&M Expenses)

26.6.1. The operation and maintenance expense are to be projected as per Regulation 51.1 of the Tariff Regulations, 2021.

26.6.2. As per Para 7.8.2 of Tariff Order dated 29th March 2023, wherein for revised ARR, the Hon'ble Commission had escalated admitted O&M figure in APR for FY 2022-23 for arriving at normative O&M figure for revised ARR for FY 2023-24 by 6.31%; in line with MYT Regulations, 2021. APGCL also has claimed revised ARR figure of FY 2024-25 by escalating claimed O&M figure in APR petition of FY 2023-24 by 6.31% and accordingly calculating same at effective capacity.

Table 158: Revised O&M cost for FY 2024-25

Rs. Cr

Station	Approved in MYT order of March 2022	Approved O&M Cost at effective capacity	O&M considered for APR of FY 2023-24 at Full Capacity	O&M calculated for Revised ARR of FY 2024-25 at Full Capacity	Claimed at effective capacity
A	B	C	D	E = D *(1+6.31%)	F
LTPS	47.50	32.47	72.39	76.95	52.60

26.6.3. APGCL prays to the Hon'ble Commission to kindly approve the O&M expenses for FY 2024-25 as shown above on effective capacity.

26.7. Impact of AERC (Payment of Fees etc.) Regulation, 2020

26.7.1. The Hon'ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

26.7.2. The tentative impact of the increase in the filing fees has been shown below:

Table 159: Impact of increase in AERC Fees projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	
	Approved	Revised Projection
LTPS	0.10	0.10

26.8. Non-Tariff income

26.8.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

26.8.2. The non-tariff income for FY 2024-25 has been projected same as approved by Hon'ble Commission in its order dated 21st March 2022. The same is as shown in the table below:

Table 160: Station-wise non-tariff income projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	FY 2024-25
---------	------------	------------

	Approved	Revised Projection
LTPS	9.22	9.22

26.8.3.APGCL prays to the Hon'ble Commission to kindly approve the non-tariff income for FY 2024-25 as shown above.

27. Energy Charges

27.1. Fuel Price and Calorific Value

27.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below.

Table 161: Projected GCV and Price for FY 2024-25

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs./1000 SCM)
LTPS	9854.15	19982.90

27.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Price of Gas and GCV for LTPS for FY 2024-25 as shown in the table above.

27.2. Fuel cost

27.2.1. The Hon'ble Commission, in the Tariff Order dated 21st March 2022 had approved the Fuel Cost for FY 2024-25. The table below shows the revised projected fuel cost for FY 2024-25.

Table 162: Fuel cost of LTPS for FY 2024-25

Particulars	Derivation	Unit	FY 2024-25 Approved	FY 2024-25 Revised Projection
Gross Generation	A	MU	425.74	425.74
Heat Rate	B	kcal/kWh	3200	3200.00
GCV of gas	C	kcal/SCM	9337.66	9854.15
Overall Heat	D= A x B	G. cal.	1362355.20	1362355.20
Gas consumption	E=D/C	M. SCM	145.9	138.25
Price of Gas	F	Rs./1000 SCM	7932.73	19982.90
Total cost of Gas	G= E x F/10000	Rs. Crore	115.74	276.27

27.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Fuel cost Price for LTPS for FY 2024-25 as shown in the table above.

27.3. Incentives

27.3.1. APGCL submits that the Incentives for FY 2024-25 will be claimed in True-up as per Regulations.

28. Other expenses

28.1. Capacity building

28.1.1. The Hon'ble Commission had not approved any amount for the Capacity Building expenditure for FY 2024-25 for LTPS in its order dated 21st March 2022.

28.1.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 163: Expenses under capacity building

Rs. Cr

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LTPS	0.0	0.0

28.2. Special R&M

28.2.1. APGCL's plans to undertake Special R&M for the following units, cost of which will be claimed as shown below.

Table 164: Expenses under Special R&M

Rs. Lakhs

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LTPS	2600	3100

Sl. No.	Work Name	Approved (Rs. Lakhs)	Claim for FY 2024-25 (Rs. Lakhs)	Remarks
1	Procurement of spares for Major inspection of Gas Turbine unit # 6	2600	2600	Same
2	Overhauling of LTPS Gas Compressor U#7		500	Spares procured in part. APGCL submitted for approval of the work through additional submission for the MYT Petition for FY 2022-25, Review Petition for the same and in the Tariff Petition for FY 2023-24. The Hon'ble Commission stated in the APR Order for FY 2022-23 that it would take a decision on final approval of this work during the

Sl. No.	Work Name	Approved (Rs. Lakhs)	Claim for FY 2024-25 (Rs. Lakhs)	Remarks
				true-up. As the work was of important nature APGCL has already procured part spares by arranging fund of ₹ 3.5 Cr. APGCL still needs to procure some additional spares for the work and execute the service part with an estimated amount of ₹ 1.50 Cr. APGCL is submitting for appraisal of the work in the ARR for FY 2024-25 for an amount of ₹ 5.00 Cr for the whole work and will submit the details of the actual expenditure at the time of True-up after completion of the work as stated by the Hon'ble Commission in the Tariff Order of FY 2023-24.

29. Summary of submissions for Revised ARR of FY 2024-25

29.1. Summary

29.1.1. The Summary of the Revised ARR for FY 2024-25 for LTPS is shown below.

Table 165: Revised ARR of LTPS for FY 2024-25

Sl. No	Particulars	FY 2024-25	
		Approved	Revised Projection
I	POWER GENERATION (MU)		
	Gross Generation	425.74	425.74
	Net Generation	402.32	402.32
	Auxiliary Consumption Loss %	5.50%	5.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	32.47	52.60
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	0.00	0.70
	Interest on working Capital	4.45	12.57
	Depreciation	10.21	15.25
	Return on Equity	15.16	15.96
	Income Taxes	0	0

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
	Special R&M	26	31
	Capacity Building	0	0
	<u>Less:</u> Other Income	-9.22	-9.22
II	Total Fixed Charges	79.18	118.97
III	Fuel Cost	115.74	276.27
IV	Total Revenue Requirement	194.92	395.23

29.2. Net Annual Revenue Requirement

29.2.1. The Net Annual Revenue Requirements for FY 2024-25 are as shown in the tables below.

Table 166: Net Annual Revenue Requirements of LTPS for FY 2024-25

Particulars	FY 2024-24	FY 2024-25
	Approved	Revised Projection
Total Fixed Charges (Rs. Crore)	79.18	118.97
Fuel Cost (Rs. Crore)	115.74	276.27
Total Revenue Requirement (Rs. Crore)	194.92	395.23
Total Per unit cost (Rs/ KWh)	4.84	9.82

Rs. Cr

29.3. Tariff for LTPS for FY 2024-25

29.3.1. The tariff proposed for LTPS for FY 2024-25 is as shown below.

Table 167: Tariff proposed of LTPS for FY 2024-25

Particulars	LTPS
Annual fixed charges (Rs crore)	118.97
Monthly fixed charges (Rs crore)	9.91
Energy charge rate (Rs. / kWh)	6.87

29.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2024-25 as discussed in the tables above.

APPEAL FOR AGGREGATE REVENUE REQUIREMENT FOR FY
2024-25 for KLHEP
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – KLHEP

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for Revised Aggregate Revenue Requirement for the FY 2024-25.

AND

Petition for Determination of Tariff for the FY 2024-25

AND

IN THE MATTER OF

Karbi Langpi Hydro Electric Project,
Assam Power Generation Corporation Limited,
Lengery, Dist. Karbi Anglong, Assam

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER – KLHEP

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILINGNO

CASENO.....

IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement for the FY 2024-25 and Determination of Tariff for the FY 2024-25

AND IN THE MATTER OF:

Karbi Langpi Hydro Electric Project (hereinafter referred to as "KLHEP") of Assam Power Generation Corporation Limited (hereinafter referred to as "APGCL") incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the APGCL is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003(Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- III. That the KLHEP, with commercial operation of both of its units declared on 06/04/2007, is an operating hydro Power Station under the APGCL in the district of Karbi Anglong, Assam.
- IV. That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 on 18th September, 2021.
- V. That as per the Hon'ble Commission's this new MYT Regulations of 2021 the licensee is filing for approval of the for Revised Aggregate Revenue Requirement of KLHEP for the FY 2024-25 and Determination of Tariff for the FY 2024-25.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

30. Revised ARR of KLHEP for FY 2024-25

30.1. Regulatory provisions for Revised ARR

30.1.1. The Hon'ble Commission in its Tariff regulations, 2021 has stated the following on Revised ARR for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"4 Multi-Year Tariff Framework

4.1 The Commission shall determine the tariff for matters covered under Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2022.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Companies, Transmission Licensee, SLDC, Distribution Wheeling Business and Retail Supply Business:

- (xi) Before commencement of Control Period, a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission.*
- (xii) A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval.*
- (xiii) The applicant shall submit operating norms and trajectories of performance parameters for each year of the Control Period, for the Commission's approval.*
- (xiv) The applicant shall submit the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for Generating Companies, SLDC, Transmission Licensee, Distribution Wheeling Business and Retail Supply Business, for each year of the Control Period.*
- (xv) In its tariff petition, a generating company shall submit information to support the determination of tariff for each generating station"*

5 Control Period and Baseline

5.1 The first Control Period under these Regulations shall be of three financial years from April 1st, 2022 to March 31st, 2025 and for every block of three years thereafter or such other period as may be decided by the Commission.

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may determine the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

5.2 The Commission shall determine baseline values for various financial and operational parameters of ARR for the Control Period taking into consideration the figures approved by the Commission in the past, actual average figures of last three years, audited accounts, estimate of the figures for the relevant year, Industry benchmarks/norms and other factors considered appropriate by the Commission. Provided that in case of substantial difference between the estimates earlier provided considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year suo-moto or on an application filed by the Applicant. "

31. Norms of operations

31.1. Regulatory provisions

31.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021.

31.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

31.2. Installed and Effective Capacity in FY 2024-25

31.2.1. APGCL submits the following Installed and Effective Capacity for FY 2024-25.

Table 168: Installed & Effective Capacity of KLHEP for FY 2024-25

Station	Installed Capacity (MW)	No. of Units	Units Available for Generation & Capacity in MW	Effective Capacity
KLHEP	100	2	1 (50), 2(50)	100 MW

31.3. Snapshot of performance projection for FY 2024-25

31.3.1. The following table shows the projection of performance parameters of Karbi Langpi hydroelectric power station for FY 2024-25.

Table 169: Projected Operating Performance of KLHEP for FY 2024-25

KLHEP	FY 2024-25 Approved	FY 2024-25 Revised Projection
Gross Energy in MU	390.00	390.00
Aux. Power Cons. (%)	0.50%	0.50%
Net Energy in MU	388.05	388.05
Plant Availability Factor (%)	85.00%	85.00%
Plant Load Factor (%)	44.50%	44.50%

31.4. Normative Annual Plant Availability Factor (NAPAF)

31.4.1. As per Regulation 50.1 of the Tariff Regulations, 2021 the Normative Plant Availability factor for recovery of full fixed charges, is 85% for FY 2024-25 for KLHEP. The approved and projected numbers are shown in the table below.

Table 170: Projected Availability of KLHEP for FY 2024-25

KLHEP	FY 2024-25 Approved	FY 2024-25 Revised Projection
Plant Availability Factor (%)	85%	85%

31.5. Normative Annual Plant Load Factor (NAPLF)

31.5.1. As per Regulation 50.1 of the Tariff Regulations, 2021 the Normative Plant Load factor is 44.5% for FY 2024-25 for KLHEP. The approved and projected numbers are shown in the table below.

Table 171: Projected PLF of KLHEP for FY 2024-25

KLHEP	FY 2024-25	
	Approved	Revised Projection
Plant Load Factor (%)	44.5%	44.5%

31.6. Auxiliary Energy Consumption

31.6.1. As per Regulation 50.1 of the Tariff Regulations, 2021 the Normative Auxiliary energy consumption is 0.50% for FY 2024-25 for KLHEP. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 172: Projected Auxiliary energy consumption of KLHEP for FY 2024-25

KLHEP	FY 2024-25	
	Approved	Revised Projection
Auxiliary Power Consumption (%)	0.50%	0.50%

31.6.2. APGCL prays to the Hon'ble Commission to kindly approve the projection of performance parameters as shown above.

32. Fixed Cost of the Plant

32.1. Annual fixed cost for FY 2024-25

32.1.1. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital
- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

32.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

32.2. Return on Equity (ROE)

32.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital. The Regulation 34 of the Tariff Regulations, 2021 is reproduced below for reference.

"34 Return on Equity Capital

34.1 Return on equity capital shall be computed on the equity capital determined in accordance with Regulation 32

.....

32.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2021. The Petitioner submits that there is no plan of addition in Equity in FY 2024-25 for the existing plants. Further, it is submitted that the actual tax paid would be claimed separately during True up of respective years.

Table 173: Projected Return on Equity capital for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
KLHEP	Opening Equity	68.65	156.68
	Closing Equity	68.65	156.68
	Rate of Return	15.50%	15.50%
	Return on Equity	10.64	24.29

32.2.3. APGCL prays to the Hon'ble Commission to kindly approve the projected Return on Equity as shown above.

32.3. Interest on Loan Capital

32.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

32.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY 2024-25. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2024-25. The interest rate has been considered as the weighted average rate of interest for FY 2024-25.

32.3.3. The finance charges are shown separately for FY 2024-25. The table below summarizes the interest on loan and finance charges considered for FY 2024-25.

Table 174: Projected Interest and Finance charges for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
KLHEP	Net Normative Opening Loan	144.51	96.69
	Addition of normative loan during the year	11.75	36.49
	Normative Repayment during the year	21.58	23.43
	Net Normative Closing Loan	134.68	109.75
	Avg. Normative Loan	139.60	103.22
	Interest Rate	10.79%	10.31%
	Interest on Loan Capital	15.06	10.64
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	15.06	10.64

32.3.4. APGCL prays to the Hon'ble Commission to kindly approve the projected total interest and finance charges as shown above.

32.4. Depreciation

32.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered following principals for determination of depreciation.

"33 Depreciation

33.1 The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission.

Provided that depreciation shall not be allowed on assets funded through Consumer contribution and Capital Subsidies/Grants.

33.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

....."

32.4.2. In view of the above, the Petitioner has computed the Depreciation considering the Capital Cost of the asset admitted by the Commission and projected asset addition with 10% salvage value. The table below summarizes the Depreciation projected for FY 2024-25.

Table 175: Projected Depreciation of KLHEP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25 (Revised Projection)
Opening GFA	523.32
Addition during the year	36.49
Closing GFA	559.81
Average GFA	541.56
Rate of Depreciation	4.33%
Total Depreciation	23.43

Particulars	FY 2024-25 (Revised Projection)
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	4.33%
Depreciation on grants	0.00
Net Depreciation	23.43

Table 176: Summary of projected Depreciation for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
KLHEP	Depreciation	23.96	23.43
	Less: Depreciation on assets funded by Grants	2.39	0.00
	Net Depreciation	21.58	23.43

32.4.3. GoA vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.

32.4.4. APGCL pray to the Hon'ble Commission to kindly approve the projected Depreciation for FY 2024-25 as shown above.

32.5. Interest on Working Capital

32.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

32.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

32.5.3. The interest on working capital considered is shown in the table below:

Table 177 : Summary of Interest on working capital projected for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
KLHEP	O&M Expenses for one month	3.07	3.23
	Maintenance Spares-30% of O&M	5.53	11.62
	Receivables for two months	13.44	15.81
	Total Working Capital Requirement	22.04	30.66
	Rate of interest	10.00%	11.53%
	Interest on Working capital	2.20	3.53

32.5.4. APGCL prays to the Hon'ble Commission to kindly approve the interest on Working capital for FY 2024-25 as shown above.

32.6. Operation and Maintenance Expenses

32.6.1. The operation and maintenance expense are to be projected in line with Regulation 51.1 of the Tariff Regulations, 2021.

32.6.2. As per Para 7.8.2 of Tariff Order dated 29th March 2023, wherein for revised ARR, the Hon'ble Commission had escalated admitted O&M figure in APR for FY 2022-23 for arriving at normative O&M figure for revised ARR for FY 2023-24 by 6.31%; in line with MYT Regulations, 2021. APGCL also has claimed revised ARR figure of FY 2024-25 by escalating claimed O&M figure in APR petition of FY 2023-24 by 6.31% and accordingly calculating same at effective capacity.

Table 178: Revised O&M cost of KLHEP for FY 2024-25

Rs. Cr

Station	Approved in MYT order of March 2022	Approved O&M Cost at effective capacity	O&M considered for APR of FY 2023-24 at Full Capacity	O&M calculated for Revised ARR of FY 2024-25 at Full Capacity	Claimed at effective capacity
A	B	C	D	$E = D * (1+6.31\%)$	F
KLHEP	36.90	36.90	36.44	38.74	38.74

32.6.3. APGCL prays to the Hon'ble Commission to kindly approve the O&M expenses for FY 2024-25 as shown above on effective capacity.

32.7. Non-Tariff income

32.7.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

32.7.2. The non-tariff income for FY 2024-25 has been projected same as approved by Hon'ble Commission in its order dated 21st March 2022. The same is as shown in the table below:

Table 179 : Station-wise non-tariff income projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	FY 2024-25
	Approved	Revised Projection
KLHEP	5.75	5.75

32.7.3. APGCL prays to the Hon'ble Commission to kindly approve the non-tariff income for FY 2024-25 as shown above.

32.8. Incentives

32.8.1. APGCL submits that the Incentives for FY 2024-25 will be claimed in True-up as per Regulations.

33. Other expenses

33.1. Capacity building

33.1.1. The Hon'ble Commission had not approved any amount for the Capacity Building expenditure for FY 2024-25 for KLHEP in its order dated 21st March 2022.

33.1.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 180: Expenses under capacity building

Rs. Cr

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
KLHEP	0.0	0.0

33.2. Special R&M

33.2.1. The Hon'ble commission had not approved any items under special R&M for FY 2024-25 as per tariff order dated 21st March 2022. Hence, APGCL has not claimed any amount under special R&M for FY 2024-25.

34. Summary of submissions for Revised ARR of FY 2024-25

34.1. Summary

34.1.1. The Summary of the revised ARR for FY 2024-25 for KLHEP is shown below.

Table 181: Revised ARR of KLHEP for FY 2024-25

Rs. Cr

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
I	POWER GENERATION (MU)		

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
	Gross Generation	390.00	390.00
	Net Generation	388.05	388.05
	Auxiliary Consumption Loss %	0.5%	0.5%
I	Fixed Charges		
	Operation & Maintenance Expenditure	36.90	38.74
	Increase in AERC Tariff Filing Fees	0	0.00
	Interest & Finance Charges	15.06	10.64
	Interest on working Capital	2.20	3.53
	Depreciation	21.58	23.43
	Return on Equity	10.64	24.29
	Income Taxes	0	0
	Special R&M	0	0
	Capacity Building	0	0
	<u>Less: Other Income</u>	-5.75	-5.75
II	Total Fixed Charges	80.64	94.88
III	Fuel Cost		
IV	Total Revenue Requirement	80.64	94.88

34.2. Net Annual Revenue Requirement

34.2.1. The Net Annual Revenue Requirements for FY 2024-25 are as shown in the tables below.

Table 182: Net Annual Revenue Requirements of KLHEP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Total Fixed Charges (Rs. Crore)	80.64	94.88
Fuel Cost (Rs. Crore)		
Total Revenue Requirement (Rs. Crore)	80.64	94.88
Total Per unit cost (Rs/ KWh)	2.08	2.45

34.3. Tariff for KLHEP for FY 2024-25

34.3.1. The tariff proposed for KLHEP for FY 2024-25 is as shown below.

Table 183: Tariff proposed of KLHEP for FY 2024-25

Particulars	KLHEP
Annual fixed charges (Rs crore)	94.88
Annual Capacity Charge (Rs crore)	47.44
Energy charge rate (Rs. / kWh)	1.22

34.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2024-25 as discussed in the tables above.

APPEAL FOR AGGREGATE REVENUE REQUIREMENT FOR FY
2024-25 for LRPP
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – LRPP

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for Revised Aggregate Revenue Requirement for the FY 2024-25.

AND

Petition for Determination of Tariff for the FY 2024-25

AND

IN THE MATTER OF

Lakwa Replacement Power Plant,
Assam Power Generation Corporation Limited,
Maibella, Charaideo,
Saffry-785689

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November' 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Deponent

Place: Guwahati

Date: 23/11/2023


(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER – LRPP

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILINGNO

CASENO.....

IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement for the FY 2024-25 and Determination of Tariff for the FY 2024-25

AND IN THE MATTER OF:

Lakwa Replacement Power Plant (hereinafter referred to as "LRPP") of Assam Power Generation Corporation Limited (hereinafter referred to as "APGCL") incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the APGCL is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003(Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- III. That the LRPP, commissioned on 26-04-2018, is an operating gas engine based thermal power station under the APGCL in the district of Charaideo, Assam.
- IV. That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 on 18th September, 2021.
- V. That as per the Hon'ble Commission's this new MYT Regulations of 2021 the licensee is filing for approval of the for Revised Aggregate Revenue Requirement of LRPP for the FY 2024-25 and Determination of Tariff for the FY 2024-25.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

35. Revised ARR of LRPP for FY 2024-25

35.1. Regulatory provisions for Revised ARR

35.1.1. The Hon'ble Commission in its Tariff regulations, 2021 has stated the following on Revised ARR for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"4 Multi-Year Tariff Framework

4.1 The Commission shall determine the tariff for matters covered under Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2022.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of

Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Companies, Transmission Licensee, SLDC, Distribution Wheeling Business and Retail Supply Business:

- (xvi) Before commencement of Control Period, a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission.*
- (xvii) A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval.*
- (xviii) The applicant shall submit operating norms and trajectories of performance parameters for each year of the Control Period, for the Commission's approval.*
- (xix) The applicant shall submit the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for Generating Companies, SLDC, Transmission Licensee, Distribution Wheeling Business and Retail Supply Business, for each year of the Control Period.*
- (xx) In its tariff petition, a generating company shall submit information to support the determination of tariff for each generating station"*

5 Control Period and Baseline

5.1 The first Control Period under these Regulations shall be of three financial years from April 1st, 2022 to March 31st, 2025 and for every block of three years thereafter or such other period as may be decided by the Commission.

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may determine the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

5.2 The Commission shall determine baseline values for various financial and operational parameters of ARR for the Control Period taking into consideration the figures approved by the Commission in the past, actual average figures of last three years, audited accounts, estimate of the figures for the relevant year, Industry benchmarks/norms and other factors considered appropriate by the Commission. Provided that in case of substantial difference between the estimates earlier provided considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year suo-moto or on an application filed by the Applicant.

36. Norms of operations

36.1. Regulatory provisions

36.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021.

36.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

36.2. Installed and Effective Capacity in FY 2024-25

36.2.1. APGCL submits the following Installed and Effective Capacity for FY 2024-25.

Table 184: Installed & Effective Capacity of LRPP for FY 2024-25

Station	Installed Capacity (MW)	No. of Units	Units Available for Generation & Capacity in MW	Effective Capacity
LRPP	69.755	7	1-7 (9.965 each)	69.755 MW

36.3. Snapshot of performance projection for FY 2024-25

36.3.1. The following table shows the projection of performance parameters of gas based Lakwa replacement power station for FY 2024-25.

Table 185: Projected Operating Performance of LRPP for FY 2024-25

LRPP	FY 2024-25 Approved	FY 2024-25 Revised Projection
Gross Energy in MU	519.40	519.40
Aux. Power Cons. (%)	3.50%	3.50%
Net Energy in MU	501.22	501.22
Plant Availability Factor (%)	85.00%	85.00%
Plant Load Factor (%)	90.00%	90.00%
Gross Station Heat Rate on GCV (kcal / kWh)	2150	2150

36.4. Normative Annual Plant Availability Factor (NAPAF)

36.4.1. The Hon'ble Commission had approved 85% for NAPAF for LRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

Table 186: Projected Availability of LRPP for FY 2024-25

LRPP	FY 2024-25 Approved	FY 2024-25 Revised Projection
Plant Availability Factor (%)	85%	85%

36.5. Normative Annual Plant Load Factor (NAPLF)

36.5.1. The Hon'ble Commission had approved 90% for NAPLF for LRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

Table 187: Projected PLF of LRPP for FY 2024-25

LRPP	FY 2024-25	
	Approved	Revised Projection
Plant Load Factor (%)	90%	90%

36.6. Gross Station Heat Rate (SHR)

36.6.1. The Hon'ble Commission had approved GSHR of 2150 kCal/kWh for LRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

36.6.2. The actual and projected numbers are shown in the table below.

Table 188: Projected SHR of LRPP for FY 2024-25

LRPP	FY 2024-25	
	Approved	Revised Projection
Gross Station Heat Rate on GCV (kcal/ kWh)	2150	2150

36.7. Auxiliary Energy Consumption

36.7.1. The Hon'ble Commission had approved 3.5% for auxiliary consumption for LRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

Table 189: Projected Auxiliary energy consumption of LRPP for FY 2024-25

LRPP	FY 2024-25	
	Approved	Revised Projection
Auxiliary Power Consumption (%)	3.50%	3.50%

36.7.2. APGCL prays to the Hon'ble Commission to kindly approve the projection of performance parameters as shown above.

37. Fixed Cost of the Plant

37.1. Annual fixed cost for FY 2024-25

37.1.1. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital

- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

37.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

37.2. Return on Equity (ROE)

37.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital. The Regulation 34 of the Tariff Regulations, 2021 is reproduced below for reference.

"34 Return on Equity Capital

34.1 Return on equity capital shall be computed on the equity capital determined in accordance with Regulation 32

.....

37.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2021. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 190: Projected Return on Equity capital for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LRPP	Opening Equity	15.74	82.03
	Closing Equity	15.74	82.03
	Rate of Return	15.50%	15.50%
	Return on Equity	2.44	12.71

37.2.3. APGCL prays to the Hon'ble Commission to kindly approve the projected Return on Equity as shown above.

37.3. Interest on Loan Capital

37.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

37.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY 2024-25. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2024-25. The interest rate has been considered as the weighted average rate of interest for FY 2024-25.

37.3.3. The finance charges are shown separately for FY 2024-25. The table below summarizes the interest on loan and finance charges considered for FY 2024-25.

Table 191: Projected Interest and Finance charges for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
LRPP	Net Normative Opening Loan	20.21	8.76
	Addition of normative loan during the year	0.3	8.74
	Normative Repayment during the year	2.74	14.02
	Net Normative Closing Loan	17.77	3.48
	Avg. Normative Loan	18.99	6.12
	Interest Rate	10.79%	10.31%
	Interest on Loan Capital	2.05	0.63
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	2.05	0.63

37.3.4. APGCL prays to the Hon'ble Commission to kindly approve the projected total interest and finance charges as shown above.

37.4. Depreciation

37.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered following principals for determination of depreciation.

"33 Depreciation

33.1 The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission.

Provided that depreciation shall not be allowed on assets funded through Consumer contribution and Capital Subsidies/Grants.

33.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

....."

37.4.2. In view of the above, the Petitioner has computed the Depreciation considering the Capital Cost of the asset admitted by the Commission and projected asset addition with 10% salvage value. The table below summarizes the Depreciation projected for FY 2024-25.

Table 192: Projected Depreciation of LRPP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25
	Revised Projection
Opening GFA	276.97
Addition during the year	8.74
Closing GFA	285.71
Average GFA	281.34
Rate of Depreciation	4.98%
Total Depreciation	14.02
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	4.98%
Depreciation on grants	0.00
Net Depreciation	14.02

Table 193 : Summary of projected Depreciation for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LRPP	Depreciation	13.73	14.02
	Less: Depreciation on assets funded by Grants	11	0.00
	Net Depreciation	2.74	14.02

37.4.3. GoA vide Financial Sanction No: FS/42_2021-22(I)_06 dated 31.12.2021 and Financial Sanction No: FS/pe_2023-24(I)_33 dated 12.10.2023 (attached at **Annexure-11**) had already approved conversion of all cumulative grant given to APGCL into equity as on 31.03.2021 and 31.03.2023 respectively. The impact of such conversion has already been reflected in the Equity base admitted by the Commission. With regards to this, the Hon'ble Commission is thus requested that benefit of grants being converted to equity on similar lines also be given to Depreciation calculation and accordingly, any deductions to depreciation on account of assets funded by Grants may be considered to be revised to Nil with respect to approved figures in the Tariff Order.

37.4.4. APGCL pray to the Hon'ble Commission to kindly approve the projected Depreciation for FY 2024-25 as shown above.

37.5. Interest on Working Capital

37.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

37.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

37.5.3. The interest on working capital considered is shown in the table below:

Table 194 : Summary of Interest on working capital projected for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
LRPP	Fuel Cost for one month	7.91	23.02
	O&M Expenses for one month	2.79	2.85
	Maintenance Spares-30% of O&M	10.06	10.26
	Receivables for two months	29.08	63.86
	Total Working Capital Requirement	49.84	100.00
	Rate of interest	10.00%	11.53%
	Interest on Working capital	4.98	11.52

37.5.4. APGCL prays to the Hon'ble Commission to kindly approve the interest on Working capital for FY 2024-25 as shown above.

37.6. Operation and Maintenance Expenses

37.6.1. The operation and maintenance expense are claimed in line with Regulation 51.1 of the Tariff Regulations, 2021.

37.6.2. As per Para 7.8.2 of Tariff Order dated 29th March 2023, wherein for revised ARR, the Hon'ble Commission had escalated admitted O&M figure in APR for FY 2022-23 for arriving at normative O&M figure for revised ARR for FY 2023-24 by 6.31%; in line with MYT Regulations, 2021. APGCL also has claimed revised ARR figure of FY 2024-25 by escalating claimed O&M figure in APR petition of FY 2023-24 by 6.31% and accordingly calculating same at effective capacity.

Table 195: Revised O&M cost for FY 2024-25 for LRPP

Rs. Cr

Station	Approved in MYT order of March 2022	Approved O&M Cost at effective capacity	O&M considered for APR of FY 2023-24 at Full Capacity	O&M calculated for Revised ARR of FY 2024-25 at Full Capacity	Claimed at effective capacity
A	B	C	D	E = D *(1+6.31%)	F
LRPP	33.54	33.54	32.18	34.21	34.21

37.6.3. APGCL prays to the Hon'ble Commission to kindly approve the O&M expenses for FY 2024-25 as shown above on effective capacity.

37.7. Impact of AERC (Payment of Fees etc.) Regulation, 2020

37.7.1. The Hon'ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

37.7.2. The tentative impact of the increase in the filing fees has been shown below:

Table 196: Impact of increase in AERC Fees projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LRPP	0.10	0.10

37.8. Non-Tariff income

37.8.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

37.8.2. The non-tariff income for FY 2024-25 has been projected same as approved by Hon'ble Commission in its order dated 21st March 2022. The same is as shown in the table below:

Table 197: Station-wise non-tariff income projected for FY 2024-25

Rs. Cr

Station	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LRPP	0	0

37.8.3. APGCL prays to the Hon'ble Commission to kindly approve the non-tariff income for FY 2024-25 as shown above.

38. Energy Charges

38.1. Fuel Price and Calorific Value

38.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below.

Table 198 : Projected GCV and Price for FY 2024-25

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs./1000 SCM)
LRPP	9246.32	22872.58

38.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Price of Gas and GCV for LRPP for FY 2024-25 as shown in the table above.

38.2. Fuel cost

38.2.1. The Hon'ble Commission, in the Tariff Order dated 21st March 2022 had approved the Fuel Cost for FY 2024-25. The table below shows the revised projected fuel cost for FY 2024-25.

Table 199 : Fuel cost of LRPP for FY 2024-25

Particulars	Derivation	Unit	FY 2024-25	FY 2024-25
			Approved	Revised Projection
Gross Generation	A	MU	519.4	519.40
Heat Rate	B	kcal/kWh	2150	2150.00
GCV of gas	C	kcal/SCM	9337.66	9246.32
Overall Heat	D=A x B	G. cal.	1116700.82	1116700.82
Gas consumption	E=D/C	M. SCM	119.59	120.77
Price of Gas	F	Rs./1000 SCM	7932.73	22872.58
Total cost of Gas	G=E x F/10000	Rs. Crore	94.87	276.24

38.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Fuel cost Price for LRPP for FY 2024-25 as shown in the table above.

38.3. Incentives

38.3.1. APGCL submits that the Incentives for FY 2024-25 will be claimed in True-up as per Regulations.

39. Other expenses

39.1. Capacity building

39.1.1. The Hon'ble Commission had not approved any amount for the Capacity Building expenditure for FY 2024-25 for LRPP in its order dated 21st March 2022.

39.1.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 200: Expenses under capacity building

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LRPP	0.0	0.0

Rs. Cr

39.2. Special R&M

39.2.1. APGCL's plans to undertake Special R&M for the following units, cost of which will be claimed as shown below.

Table 201: Expenses under Special R&M

Rs. Lakhs

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
LRPP	3375	3375

Sl. No.	Work Name	Approved (Rs. Lakhs)	Claim for FY 2024-25 (Rs. Lakhs)	Remarks
1	16,000 and 48,000 Running Hours Maintenance	3375	3375	Same

40. Summary of submissions for Revised ARR of FY 2024-25

40.1. Summary

40.1.1. The Summary of the revised ARR for FY 2024-25 for LRPP is shown below.

Table 202: Revised ARR of LRPP for FY 2024-25

Rs. Cr

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
I	POWER GENERATION (MU)		
	Gross Generation	519.40	519.40
	Net Generation	501.22	501.22
	Auxiliary Consumption Loss %	3.50%	3.50%
I	Fixed Charges		
	Operation & Maintenance Expenditure	33.54	34.21
	Increase in AERC Tariff Filing Fees	0.1	0.10
	Interest & Finance Charges	2.05	0.63
	Interest on working Capital	4.98	11.52
	Depreciation	2.74	14.02
	Return on Equity	2.44	12.71
	Income Taxes	0	0
	Special R&M	33.75	33.75
	Capacity Building	0	0
	<u>Less: Other Income</u>	0.00	0.00
II	Total Fixed Charges	79.60	106.95
III	Fuel Cost	94.87	276.24
IV	Total Revenue Requirement	174.47	383.19

40.2. Net Annual Revenue Requirement

40.2.1. The Net Annual Revenue Requirements for FY 2024-25 are as shown in the tables below.

Table 203 : Net Annual Revenue Requirements for LRPP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Total Fixed Charges (Rs. Crore)	79.60	106.95
Fuel Cost (Rs. Crore)	94.87	276.24
Total Revenue Requirement (Rs. Crore)	174.47	383.19
Total Per unit cost (Rs/ KWh)	3.48	7.65

40.3. Tariff for LRPP for FY 2023-24

40.3.1. The tariff proposed for LRPP for FY 2024-25 is as shown below

Table 204 : Tariff proposed for LRPP for FY 2024-25

Particulars	LRPP
Annual fixed charges (Rs crore)	106.95
Monthly fixed charges (Rs crore)	8.91
Energy charge rate (Rs. / kWh)	5.51

40.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2024-25 as discussed in the tables above.

APPEAL FOR AGGREGATE REVENUE REQUIREMENT FOR FY
2024-25 for NRPP
&
DETERMINATION OF TARIFF FOR FY 2024-25
TO
ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by
ASSAM POWER GENERATION CORPORATION LTD
Bijulee Bhawan, Paltanbazar
Guwahati – 781 001

AFFIDAVIT – NRPP

BEFORE THE ASSAM STATE ELECTRICITY REGULATORY
COMMISSION, GUWAHATI.

Petition No. –

Case No.
(to be filed by the Office)

IN THE MATTER OF

Filing of Petition for Revised Aggregate Revenue Requirement for the FY 2024-25.

AND

Petition for Determination of Tariff for the FY 2024-25

AND

IN THE MATTER OF

Namrup Replacement Power Plant,
Assam Power Generation Corporation Limited,
Namrup, Dibrugarh, 786622

Petitioner

I, Sri Janardan Das, Son of Late Bishnu Ram Das, age 45 years, residing at Beltola Tiniali, Guwahati - 781028, do solemnly affirm and say as follows:

I am the General Manager (HQ) i/c of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 23rd November 2023 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Deponent

Place: Guwahati

Date: 23/11/2023


(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

PRAYER – NRPP

BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

FILING NO

CASE NO.....

IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement for the FY 2024-25 and Determination of Tariff for the FY 2024-25

AND IN THE MATTER OF:

Namrup Replacement Power Plant (hereinafter referred to as "NRPP") of Assam Power Generation Corporation Limited (hereinafter referred to as "APGCL") incorporated under the provisions of the Companies Act, 1956 and having its registered office in the State of Assam

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the APGCL is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003 (Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- III. That the NRPP, commissioned on 16-07-2021, is an operating gas turbine based thermal power station under the APGCL in the district of Dibrugarh, Assam.
- IV. That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 on 18th September, 2021.
- V. That as per the Hon'ble Commission's this new MYT Regulations of 2021 the licensee is filing for approval of the for Revised Aggregate Revenue Requirement of NRPP for the FY 2024-25 and Determination of Tariff for the FY 2024-25.

Place: Guwahati

Date: 23/11/2023

Deponent



(Janardan Das)
General Manager (HQ) i/c,
Assam Power Generation Corporation Ltd.

41. Revised ARR of NRPP for FY 2024-25

41.1. Regulatory provisions for Revised ARR

41.1.1. The Hon'ble Commission in its Tariff regulations, 2021 has stated the following on Revised ARR for the control period from FY 2022-23 to FY 2024-25. The same is reproduced below for ready reference:

"4 Multi-Year Tariff Framework

4.1 The Commission shall determine the tariff for matters covered under Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2022.

4.2 The Multi-Year Tariff framework shall be based on the following elements, for calculation of

Aggregate Revenue Requirement and expected revenue from tariff and charges for Generating Companies, Transmission Licensee, SLDC, Distribution Wheeling Business and Retail Supply Business:

- (xxi) Before commencement of Control Period, a forecast of the Aggregate Revenue Requirement and expected revenue from existing tariff and charges shall be submitted by the applicant and approved by the Commission.*
- (xxii) A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval.*
- (xxiii) The applicant shall submit operating norms and trajectories of performance parameters for each year of the Control Period, for the Commission's approval.*
- (xxiv) The applicant shall submit the forecast of Aggregate Revenue Requirement and expected revenue from existing tariff for each year of the Control Period, and the Commission shall approve the tariff for Generating Companies, SLDC, Transmission Licensee, Distribution Wheeling Business and Retail Supply Business, for each year of the Control Period.*
- (xxv) In its tariff petition, a generating company shall submit information to support the determination of tariff for each generating station"*

5 Control Period and Baseline

5.1 The first Control Period under these Regulations shall be of three financial years from April 1st, 2022 to March 31st, 2025 and for every block of three years thereafter or such other period as may be decided by the Commission.

Provided that in case any generating station gets commissioned after notification of these Regulations but before commencement of the first Control Period, the Commission may determine the tariff based on the norms as specified for such generating station under these Regulations, under special case through separate Order.

5.2 The Commission shall determine baseline values for various financial and operational parameters of ARR for the Control Period taking into consideration the figures approved by the Commission in the past, actual average figures of last three years, audited accounts, estimate of the figures for the relevant year, Industry benchmarks/norms and other factors considered appropriate by the Commission. Provided that in case of substantial difference between the estimates earlier provided considered for determination of baseline values and the actual audited accounts, the Commission may re-determine the baseline values for the base year suo-moto or on an application filed by the Applicant.

42. Norms of operations

42.1. Regulatory provisions

42.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2021.

42.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

42.2. Installed and Effective Capacity in FY 2024-25

42.2.1. APGCL submits the following Installed and Effective Capacity for FY 2024-25.

Table 205: Installed & Effective Capacity of NRPP for FY 2024-25

Station	Installed Capacity (MW)	No. of Units	Units Available for Generation & Capacity in MW	Effective Capacity
NRPP	98.4	2	1(62.25), 2(36.15)	98.40

42.3. Snapshot of performance projection for FY 2024-25

42.3.1. The following table shows the projection of performance parameters of gas based Namrup replacement power station for FY 2024-25.

Table 206: Projected Operating Performance of NRPP for FY 2024-25

NRPP	FY 2024-25	FY 2024-25
	As per Regulation	Revised Projection
Gross Energy in MU	732.69	732.69
Aux. Power Cons. (%)	5.00%	5.00%
Net Energy in MU	696.05	696.05
Plant Availability Factor (%)	85.00%	85.00%
Plant Load Factor (%)	85.00%	85.00%
Gross Station Heat Rate on GCV (kcal / kWh)	1988	1988

42.4. Normative Annual Plant Availability Factor (NAPAF)

42.4.1. The Hon'ble Commission had approved 85% for NAPAF for NRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

Table 207: Projected Availability of NRPP for FY 2024-25

NRPP	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Plant Availability Factor (%)	85%	85%

42.5. Normative Annual Plant Load Factor (NAPLF)

42.5.1. As per regulation 48.2(b) of AERC Tariff Regulation, 2021 the normative plant load factor for incentive of Gas based generating station is 85%. The approved and projected numbers are shown in the table below.

Table 208: Projected PLF for FY 2024-25 of NRPP

NRPP	FY 2024-25	FY 2024-25
	As per Regulation	Revised Projection
Plant Load Factor (%)	85%	85%

42.6. Gross Station Heat Rate (SHR)

42.6.1. SHR for NRPP: Since, NRPP was commissioned on 16th July 2021. Hence, as per Regulation 47.4 (ii) (b) of Tariff Regulation 2018, the GSHR of new plants commissioned on or after 1st April 2019 for Gas-based plant

= “1.05 X Design Heat Rate of the unit/block for Natural Gas and RLNG (kCal/kWh)

Where, the **Design Heat Rate of a unit shall mean the guaranteed heat rate for a unit at 100% MCR and at site ambient conditions....**

- ✓ The Guaranteed Heat Rate of NRPP at 98.4 MW combined cycle operation by OEM at NCV is 1705.8 kCal/kWh.
- ✓ The Guaranteed Heat Rate of NRPP at 98.4 MW combined cycle operation by OEM at GCV is $(1705.8 \times 1.11 \text{ KCal/kWh}) = 1893.4 \text{ kCal/kWh}$
- ✓ As such combined cycle GSHR of NRPP as per Regulation = $1893.4 \times 1.05 \text{ kCal/kWh} = 1988 \text{ kCal/kWh}$

42.6.2. The approved and projected numbers are shown in the table below.

Table 209: Projected SHR of NRPP for FY 2024-25

NRPP	FY 2024-25	FY 2024-25
	As per Regulation	Revised Projection
Gross Station Heat Rate on GCV (kcal/ kWh)	1988	1988

42.7. Auxiliary Energy Consumption

42.7.1. The Hon'ble Commission had approved 5.00% for auxiliary consumption for NRPP for FY 2024-25 in its order dated 21st March 2022. The approved and projected numbers are shown in the table below.

Table 210: Projected Auxiliary energy consumption of NRPP for FY 2024-25

NRPP	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Auxiliary Power Consumption (%)	5.00%	5.00%

42.7.2. APGCL prays to the Hon'ble Commission to kindly approve the projection of performance parameters as shown above.

43. Fixed Cost of the Plant

43.1. Annual fixed cost for FY 2024-25

43.1.1. As per regulation 43.1 of the AERC Tariff regulations, 2021 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:

- (a) Return on Equity Capital
- (b) Interest on Loan capital
- (c) Depreciation
- (d) Operation and Maintenance Expenses
- (e) Interest on Working Capital
- (f) Less: Non-Tariff Income

43.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2021. These components have been discussed in detail in the following sections of the petition.

43.2. Return on Equity (ROE)

43.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital. The Regulation 34 of the Tariff Regulations, 2021 is reproduced below for reference.

"34 Return on Equity Capital

34.1 Return on equity capital shall be computed on the equity capital determined in accordance with Regulation 32

.....

43.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2021. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 211: Projected Return on Equity capital for FY 2024-25

Rs. Cr

Station	Particulars	2024-25	2024-25
		Approved	Revised Projection
NRPP	Opening Equity	218.69	218.69
	Closing Equity	218.69	218.69
	Rate of Return	15.50%	15.50%
	Return on Equity	33.90	33.90

43.2.3. APGCL prays to the Hon'ble Commission to kindly approve the projected Return on Equity as shown above.

43.3. Interest on Loan Capital

43.3.1. As per Regulation 35 of the Tariff Regulations, 2021, the Commission will consider interest on Loan capital on normative basis with repayment equal to depreciation allowed for that year and rate of interest will be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year.

43.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY 2024-25. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2024-25. The interest rate has been considered as the weighted average rate of interest for FY 2024-25.

43.3.3. The finance charges are shown separately for FY 2024-25. The table below summarizes the interest on loan and finance charges considered for FY 2024-25.

Table 212 : Projected Interest and Finance charges for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25 Approved	FY 2024-25 Revised Projection
NRPP	Net Normative Opening Loan	403.52	407.48
	Addition of normative loan during the year	0.00	2.90
	Normative Repayment during the year	36.27	42.16
	Net Normative Closing Loan	367.25	368.22
	Avg. Normative Loan	385.39	387.85
	Interest Rate	10.79%	10.31%
	Interest on Loan Capital	41.57	39.99
	Add: Bank Charges	0.00	0.00
	Net Interest on Loan Capital	41.57	39.99

43.3.4. APGCL prays to the Hon'ble Commission to kindly approve the projected total interest and finance charges as shown above.

43.4. Depreciation

43.4.1. The Hon'ble Commission in its Tariff Regulations, 2021 has considered following principals for determination of depreciation.

"33 Depreciation

33.1 The value base for the purpose of depreciation shall be the Capital Cost of the asset admitted by the Commission.

Provided that depreciation shall not be allowed on assets funded through Consumer contribution and Capital Subsidies/Grants.

33.2 The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

.....”

43.4.2. In view of the above, the Petitioner has computed the Depreciation considering the Capital Cost of the asset admitted by the Commission and projected asset addition with 10% salvage value. The table below summarizes the Depreciation projected for FY 2024-25.

Table 213 : Projected Depreciation of NRPP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25
	Revised Projection
Opening GFA	729.09
Addition during the year	2.90
Closing GFA	731.99
Average GFA	730.54
Rate of Depreciation	5.77%
Total Depreciation	42.16
Grant	0.00
Additions during the year	0.00
Closing grant	0.00
Average grant	0.00
Rate of Depreciation	5.77%
Depreciation on grants	0.00
Net Depreciation	42.16

Table 214 : Summary of projected Depreciation for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
NRPP	Depreciation	36.27	42.16
	Less: Depreciation on assets funded by Grants	0	0
	Net Depreciation	36.27	42.16

43.4.3. APGCL pray to the Hon'ble Commission to kindly approve the projected Depreciation for FY 2024-25 as shown above.

43.5. Interest on Working Capital

43.5.1. As per Regulation 37 of the Tariff Regulations, 2021, the interest on working capital will be considered on normative basis.

43.5.2. As per the above regulations, the Petitioner has projected normative interest on working capital. However, as APGCL does not have liquid fuel stock facility, it has not considered working capital on storage of liquid fuel. The rate of interest has been considered equal to the normative interest rate of three hundred (300) basis points above the average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months, which $8.53\% + 3.00\% = 11.53\%$.

43.5.3. The interest on working capital considered is shown in the table below:

Table 215 : Summary of Interest on working capital projected for FY 2024-25

Rs. Cr

Station	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
NRPP	Fuel Cost for one month	7.27	18.16
	O&M Expenses for one month	2.01	3.92
	Maintenance Spares-30% of O&M	7.23	14.12
	Receivables for two months	38.80	78.91
	Total Working Capital Requirement	55.30	115.11
	Rate of interest	10.00%	11.53%
	interest on Working capital	5.54	13.27

43.5.4. APGCL prays to the Hon'ble Commission to kindly approve the interest on Working capital for FY 2024-25 as shown above.

43.6. Operation and Maintenance Expenses

43.6.1. The operation and maintenance expense are claimed in line with Regulation 51.1 of the Tariff Regulations, 2021.

43.6.2. As per Para 7.8.2 of Tariff Order dated 29th March 2023, wherein for revised ARR, the Hon'ble Commission had escalated admitted O&M figure in APR for FY 2022-23 for arriving at normative O&M figure for revised ARR for FY 2023-24 by 6.31%; in line with MYT Regulations, 2021. APGCL also has claimed revised ARR figure of FY 2024-25 by escalating claimed O&M figure in APR petition of FY 2023-24 by 6.31% and accordingly calculating same at effective capacity.

Table 216: Revised O&M cost of NRPP for FY 2024-25

Rs. Cr

Station	Approved in MYT order of March 2022	Approved O&M Cost at effective capacity	O&M considered for APR of FY 2023-24 at Full Capacity	O&M calculated for Revised ARR of FY 2024-25 at Full Capacity	Claimed at effective capacity
A	B	C	D	E = D *(1+6.31%)	F
NRPP	25.37	25.37	44.28	47.07	47.07

43.6.3. APGCL prays to the Hon'ble Commission to kindly approve the O&M expenses for FY 2024-25 as shown above on effective capacity.

43.7. Impact of AERC (Payment of Fees etc.) Regulation, 2020

43.7.1. The Hon'ble Commission has notified the new AERC (Payment of Fees etc.) Regulations, 2020 which has led to a substantial increase in the Filing Fees of APGCL payable to AERC.

43.7.2. The tentative impact of the increase in the filing fees has been shown below:

Table 217: Impact of increase in AERC Fees projected for FY 2024-25

Station	FY 2023-24	FY 2024-25
	Approved	Revised Projection
NRPP	0.00	0.00

Rs. Cr

43.8. Non-Tariff income

43.8.1. As per Regulation 46 of the Tariff Regulations, 2021, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.

43.8.2. The non-tariff income for FY 2024-25 has been projected same as approved by Hon'ble Commission in its order dated 21st March 2022. The same is as shown in the table below:

Table 218 : Station-wise non-tariff income projected for FY 2024-25

Station	FY 2024-25	FY 2024-25
	Approved	Revised Projection
NRPP	0	0

Rs. Cr

43.8.3. APGCL prays to the Hon'ble Commission to kindly approve the non-tariff income for FY 2024-25 as shown above.

44. Energy Charges

44.1. Fuel Price and Calorific Value

44.1.1. As per Regulation 10 of the Tariff Regulations 2021, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below.

Table 219 : Projected GCV and Price for FY 2024-25

Station	Wt. Avg. Gross Calorific Value of Gas (kcal/SCM)	Wt. Avg. Price of Gas (Rs./1000 SCM)
NRPP	9251.70	13838.27

44.1.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Price of Gas and GCV for NRPP for FY 2024-25 as shown in the table above.

44.2. Fuel cost

44.2.1. The Hon'ble Commission, in the Tariff Order dated 21st March 2022 had approved the Fuel Cost for FY 2024-25. The table below shows the revised projected fuel cost for FY 2024-25.

Table 220 : Fuel cost of NRPP for FY 2024-25

Particulars	Derivation	Unit	FY 2024-25	
			Approved	Revised Projection
Gross Generation	A	MU	732.69	732.69
Heat Rate	B	kcal/kWh	1,951.05	1988.00
GCV of gas	C	kcal/SCM	9204.80	9251.70
Overall Heat	D=AxB	G. cal.	1429505.6	1456580.56
Gas consumption	E=D/C	M. SCM	155.3	157.44
Price of Gas	F	Rs./1000 SCM	5,617.39	13838.27
Total cost of Gas	G=ExF/10000	Rs. Crore	87.24	217.87

44.2.2. The Petitioner prays to the Hon'ble Commission to kindly approve the projected Fuel cost Price of NRPP for FY 2024-25 as shown in the table above.

44.3. Incentives

44.3.1. APGCL submits that the Incentives for FY 2024-25 will be claimed in True-up as per Regulations.

45. Other expenses

45.1. Capacity building

45.1.1. The Hon'ble Commission had not approved any amount for the Capacity Building expenditure for FY 2024-25 for NRPP in its order dated 21st March 2022.

45.1.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 221: Expenses under capacity building

Plant Name	FY 2024-25	
	Approved	Revised Projection
NRPP	0.0	0.0

Rs. Cr

45.2. Special R&M

45.2.1. APGCL's plans to undertake Special R&M for the following units, cost of which will be claimed as shown below.

Table 222: Expenses under Special R&M

Rs. Lakhs

Plant Name	FY 2024-25	FY 2024-25
	Approved	Revised Projection
NRPP	0	7919

Sl. No.	Work Name	Approved (Rs. Lakhs)	Claim for FY 2024-25 (Rs. Lakhs)
1	HGPI for GT Unit of NRPP	0	7919
Remarks			
As per the directive of the Hon'ble Commission APGCL is submitting the details along with the DPR and cost benefit analysis for the work, as attached in Annexure-20 .			

46. Summary of submissions for Revised ARR of FY 2024-25

46.1. Summary

46.1.1. The Summary of the Revised ARR for FY 2024-25 for NRPP is shown below.

Table 223: Revised ARR of NRPP for FY 2024-25

Rs. Cr

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
I	POWER GENERATION (MU)		
	Gross Generation	732.69	732.69
	Net Generation	696.05	696.05
	Auxiliary Consumption Loss %	5.0%	5.0%
I	Fixed Charges		
	Operation & Maintenance Expenditure	25.37	47.07
	Increase in AERC Tariff Filing Fees	0	0.00
	Interest & Finance Charges	41.57	39.99
	Interest on working Capital	5.54	13.27
	Depreciation	36.27	42.16
	Return on Equity	33.90	33.90
	Income Taxes	0	0
	Special R&M	0	79.19
	Capacity Building	0	0

Sl. No	Particulars	FY 2024-25	FY 2024-25
		Approved	Revised Projection
	<u>Less:</u> Other Income	0.00	0.00
II	Total Fixed Charges	142.64	255.58
III	Fuel Cost	87.24	217.87
IV	Total Revenue Requirement	229.88	473.45

46.2. Net Annual Revenue Requirement

46.2.1. The Net Annual Revenue Requirements for FY 2024-25 are as shown in the tables below.

Table 224 : Net Annual Revenue Requirements of NRPP for FY 2024-25

Rs. Cr

Particulars	FY 2024-25	FY 2024-25
	Approved	Revised Projection
Total Fixed Charges (Rs. Crore)	142.64	255.58
Fuel Cost (Rs. Crore)	87.24	217.87
Total Revenue Requirement (Rs. Crore)	229.88	473.45
Total Per unit cost (Rs/ KWh)	3.30	6.80

46.3. Tariff of NRPP for FY 2024-25

46.3.1. The tariff proposed for NRPP for FY 2024-25 is as shown below

Table 225: Tariff proposed of NRPP for FY 2024-25

Particulars	NRPP
Annual fixed charges (Rs crore)	255.58
Monthly fixed charges (Rs crore)	21.30
Energy charge rate (Rs. / kWh)	3.13

46.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2024-25 as discussed in the table.

47. Directives

47.1. Compliance of Directives issued in the Tariff Order for FY 2023-24

47.1.1. We submit that the update on the compliance of directives issued in the Tariff order for FY 2023-24 for Quarter 1 has already been submitted to the Hon'ble Commission.

Compliance of Directives issued in the Tariff Order for FY 2023-24		
Sl. No:	AERC's Directive	Status as on 30 th September, 2023
1	Directive 1: Completion of Projects The Commission directs APGCL to complete the new and ongoing projects on time. The Commission also directs APGCL to set up their ongoing Solar Plants on Time.	Noted. The status of ongoing projects is enclosed in Sub-Annexure-I of Annexure 21.
2	Directive 2: Procurement of Gas APGCL should continue to pursue with its gas suppliers/ transporter to obtain the contracted quantum of gas on a regular basis. The issue of gas should be pursued with the concerned ministry of GOI in consultation with the state Government.	Correspondence with OIL (Oil India Ltd.) regarding the supply of contracted quantity as well as supply of additional gas for the new Projects has been made and requested to forward the proposal to MoPNG (Ministry of Petroleum and Natural Gas) for allocation etc. The copy of the letter is also marked to GoA (Govt. of Assam) and the same is enclosed at Sub-Annexure-II of Annexure 21.
3	Directive 3: Fixed Asset Register The Commission directs APGCL that Fixed Asset Register should be updated every year, and these should be duly certified by Chartered Accountant. APGCL is directed to maintain Fixed Asset Register at their end and submit to the Commission as and when asked during tariff proceedings.	APGCL updates its FAR regularly and is ready to submit to the Hon'ble Commission whenever asked for.
4	Directive 4: Energy Audit of LTPS and NTPS The Commission directs APGCL to conduct	Noted. A report was submitted along with 1st Quarter compliance of directives for FY 2022-23 as per the

Compliance of Directives issued in the Tariff Order for FY 2023-24		
	an energy Audit of LTPS and NTPS with the help of NIT Silchar.	<p>directives of the Hon'ble Commission which was submitted vide letter No. APGCL/CGM(G)/AERC/2020/115/Pt-XII/17 Dated 15/07/2022 and the same is again enclosed at Sub-Annexure-III of Annexure 21.</p> <p>This was also noted by the Hon'ble commission in the minutes of the Monitoring committee meeting held on 19th July.2022.</p>
5	<p>Directive 5: Overhauling of Units</p> <p>Commission observes that the Overhauling of units are never completed on time as proposed by APGCL. The Commission directs APGCL to complete the overhauling of units as per scheduled otherwise the Commission may not allow the expenditure in future.</p>	<p>Noted. APGCL is putting all-out effort to complete the Special R&M works within the stipulated time period. The status of the same is enclosed at Sub-Annexure-IV of Annexure 21. However, the overhauling is dependent on factors like Running hours, Commercial availability of parts of machinery etc., so sometimes it may differ from the stipulated time frame. APGCL has submitted the details justification of overhauling period to Hon'ble commission vide letter no. APGCL/CGM(G)/AERC/2022/115/Pt-XII/71 dated 06.11. 2023. Moreover, for hydro power plant, the time required to complete the overhauling of units from different utilities are annexed at Sub-Annexure-V of Annexure 21.</p>
6	<p>Directives 6: Solar Storage/ Pump Storage</p> <p>The Commission directs APGCL to initiate action for installation of solar/pump storage facilities to suit the demand</p>	<p>APGCL has floated a tender of engagement of consultant for preparation of PFR (Pre-feasibility Report) and DPR of pump storage projects in Assam.</p>
7	<p>Directive 7: Board approval of Special R&M/Capital Projects/Schemes/Works</p> <p>The commission directs APGCL to submit approval of the board or any other</p>	<p>Noted. New Special R&M/ Capital Projects/Schemes/Works proposed will submit to the Hon'ble commission in the tariff petition for Revised ARR & determination of tariff for FY 2024-25.</p>

Compliance of Directives issued in the Tariff Order for FY 2023-24

	competent authority for all Special R&M/ Capital Projects/Schemes/Works proposed to be undertaken by the petitioner. The commission also directs APGCL to approach the commission separately for its projects which were not included in the capital investment plan approved in the MYT order.	
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END OF MAIN PETITION

Annexure(s)	Particulars	Page Number
Annexure-1	CEA letter for deration of NTPS	Page 1 of 539
Annexure-2	Audited Annual Accounts FY 2022-23	Page 3 of 539
Annexure-3	Statutory Audit Report	Page 48 of 539
Annexure-4	SLDC certificates for plant performance certificate in FY 2022-23	Page 78 of 539
Annexure-5	KLHEP letter to AERC on Major Overhauling	Page 81 of 539
Annexure-6	APGCL letter to AERC intimating fire incident affecting 36.15 MW ST of NRPP dated 25.03.2022	Page 102 of 539
Annexure-7	AERC letter to APGCL w.r.t restoration work of the ST Unit of NRPP dated 12.08.2022	Page 104 of 539
Annexure-8	APGC Petition to allow open cycle operation for NRPP dated 19.10.2022	Page 106 of 539
Annexure-9	AERC STG Order dated 2.11.2022	Page 113 of 539
Annexure-10	APGCL letter to AERC on intimation of STG restoration dated 31.03.2023	Page 117 of 539
Annexure-11	GoA Financial Sanctions for conversion of grant to equity for APGCL	Page 119 of 539
Annexure-12	PFC loan details and applicable rates for FY 2022-23	Page 122 of 539
Annexure-13	Income Tax Return Acknowledgement (ITR-6) for FY 2022-23 (AY 2023-24)	Page 183 of 539
Annexure-14	DPR with cost benefit analysis and details with respect to Combustion Inspection of the GT Unit of NRPP	Page 185 of 539
Annexure-15	CAG comments on Financial Statement for FY 2022-23 of APGCL	Page 208 of 539
Annexure-16	Proposal for Emergency Capital spares with DPR, cost benefit analysis and relevant details	Page 213 of 539
Annexure-17	SLDC certificates for plant performance certificate in 2023-24	Page 297 of 539
Annexure-18	PFC loan details and applicable rates for FY 2023-24 (6 months)	Page 300 of 539
Annexure-19	Document with Interest rates applicabe on Govt. of Assam loans	Page 365 of 539
Annexure-20	DPR with cost benefit analysis and details with respect to HGPI for GT Unit of NRPP	Page 368 of 539
Annexure-21	Status of compliance of directive by Commission w.r.t 2nd quarter for FY 2023-24	Page 392 of 539
Annexure-22	Regulatory Formats	Page 415 of 539

Annexure-1: CEA letter for deration of NTPS

भारत सरकार
Government of India
 विद्युत मंत्रालय
Ministry of Power
 केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
 सचिव का कार्यालय, के.वि.प्रा.
Office of Secretary, CEA

To,

Sri. Tiken Ch. Basumatary,
 Chief General Manager (Generation),
 Assam Power Generation Corporation Limited (APGCL),
 Bijulee Bhawan, Paltanbazar,
 Guwahati-781001
 Assam

Subject: De-rating of Unit No. 2, 3 (2x21 MW) & 6 (22.5 MW) of Namrup CCPP of Assam Power Generation Corporation Limited (APGCL), Assam -reg.

Ref: Letter no. APGCL/CGM (G)/De-rating/2016/38/part/2 dated 15.09.2020 from Chief General Manager (Generation), APGCL.

Sir,

Reference is invited to letter no. APGCL/CGM (G)/ De-rating/2016/38/part/2 dated 15.09.2020 from Chief General Manager (Generation), Assam Power Generation Corporation Limited (APGCL) regarding De-rating of Unit No. 2 from 21 MW to 17 MW, Unit No. 3 from 21 MW to 15 MW and Unit No.6 from 22.5 MW to 9 MW of Namrup CCPP. The details furnished by APGCL have been seen by Central Electricity Authority.

The Board of Directors of Assam Power Generation Corporation Limited (APGCL) in their 87th Board meeting dated 08/09/2020 granted the approval for derating of Unit No. 2 from 21 MW to 17 MW, Unit No. 3 from 21 MW to 15 MW and Unit No. 6 from 22.5 MW to 9 MW of Namrup CCPP.

Based on decision taken by APGCL, the capacity of Unit No. 2 is being changed from 21 MW to 17 MW, Unit No. 3 from 21 MW to 15 MW and Unit No.6 from 22.5 MW to 9 MW of Namrup CCPP in the data-base of All India Installed Capacity of CEA.

Yours faithfully

(Rakesh Goyal)
Secretary, CEA

राकेश गोयल / RAKESH GOYAL
 सचिव / Secretary
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi-66

Copy for information to:

1. PPS, Secretary, MoP
3. All Chief Engineers of CEA
5. SA to Member (Planning/Hydro/Thermal/E&C/GO&D/PS), CEA

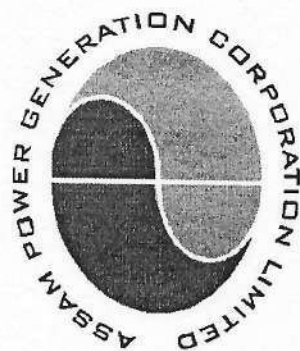
2. SA to Chairperson, CEA

4. All Heads of Subordinate offices, CEA

Annexure-2: Audited Annual Accounts FY 2022-23

IND AS FINANCIAL STATEMENT

2022-23



**ASSAM POWER GENERATION
CORPORATION LIMITED**

Assam Power Generation Corporation Limited
Statement of Profit and Loss for the year ended March 31, 2023

	Particulars	Notes	For the year ended March 31, 2023 (Rs. In Lakh)	For the year ended March 31, 2022 (Rs. In Lakh) Restated
	Income			
I	Revenue from operations			
	Revenue from operations (SOP)	16	1,11,107.74	41,697.12
	Add : Fuel Price Adjustment		28,674.97	7,272.31
	Revenue from operations		1,39,782.70	48,969.43
II	Other income	17	663.97	1,815.74
III	Finance income	18	2,915.23	2,723.49
IV	Total Income (I+II+III)		1,43,361.91	53,508.65
V	Expenses			
	Cost of raw materials consumed - other than lubricants	19	97,415.37	24,858.83
	Cost of raw materials consumed - lubricants	19	447.78	364.23
	Employee benefits expenses	20	9,764.39	11,605.10
	Other expenses	21	10,359.03	19,940.59
	Depreciation and amortization expense	22	9,964.91	8,460.14
	Finance costs	23	4,260.37	2,729.43
	Total Expenses (V)		1,32,211.85	67,958.33
VI	Profit/(Loss) before exceptional items and tax (IV-V)		11,150.06	(14,449.68)
VII	Exceptional Item		-	39,648.38
VIII	Profit/(Loss) before tax (VI+VII)		11,150.06	25,198.70
IX	Tax expense			
	Current tax		1,929.41	4,360.38
	MAT credit entitlement		-	-
	Deferred Tax		-	-
	Prior year tax charge		-	181.96
	Building & other construction workers welfare cess		-	-
	Total tax expense		1,929.41	4,542.34
X	Profit/(Loss) for the year from continuing operations (VIII-IX)		9,220.65	20,656.36
XI	Profit/(Loss) for the year from discontinuing operations		-	-
XII	Tax expense of discontinued operations		-	-
XIII	Profit/(Loss) for the year from discontinued operations (XI-XII)		-	-
XIV	Profit/ (loss) for the year/period (VIII-IX))		9,220.65	20,656.36
XV	Earning per share (EPS)		(In Rs.)	(In Rs.)
	a) Basic earning/(loss) per share (in Rs.)	24	3.80	45.31
	b) Diluted earning/(loss) per share (in Rs.)			
	[Nominal value of share Rs.100 (Rs.100) each]			

The accompanying notes are an integral part of the Ind AS financial statements.

As per our separate report of even date

For B.L. Purohit & Co.

Chartered Accountants

Firm Registration No. 0311056E


SUBHASH PUROHIT.
 Partner

Membership No.: 059631

UDIN: 230596310600087487

Place : Guwahati

Date : 04.08.2023

For and on behalf of

Assam Power Generation Corporation Limited

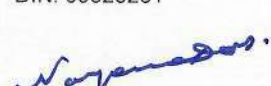

 (Shri Niraj Verma, IAS)
Chairman

DIN: 00520742


 (Shri Suresh Kaimal)
Chief Financial Officer
 PAN: AECPK4255K

Place : Guwahati
 Date : 14-07-2023


 (Shri Bibhu Bhuyan)
Managing Director
 DIN: 09525261


 (Smt. Nayana Das)
Company Secretary
 Membership No: FCS11044

Assam Power Generation Corporation Limited
Ind AS Balance Sheet as at March 31, 2023

Particulars	Notes	As on 31 st March 2023 (Rs. In Lakh)	As on 31 st March 2022 (Rs. In Lakh) Restated
ASSETS			
Non-current assets			
Property, plant and equipment	2	1,54,877.15	1,61,360.53
Capital work-in-progress	3	74,853.50	39,397.92
Other non-current assets	4	30,282.98	29,297.97
		2,60,013.63	2,30,056.42
Current assets			
Inventories	5	8,067.89	6,902.90
Financial assets			
Trade receivables	6(I)	40,130.44	15,325.90
Cash and cash equivalents	6(II)	8,900.72	6,466.31
Bank balances other than 6(ii) above	6(III)	62,552.39	75,487.38
Loans	6(IV)	93.11	5,906.39
Other financial assets	6(V)	(161.96)	(247.04)
Income tax assets (net)	6(VI)	435.33	311.12
Other current assets	7	4,556.43	5,423.16
		1,24,574.33	1,15,576.12
Total assets		3,84,587.96	3,45,632.54
<u>EQUITY AND LIABILITIES</u>			
Equity			
Equity share capital	8	2,42,871.30	45,585.98
Other equity	9	60,255.24	2,11,626.87
		3,03,126.54	2,57,212.84
Liabilities			
Non-current liabilities			
Financial liabilities			
Borrowings	10(I)	35,039.99	37,596.74
Deferred tax liabilities (Provision for MAT)	11(I)	2,776.47	5,378.04
Provisions	11(II)	11,436.91	11,006.31
Other non current liabilities	12	1,405.89	1,743.35
		50,659.26	55,724.43
Current liabilities			
Financial liabilities			
Borrowings	13(I)	3,927.21	4,836.99
Other financial liabilities	13(II)	269.27	944.93
Trade payables	13(III)	8,428.27	5,103.91
Other current liabilities	14	17,688.86	19,632.89
Provisions	15	488.55	2,176.55
		30,802.16	32,695.27
Total equity and liabilities		3,84,587.96	3,45,632.54

Summary of significant accounting policies

1

The accompanying notes are an integral part of the Ind AS financial statements.

As per our separate report of even date

For B.L. Purohit & Co.

Chartered Accountants

Firm Registration No. 0311056E

For and on behalf of

Assam Power Generation Corporation Limited

(Shri Niraj Verma, IAS)

Chairman

DIN: 00520742

(Shri Bibhu Bhuyan)

Managing Director

DIN: 09525261

(Shri Suresh Kaimal)

Chief Financial Officer

PAN: AECPK4255K

(Smt. Nayana Das)

Company Secretary

Membership No: FCS11044

Partner

Membership No.: 059631

UDIN: 23059631BGUVBY7487

Place :Guwahati

Date : 04.08.2023

Place : Guwahati

Date : 14-07-2023

Assam Power Generation Corporation Limited
Statement of changes in equity for the year ended March 31, 2023

a. Equity share capital :

(1) Current reporting period(F.Y. 2022-2023)

(Rs. In Lakh)

Balance at the beginning of the current reporting period i.e 01-04-2022	Changes in Equity Share Capital due to prior period errors	Restated balance at the beginning of the current reporting period	Changes in Equity Share Capital during the current year	Balance at the end of the current reporting period i.e 31-03-2023
45,585.98	-	-	1,97,285.33	2,42,871.30

(2) Previous reporting period(F.Y. 2021-2022)

Balance at the beginning of the previous reporting period i.e 01-04-2021	Changes in Equity Share Capital due to prior period errors	Restated balance at the beginning of the previous reporting period	Changes in Equity Share Capital during the previous year	Balance at the end of the previous reporting period i.e 31-03-2022
45,585.98	-	-	-	45,585.98

b. Other equity :

(1) Current reporting period(F.Y. 2022-2023)

(Rs. In Lakh)

Particulars	Reserves and Surplus				Total
	Capital reserve	Equity Pending Allotment	Retained earnings	Other items of Other Comprehensive Income(specify nature)	
Balance at the beginning of the current reporting period i.e 01-04-2022	3,201.85	1,97,285.33	11,139.69	-	2,11,626.87
Changes in Accounting policy or prior period errors	-	(0.00)	(311.12)	-	(311.12)
Restated balance at the beginning of the current reporting period 01-04-2022	3,201.85	1,97,285.33	10,828.57	-	2,11,315.75
Total Comprehensive Income for the current year	-	-	-	-	-
Transfer to retained earnings	-	-	9,220.65	-	9,220.65
Other adjustment	37,004.16	(1,97,285.33)	-	-	(1,60,281.17)
Balance at the end of the current reporting period i.e 31-03-2023	40,206.01	-	20,049.23	-	60,255.24


CFO
APGCL



Particulars	Reserves and Surplus				Total
	Capital reserve	Equity Pending Allotment	Retained earnings	Other items of Other Comprehensive Income(specify nature)	
Balance at the beginning of the previous reporting period i.e 01-04-2021	1,32,486.07	-	(11,336.92)	-	1,21,149.16
Changes in Accounting policy or prior period errors	-	-	163.36	-	163.36
Restated balance at the beginning of the previous reporting period	1,32,486.07	-	(11,173.56)	-	1,21,312.51
Total Comprehensive Income for the previous year	-	-	-	-	-
Transfer to retained earnings	-	-	20,656.36	-	20,656.36
Any other change(to be specified)	(1,29,284.22)	1,97,285.33	1,656.89	-	69,657.99
Balance at the end of the previous reporting period i.e 31-03-2022	3,201.85	1,97,285.33	11,139.69	-	2,11,626.87

As per our separate report of even date
For B.L. Purohit & Co.
Chartered Accountants
Firm Registration No. 0311056E


SUBHASH PUROHIT
Partner
Membership No.: 059631
UDIN: 23059631BGUVBY7487
Place : Guwahati
Date : 04.08.2023

For and on behalf of
Assam Power Generation Corporation Limited


(Shri Niraj Verma, IAS)
Chairman
DIN: 00520742


(Shri Suresh Kaimal)
Chief Financial Officer
PAN: AECPK4255K

Place : Guwahati
Date : 14-07-2023


(Shri Bibhu Bhuyan)
Managing Director
DIN:09525261


(Smt. Nayana Das)
Company Secretary
Membership No:FCS11044

ASSAM POWER GENERATION CORPORATION LTD.

CASH FLOW STATEMENT FOR THE YEAR ENDED 31st MARCH, 2023

<u>PARTICULARS</u>	<u>As on 31st March 2023</u> <u>(Rupees in Lakh)</u>	<u>As on 31st March 2022</u> <u>(Rupees in Lakh)</u>
A. CASH FLOW FROM OPERATING ACTIVITIES:		
Net Profit before Taxation	11,150.07	25,198.71
Adjusted for:		
Profit/Loss on Sale of Assets	-	-
Depreciation	-	-
Gratuity provision	9,964.91	8,460.14
Income from Fixed Deposit	-	-
Interest /Other Income	(2,823.14)	(2,676.24)
Capital Work in Progress written off	-	(1,467.23)
Interest & Other Charges	-	14,658.13
	4,260.37	2,729.43
	11,402.15	21,704.24
Operating profit before working capital changes	22,552.22	46,902.95
Change in Inventories	(1,164.99)	(1,168.74)
Change in Trade Receivable	(24,804.53)	(1,993.57)
Change in Short Term Loans & Advances	6,243.88	715.99
Change in Others Current Assets	12,607.43	122.11
Decrease in Loans & Advances	-	-
Change in Trade Payables	3,324.36	307.55
Change in Other Current Liabilities	(3,602.60)	(35,071.33)
Change in Short Term Provisions	(1,688.00)	523.89
Cash generated from operations	(9,084.45)	(36,564.10)
Tax expenses	13,467.77	10,338.85
Net Cash from Operating Activities	13,467.77	10,338.85
B. CASH FLOW FROM INVESTMENT ACTIVITIES :		
Purchases of Fixed Assets	(1,499.90)	(902.02)
Sale of Fixed Assets	-	-
Purchase of Investments	-	-
Sale of Investments	-	-
Capital Work in Progress	-	-
Income from Fixed Deposit	(35,455.58)	(14,883.37)
Interest/Other Income	(3,366.02)	(2,452.13)
	-	-
Net Cash Used in Investment Activities	(40,321.50)	(18,237.52)


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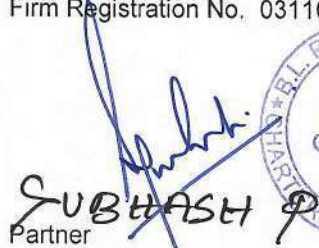
<u>PARTICULARS</u>	<u>As on 31st March 2023</u> <u>(Rupees in Lakh)</u>	<u>As on 31st March 2022</u> <u>(Rupees in Lakh)</u>
C. CASH FLOW FROM FINANCING ACTIVITIES :		
Proceeds from Share capital		
Proceeds from Long Term Borrowings	20,221.46	11,243.18
Repayment made towards loan	(4,836.99)	(4,590.21)
Interest & Other Charges	(4,249.49)	(3,031.73)
Proceeds from Grant towards capital assets	18,153.16	3,201.85
Net Cash Used in Financing Activities	29,288.14	6,823.10
Net Increase/Decrease in Cash and Cash Equivalents(A+B+C)	2,434.41	(1,075.57)
Opening Balance of Cash and Cash Equivalents	6,466.31	7,541.89
Closing Balance of Cash and Cash Equivalents	8,900.72	6,466.31

As per our separate report of even date

For B.L. Purohit & Co.

Chartered Accountants

Firm Registration No. 0311056E


SUBHASH PUROHIT
 Partner
 Membership No.: 059631
 UDIN: 23059631BGUV8Y7487
 Place :Guwahati
 Date : 04.08. 2023

For and on behalf of

Assam Power Generation Corporation Limited


 (Shri Niraj Verma, IAS)

Chairman

DIN: 00520742



 (Shri Suresh Kaimal)

Chief Financial Officer

PAN: AECPK4255K

Place : Guwahati

Date : 14-07-2023


 (Shri Bibhu Bhuyan)

Managing Director

DIN: 09525261


 (Smt. Nayana Das)

Company Secretary

Membership No:FCS11044

Note 1 - Significant Accounting Policies

A. Corporate Information

Assam Power Generation Corporation Limited ("the Company") is a public Company domiciled in India and incorporated under the provisions of the Companies Act applicable in India. The registered office of the Company is located at Bijulee Bhawan, Paltan Bazar, Guwahati, Assam - 781001.

The Company is engaged in the generation and sell of power having its manufacturing facility in the State of Assam.

B. Basis of preparation

The Ind AS financial statements of the Company have been prepared in accordance with the Indian Accounting Standards (Ind AS) notified under the Companies (Indian Accounting Standards) Rules, 2015 as amended and the provisions of the Electricity Act, 2003, to the extent applicable.

The Ind AS financial statements have been prepared on an accrual basis and under the historical cost convention. The Ind AS financial statements are presented in Indian Rupees in Lakh, except number of shares, face value of share, earning / (loss) per share or wherever otherwise indicated.

C. Current versus non-current classification

The Company presents assets and liabilities in the balance sheet based on current/non-current classification. An asset is treated as current when it is:

- Expected to be realised or intended to be sold or consumed in normal operating cycle
- Held primarily for the purpose of trading
- Expected to be realised within twelve months after the reporting period, or
- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period

All other assets are classified as non-current.

A liability is current when:

- It is expected to be settled in normal operating cycle
- It is held primarily for the purpose of trading
- It is due to be settled within twelve months after the reporting period, or
- There is no unconditional right to defer the settlement of the liability for at least twelve months after the reporting period

The Company classifies all other liabilities as non-current.

Deferred tax assets and liabilities are classified as non-current assets and liabilities.

The operating cycle is the time between the acquisition of assets for processing and their realisation in cash and cash equivalents. The Company has identified twelve months as its operating cycle.

D. Fair value measurement

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- In the principal market for the asset or liability, or
- In the absence of a principal market, in the most advantageous market for the asset or liability

The principal or the most advantageous market must be accessible by the Company.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset in its highest and best use.

All assets and liabilities for which fair value is measured or disclosed in the Ind AS financial statements are categorised within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole:


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- Level 1 — Quoted (unadjusted) market prices in active markets for identical assets or liabilities
- Level 2 — Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable
- Level 3 — Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable

The company has engaged external agencies for valuation and verification of Assets & inventory and the work is under progress. On completion of the valuation and verification process, fair valuation shall be taken up by APGCL.

E. Revenue recognition and other income

Revenue is recognized to the extent that it is probable that the economic benefits will flow to the Company and the revenue can be reliably measured, regardless of when the payment is being made.

The following recognition criteria described below must also be met before revenue is recognised:

Sale of goods

Revenue from sale of goods is recognized when all the significant risks and rewards of ownership of the goods have been passed to the buyer, usually on delivery of the goods. Revenue from sale of Power by Assam Power Generation Corporation Limited has been accounted for on the rate allowed in tariff ordered by Assam Electricity Regulatory Commission (AERC).

Revenue from services

Revenues from services are recognized as and when services are rendered.

Interest

Interest income of APGCL consists of interest earned on Fixed deposits made with various banks and the same is recorded using the balance confirmation provided by the respective banks. "Interest income" is included in "Finance income" in the statement of profit and loss.

Delay payment charges on customers

Delay payment charges are levied to APDCL in accordance to AERC Regulations and PPA and reflected in Other Income.

Dividends

Dividend income is recognized when the Company's right to receive dividend is established, which is generally when shareholders approve the dividend.

F. Government grants

Government grants are recognised where there is reasonable assurance that the grant will be received and all attached conditions will be complied with.

Revenue grants from GoA are recognized in the Profit & Loss Statement on a systematic and rational basis over the periods necessary to match them with the related costs.

Grants from ADB, though shown separately in the accounts are grants from the Govt. of Assam (who receives the fund from Central govt.), the borrower in terms of the loan agreement with ADB.

Government grants towards cost of capital assets are contribution of the owner (i.e., State Govt.) towards capital of the Company and these grants cannot be construed as meeting a portion of the capital cost and cannot be amortised in the books of accounts. Hence, Govt. Grants are recognised in 'Other equity'.

Upon conversion of GoA Loans and Grants into equity as on 31.03.2021 on Cabinet decision, the enhanced amount of equity was shown under the major head "Other Equity" as Equity pending allotment as on 31.03.2022 due to non-allotment of share certificates as on that date. However, upon approval from the Hon'ble BoD regarding enhancement of Equity Paid Up Capital in its 104th Board Meeting dated 28.03.2023, now the Equity base stands enhanced and is reflected in the Annual Accounts amounting to Rs. 242871.30 Lakhs from existing Rs. 45585.98 Lakhs.


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G. Taxes

Current income tax

Current income-tax is measured at the amount expected to be paid to the tax authorities in accordance with the Income-tax Act, 1961 enacted in India and tax laws prevailing in the respective tax jurisdictions where the Company operates. The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted, at the reporting date.

Current income tax relating to items recognised outside the statement of profit and loss is recognised outside the statement of profit and loss (either in other comprehensive income or in equity). Current tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

Deferred tax

Deferred tax is provided using the liability method on temporary differences between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes at the reporting date.

Deferred tax liabilities are recognised for all taxable temporary differences, except:

- When the deferred tax liability arises from the initial recognition of goodwill or an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable statement of profit and loss
- In respect of taxable temporary differences associated with investments in subsidiaries, associates and interests in joint ventures, when the timing of the reversal of the temporary differences can be controlled and it is probable that the temporary differences will not reverse in the foreseeable future

Deferred tax assets are recognised for all deductible temporary differences, the carry forward of unused tax credits and any unused tax losses. Deferred tax assets are recognised to the extent that it is probable that taxable profit will be available against which the deductible temporary differences, and the carry forward of unused tax credits and unused tax losses can be utilised, except:

- When the deferred tax asset relating to the deductible temporary difference arises from the initial recognition of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither the accounting profit nor taxable statement of profit and loss
- In respect of deductible temporary differences associated with investments in subsidiaries, associates and interests in joint ventures, deferred tax assets are recognised only to the extent that it is probable that the temporary differences will reverse in the foreseeable future and taxable profit will be available against which the temporary differences can be utilised

The carrying amount of deferred tax assets is reviewed at each reporting date and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred tax asset to be utilised. Unrecognised deferred tax assets are re-assessed at each reporting date and are recognised to the extent that it has become probable that future taxable profits will allow the deferred tax asset to be recovered.

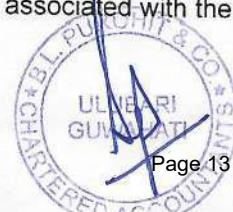
Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the year when the asset is realised or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted at the reporting date.

Deferred tax relating to items recognised outside the statement of profit and loss is recognised outside the statement of profit and loss (either in other comprehensive income or in other equity). Deferred tax items are recognised in correlation to the underlying transaction either in OCI or directly in other equity.

Deferred tax assets and deferred tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred taxes relate to the same taxable entity and the same taxation authority.

Deferred tax assets include Minimum Alternative Tax (MAT) paid in accordance with the tax laws in India, which is likely to give future economic benefits in the form of availability of set off against future income tax liability. Accordingly, MAT is recognised as deferred tax asset in the statement of financial position when the asset can be measured reliably and it is probable that the future economic benefit associated with the asset will be realised.


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H. Property, plant and equipment ('PPE')

The Company has elected to continue with the carrying value for all of its property plant and equipment as recognized in the financial statements as at the date of transition to Ind AS.

Property, plant and equipment are stated at cost, net of accumulated depreciation and accumulated impairment losses, if any. Capital work in progress is stated at cost net of impairment loss if any. Such cost includes the cost of replacing part of the property plant and equipment and borrowing costs, if the recognition criteria are met.

Depreciation for the period in respect of assets has been provided on straight line method as per clause 33.4 of the Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021 in terms of the provision of Schedule-II, Part "B" of Companies Act, 2013. Depreciation on addition of assets has been calculated on pro-rata basis.

<u>Assets Class</u>	<u>Rates of Depreciation</u>
Building	3.34%
Hydraulic	5.28%
Other civil works	3.34%
Plant & machinery	5.28%
Lines & cable network	5.28%
Vehicles – others	9.50%
Furniture & fixtures	6.33%
Office equipment	6.33%
Computers & Accessories	15.00%
Capital spare	5.28%

Residual value of Property, plant & equipment is taken as 10% of original cost.

The company has engaged external agencies for valuation and verification of Assets & inventory and they have submitted the report and the same is under evaluation by APGCL. On completion of the evaluation, fair valuation shall be taken up by APGCL.

As per the accounting policy followed by the Company, grants from Govt. of Assam towards cost of capital assets have not been reduced from the cost of assets but have been treated as 'Other Equity'. The depreciation pertaining to fixed assets constructed out of such grants towards cost of capital assets is charged. However, depreciation pertaining to fixed assets constructed out of consumer's contribution, subsidies is not charged. Presently the company is not in receipt of any consumer's contribution, subsidies till date.

Verification of Fixed Assets:

As per the requirement of Companies (Auditor's Report) Order 2016 (CARO), the company should frame a Policy for verification of fixed assets at reasonable intervals. In this regard, APGCL has framed a policy to verify its fixed assets at a span of every three (3) years.

I. Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of an asset that necessarily takes a substantial period of time to get ready for its intended use or sale are capitalized as part of the cost of the asset. All other borrowing costs are expensed in the period in which they occur. Borrowing costs consist of interest and other costs that an entity incurs in connection with the borrowing of funds. Borrowing cost also includes exchange differences to the extent regarded as an adjustment to the borrowing costs.

J. Leases

The determination of whether an arrangement is (or contains) a lease is based on the substance of the arrangement at the inception of the lease. The arrangement is, or contains, a lease if fulfilment of the arrangement is dependent on the use of a specific asset or assets and the arrangement conveys a right to use the asset or assets, even if that right is not explicitly specified in an arrangement.

For arrangements entered into prior to April 1, 2015, the Company has determined there are no arrangement contain lease on the basis of facts and circumstances existing on the date of transition.


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ULUSARI
GUWAHATI

Where the Company is lessee

A lease is classified at the inception date as a finance lease or an operating lease. A lease that transfers substantially all the risks and rewards incidental to ownership to the Company is classified as a finance lease.

Finance leases are capitalised at the commencement of the lease at the inception date fair value of the leased property or, if lower, at the present value of the minimum lease payments. Lease payments are apportioned between finance charges and reduction of the lease liability so as to achieve a constant rate of interest on the remaining balance of the liability. Finance charges are recognised in finance costs in the statement of profit and loss, unless they are directly attributable to qualifying assets, in which case they are capitalized in accordance with the Company's general policy on the borrowing costs. Contingent rentals are recognised as expenses in the periods in which they are incurred.

A leased asset is depreciated over the useful life of the asset. However, if there is no reasonable certainty that the Company will obtain ownership by the end of the lease term, the asset is depreciated over the shorter of the estimated useful life of the asset and the lease term.

Operating lease payments are recognised as a expense in the statement of profit and loss on a straight line basis over the period of the lease term, unless the payment to lessor and structured to increase in line with expected general inflation and compensate for the lessor's expected inflation cost increase.

Where the Company is the lessor

Leases in which the Company does not transfer substantially all the risks and rewards of ownership of an asset are classified as operating leases. Rental income from operating lease is recognised on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset and recognised over the lease term on the same basis as rental income. Contingent rents are recognised as revenue in the period in which they are earned.

Leases are classified as finance leases when substantially all of the risks and rewards of ownership transfer from the Company to the lessee. Amounts due from lessees under finance leases are recorded as receivables at the Company's net investment in the leases. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the net investment outstanding in respect of the lease.

K. Inventories

Inventories are valued at lower of cost or net realizable value. Net realizable value is the estimated selling price in the ordinary course of business, less estimated costs of completion and estimated costs necessary to make the sale.

Materials are issued to works at standard price. Issue of Standard Items is at Standard rates on FIFO basis. For Non-Standard Items receipt accounting is based on Basic Price + GST. Issue of Non-Standard Items is based on weighted average rate of previous month's closing balance. If there is no closing stock in the previous month, valuation of issue is based on the first receipt rate of the current month.

L. Impairment of non-financial assets

The Company assesses, at each reporting date, whether there is an indication that an asset may be impaired. If any indication exists, or when annual impairment testing for an asset is required, the Company estimates the asset's recoverable amount. An asset's recoverable amount is the higher of an asset's or cash-generating unit's (CGU) fair value less costs of disposal and its value in use. The recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. Where the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. In determining fair value less costs of disposal, recent market transactions are taken into account. If no such transactions can be identified, an appropriate valuation model is used. These calculations are corroborated by valuation multiples, quoted share prices for publicly traded companies or other available fair value indicators.


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The Company bases its impairment calculation on detailed budgets and forecast calculations, which are prepared separately for each of the Company's cash-generating units to which the individual assets are allocated. These budgets and forecast calculations generally cover a period of five years. For longer periods, a long-term growth rate is calculated and applied to project future cash flows after the fifth year. To estimate cash flow projections beyond periods covered by the most recent budgets/forecasts, the Company extrapolates cash flow projections in the budget using a steady or declining growth rate for subsequent years, unless an increasing rate can be justified. In any case, this growth rate does not exceed the long-term average growth rate for the products, industries, or country or countries in which the entity operates, or for the market in which the asset is used.

Impairment losses, including impairment on inventories, are recognized in the statement of profit and loss. The third-party consultants engaged by APGCL previously for "Reconciliation and Compilation of Financial and Technical records of CWIP and Consultation on preparation of Fixed Assets" have also reported on impairment of Fixed Assets consequent to Decommissioning of Phase I of LTPS and Units 1, 4 and 5 of NTPS. These Assets have been appearing in APGCL's Fixed Asset Register even after the decommissioning and hence the value of PPE under the head "Non-Current Assets" have continued to appear higher with corresponding impact in the depreciation charged over the years. The report from the Consultants is under evaluation and upon finalisation shall be considered for identification as Impairment losses in the Annual Accounts.

For assets, an assessment is made at each reporting date to determine whether there is an indication that previously recognised impairment losses no longer exist or have decreased. If such indication exists, the Company estimates the asset's or CGU's recoverable amount. A previously recognised impairment loss is reversed only if there has been a change in the assumptions used to determine the asset's recoverable amount since the last impairment loss was recognised. The reversal is limited so that the carrying amount of the asset does not exceed its recoverable amount, nor exceed the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognised for the asset in prior years. Such reversal is recognised in the statement of statement of profit and loss.

M. Provisions

General

Provisions are recognized when the Company has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. When the Company expects some or all of a provision to be reimbursed, for example, under an insurance contract, the reimbursement is recognised as a separate asset, but only when the reimbursement is virtually certain. The expense relating to a provision is presented in the statement of profit and loss net of any reimbursement.

If the effect of the time value of money is material, provisions are discounted using a current pre-tax rate that reflects, when appropriate, the risks specific to the liability. When discounting is used, the increase in the provision due to the passage of time is recognised as a finance cost.

N. Retirement and other employee benefits

Pursuant to the Transfer Scheme, the GoA vide Notification No.PEL.190/2004/69 dated 4th February, 2005 notified the plan for meeting the terminal benefit obligations of personnel transferred from ASEB to successor entities. As per Clause 1.5 of the said notification "Terminal Benefit" means the ASEB's employee related liabilities including payments of pension, gratuity, leave encashment and General Provident Fund and any other retirement benefits and applicable benefits including right to appropriate revisions in the above benefits consistent with the practice that were prevalent in ASEB:

Funding for past unfunded terminal liabilities

Funding for past unfunded terminal liabilities is on the basis of actuarial valuation done as at 30th September, 2012. The cash outflows towards past unfunded liabilities of existing employees, existing pensioners and existing family pensioners funded pattern will be guided by the aforesaid Govt. notification.

Funding for future services - Terminal Benefits

The company has made a provision for terminal liability for future service of its existing employees @33.50% of Basic plus DA as per AERC guidelines and in the line with the GoA's Notification mentioned above.


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Leave encashment benefit (LEB) of employees

Leave encashment benefit of the old employees are accounted on cash basis. LEB admissible to the employees are being paid by the Company and claim for recovery of the appropriate share of such fund (i.e. share of past liability) relating to period prior to 09.12.2004 is forwarded to the Pension Trust Authority as per GoA Notification mentioned here-in-above. During the period of service, the employees avail earned leave at various time as per their need as well as per due approval of the competent authority. The company has however made a provision of Rs. 2163.25 lakhs during FY 21-22 as per the recommendation of previous year's auditor. Upon further scrutiny during FY 22-23, it has been identified that APGCL has already made a provision comprising of an accumulated figure to cover expenses against LEB for past periods and is already in excess. Hence, it has been decided not to create any provision during FY 22-23.

It is also to be noted in this context that APGCL has initiated the process of Actuarial Valuation during FY 21-22 along with complying with the necessary formalities for approval and appointment of actuarial valuer to do the present valuation of the post-employment benefits obligations and the related current service cost of NPS employees which is under progress and the actuarial liability shall be determined upon completion of the entire process.

GPF deductions/payments of employees

Payments on account of GPF (Final Withdrawal and Non-refundable advance) to the existing employees are being made from the GPF Account of the Company. Claim for recovery of appropriate share of such fund (i.e. share of past unfunded liability) is forwarded to the Pension Trust authority as per GoA Notification mentioned above.

Provision for interest on GPF is on the basis of the following rates:

- i) 7.10% w.e.f 01.04.2021 to 30.06.2021
- ii) 7.10% w.e.f 01.07.2021 to 30.09.2021
- iii) 7.10% w.e.f 01.10.2021 to 31.12.2021
- iv) 7.10% w.e.f 01.01.2022 to 31.03.2022
- v) 7.10% w.e.f 01.04.2022 to 31.03.2023 applied on the average subscription of the employee.

Terminal benefit for new (appointed on or after 1.1.2004) employees

New Pension Scheme is being implemented for the new employees of the Company as per Government of India Notification No.5/7/2003-ECB & PR dated. 22.12.2003. The Company contributed 14% of Basic pay plus Dearness Allowance of the employees who fall under New Pension Scheme.

O. Earnings per Share

Basic earnings per share is calculated by dividing the profit/(loss) attributable to owners of the Company by the weighted average number of equity shares outstanding during the financial year, adjusted for bonus elements in equity shares issued during the year and excluding treasury shares.

Diluted earnings per share adjusts the figures used in the determination of basic earnings per share to take into account the after-income tax effect of interest and other financing costs associated with dilutive potential equity shares and the weighted average number of additional equity shares that would have been outstanding assuming the conversion of all dilutive potential equity shares.

P. Financial Instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

Financial assets

Initial recognition and measurement

All financial assets are recognised initially at fair value plus, in the case of financial assets not recorded at fair value through statement of profit and loss, transaction costs that are attributable to the acquisition of the financial asset. Purchases or sales of financial assets that require delivery of assets within a time frame established by regulation or convention in the market place (regular way trades) are recognised on the trade date, i.e., the date that the Company commits to purchase or sell the asset.

Subsequent measurement

For purposes of subsequent measurement, financial assets are classified as debt instruments at amortised cost.


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Debt instruments at amortised cost

A 'debt instrument' is measured at the amortised cost if both the following conditions are met:

- The asset is held within a business model whose objective is to hold assets for collecting contractual cash flows, and
- Contractual terms of the asset give rise on specified dates to cash flows that are solely payments of principal and interest (SPPI) on the principal amount outstanding.

After initial measurement, such financial assets are subsequently measured at amortised cost using the effective interest rate (EIR) method. Amortised cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the EIR. The EIR amortisation is included in finance income in the statement of profit and loss. The losses arising from impairment are recognised in the statement of profit and loss. This category generally applies to trade and other receivables.

Derecognition

A financial asset is primarily derecognised when:

- The rights to receive cash flows from the asset have expired, or
- The Company has transferred its rights to receive cash flows from the asset or has assumed an obligation to pay the received cash flows in full without material delay to a third party under a 'pass-through' arrangement; and either (a) the Company has transferred substantially all the risks and rewards of the asset, or (b) the Company has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

When the Company has transferred its rights to receive cash flows from an asset or has entered into a pass-through arrangement, it evaluates if and to what extent it has retained the risks and rewards of ownership. When it has neither transferred nor retained substantially all of the risks and rewards of the asset, nor transferred control of the asset, the Company continues to recognise the transferred asset to the extent of the Company's continuing involvement. In that case, the Company also recognises an associated liability. The transferred asset and the associated liability are measured on a basis that reflects the rights and obligations that the Company has retained.

Continuing involvement that takes the form of a guarantee over the transferred asset is measured at the lower of the original carrying amount of the asset and the maximum amount of consideration that the Company could be required to repay.

Impairment of financial assets

The Company recognizes loss allowances using the expected credit loss (ECL) model for the financial assets which are not fair valued through profit or loss. Loss allowance for trade receivables with no significant financing component is measured at an amount equal to lifetime ECL. The amount of expected credit losses (or reversal) that is required to adjust the loss allowance at the reporting date to the amount that is required to be recognized as an impairment gain or loss in statement of profit or loss.

Financial liabilities

Initial recognition and measurement

Financial liabilities are classified, at initial recognition, as financial liabilities at fair value through statement of profit and loss.

The Company's financial liabilities include trade and other payables, loans and borrowings.

Subsequent measurement

Financial liabilities are subsequently carried at amortized cost using the effective interest method, except for contingent consideration recognized in a business combination which is subsequently measured at fair value through profit or loss. For trade and other payables maturing within one year from the balance sheet date, the carrying amounts approximate the fair value due to the short maturity of these instruments

Financial guarantee contracts

Financial guarantee contracts issued by the company are those contracts that require a payment to be made by holding company to reimburse banks for a loss they incur because the Company fails to make a payment when due in accordance with the terms of a debt instrument. Financial guarantee contracts are recognised initially as contribution from shareholders under other equity at fair value, adjusted for transaction costs that are directly attributable to the issuance of the guarantee. This amount is adjusted from borrowings obtained by the Company. Borrowings are subsequently measured at amortised cost using the EIR method.


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De-recognition

A financial liability is derecognised when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the de-recognition of the original liability and the recognition of a new liability. The difference in the respective carrying amounts is recognised in the statement of statement of profit and loss.

Reclassification of financial instruments

The Company determines classification of financial assets and liabilities on initial recognition. After initial recognition, no reclassification is made for financial assets which are equity instruments and financial liabilities. For financial assets which are debt instruments, a reclassification is made only if there is a change in the business model for managing those assets. Changes to the business model are expected to be infrequent. The Company's senior management determines change in the business model as a result of external or internal changes which are significant to the Company's operations. Such changes are evident to external parties. A change in the business model occurs when the Company either begins or ceases to perform an activity that is significant to its operations. If the Company reclassifies financial assets, it applies the reclassification prospectively from the reclassification date which is the first day of the immediately next reporting period following the change in business model. The Company does not restate any previously recognised gains, losses (including impairment gains or losses) or interest.

Offsetting of financial instruments

Financial assets and financial liabilities are offset and the net amount is reported in the balance sheet if there is a currently enforceable legal right to offset the recognised amounts and there is an intention to settle on a net basis, to realise the assets and settle the liabilities simultaneously.

APGCL at first-time adoption did not, under its previous GAAP, recognise and measure a government loan at a below-market rate of interest on a basis consistent with Ind AS requirements, hence has used its previous GAAP carrying amount of the loan at the date of transition to Ind ASs as the carrying amount of the loan in the opening Ind AS Balance Sheet and thereon.

Q. Cash and cash equivalents

Cash and cash equivalent in the balance sheet comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less, which are subject to an insignificant risk of changes in value. For the purpose of the statement of cash flows, cash and cash equivalents consist of cash and short-term deposits, as defined above, net of outstanding bank overdrafts as they are considered an integral part of the Company's cash management.

R. Internal financial control

As per the existing accounting practice of the company, necessary procedures are being followed for internal control of various functions of APGCL. Accordingly, reconciliation of trade payables, trade receivables, various payments etc. are also being done regularly following all norms and regulations as laid down by the company and various statutory obligations. Further, the company has a separate Internal Audit Wing for periodic monitoring and reviewing of various processes undertaken by the company. The company has even adopted a policy on Internal Financial Control. For the Audit Committee to demonstrate that it has taken necessary steps to evaluate the Internal Financial Control systems, it may call for the comments of the Internal Auditors and the Statutory Auditors about the Company's Internal Control Systems, scope of audit, etc, as this would give them additional insights on the assessment of such controls. The Committee may, if required, also seek external help or expert advice and guidance for the evaluation of Internal Financial Controls.

This Policy shall be suitably amended, modified and improved to meet the changing business needs and in respect to any subsequent amendment/modification in the applicable laws in this regard.


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Assam Power Generation Corporation Limited
Notes to the Ind AS financial statements as at and for the year ended March 31, 2023

2. (a) Property, plant and equipment

Description	Land owned under full title	Leasehold loan	Building	Hydraulic	Other civil works	Plant & machinery	Lines & cable network	Vehicles	Furniture & fixtures	Office equipment	Roads on land belonging to others	Capital spares at generating stations	Total
GROSS BLOCK													
As on 1st April 2021	3,415.41	-	6,403.62	17,828.08	25,002.58	84,799.53	4,731.55	93.44	211.35	210.02	28.24	17,879.20	1,60,603.01
Adjustment / Reclassification	-	-	696.40	(1,673.31)	(855.00)	309.42	50.67	-	-	-	-	-	(1,471.82)
Additions during the year	12.63	-	18,754.17	-	10,556.92	60,831.99	1.53	-	20.61	28.41	-	2,327.15	92,533.40
Deductions during the year	-	-	-	-	-	-	-	-	-	-	-	-	-
As on 31st March 2022	3,428.03	-	25,854.19	16,154.77	34,704.49	1,45,940.94	4,783.75	93.44	231.96	238.43	28.24	20,206.35	2,51,664.59
As on 1.4.2022	3,428.03	-	25,854.19	16,154.77	34,704.49	1,45,940.94	4,783.75	93.44	231.96	238.43	28.24	20,206.35	2,51,664.59
Adjustment / Reclassification	-	-	-	-	-	-	-	-	-	-	-	-	-
Additions during the year	-	-	131.86	-	76.25	1,354.63	-	-	47.07	1,871.73	-	-	-
Deductions during the year	-	-	-	-	-	-	-	-	-	-	-	-	-
As on 31st March 2023	3,428.03	-	25,986.04	16,154.77	34,780.74	1,47,295.57	4,783.75	93.44	279.04	2,110.16	28.24	20,206.35	2,55,146.13
DEPRECIATION													
As on 1st April 2021	-	-	3,510.77	10,355.56	8,863.12	40,475.28	3,436.68	82.90	128.98	127.85	14.41	14,848.36	81,843.92
Adjustment / Reclassification	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation for the year	-	-	587.94	859.60	932.34	5,734.33	112.90	0.67	7.92	12.73	2.68	274.75	8,525.85
Deduction/ Adjustment during the year	-	-	(2.12)	(6.91)	(18.55)	(33.59)	(4.54)	-	-	-	-	-	(65.70)
As on 31st March 2022	-	-	4,096.59	11,208.25	9,776.90	46,176.02	3,545.05	83.57	136.90	140.59	17.09	15,123.10	90,304.06
As on 1.4.2022	-	-	4,096.59	11,208.25	9,776.90	46,176.02	3,545.05	83.57	136.90	140.59	17.09	15,123.10	90,304.06
Adjustment / Reclassification	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation for the year	-	-	783.00	852.89	1,084.43	7,023.86	109.40	0.67	9.79	100.88	-	-	9,964.91
Deduction/Adjustment during the year	-	-	-	-	-	-	-	-	-	-	-	-	-
As on 31st March 2023	-	-	4,879.59	12,061.14	10,861.33	53,199.88	3,654.45	84.24	146.69	241.47	17.09	15,123.10	1,00,268.97
NET BOOK VALUE													
As on 31st March 2023	3,428.03	-	21,106.46	4,093.62	23,919.41	94,095.70	1,129.29	9.20	132.35	1,868.69	11.15	5,083.25	1,54,877.15
As on 31st March 2022	3,428.03	-	21,757.60	4,946.52	24,927.59	99,764.92	1,238.70	9.87	95.06	97.84	11.14	5,083.25	1,61,360.53
As on 1st April 2021	3,415.41	-	2,892.84	7,472.51	16,139.46	44,324.26	1,294.87	10.54	82.37	82.17	13.83	3,030.84	78,759.10

It is to be mentioned here that the External Valuers appointed for Physical verification and Valuation of Fixed Assets has submitted their draft final report as on 30.11.22 which is in consonance with the Asset register maintained by APGCL. However, upon ERP implementation from 01.12.2022 onwards, addition of Fixed Assets are being maintained through SAP.

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(b) Additional Regulatory Information

i. Title deeds of immovable property not held in the name of the company

Relevant line item in Balance Sheet	Description of item property	Gross carrying value (Rs. In lakh)	Title deeds held in the name of	Whether the title deed holder is a promoter, director or relative of promoter/director or employee of promoter/director	Property held since which date	Reasons for not being held in the name of the company
Property Plant and Equipment (PPE)	Land: LTPS	475.15	LTPS	No	01.01.1981	APGCL being a successor of erstwhile ASEB, had acquired/was allotted the land in the name of ASEB and its related locations. Hence, after unbundling of ASEB the title deeds remained in the same names. The process of transfer of title deeds in the name of APGCL is initiated.
	Land: NTPS	726.60	ASEB, Namrup	No	04.01.1961	
	Land: Investigation Division	27.95	ASEB	No	01.04.1968	
	Land: Amguri	1401.71	ASEB	No	11.12.1990	
	Land: KLHEP	440.00	Govt. of Assam allotted	No	27.03.1980	
	Land: CTPS	193.36	CTPS, ASEB	No	31.03.1968	
	Land: Investigation Circle	142.85	ASEB	No	01.04.1968	
	Land: Dhansiri	20.41	DHEP	No	13.11.1986	

(ii) Land Dispute matters:

NTPS: The Company is in possession of a plot of land measuring 19 Bigha 1 Katha 15 Lecha under Dag no. 199 of Joypur Mauza which lying within the Namrup Thermal Power Station (NTPS) compound for more than 50 years. The land was exchanged with the nearby Dilli Tea Estate for equal quantity of land under dag no 125, 163, 164 and 126 of village Dilli tea estate Mauza Joypur for the convenient of both parties though mutual agreement. On verification in the circle office it is known that the land under the above Dag No. neither belongs to APGCL nor belongs to Dilli Tea estate. As such the matter could not be proceeded further for registration in the name of APGCL. No exchanged record of land is available either at Dilli Tea estate or at APGCL office. The matter is being pursued further with appropriate authority for a favourable settlement. The title deeds of land measuring 19 Bighas, 1 Katha & 15 Lechas at Namrup Thermal Power Station, Namrup hence is not in the name of the corporation and same is still persisting.

MSHEP: For implementation of MSHEP, 233 begha 1 katha & 5 lecha of land was handed over by Danka Circle to APGCL after payment of land allotment fee of Rs. 58313/- & at the time of handing over possession there was no intimation of adverse possession & no list of affected people was provided & question of land compensation was not raised. Later during implementation period section of local people of nearby areas have demanded land compensation from the project authority on the pleas that certain plot of land of the project belongs to them. After several correspondences made by APGCL, DC Karbi Anglong by a letter vide No. KGRA-224/2013/LA/33 dated 24.03.2014 informed APGCL that pattas were issued to certain individuals over the land allotted to APGCL by Karbi Anglong Autonomous Council after the order of allotment dated 21.09.2006 to APGCL in violation of provisions of revenue rules. The matter is currently subjudice. No provision against this probable land compensation is made in the account.


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3. CAPITAL WORK IN PROGRESS

(Rs. In lakh)

Particulars	As on 31.3.2021	As on 31.3.2022	As on 31.3.2023
Capital work in progress	1,35,260.15	39,397.92	74,853.50

Details of capital work in progress	As on 1st April 2021	Addition / (capitalised) during the year	As on 31st March 2022 (Restated)	Addition / (capitalised) during the year	As on 31st March 2023
ERP Software	1,151.62	96.05	1,247.67	(1,247.67)	-
Land owned under full title	17,281.63	778.45	18,060.08	4,378.80	22,438.88
Leasehold loan	-	-	-	-	-
Building	314.04	(234.49)	79.55	-	79.55
Hydraulic	-	-	-	-	-
Other civil works	55,282.61	(37,504.86)	17,777.74	30,313.13	48,090.87
Plant & machinery	60,388.39	(59,840.19)	548.20	310.32	858.52
Lines & cable network	841.87	842.82	1,684.68	1,700.81	3,385.49
Vehicles	-	-	-	-	-
Furniture & fixtures	-	-	-	-	-
Office Equipment	-	-	-	0.11	0.11
Total	1,35,260.15	(95,862.23)	39,397.92	35,455.58	74,853.50

It is to be noted that CWIP Land & Rights amounting to Rs. 22,438.88 lakhs and CWIP Building amounting to Rs. 79.55 lakhs, is associated with LKHEP project entirely. CWIP Land & Rights comprises of land acquisition cost and compensation cost. Since the approved land compensation to be discharged to the Project Affected Families (PAFs) has not been settled entirely as on 31.03.2023, the same has not been converted to Asset. Also as an earlier practice, until the project is commissioned and put to use, all costs associated with the project is not converted to Asset.

a. Capital work in progress ageing schedule

CWIP	Amount in CWIP for a period of				Total
	Less than 1 year	1-2 years	2-3 years	More than 3 years	
Projects in progress	37305.36	5211.80	2711.23	27058.17	72,286.56
Projects temporarily suspended	0.00	0.00	2500.82	66.12	2,566.94

b. Capital work in progress, whose completion is overdue

CWIP	Amount in CWIP for a period of				Total
	Less than 1 year	1-2 years	2-3 years	More than 3 years	
Nil	-	-	-	-	-

The above schedule showing Classification wise CWIP details has been reconciled with our Consultant, engaged for Technical and Financial reconciliation of Fixed Assets and CWIP upto 30.11.22. However, it is pertinent to note here that, they have submitted report showing details of expenses for each project. However, the total of expenses as provided in their report is in consonance with CWIP balance of that particular project as on 30.11.22. After ERP implementation from 01.12.2022 onwards, each and every addition on account of CWIP has been done through SAP.


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Assam Power Generation Corporation Limited
Notes to the Ind AS financial statements as at and for the year ended March 31, 2023

4. OTHER NON-CURRENT ASSETS (UNSECURED AND CONSIDERED GOOD UNLESS OTHERWISE STATED)*

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Advance to suppliers (Capital) Interest free	369.72	78.30
Advance to contractors (Capital) Advance to Capital Contractors - Interest Free	14,420.00	-
Others- Long Term Receivables		14,363.31
Receivables from ASEB Pension Trust	15,493.26	-
Total	30,282.98	29,297.97

Receivable includes proportion of unfunded liabilities to be received from the Pension Trust on account of GPF & LEB payment.
(i) Claim for recovery of appropriate share (72.04%) of GPF & (47.52%) of LEB as past unfunded liabilities receivable from Pension Trust as per GoA notification No.PEL.190/2004/69 dtd. 4-02-05. The details is given as follows : (in Rs. Lakh)

Receivable against GPF :	430.60
Receivable against LEB :	206.30
Total Receivable during the year	636.90

5. INVENTORIES (AT LOWER OF COST OR NET REALIZABLE VALUE)

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
1. Spare Parts	7,926.03	-
2. Prod Resource/Tool	1.40	-
3. Operating supplies	97.42	-
4. Raw Mat	3.49	-
5. Civil Mat	37.77	-
6. Fire & Safety Equip	1.78	-
7. Capital Stores and Spares	-	-
Fuel Stock	-	1.92
Capital Materials Stock A/c	-	9,285.06
Material Issues O&M	-	-
8. O&M Materials Stock A/c	-	371.25
9. Materials Stock Adjustments (Capital)	-	-
Materials Stock Adjustment (O&M)	-	-
Other Material Account	-	1,312.04
Material stock-Excess/Shortage pending investigation - Capital	-	-
Less: Provision against stock	-	(4,067.35)
Net Total	8,067.89	6,902.90

It is to be noted that upon transition from existing accounting software i.e., Tally ERP to SAP ERP from 01.12.2022 onwards the nomenclature of the existing components under head "Inventories" stands changed. There are no identifiable elements such as "Capital Stores" or "O&M Stores" which existed prior to implementation of ERP.

APGCL was allocated a provision against stock for Rs. 3203.05 Lakhs and other material account amounting to Rs. 1312.04 Lakhs as per the transfer scheme of APGCL. The company has engaged external agencies for valuation and verification of Assets & inventory and their report is under evaluation. Meanwhile, upon reconciliation of the head "Inventories" at the time of data migration into ERP as on 30.11.2022, the team of ERP Consultants has uploaded the Stock data at Actual basis on the basis of signed field level reports. Hence, the yearlong provision of Rs. 3203.05 Lakhs and Rs. 1312.04 Lakhs (allocated to APGCL as per transfer scheme) was automatically adjusted.

Shortages which were identified on physical verification of stocks as on 31.03.2022 and were booked under "Material Shortages pending investigation (Account code 2710000) has been adjusted as on 30.11.2022 upon reconciliation for the purpose of legacy data migration into ERP.


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6. CURRENT FINANCIAL ASSETS (CONSIDERED GOOD AND UNSECURED UNLESS OTHERWISE STATED)

(I). TRADE RECEIVABLES

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Receivables against sale of power - APDCL	40,130.44	15,325.90
Total	40,130.44	15,325.90
Break-up for security details :		
Trade receivables		
Trade Receivables considered good – Secured	-	-
Trade Receivables considered good – Unsecured	40,130.44	15,325.90
Trade Receivables which have significant increase in Credit Risk; and		
Trade Receivables – credit impaired	-	-
Total	40,130.44	15,325.90

It is to be noted that APDCL is our sole customer. All the power generated is sold to APDCL only.

a. Trade Receivables ageing schedule as at 31st March, 2023

Particulars	Outstanding for following periods from due date of payment					Total
	Less than 6 months	6 months-1 year	1-2 years	2-3 years	More than 3 years	
(i) Undisputed Trade Receivables-considered good	40,130.44	-	-	-	-	40,130.44
(ii) Undisputed Trade Receivables – which have significant increase in credit risk	-	-	-	-	-	-
(iii) Undisputed Trade Receivables – credit impaired						
(iv) Disputed Trade Receivables–considered good						
(v) Disputed Trade Receivables – which have significant increase in credit risk	-	-	-	-	-	-
(vi) Disputed Trade Receivables – credit impaired		-	-	-	-	-

b. Trade Receivables ageing schedule as at 31st March, 2022

Particulars	Outstanding for following periods from due date of payment					Total
	Less than 6 months	6 months-1 year	1-2 years	2-3 years	More than 3 years	
(i) Undisputed Trade Receivables-considered good	15,325.90	-	-	-	-	15,325.90
(ii) Undisputed Trade Receivables – which have significant increase in credit risk	-	-	-	-	-	-
(iii) Undisputed Trade Receivables – credit impaired						
(iv) Disputed Trade Receivables–considered good						
(v) Disputed Trade Receivables – which have significant increase in credit risk	-	-	-	-	-	-
(vi) Disputed Trade Receivables – credit impaired		-	-	-	-	-

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(II). CASH & CASH EQUIVALENTS

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Balances with banks:		
- On current accounts	8,826.32	6,398.80
- On cash credit facilities	-	-
- On deposit accounts with original maturity of less than three months*	-	-
Cash in hand	74.39	67.52
Total	8,900.72	6,466.31

(i) Balances with bank includes closing bank balance of HQ as well as of all field units along with the fund in transit.

(ii) Fixed Deposits with Banks includes closing balance of fixed deposit at various banks.

(iii) Cash in hand as on 31.03.2023 includes cash balance of Rs. 22,374 and Permanent Imprest and Temporary Imprest of Rs. 2,03,292 & Rs. 72,13,650 respectively.

(III). BANK BALANCES OTHER THAN (II) ABOVE

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
- On deposit accounts with remaining maturity of more than three months but less than 12 months *	62,552.39	75,487.38
Total	62,552.39	75,487.38

*Short-term deposits are made for varying periods of between one day and twelve months, depending on the immediate cash requirements of the Company and on interest at the respective short-term deposit rates.

For the purpose of the statement of cash flows, cash and cash equivalents comprise the following:

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Balances with banks:		
- On current accounts	8,826.32	6,398.80
- On cash credit facilities	-	-
- Deposits with remaining maturity of less than three months	-	-
Cash on hand	74.39	67.52
Total	8,900.72	6,466.31

(IV). LOANS (CONSIDERED GOOD AND UNSECURED UNLESS OTHERWISE STATED)

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Advances for O&M supplies/works	-	5,821.88
Loans and advances to staff	40.25	31.65
Advance Tax/Income Tax deducted at source	-	-
Amount Receivables from Employees/ Ex-employees/ Others	-	-
Loans And Advances to Related Parties	-	-
Deposits	-	-
Others	52.85	52.85
Total	93.11	5,906.39


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(V). OTHER FINANCIAL ASSETS (CARRIED AT AMORTIZED COST)

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Amount recoverable from Misc. Customers	104.30	-
Advance (to)/from APDCL	(266.26)	(271.38)
Advance (to)/from AEGCL	-	24.34
Total	(161.96)	(247.04)

(VI). INCOME TAX ASSETS (NET)

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Advance Income-tax	0.00	8.80
Income tax deducted at source-Income from Investments	275.51	250.94
Income tax deducted at source-Other Receipts	159.78	51.38
Tax Collected at Source	0.04	-
Total	435.33	311.12

7. OTHER CURRENT ASSETS (CONSIDERED GOOD AND UNSECURED UNLESS OTHERWISE STATED)

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Fuel related receivables & claims (Railway claims for coal)	747.91	747.91
Fuel related receivables & claims (OIL)	-	1,394.47
Other receivables	1,927.90	747.05
Receivables from ASEB Pension Trust	-	-
Prepaid expenses	298.94	133.30
Income accrued but not due	1,581.68	2,400.08
Deposits	-	0.35
Loan receivable from State Government	-	-
Total	4,556.43	5,423.16

Receivable from pension trust includes proportion of unfunded liabilities to be received from the Pension Trust on account of GPF & LEB payment. Claim for recovery of appropriate share of GPF & LEB as past unfunded liabilities receivable from Pension Trust as per GoA notification No.PEL.190/2004/69 dtd. 4-02-05. The details is given as follows :

Receivable against GPF : 770.12
Receivable against LEB : 273.60
Total Receivable during the year 1043.72


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8. EQUITY SHARE CAPITAL

Particulars	As on March 31, 2023		As on March 31, 2022	
	No. of shares	(Rs. In Lakh)	No. of shares	(Rs. In Lakh)
Authorised				
At the beginning of the year	100000000	1,00,000.00	100000000	1,00,000.00
Increase / decrease during the year	200000000	2,00,000.00	-	-
At the end of the year	300000000	3,00,000.00	100000000	1,00,000.00

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Issued, Subscribed and Fully Paid Up :		
24,28,71,300 equity share of Rs 100/- each	2,42,871.30	45,585.98
Total	2,42,871.30	45,585.98

a. Reconciliation of equity shares outstanding at the beginning and at the end of the period

Particulars	As at March 31, 2023		As at March 31, 2022	
	No. of shares	(Rs. In Lakh)	No. of shares	(Rs. In Lakh)
At the beginning of the year	45585975	45,585.98	45585975	45,585.98
Increase / decrease during the year	197285325	1,97,285.33	-	-
At the end of the year	242871300	2,42,871.30	45585975	45,585.98

b. Terms/ rights attached to Equity shares

The Company has only one class of equity shares having par value of Rs.100 per share. Each holder of equity shares is entitled to one vote per share. The Company declares and pays dividends in Indian rupees. The dividend proposed by the Board of Directors is subject to the approval of the shareholders at the ensuing Annual General Meeting (AGM). In the event of liquidation of the Company, the holders of equity shares will be entitled to receive remaining assets of the Company, after distribution of all preferential amounts, in proportion to the number of equity shares held by them.

c. Details of shareholders holding more than 5% shares in the company

Particulars	As at March 31, 2023		As at March 31, 2022	
	shares	% holding	No. of shares	% holding
Governor of Assam	242871292	99.99998	45585967	99.99998

As per records of the Company, including its register of shareholders/members and other declaration received from shareholders regarding beneficial interest, the above shareholding represent both legal and beneficial ownership of shares, unless stated otherwise.

d. Shares issued for consideration other than cash

Particulars	As at March 31, 2023	As at March 31, 2022
Aggregate number of shares issued for consideration other than cash during the period of five years immediately preceding the reporting date:	242871300	45585975


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9. OTHER EQUITY

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Equity Pending Allotment		
Equity Share Capital pending allotment		1,97,285
Capital Reserve*		
Capital Reserve	40,206.01	3,201.85
Total (A)	40,206.01	2,00,487.18
Surplus/(deficit) in the Statement of Profit and Loss		
Profit (Loss) as per last Balance Sheet	11,139.69	(11,173.56)
Other Adjustments	(311.12)	1,656.89
Profit (Loss) for the year	9,220.65	20,656.36
Net surplus/(deficit) in the Statement of Profit and Loss (B)	20,049.23	11,139.69
Total (A+B)	60,255.24	2,11,626.87

*Movement of Capital Reserve

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Grant from GoA -1(ADB Grant)		
At the beginning of the year	-	76,117.09
Accrual during the year	18,851.00	-
Released to the statement of profit and loss/ Equity share capital pending allotment	-	(76,117.09)
At the end of the year	18,851.00	-
Grant from GoA -2 (EAP Central Share)		
At the beginning of the year	3,201.85	51,000.09
Accrual during the year	18,153.16	3,201.85
Released to the statement of profit and loss/ Equity share capital pending allotment	-	(51,000.09)
At the end of the year	21,355.01	3,201.85
Grant from GoA-3(NABARD)		
At the beginning of the year	-	4,284.42
Accrual during the year	-	-
Released to the statement of profit and loss/ Equity share capital pending allotment	-	(4,284.42)
At the end of the year	-	-
Donated Capital Assets		
At the beginning of the year	-	1,084.48
Accrual during the year	-	-
Released to the statement of profit and loss/ Equity share capital pending allotment	-	(1,084.48)
At the end of the year	-	-

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10. FINANCIAL LIABILITIES

(I). BORROWINGS

Particulars	Rate of Interest (%)	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
SECURED			
Other parties - PFCL	9.00%-13.00%	33,269.53	37,196.74
Total (A)		33,269.53	37,196.74
UNSECURED			
From other parties - State Govt. (ADB)	10%	-	-
From other parties - State Govt. (GoA)	10%	1,770.46	400.00
Total (B)		1,770.46	400.00
Total (A+B)		35,039.99	37,596.74



Particulars	Terms of repayment and security
PFC Loan No. 62404001 (Rs. 18.28 Crs.)	Repayable in 60 structured quarterly installments starting from April 15, 2009 to January 15, 2024. PFC Loan No.62404001 is taken against hypothecation of future assets of R&M-II LTPS created out of the loan.
PFC Loan No. 62401001 (Rs. 165.45 Crs.)	Repayable in 60 structured quarterly installments starting from July 15, 2008 to April 15, 2023. PFC Loan No. 62401001 is taken against hypothecation of future assets of LWHRP created out of the loan.
PFC Loan No. 62401003 (Rs. 485 Crs.)	Repayable in 60 structured quarterly installments starting from October 15, 2018 to July 15, 2033. PFC Loan No. 62401003 is taken against hypothecation of future assets of NRPP created out of the loan.
GoA Loan	The Cabinet Meeting of the Government of Assam (GoA) held on 24.12.2021 approved the conversion of GoA Loan to APGCL as on 31st March'2021 into Equity. The financial sanctions are accorded for book adjustment with respect to conversion of GoA Loan into equity. Repayable in 10 structured annual installments. All the governing terms & conditions regarding loans from GoA are being governed by GoA OM No.BW.22/89/175 dtd.27-03-06 or as specified in different sanction orders for different loans. In case of default in repayment of instalment of Principal & Interest, Penal Interest @2.75% are charged above the normal rate of interest.

11. PROVISION

I. DEFERRED TAX LIABILITIES (PROVISION FOR MAT)

Particulars	As on 31-03-2023 (Rs. In Lakh)	As on 31-03-2022 (Rs. In Lakh) <u>Restated</u>
Provision for Minimum Alternate Tax	1,923.69	4,525.26
Provision for Deferred Taxes Liability (DTL)	852.78	852.78
Total	2,776.47	5,378.04

II. OTHER PROVISIONS

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) <u>Restated</u>
<u>Provision For Employees Benefits</u>		
Provision For Employees Benefits	11,436.91	11,006.31
Total	11,436.91	11,006.31

(i) Claim for recovery of appropriate share of GPF as past unfunded liabilities receivable from Pension Trust as per GoA notification No.PEL.190/2004/69 dtd. 4-02-05. The details is given as follows :

Receivable against GPF : Rs. In Lakh 430.60

12. OTHER NON CURRENT LIABILITIES

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) <u>Restated</u>
GPF	1,344.93	1,655.50
Others	60.96	87.85
Total	1,405.89	1,743.35


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13. FINANCIAL LIABILITIES

(I) BORROWINGS

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (in Rs.) Restated
Current Maturities of Long Term Debt		
Repayment due to State Govt. Loan	-	-
Repayment due to PFC Loan	3,927.21	4,836.99
Total	3,927.21	4,836.99

(II) OTHER FINANCIAL LIABILITIES

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (in Rs.) Restated
Interest accrued but not due on Borrowings	-	-
Interest accrued and due on Borrowings*	269.27	944.93
Total	269.27	944.93

* Interest accrued and due on borrowings includes :-

(a) State Govt Loan	41.10
(b) PFC Loan	228.17

(III). TRADE PAYABLES

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Total outstanding dues of micro and small enterprises	-	-
Total outstanding dues of creditors other than micro and small enterprises *		
Liabilities for Supply of Gas	8,405.46	4,833.20
Liabilities for Transportation of Gas	22.80	270.71
Total	8,428.27	5,103.91

* Terms and conditions of the above financial liabilities:

Trade payables are interest bearing and are normally settled on 15-30-day terms

For explanations on the companies credit risk management processes, refer note 28

a. Trade Payables ageing schedule: As at 31st March, 2023

Particulars	Outstanding for following periods from due date of payment				Total
	Less than 1 year	1-2 years	2-3 years	More than 3 years	
(i) MSME	-	-	-	-	-
(ii) Others	-	-	-	-	-
OIL	7,348.46	-	-	-	7,348.46
AGCL	586.62	-	-	-	586.62
GAIL	493.18	-	-	-	493.18
(iii) Disputed dues- MSME	-	-	-	-	-
(iv) Disputed dues- Others (AGCL)	-	-	-	-	-

b. Trade Payables ageing schedule: As at 31st March, 2022

Particulars	Outstanding for following periods from due date of payment				Total
	Less than 1 year	1-2 years	2-3 years	More than 3 years	
(i) MSME	-	-	-	-	-
(ii) Others	-	-	-	-	-
OIL	2,377.86	-	-	-	2,377.86
AGCL	2,048.57	-	-	-	2,048.57
GAIL	164.31	-	-	-	164.31
(iii) Disputed dues- MSME	-	-	-	-	-
(iv) Disputed dues- Others (AGCL)	113.71	-	-	399.45	513.16


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CHARTERED ACCOUNTANTS

14. OTHERS CURRENT LIABILITIES

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Provision For Employees Benefits		
Staff related gratuity provision (NPS)	2,370.81	1,915.48
Staff related LEB provision (NPS)	2,166.90	2,163.25
Salaries, wages, bonus	588.80	553.18
Employees' contribution & recoveries	149.13	41.07
Other Payables		
Deposits and retention from suppliers and contractors	6,001.25	9,711.63
Liabilities for capital supplies /works	1,288.18	768.19
Liabilities for supplies/works(O&M)	-	1,633.27
Other Liabilities	2,041.00	169.42
Advance (to) /from AEGCL	(29.46)	-
Staff Pension Fund (DCP)	-	86.87
Clearing Accounts	2,372.90	-
Liabilities to railways for Coal receipt	739.37	2,590.52
Total	17,688.86	19,632.89

15. PROVISION

Particulars	As on 31-03-2023 (Rs. In lakh)	As on 31-03-2022 (Rs. In Lakh) Restated
Provision for DA	43.38	-
Provision for Liability for Expenses	-	157.22
Liability for Pension to ASEB Pension Trust	-	47.95
Provision of Audit Fees	5.06	5.65
Provision for Building & other Construction workers welfare cess	4.14	4.94
Provision for Consultancy fees & expenses	22.55	27.31
Rates & Taxes Payable	413.42	370.12
Donations & Charities Payable	-	-
Other Professional Expenses Payable	-	7.36
Provision for Regulatory Liabilities	-	1,556.00
Total	488.55	2,176.55


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Assam Power Generation Corporation Limited

Notes to the Ind AS financial statements as at and for the year ended March 31, 2023

16. REVENUE FROM OPERATIONS

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Sale of products		
Gross Sale of Power to APDCL	1,11,107.74	41,697.12
Fuel Price Adjustment (FPA)	28,674.97	7,272.31
Total Revenue from operations	1,39,782.70	48,969.43

17. OTHER INCOME

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Rebate for timely payment	3.33	3.51
Misc. receipts	178.65	257.32
Rentals from staff quarters	1.89	2.00
Other Income from trading	273.87	85.68
Sale of scrap	137.69	-
Sundry credit balances written back	-	1,467.23
NPS Contribution of deceased employee	68.54	-
Total	663.97	1,815.74

18. FINANCE INCOME

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Interest		
Interest on Investment (Fixed Deposit)	2,823.14	2,676.24
Interest from Banks (other than interest on fixed deposits)	2.23	2.51
Rebate received for timely payment of dues of loans, interest, etc.	89.86	44.73
Total	2,915.23	2,723.49

19. COST OF MATERIALS CONSUMED

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Indigenous		
Gas consumption	97,415.37	24,858.83
Lubricants and consumable stores	447.78	364.23
Total	97,863.15	25,223.06


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20. EMPLOYEE BENEFITS EXPENSES

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Salaries	5,084.99	5,413.36
Overtime	258.08	150.52
Dearness Allowance	1,680.40	1,345.70
Other Allowances	799.66	941.68
Bonus	10.96	18.54
Sub Total	7,834.09	7,869.80
Less:-Employees cost capitalised	-	415.46
Total Salaries and Wages	7,834.09	7,454.34
Contribution to provident and other funds	1,580.12	1,584.37
Total contribution to provident and other funds	1,580.12	1,584.37
Medical expenses reimbursement	11.50	15.09
Leave travel concession (L.T.C)	3.01	1.22
Earned leave encashment.	231.48	2,430.78
Other Staff Cost	19.96	78.90
Capacity building expenses	21.69	19.93
Staff Welfare	31.19	20.47
Total Staff Welfare Expenses	318.82	2,566.39
Employees Cost towards CFP	31.36	
TOTAL:	9,764.39	11,605.10

Contribution to Provident and Other Funds' includes, 33.50% of Pay and DA of employees who joined in service prior to 01-01-2004 and 14% of Pay and DA of employees who joined in service after 01-01-2004.

21. OTHER EXPENSES

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Manufacturing Expenses		
Repair and Maintenance of Plant and Machinery	7,473.11	1,589.50
Repair and Maintenance of Building	526.48	294.66
Repair and Maintenance of Hydraulic Works	282.72	440.58
Repair and Maintenance of Civil Works	404.79	201.72
Repair and Maintenance of Lines, Cable Net Works etc	0.03	37.06
Repair and Maintenance of Vehicles	0.78	0.54
Repair and Maintenance of Furniture and Fixures	15.14	7.43
Repair and Maintenance of Office Equipment	10.37	7.58
Sub total (A)	8,713.42	2,579.08
Establishment Expenses		
Rent Rates and Taxes	91.22	441.95
Insurance	538.42	330.85
Telephone Charges,	7.39	8.68
Postage.Telegram& Tele Charges	0.99	1.17
Cost Audit Fees	0.57	0.47
Legal charges	29.63	5.32
Statutory & Tax Audit Fee	5.23	4.69
Consultancy charges	42.92	146.26
Technical Fee	-	3.77
Other Professional Charges	64.45	8.94
Conveyance and Travel	94.17	34.36

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Vehicle hiring and running expenses	297.61	267.34
Advertisement	23.72	12.04
Printing and stationary	24.41	15.11
Other administrative expenses	54.18	52.18
Freight	-	0.02
Board Meeting expenses	16.82	8.72
Electricity Charges	-	301.00
Other misc. expenses	50.54	42.95
Contribution to Charities	110.90	-
CSR	-	-
Fees paid to AERC	192.00	160.02
Less:- Administration and General Expenses capitalised	-	(6.78)
Other Purchase related expenses	0.46	
Sub Total (B)	1,645.61	1,839.07
Other expenses		
Infructuous capital expenditure written off	-	14,658.13
Shortages on physical verification of material stocks	-	864.31
Sub Total (C)	-	15,522.44
Total (A+B+C)	10,359.03	19,940.59

22. DEPRECIATION AND AMORTIZATION EXPENSE

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Building	783.00	585.82
Hydraulic	852.89	852.69
Other civil works	1,084.43	913.79
Plant & machinery	7,023.86	5,700.74
Lines & cable network	109.40	108.36
Vehicles	0.67	0.67
Furniture & fixtures	9.79	7.92
Office equipment	100.88	12.73
Roads on land belonging to others	-	2.68
Capital spares at generating stations	-	274.75
Total	9,964.91	8,460.14

23. FINANCE COSTS

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs. In Lakh	Rs. In Lakh Restated
Interest Expenses		
Interest on State Govt. Loan	40.00	-
Interest on State Govt. Loan - Penal Interest	1.10	-
Interest on PFC Loan	4,102.30	4,138.08
Interest on GoA (ADB) Loan	-	-
Interest on GPF	106.08	144.74
Less: Interest Capitalised	-	1,812.69
Total	4,249.49	2,470.13
Other Borrowing Costs		
Bank charges	10.88	259.30
Other Costs	-	-
Total	10.88	259.30
Total	4,260.37	2,729.43

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24. Basic Earning/(Loss) per share ('EPS')

Basic EPS amounts are calculated by dividing the profit/(loss) for the year attributable to equity holders of the company by the weighted average number of Equity shares outstanding during the year.

Diluted EPS amounts are calculated by dividing the profit/(loss) attributable to equity holders of the Company by the weighted average number of Equity shares outstanding during the year plus the weighted average number of Equity shares that would be issued on conversion of all the dilutive potential Equity shares into Equity shares.

The following reflects the profit/(loss) and share data used in the basic and diluted EPS computations:

Particulars	For the year ended March 31, 2023	For the year ended March 31, 2022
	Rs.	Rs. Restated
Net profit/(loss) for calculation of basic and diluted EPS (Rs.)	92,20,65,309	2,06,56,35,746
Total number of equity shares outstanding at the end of the year	24,28,71,300	4,55,85,975
Weighted average number of equity shares in calculating basic and diluted EPS	24,28,71,300	4,55,85,975
Basic and diluted EPS (Rs.)	3.80	45.31

25. Note on Re-statement of Financial Statement

A. During the Financial Year 2022-23, the Company has restated its financial statement for the FY 2021-22 & earlier years for prior period years retrospectively in Compliance to Ind AS 8 - Accounting Policies, Changes in Accounting Estimates & Errors. The said restatements are due to reasons that are reported and commented by the Statutory/CAG auditors and other such errors.

B. Impact of the rectification are as follows:

1. The amount of correction at the beginning of earliest period i.e. on 01-04-2021

Other Equity increased by Rs.1839.36 Lakhs as on 01-04-2021

Tax Liability increased by Rs. 578.21 Lakhs

2. FY 21-22

In complying with the comments of CAG auditors whereby they stated that depreciable assets which were derecognized to the extent of interest capitalized earlier, the corresponding depreciation amount ₹ 7.37 crore charged on those assets should also have been written back, depreciation over provided previously has been accounted in FY 22-23, resulting in the Profit before taxes to increase by 65.70 Lakhs as on 31-03-2022.

Current tax liability increased by Rs. 11.37 Lakhs.


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26. DISCLOSURE OF SIGNIFICANT ACCOUNTING JUDGEMENTS, ESTIMATES AND ASSUMPTIONS

The preparation of the Company's financial statements requires management to make judgements, estimates and assumptions that affect the reported amounts of revenues, expenses, assets and liabilities, and the accompanying disclosures, and the disclosure of contingent liabilities. Uncertainty about these assumptions and estimates could result in outcomes that require a material adjustment to the carrying amount of assets or liabilities affected in future periods.

Judgements, estimates and assumptions

The judgements and key assumptions concerning the future and other key sources of estimation uncertainty at the reporting date, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year, are described below. The Company based its judgements, assumptions and estimates on parameters available when the financial statements were prepared. Existing circumstances and assumptions about future developments, however, may change due to market changes or circumstances arising that are beyond the control of the Company. Such changes are reflected in the assumptions when they occur.

Taxes

Deferred tax assets are recognized for unused tax losses to the extent that it is probable that taxable profit will be available against which the losses can be utilized. Significant management judgement is required to determine the amount of deferred tax assets that can be recognized, based upon the likely timing and the level of future taxable profits together with future tax planning strategies.

The Company is having history of losses and unabsorbed depreciation that may not be used to offset taxable income. The Company does not have any tax planning opportunities available that could partly support the recognition of these losses as deferred tax assets. On this basis, the Company has determined that it cannot recognize deferred tax assets on the tax losses carried forward and unabsorbed depreciation.

Fair value measurement of financial instruments

When the fair values of financial assets and financial liabilities recorded in the balance sheet cannot be measured based on quoted prices in active markets, their fair value is measured using valuation techniques including the DCF model. The inputs to these models are taken from observable markets where possible, but where this is not feasible, a degree of judgement is required in establishing fair values at each reporting date. Judgements include considerations of inputs such as liquidity risk, credit risk and volatility. Changes in assumptions about these factors could affect the reported fair value of financial instruments.

27. FAIR VALUES

The Company assessed that cash and cash equivalents, trade receivables, other bank balances, trade payables, fixed rate borrowings, current maturity of long term borrowings, interest accrued but not due on borrowings, interest accrued but due on borrowings, dues payable towards purchase of property, plant and equipment, vehicles loan, security deposit, loan to employees, loans and advances etc. approximate their carrying amounts largely due to the short-term maturities of these instruments.

The fair value of the financial assets and liabilities is included at the amount at which the instrument could be exchanged in a current transaction between willing parties, other than in a forced or liquidation sale.

28. FINANCIAL RISK MANAGEMENT OBJECTIVES AND POLICIES

The Company's principal financial liabilities, comprise trade and other payables. The main purpose of these financial liabilities is to finance the Company's operations and to provide guarantee to support its operations. The Company's principal financial assets include loans, trade and other receivables, and cash and cash equivalents that derive directly from its operations.

The Company is exposed to market risk, credit risk and liquidity risk. The Company's senior management oversees the management of these risks and also ensure that the Company's financial risk activities are governed by appropriate policies and procedures and that financial risks are identified, measured and managed in accordance with the Company's policies and risk objectives.

The Board of Directors reviews and agrees policies for managing each of these risks, which are summarized below:


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Market risk

Market risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises of interest rate risk. Financial instruments affected by market risk include deposits.

The sensitivity analysis in the following sections relate to the position as at March 31, 2023 and March 31, 2022

The sensitivity analysis have been prepared on the basis that the amount of net debt, the ratio of fixed to floating interest rates of the debt are all nearly constant at March 31, 2023 and March 31, 2022

The analysis exclude the impact of movements in market variables on: the carrying values of gratuity and other post-retirement obligations, provisions.

The sensitivity of the relevant profit and loss item is the effect of the assumed changes in the respective market risks. This is based on the financial assets and financial liabilities held as of March 31, 2023 and March 31, 2022.

a. Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Company's exposure to the risk of changes in market interest rates relates primarily to the long-term debt obligations with floating interest rates.

Interest rate sensitivity

The following table demonstrates the sensitivity to a reasonably possible change in interest rates on that portion of loans and borrowings affected. With all other variables held constant, the Company's profit/(loss) before tax is affected through the impact on floating rate borrowings, as follows:

(Rs. In Lakhs)

Particulars	Increase / decrease in basis points	Effect on profit before tax
March 31, 2023		
INR	+50 bps	(204)
INR	-50 bps	204
March 31, 2022		
INR	+50 bps	(355)
INR	-50 bps	355

The assumed movement in basis points for the interest rate sensitivity analysis is based on the currently observable market environment, showing a significantly higher volatility than in prior years.

b. Credit risk

Credit risk is the risk that counter party will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. The Company is exposed to credit risk from its operating activities (primarily trade receivables) and from its financing activities, including deposits with banks and financial institutions and other financial instruments.

Trade receivables

Customer credit risk is managed subject to the Company's established policy, procedures and control relating to customer credit risk management. Credit quality of a customer is assessed based on individual credit limits are defined in accordance with this assessment. The entire sale of the company is made to APDCL (A Govt. of Assam company).

Financial instruments and cash deposits

Credit risk from balances with banks and financial institutions is managed by the Company's treasury department in accordance with the Company's policy. Investments of surplus funds are made in deposits only with approved banks/mutual funds/commercial papers and within limits assigned to each bank by the Company.


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Liquidity risk

Liquidity risk is the risk that the Company will encounter in meeting the obligations associated with its financial liabilities that are settled by delivering cash or another financial asset. The approach of the Company to manage liquidity is to ensure, as far as possible, that these will have sufficient liquidity to meet their respective liabilities when they are due, under both normal and stressed conditions, without incurring unacceptable losses or risk damage to their reputation.

The Company monitors its risk of a shortage of funds through fund management exercise at regular intervals.

The table below summarizes the maturity profile of the Company's financial liabilities based on contractual undiscounted payments.

(Rs. In Lakh)						
As at March 31, 2023	On demand	Less than 1 year	1 to 3 years	3 to 5 years	> 5 years	Total
Other financial liabilities						
Interest accrued and due on borrowings	269.27	-	-	-	-	269.27
Interest accrued and not due on borrowings	-	-	-	-	-	-
Trades and other payables*						
Trades payables (including dues payable towards purchase of property, plant and equipment)	-	8,428.27	-	-	-	8,428.27

As at March 31, 2022	On demand	Less than 1 year	1 to 3 years	3 to 5 years	> 5 years	Total
Other financial liabilities						
Interest accrued and due on borrowings	944.93	-	-	-	-	944.93
Interest accrued and not due on borrowings	-	-	-	-	-	-
Trades and other payables*						
Trades payables (including dues payable towards purchase of property, plant and equipment)	-	5,103.91	-	-	-	5,103.91

*Trade payables are interest bearing and are normally settled in 15-30 days terms, however as per terms of agreements with certain vendors, the credit period may extend beyond normal terms.

29. CAPITAL AND OTHER COMMITMENTS

(Rs. In Lakh)		
Particulars	As at March 31, 2023	As at March 31, 2022
Estimated amount of contracts remaining to be executed on capital account and not provided for (net of advances)	1,35,237.76	1,68,598.50


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30. CONTINGENT LIABILITIES / LITIGATIONS :

(I) MSHEP: For implementation of MSHEP, 233 begha 1 katha & 5 lecha of land was handed over by Danka Circle to APGCL after payment of land allotment fee of Rs. 58313/- & at the time of handing over possession there was no intimation of adverse possession & no list of effected people was provided & question of land compensation was not raised. Later during implementation period section of local people of nearby areas have demanded land compensation from the project authority on the pleas that certain plot of land of the project belongs to them. After several correspondences made by APGCL, DC Karbi Anglong by a letter vide No. KGRA-224/2013/LA/33 dated 24.03.2014 informed APGCL that pattas were issued to certain individuals over the land allotted to APGCL by Karbi Anglong Autonomous Council after the order of allotment dated 21.09.2006 to APGCL in violation of provisions of revenue rules. The matter is currently subjudice. No provision against this probable land compensation is made in the account.

(II) The case of Raj Kumar Das vs APGCL & Ors. MS 282/2017 wherein the respondent instituted the case on account of non payment on the part of APGCL for executed civil works-Piling etc. for construction of Data Centre of APDCL which is under judicial consideration and subject to settlement. Hence the probable financial implications is due to arise and has not been considered in this accounts.(estimated financial risk Rs. 10,534,894.73)

(III) The case of M/S Sarda Eco Power Ltd. Vs APGCL Arb. Ref. No. 1/2020 instituted by the respondent in respect of various claims from APGCL against the EPC Contract for implementation of MSHEP which is subject to Award to be passed by the Arbitral Tribunal and hence no provision has been made in the accounts of this financial year.(estimated financial risk Rs. 63,37,43,921)

(IV) The case of M/S P Das & Company Money Execution (Arbitration) 77/2020 wherein the plaintiff moved court for settlement of various claims against the work originally awarded relating to Engineering, Procurement and Construction of Lungnit Small Hydro Electric Power Stage I (2x1.5 MW) and Stage II (2x1.5 MW) including Civil, Electro-Mechanical and Hydro Mechanical Works arising as a result of their termination from the Contract by APGCL due to non completion and negligence on the part of the respondent. However the matter is subjudice and hence no provision is created.(estimated financial risk involvement Rs. 121,80,50,880.59)

(V) The case of Hasting Teron & 78 Ors vs The State of Assam & 8 Ors. W.P.(C) No. 5228/2020 was instituted for settlement of claims relating to land compensation and premium by 79 Project Affected Families against land acquisition by APGCL covering 144.72 Hectares included in both Karbi Anglong and Dima Hasao district along the river Kopili for the implementation of Lower Kopili Hydro Electric Project. The total numbers of affected households are 1831, out of which 231 affected households belong to the Karbi Anglong Autonomous Council (KAAC) region. The petition was filed in terms of the estimate of land compensation submitted by the KAAC under the Land Acquisition Act, 2013. However, the status of the case is still subjudice and hence no provision can be made before there is a final judgement.(estimated financial risk involvement Rs. 68,94,82,267)

(VI) The case of Pranab Kumar Baruah vs State of Assam & 14 Ors. WP(C) 948/2013 wherein the respondent moved the court for failure to secure Appointment to the services of APGCL as Sahayak in 2012 whereas similar appointment was given to other candidates and financial loss resulted thereof to him. This matter is under judicial consideration and no final verdict has been given. Hence no provision arises in this context.(estimated financial risk involvement Rs. 25,42,603)

(VII) The case of Bubul Baruah & 25 Ors vs State of Assam & 35 Ors. WA 183/2018 wherein the respondent moved the court for failure to secure Appointment to the services of APGCL as Sahayak whereas similar appointment was given to other candidates and financial loss resulted thereof to him since Oct'2011. This matter is under judicial consideration and no final verdict has been given. Hence no provision arises in this context.(estimated financial risk involvement Rs. 7,85,99,638)

(VIII) The case of Khargeswar Narzary & 17 Ors. Vs State of Assam & 2 Ors. WA 50/2019 wherein the respondent moved the court for their reinstatement to the services of APGCL as Sahayak w.e.f. 2002 on account of their termination from service on the ground of being contractual workers associated with BHPCL for implementation of the KLHEP as a result of the termination of their contract with APGCL. However they asserted of being the regular employees and is to be absorbed by APGCL which resulted in their financial loss. This matter is however under judicial consideration and no final verdict has been given. Hence no provision arises in this context.(estimated financial risk involvement Rs. 4,16,86,920)

(IX) The case of Ram Mohan Singha vs APGCL & 3 Ors. WP(C) 2420/2013 wherein the respondent filed case against APGCL for financial loss suffered from Dec 2011 to Aug 2013 due to non consideration of his case for promotion to the post of L.D.A. from Sahayak whereas another incumbent in the same post was given promotion. However the financial liabilities cannot be confirmed before final judgement and thus no provision can be made in this account.(estimated financial risk involvement Rs. 1,86,236)

31. CAPITAL MANAGEMENT

For the purpose of the Company's capital management, capital includes issued equity capital, share premium and all other equity reserves attributable to the equity holders of the Company. The primary objective of the Company's capital management is to maximize the shareholder value.


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The Company manages its capital structure and makes adjustments in light of changes in economic conditions and the requirements of the financial covenants, if any. To maintain or adjust the capital structure, the Company may adjust the dividend payment to shareholders, return capital to shareholders or issue new shares. The Company monitors capital using a gearing ratio, which is net debt divided by total capital plus net debt. The Company policy is to keep gearing ratio between 20% to 40%. The Company includes within net debt, interest bearing loans and borrowings, less cash and cash equivalents.

Particulars	(Rs. In Lakh)		
	As at March 31, 2023	As at March 31, 2022	As at March 31, 2021
Borrowings (refer note 10 & 13(II))	38967.20	42433.73	99411.57
Less: Cash and cash equivalents (refer note 6(II))	8900.72	6466.31	7541.89
Net debt	30066.48	35967.42	91869.68
Equity share capital (refer note 8)	242871.30	45585.98	45585.98
Other equity (refer note 9)	60255.24	211626.87	121312.51
Capital and net debt	333193.02	293180.26	258768.17
Gearing ratio	9%	12%	36%

32. SEGMENT INFORMATION

The Company is primarily engaged in a single business segment of manufacture and sale of power and hence this is the only reportable primary business segment. Since the entire sales of the Company are affected in the domestic market, there is only one reportable geographical segment i.e. India.

There are no revenues from transactions with a single external customer amounting to 10 per cent or more of an entity's revenues during the current and previous year.

33. DEFERRED TAX ASSET

The Company has deferred tax assets (primarily representing unabsorbed depreciation and losses under income tax law) in excess of deferred tax liabilities. In the absence of virtual certainty that sufficient future taxable income would be available against which such deferred tax assets can be realized, the Company has not recognized the net deferred tax assets.

34. The Company has earned a Profit/(Loss) of Rs.9,220.65 (lakh) (Rupees nine thousand two hundred twenty point six five lakh) for the year ended March 31, 2023 (March 31, 2022: Rs. 20,656.36 lakh) (Rupees twenty thousand six hundred fifty six point three six lakh) and its net current assets stands at Rs. 93,772.17 (lakh) (Rupees ninety three thousand seven hundred seventy two point one seven lakh) as at March 31, 2023 (March 31, 2022: Rs.82,880.85 lakh) (Rupees eighty two thousand eight hundred eighty point eight five lakh).

As per our separate report of even date

For B.L. Purohit & Co.

Chartered Accountants

Firm Registration No. 0311056E



SUBHASH PUROHIT.

Partner

Membership No.: 059631

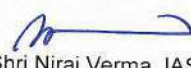
UDIN: 23059631B6UUBVY7487

Place : Guwahati

Date : 04.08.2023


For and on behalf of

Assam Power Generation Corporation Limited


 (Shri Niraj Verma, IAS)

Chairman

DIN: 00520742



 (Shri Suresh Kaimal)

Chief Financial Officer

PAN: AECPK4255K


Place : Guwahati

Date : 14-07-2023


 (Shri Bibhu Bhuyan)

Managing Director

DIN: 09525261


 (Smt. Nayana Das)

Company Secretary

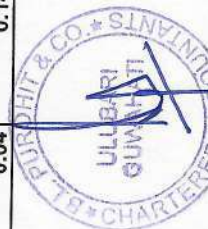
Membership No: FCS11044

35 Ratio analysis of APGCL for the year ended 31st March, 2023

Sl. No	Ratio Analysis	Numerator	As on 31-03-2023 (Rs. In Lakh)	As on 31-03-2022 (Rs. In Lakh)	Denominator	As on 31-03-2023 (Rs. In Lakh)	As on 31-03-2022 (Rs. In Lakh)	Ratio as at March 31, 2023	Ratio as at March 31, 2022
1	Current Ratio	Current Assets Inventories Trade receivables Cash and cash equivalents Bank balances Loans Other financial assets Income tax assets (net) Any other current assets	8,067.89 40,130.44 8,900.72 62,552.39 93.11 (161.96) 435.33 4,556.43 1,24,574.32	6,902.90 15,325.90 6,466.31 75,487.38 5,906.39 (247.04) 311.12 5,423.16 1,15,576.12	Current Liabilities Borrowings Other financial liabilities Trade payables Other current liabilities Provisions	3,927.21 269.27 8,428.27 17,688.86 488.55 30,802.16	4,836.99 944.93 5,103.91 19,632.89 2,176.55 32,695.27		3.53
2	Debt Equity Ratio	Total Liabilities Borrowings Repayment due to PFC Loan Repayment due to State Govt. Loan	35,039.99 3,927.21 - 38,967.20	37,596.74 4,836.99 - 42,433.73	Shareholder's Equity Equity share capital Equity Share Capital pending allotment	2,42,871.30 - 2,42,871.30	45,585.98 1,97,285.33 2,42,871.30		0.17
3	Debt Service Coverage Ratio	Earnings available for debt service Net Profit/ (Loss) before exceptional items Depreciation expenses Finance costs	9,220.65 9,964.91 4,260.37 23,445.94	20,656.36 8,460.14 2,729.43 31,845.94	Total Debt Service Finance costs (interest) Installment	4,260.37 3,927.21 8,187.58	2,729.43 4,836.99 7,566.42		4.21
4	Return on Equity Ratio	Profit for the period Net Profit after taxes - preference dividend (if any)	9,220.65 9,220.65	20,656.36 20,656.36	Avg. Shareholders Equity (Beginning shareholders' equity + Ending shareholders' equity) ÷ 2	2,42,871.30 2,42,871.30	1,44,228.64 1,44,228.64	0.04	0.14

(Signature)

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5	Inventory Turnover Ratio	Cost of Goods sold (Opening Stock + Purchases) – Closing Stock	NA	NA	Average Inventory (Opening Stock + Closing Stock)/2	NA	NA	NA	NA
6	Trade Receivables Turnover Ratio/ Average Accounts Receivable Ratio	Net Credit Sales Annual Revenue from operations on credit:	1,39,782.70	48,969.43	Average Trade Receivables (Beginning Trade Receivables + Ending Trade Receivables) / 2	27,728.17	12,713.12	5.04	3.85
7	Accounts receivable ratio in months	No. of months in a year	12	12	Trade Receivables Turnover Ratio/ Average Accounts Receivable Ratio	5.04	3.85	2.38	3.12
8	Trade Payables Turnover Ratio	Total Purchases Annual Cost of raw materials consumed - other than lubricants	97,415.37	24,858.83	Average Trade Payables (Beginning Trade Payables + Ending Trade Payables) / 2	6,766.09	4,950.13	14.40	5.02
9	Net Capital Turnover Ratio	Net Sales Total Sales - Sales Return	1,39,782.70	48,969.43	Average Working Capital Current Assets - Current Liabilities	93,772.16	82,880.85	1.49	0.59
10	Net Profit Ratio	Net Profit Profit After Tax	9,220.65 9,220.65	20,656.36 20,656.36	Net Sales	1,39,782.70	48,969.43	0.07	0.42
11	Return on Capital employed	EBIT Profit before Interest and Taxes	15,410.43	27,746.17	Capital Employed Average of net fixed assets (excl. effect of revaluation of fixed assets) plus non-current investment and net current assets existing at the beginning of the year and close of the year.	2,46,445.35	1,60,187.45	0.06	0.17
12	Return on Investment	Return/Profit/Earnings	NA	NA	Investment	NA	NA	NA	NA


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36. Disclosure as per Ind AS-24 "Related party Disclosure"

a. Whole Time Directors:

Sri Bibhu Bhuyan	Managing Director
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b. Parent Entities

The Governor of Assam holds 99.98% ownership interest in APGCL including and as on March 31, 2023.

Particulars	As on 31-03-2023	As on 31-03-2022
Purchase or sales of Goods or services	Nil	Nil
Other transaction		
Dividend		

c. Key Managerial Personnel:

- Sri Bibhu Bhuyan, Managing Director.
- Sri Suresh Kaimal: Chief Financial Officer.
- Smti Nayana Das: Company Secretary

d. Key Managerial Personnel's Remuneration:

Particulars	Salary & Allowances, Contribution to PF and other benefits	
	As on 31-03-2023	As on 31-03-2022
Sri Sanjeeva Kumar, Chairman (ceased on 22.11.2022)	Rs. 13,23,158	Rs. 6,54,471
Sri Bibhu Bhuyan, MD	Rs. 27,92,000	Rs. 2,23,600
Smti Kalyani Baruah, MD	NA	Rs. 6,03,600
Sri Suresh Kaimal, CFO(from 28.03.23)	Rs. 10,616	NA
A K Safiquz Zaman, CFO(ceased on 28.03.23)	Rs.12,51,529	Rs. 11,50,662
Smti Nayana Das, CS	Rs. 20,58,591	Rs.16,65,679
Total:	Rs. 74,35,894	Rs. 42,98,012

e. Transaction with Related Parties:

Particulars	As on 31-03-2023(in lakhs)	As on 31-03-2022(in lakhs)
Sales and purchase of goods and services	Nil	Nil
sale of goods to associates		
purchase of raw materials from associates		
purchase of various goods and services from entities controlled by key management personnel	Nil	Nil
Professional services		
Other transactions		
Loans and outstanding balances		


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37. Operational Performance:

The operational performance of the company is detailed in Annexure-A.

38. Disclosures vide notification No.GSR 719(E) of Ministry of Corporate Affairs dated 16-11-07:

Outstanding amount to fuel suppliers of APGCL as on 31-03-2023 in rupees Lakh is as tabulated below –

Supplier	Outstanding principal (Rs. In Lakh)	Total (Rs. In Lakh)
OIL	7348.46	7348.46
GAIL	493.18	493.18
AGCL	586.62	586.62

There are no suppliers in APGCL who fall under Micro, Small & Medium Enterprises Development Act, 2006.

39. The enhancement in Equity base amounting to Rs. 197285.32 Lakhs as a result of Conversion of Grants and Loans from GoA to APGCL into equity as on 31.03.2021 was shown against "Equity pending allotment" under head "Other Equity" as on 31.03.2022 due to the limit of existing ceiling of Authorised Capital. However, upon approval by the BoD in its 95th Board Meeting regarding enhancement of Authorised Share Capital and consequent approval by the BoD in its 104th Board Meeting dated 28.03.2023 regarding enhancement of Equity Paid up Capital to the extent of conversion, the present Equity base stands at Rs. 242871.30 Lakhs from existing Rs. 45585.98 Lakhs.

40. In the Tariff Order passed by AERC on 21st March 2022, the Commission has approved an amount of Rs.32.32 Crore as revenue surplus which needs to be adjusted with APDCL. This surplus however was to be refunded to APDCL in twelve equal monthly installments of Rs. 2.69 Crore in FY 22-23 as adjustment in the monthly bills. The revenue surplus of Rs. 32.32 Crore needed to be billed in FY 22-23 (from April'22 to March'23) as per the Hon'ble AERC's order. However, the provision for reversion of Revenue surplus after truing up for F.Y. 2020-21 amounting to Rs. 32,32,00,000/- was made during FY 21-22 itself. Consequently, upon Audit by the CAG on the Annual Accounts for FY 21-22, the Error of Principal was identified and hence on the basis of the comments from the CAG the accounting entry is reversed in the current FY 22-23.

41. Certain Staff quarters at KLHEP are occupied by a battalion of CRPF for which rental income is taken on cash basis in accounts due to uncertainty and irregularity of receipt of rent. Hence although bills are raised, accounting is done as and when received.

With respect to army units occupied at LTPS, rent and electricity dues are being paid by DC Charaideo to LTPS as and when they have sufficient fund and hence taken on cash basis in accounts due to uncertainty and irregularity of receipt. Hence although bills are raised, accounting is done as and when received.

42. During the FY, a debit note is issued to APDCL towards Delayed Payment Surcharge for Rs. 8.58 Lakhs in line with PPA and AERC Regulations.

43. In respect of Gratuity to the employees who fall under NPS, a provision has been made in the Accounts for an amount of Rs. 455.32 Lakhs.

Leave encashment benefit (LEB) of employees under NPS are entitled at the time of retirement/ superannuation of the employee. During the period of service, the employees avail earned leave at various time as per their need as well as per due approval of the competent authority. Since the company has already made an accumulated provision of Rs. 2163.25 lakhs which also relates to past periods during FY 21-22 itself as per the recommendation of previous year's (FY 20-21) auditor, no such provision is created during this FY.


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However, APGCL has also initiated to do the present valuation of the post employment benefits obligations and the related current service cost of NPS employees through Actuarial Valuation of the same. The necessary formalities for approval and appointment of actuarial valuer to do the actuarial valuation of APGCL's liability for DCRG & LEB has already been initiated during FY 21-22 which is under process and hence the actuarial liability shall be determined thereafter. It is pertinent to note here that APGCL has made provision for Gratuity arising during FY 22-23 in its Annual Accounts.

44. APGCL has appointed M/S R.K. Patel & Company, Registered Valuers, for the purpose of Valuation of its Property, Plant and Equipment during 2020-2021 and they have submitted draft reports already which is under evaluation and expected to be completed within coming financial year. Hence, no revaluation has been done during this Financial Year.

45. APGCL does not hold any Benami property under the Benami Transactions (Prohibition) Act, 1988(45 of 1988) and thus no proceedings have been either initiated or pending against the Company.

46. APGCL has not declared dividend during the F.Y. 2022-2023.

47. Details of remuneration to Auditors:

Particulars	Amount including GST (in Rs.)
Statutory Audit Fee	3,92,645.00
Cost Audit Fee	54,280.00
Tax Audit	59,000.00
Total	5,05,925.00

Out of pocket expenses to be settled at extra on actual figures.

48. Inventories have been taken at actuals as on 31.03.23 which is reflected in the SAP ERP since the ERP Consultants have reconciled the Stock data for the purpose of data migration as on 30.11.2022 on the basis of signed reports (PVR) submitted by field offices.

49. Provision has been made for land revenue arrear against land of NTPS for FY 2022-2023 amounting to Rs.43,97,133/- as per letter no. DRC-79/85/207 dated 28.11.2022 from the Addl. Dy. Commissioner (R), Dibrugarh.

50. Provision has been made for Arrear Compassionate Family Pension payable in respect of 1 no. of claimant Smt. Kalpana Das amounting to Rs. 3,65,000/-.

51. Since the accounting software interface has been changed from Tally Prime to SAP based ERP from 01.12.2022 onwards, which accepts accounting entries on the dates when the bills are raised irrespective of the period to which the bill relates. As a matter of fact, the invoices relating to the Sale of Power (SoP) and Fuel Vendors (OIL, GAIL & AGCL) for the month of Mar'23 shall be taken in the system during Apr'23 (i.e., FY 23-24) against earlier practice of including both the "Receivables against SoP" and "Trade Payables" for March in the month of March itself. As a result of transition into the new system there shall be short accounting for one month and therefore a Provision is created considering the actual Receivables and Liabilities for Mar'23 respectively, which shall be reversed during FY 23-24.

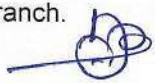
52. Value of imports calculated on C.I.F. basis:

Value of imports calculated on C.I.F. basis incurred during FY 2022-23 on import of Capital goods is Rs. NIL.

53. Expenditure in foreign currency:

The Expenditure in foreign currency incurred during FY 2022-23 on import of capital goods is Rs. Nil/-.

54. An amount of Rs.3,00,00,000/- was sanctioned as overdraft by pledging fixed deposit of Rs.3,00,00,000/- with State Bank of India, New Guwahati Branch.


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Details of Fixed Deposits held as margin money or security against borrowing, guarantee, other commitment:

Sl.No	Purpose	Bank	Amount (in Rs.)
1	LC against GAIL	State Bank of India	8,96,00,000.00
2	BG against Guwahati High Court	HDFC Bank	36,00,000.00
3	LC against M/S Andritz Hydro Ltd.	Punjab National Bank	242,48,28,890.00
4	LC against M/s Wartsilla Global Logistics Services	ICICI Bank	70,95,618.00
5	LC against M/s Wartsilla Global Logistics Services	ICICI Bank	93,35,670.00
6	LC against M/s Wartsilla Global Logistics Services	ICICI Bank	2,40,00,000.00
7	LC against M/s Wartsilla Global Logistics Services	HDFC Bank	4,78,26,000.00
8	LC against M/S VOITH HYDRO	HDFC Bank	4,29,75,161.00
	Total:		264,92,61,339.00

55. The Company prepares Bank Reconciliation Statement regularly for each bank a/c in its name.

56. Number of employees who are in receipt of emoluments aggregating to Rs.60,00,000/- per annum or Rs.5,00,000/- per month as per Companies (Particulars of Employees) Rules, 1975 is **NIL**.

57. Net worth of APGCL for past three financial years has been tabled as under (in Lakhs):

Sl. No.	Particulars	2020-21 (Rs. in Lakhs) (restated)	2021-22 (Rs. in Lakhs) (restated)	2022-23 (Rs. in Lakhs)
	Paid Up Share Capital	45585.98	45585.98	242871.30
	Reserve & Surplus (Before adjustment of Accumulated loss/profit):	129848.37	23858.21	49426.66
Less:	Capital Reserve:	132486.07	3201.85	40206.01
Less:	Accumulated loss/profit:	(8699.21)	(9516.67)	10828.57
	Net Worth:	34249.07	56725.67	262920.52

58. It is to be noted that in the draft reports submitted by our External Valuers appointed for the purpose of Verification and Valuation of Fixed Assets, they have mentioned existence of assets in APGCLs Fixed Asset Register (FAR) which are not physically available. However, since the draft reports are under review and is yet to be accepted by the Board of APGCL, the necessary changes shall be given effect upon acceptance.

As per our separate report of even date
For B.L. Purohit & Co.
Chartered Accountants
Firm Registration No. 0311056E


SUBHASH PUROHIT
Partner

Membership No.: 059631
UDIN : 230596318GUVB7487

Place : Guwahati
Date : 04.08.2023


For and on behalf of
Assam Power Generation Corporation Limited


(Shri Niraj Verma, IAS)
Chairman
DIN:00520742


(Shri Suresh Kaimal)
Chief Financial Officer
PAN: AECPK4255K

Place : Guwahati
Date : 14-07-2023


(Shri Bibhu Bhuyan)
Managing Director
DIN:09525261


(Smt. Nayana Das)
Company Secretary
Membership No: FCS11044

ASSAM POWER GENERATION CORPORATION LIMITED

ANNEXURE - A

OPERATIONAL PERFORMANCE

Sl. No.	Particulars	2021-22	2022-23
(1)	(2)	(3)	(4)
1	Installed Capacity (MW)		
	(a) Thermal		
	(b) Hydel		
	(c) Gas	110.70	113.5
	Total	284.60	306.97
		395.30	420.47
2	Power Generated (MU)		
	(a) Thermal		
	(b) Hydel		
	KLHEP	407.251	475.779
	MSHEP	33.103	56.644
	(c) Gas		
	NTPS	157.096	192.855
	NRPP	490.561	442.225
	LTPS	406.522	540.522
	LRPP	510.114	505.406
	Total Generation (MU)	2004.646	2213.430
3	Auxiliary Consumption (MU)		
	(a) Hydel		
	KLHEP	2.036	2.379
	MSHEP	0.331	0.566
	(b) Gas		
	NTPS	8.935	10.958
	NRPP	22.294	14.820
	LTPS	38.311	41.704
	LRPP	11.322	8.009
	Total Auxiliary Consumption (MU)	83.229	78.436
4	Total power available for sale (MU)	1921.417	2134.994
5	Power sold (MU)	1921.417	2134.994
6	Units generated per MW of installed capacity (in Lakh unit)	50.7	52.6
7	Plant Load Factor (%)		
	(a) Thermal		
	(b) Hydel		
	KLHEP	46.00%	54.31%
	MSHEP	35.99%	47.90%
	(c) Gas		
	NTPS	37.05%	58.91%
	NRPP	80.55%	52.19%
	LTPS	45.76%	61.99%
	LRPP	84.59%	84.35%
8	Percentage of generation to installed capacity		
	(a) Thermal		
	(b) Hydel		
	(c) Gas	45.41%	53.55%
		62.74%	62.51%
9	Fuel		
	a) Gas Consumption (MMSCM)		
	NTPS	86.390	102.80
	NRPP	108.138	136.27
	LTPS	102.926	131.33
	LRPP	118.009	116.86
	b) Average calorific value of Gas (Kcal/SCM)		
	NTPS	9196	9221
	NRPP	9196	9221
	LTPS	9704	9853
	LRPP	9270	9217
	c) Gas Consumption per unit of generation (in SCM/Kwh)		
	NTPS	0.5499	0.5330
	NRPP	0.2204	0.3082
	LTPS	0.2532	0.2430
	LRPP	0.2313	0.2312

[Signature]
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Annexure-3: Statutory Audit Report

INDEPENDENT AUDITORS' REPORT

TO THE MEMBERS OF ASSAM POWER GENERATION CORPORATION LIMITED

"Report on the Audit of the Standalone Financial Statements"

1. Opinion

We have audited the accompanying standalone financial statements of ASSAM POWER GENERATION CORPORATION LIMITED ("the company") which comprises the Balance Sheet as at March 31, 2023, the Statement of Profit and Loss (including other comprehensive income), statement of changes in equity and statement of cash flows for the year then ended, and notes to the standalone financial statements, including a summary of significant accounting policies and other explanatory information (hereinafter referred to as "the standalone financial statements").

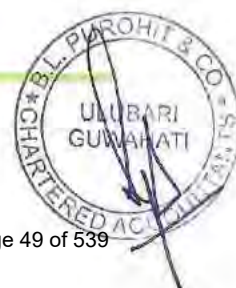
In our opinion and to the best of our information and according to the explanations given to us, except for the possible effects of the matter described in the Basis for Qualified Opinion paragraphs, the aforesaid standalone IND-AS financial statements give the information required by the Companies Act 2013 ("Act") in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Company as at March 31, 2023, and its profit, total comprehensive income, the changes in equity and cash flows for the year ended as on that date.

2. Basis for Qualified Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) specified under section 143(10) of the Companies Act, 2013. Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Companies Act, 2013 and the Rules thereunder, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. Our observations on which our opinion is based have been attached as per **Annexure C**. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion on the standalone Ind-AS financial statements.

3RD FLOOR, B BLOCK, K K TOWER, ULUBARI, GUWAHATI, ASSAM, PIN:781007

TELEPHONE: 0361-2460203, Email:blpurohit.co@gmail.com, <https://blpurohitandco.in/>



3. Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters. Reporting of key audit matters as per SA 701, Key Audit Matters are not applicable to the Company as it is an unlisted company.

4. Other Information

The Company's Board of Directors is responsible for the preparation of the other information. The other information comprises the information included in the Board's Report including Annexures to Board's Report, Business Responsibility Report but does not include the standalone financial statements and our auditor's report thereon.

Our opinion on the standalone financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the standalone financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the standalone financial statements or our knowledge obtained during the course of our audit or otherwise appears to be materially misstated.

If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report the fact. We have nothing to report in this regard.

5. Responsibility of Management for the Standalone Financial Statements

The Company's board of directors is responsible for the matters stated in section 134 (5) of the Act with respect to the preparation of these financial statements that give a true and fair view of the financial position, financial performance including other comprehensive income, cash flows and changes in equity of the Company in accordance with the Indian Accounting Standards (Ind AS) prescribed under section 133 of the Act read with the Companies (Indian Accounting Standards) Rules, 2015 and Companies (Indian Accounting Standards) Rules, 2016, as amended from time to time, and other accounting principles generally accepted in India.

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This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

The Board of Directors is also responsible for overseeing the company's financial reporting process.

6. Auditor's Responsibility for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from

fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances. Under section 143(3)(i) of the Companies Act, 2013, we are also responsible for expressing our opinion on whether the company has adequate internal financial controls system in place and the operating effectiveness of such controls
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

Materiality is the magnitude of misstatements in the standalone financial statements that, individually or in aggregate, makes it probable that the economic decisions of a reasonably knowledgeable user of the standalone financial statements may be influenced. We consider quantitative materiality and qualitative factors in (i) planning the scope of our audit work and in evaluating the results of our work; and (ii) to evaluate the effect of any identified misstatements in the standalone financial statements.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the

current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

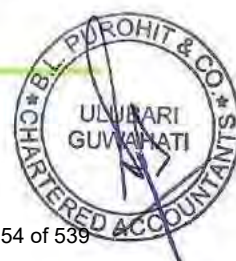
7. Report on other legal and regulatory requirements

1. As required by the Companies (Auditor's Report) Order, 2020 ("the Order") issued by the Central Government of India in terms of sub-section (11) of section 143 of the Companies Act, 2013, we give in the **Annexure "A"** a statement on the matters specified in paragraphs 3 and 4 of the Order, to the extent applicable.
2. As required by section 143 (3) of the Act, we report that:
 - a. We have sought and except for the matters described in the **Basis for Qualified Opinion** paragraph, obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
 - b. Except for the possible effects of the matter described in the **Basis for Qualified Opinion** paragraph above, in our opinion proper books of account as required by law have been kept by the company so far as it appears from our examination of those books (and proper returns adequate for the purposes of our audit have been received from branches not visited by us)
 - c. Except for the possible effects of the matter described in the **Basis for Qualified Opinion** paragraph above, the Balance Sheet, the Statement of Profit and Loss and Cash Flow statement dealt with by this report are in agreement with the books of account (and with the returns received from branches not visited by us)
 - d. Except for the possible effects of the matter described in the **Basis for Qualified Opinion** paragraph above, in our opinion, the aforesaid standalone financial statements comply with the Accounting Standards specified under section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014.
 - e. In terms of MCA Notification dated 05.06.2015 under section 462 of the Companies Act, 2013, provisions relating to disqualification of directors for five years under section 164(2) of the act are not applicable to Government Companies.

- f. The qualification relating to the maintenance of accounts and other matters connected therewith are as stated in the **Basis for Qualified Opinion** paragraph.
- g. With respect to the adequacy of the internal financial controls over financial reporting of the Company and the operating effectiveness of such controls, refer to our separate report in "**Annexure-B**". Our report expresses an opinion on the adequacy and operating effectiveness of the Company's internal financial controls over financial reporting.
- h. With respect to the other matters to be included in the Auditor's Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us :
- i) The company has not disclosed the impact, if any, of pending litigations on its financial position in its financial statement.
 - ii) The company does not have any long term contracts including derivative contracts for which it was required to make provisions for material foreseeable losses.
 - iii) There were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Company.
 - iv) a. the management has represented that, to the best of its knowledge and belief, other than as disclosed in the notes to the accounts, no funds have been advanced or loaned or invested (either from borrowed funds or share premium or any other sources or kind of funds) by the company to or in any other person(s) or entity(ies), including foreign ("Intermediaries"), with the understanding, whether recorded in writing or otherwise, that the Intermediary shall, whether, directly or indirectly lend or invest in other persons or entities identified in any manner whatsoever by or on behalf of the company ("Ultimate Beneficiaries") or provide any guarantee, security or the like on behalf of the Ultimate Beneficiaries;
b. The management has represented, that to the best of its knowledge and belief, other than as disclosed in the notes to the accounts, no funds have been received by the company from any person(s) or entity(ies), including foreign entities ("Funding Parties"), with the understanding, whether recorded in writing or otherwise, that the company shall, whether, directly or indirectly, lend or invest in other persons or entities identified in any manner whatsoever by or on behalf of the Funding Party ("Ultimate Beneficiaries") or provided any guarantee, security or the like on behalf of the Ultimate Beneficiaries; and

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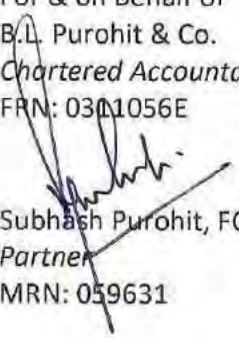
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- c. Based on audit procedure which we considered reasonable and appropriate in the circumstances, nothing has come to our notice that has caused us to believe that the representations under sub – clause (a) and (b) contain any material mis-statement.
- v) The company has not declared or paid any dividend during the year in contravention of the provisions of section 123 of the Companies Act, 2013.
- i. With respect to the matter to be included in the Auditors' Report under section 197 (16) of the Act, in our opinion and according to the information and explanations given to us, the limit prescribed by section 197 for maximum permissible managerial remuneration is not applicable to a government company as per Notification dated 05.06.2015 issued by Ministry of Corporate Affairs.
- j. Proviso to Rule 3(1) of the Companies (Accounts) Rules, 2014 for maintaining books of account using accounting software which has a feature of recording audit trail (edit log) facility was applicable to the Company with effect from April 1, 2022 which was subsequently extended to April 1 2023, and accordingly, reporting under Rule 11(g) of Companies (Audit and Auditors) Rules, 2014 is not applicable for the financial year ended March 31, 2023.
3. As required under section 143 (5) of the Companies Act 2013, we give in **Annexure-D** to this report, a statement on the directions issued by the Comptroller and Auditor General of India.

Date: 04.08.2023
Place: Guwahati
UDIN: 23059631BGUVBY7487

For & on Behalf of
B.L. Purohit & Co.
Chartered Accountants
FRN: 0301056E


Subhash Purohit, FCA
Partner
MRN: 059631



ANNEXURE 'A' TO THE INDEPENDENT AUDITOR'S REPORT

With Reference to **paragraph 1** under the heading "**Report on other legal and regulatory requirements**" of the Independent Auditor's report to the members of **ASSAM POWER GENERATION CORPORATION LIMITED** on the accounts for the year ended on 31st March, 2023 we report that:

i) In respect of the Company's Property, Plant and Equipment and Intangible Assets:

(a)(A) The company has maintained proper records showing full particulars including quantitative details and situation of Property, Plant and Equipment. A fixed assets register has been prepared by the company in accordance with the physical verification of assets done by the external agencies.

(B) The company has intangible assets amounting to Rs. 1,849.78 lakhs however such assets have been classified as Property, Plant and Equipment in the financial statements for the FY 2022-23. Thus, no separate records have been maintained by the company for intangible assets.

(b) As explained and informed to us, an external agency was appointed for the verification and valuation of the Property, Plant and Equipment. It has been observed, on analysis of such physical verification report submitted by the External Agency that various assets were not physically found during the time of verification on multiple occasions during the FY 2022-23. However, no accounting treatment for the same has been done by the company for adjustment or recovery of such shortage of assets.

c) According to the information and explanations given to us, the title deeds of immovable properties (other than properties where the company is the lessee and the lease agreements are duly executed in favor of the lessee), are held in the name of the Company, [except for the immovable properties acquired by erstwhile ASEB from which the company was split off in the year 2005 and for the immovable properties held in the name of the units of the Company]. As explained to us, after unbundling of ASEB the title deeds remained in the same names and the process of transfer of title deeds in the name of the company has already been initiated. The details of title deeds of immovable property not held in the name of the company have been appropriately disclosed in the Note No. 2 of the financial statements. Furthermore, the title deeds of the plot of land measuring 19 Bigha, 1 Katha and 15 Lecha under dag no. 199 of Joypur Mouza lying within the NTPS Unit Compound of the Company is disputed with the nearby Dilli Tea Estate.

- d) The company has not revalued its Property, Plant and Equipment during the year. Therefore the provisions of Clause (i)(d) of paragraph 3 of the order are not applicable to the company.
- e) No proceedings have been initiated during the year or are pending against the Company as at March 31, 2023 for holding any benami property under the Benami Transactions (Prohibition) Act, 1988 (as amended in 2016) and rules made thereunder.
- ii) (a) The inventory has been physically verified by the management during the year by appointing an external agency. In our opinion, the frequency of verification, coverage & procedure of such verification is reasonable and appropriate. Further, physical verification of inventory was also done as on 30.11.2022 being the date of migration of data of the company to SAP ERP system and a shortage in inventory amounting to ₹ 898.66 lakhs was found. During the course of our audit, we noticed that the aforesaid inventory shortage has been adjusted by treating as used in repairs and maintenance as reflected in the financial statements. Thus, proper accounting for such shortage has not been done.
- (b) The Company has not been sanctioned working capital limits in excess of ₹ 5 crore, in aggregate, at any points of time during the year, from banks or financial institutions on the basis of security of current assets and hence reporting under clause 3(ii)(b) of the Order is not applicable.
- iii) During the year, the company has not made investments, provided any guarantee or security or granted any loans or advances in the nature of loans, secured or unsecured to companies, firms, LLPs or any other parties, hence clause 3(iii)(a) to 3(iii)(f) is not applicable to the company.
- iv) As informed and explained to us, there are no transactions which attracts the provisions of Section 185 & 186 of the Companies Act, 2013. Therefore, Clause 3(iv) is not applicable to the company.
- v) Based on our scrutiny of the Company's records and according to information and explanation given to us, we are of the opinion that the company has not accepted any deposits from the public during the year. Hence reporting under clause 3(v) of the order is not applicable.
- vi) We have broadly reviewed the cost records maintained by the company pursuant to the rules made by the Central Government for maintenance of cost records under

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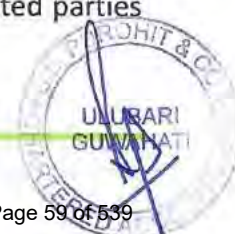
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Section 148(1) of the Companies Act, 2013 and we are of the opinion that prima facie the prescribed accounts and records have been made and maintained. We have however not made a detailed examination of the said records with a view to determine the accuracy or completeness of the record.

- vii) According to the information and explanation given to us and the books of accounts examined by us in respect of statutory dues of the company :
- a) According to the information and explanations given to us, and on the basis of our examination of the records of the company, amounts deducted/accrued in the books of account in respect of statutory dues including provident fund, income tax, sales tax, goods and services tax, service tax, customs duty, excise duty, cess and other material statutory dues have been regularly deposited during the year by the company with appropriate authorities. There are no undisputed statutory dues as on the last day of the financial year concerned for a period of more than six months from the date they became payable.
 - b) According to the information and explanation given to us, there is no disputed amounts payable in respect of income tax, sales tax, value added tax, goods and services tax, customs duty, excise duty, cess and other material statutory dues outstanding as at the year end.
- viii) In our opinion and according to the information and explanations given to us, there is no any transaction not recorded in the books of account that have been surrendered or disclosed as income during the year in the tax assessments under the Income Tax Act, 1961 (43 of 1961).
- ix) (a) In our opinion and according to the information and explanations given to us, the Company has not defaulted in repayment of loans or in payment of interest thereon during the year.
- (b) In our opinion and according to the information and explanations given to us, the Company has not been a declared willful defaulter by any bank or financial institution or other lender.
- (c) In our opinion and according to the information and explanation provided to us, money raised by way of loans during the year have been utilized for the purpose for which they were sanctioned.

- (d) In our opinion and according to the information and explanations given to us, and the procedures performed by us, and on an overall examination of the standalone financial statements of the company, we report that no funds raised on short-term basis have been used for long-term purposes by the company.
- (e) The Company does not have any subsidiary, associate or joint venture, hence reporting under the clause (ix)(e) of the order is not applicable to the Company.
- (f) The Company does not have any subsidiary, associate or joint venture, hence reporting under the clause (ix)(f) of the order is not applicable to the Company
- x) (a) In our opinion and according to the information and the explanations given to us, the Company did not raise money either through Initial Public Offer or further Public Offer including debt instruments during the year. Therefore the provisions of clause 3(x)(a) of the order are not applicable to the company.
- (b) During the year, the Company has not made any preferential allotment or private placement of shares or convertible debentures (fully or partly or optionally) and hence reporting under clause 3(x)(b) of the Order is not applicable.
- xi) (a) We have not noticed any case of fraud by the company or any fraud on the Company by its officers or employees during the year. The management has also not reported any case of fraud during the year.
- (b) We have not come across of any instance of fraud by the Company or on the Company during the course of audit of the standalone financial statements for the year ended March 31, 2023, accordingly the provisions stated in paragraph (xi)(b) of the Order are not applicable to the Company.
- (c) No whistle blower complaints were brought to our notice during the course of our audit.
- xii) The Company is not a Nidhi Company and hence reporting under clause (xii) of the Order is not applicable.
- xiii) As per the information and explanations received by us, all transactions with the related parties are in compliance with sections 177 and 188 of Companies Act where applicable, and the details have been disclosed in the financial statements except for matters as mentioned in "Annexure –C" to the audit report, as required by the applicable accounting standards. Identification of related parties were made and provided by the management of the company.



- xiv) (a) The Company has an in-house internal audit system, the scope of audit and coverage seems commensurate with the size and nature of its business.
- (b) We have duly considered internal audit reports issued by internal auditors during our audit.
- xv) According to the information and explanations given to us, in our opinion the company has not entered into any non-cash transactions with directors or persons connected to them for the year under review. Therefore the provisions of section 192 of the act are not applicable to the company. Accordingly, the provisions stated in clause 3(xv) of the order are not applicable to the company.
- xvi) (a) According to available information and in our opinion, the company is not required to be registered under section 45 IA of the Reserve Bank of India Act, 1934. Accordingly, clause 3(xvi)(a) of the Order is not applicable.
- (b) The Company is not engaged in any Non-Banking Financial or Housing Finance activities. Accordingly, reporting requirement under clause 3(xvi)(b) of the Order is not applicable.
- (c) The Company is not a Core Investment Company (CIC) as defined in the regulations made by the Reserve Bank of India. Accordingly, reporting requirement under clause 3(xvi)(c) of the Order is not applicable.
- (d) The Company is not being managed by any Group Concerns, and hence this clause of CARO 2020 is not applicable on Company.
- xvii) The Company has not incurred cash losses in the current financial year and in the immediately preceding financial year. Hence, the provisions stated in clause 3(xvii) of the Order are not applicable to the Company.
- xviii) There has been no resignation of the statutory auditors of the Company during the year. Hence the provisions stated in clause 3(xviii) of the Order are not applicable to the Company.
- xix) On the basis of the financial ratios, ageing and expected dates of realization of financial assets and payment of financial liabilities, other information accompanying the financial statements, our knowledge of the Board of Directors and management plans and based on our examination of the evidence supporting the assumptions, nothing has come to our attention, which causes us to believe that any material uncertainty exists as on the date of the audit report indicating that company is not capable of meeting its liabilities existing at the date of balance sheet as and when

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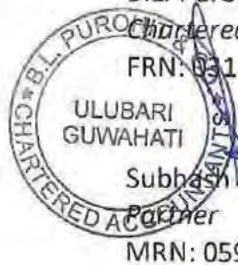


state that this is not an assurance as to the future viability of the Company. We further state that our reporting is based on the facts up to the date of the audit report and we neither give any guarantee nor any assurance that all liabilities falling due within a period of one year from the balance sheet date, will get discharged by the Company as and when they fall due.

- xx) According to the information and explanations given to us, in our opinion, the provisions of section 135 of the Act is not applicable to the Company during the current financial year.
- xxi) According to the information and explanations given to us, the company does not have any Subsidiary, Associate or Joint Venture. Accordingly, the provisions of Clause 3 (xxi) of the order are not applicable to the Company.

Date: 04.08.2023
Place: Guwahati
UDIN: 23059631BGUVBY7487

For & on Behalf of
B.L. Purohit & Co.
Chartered Accountants
FRN: 0311056E
ULUBARI
GUWAHATI
Subhash Purohit, FCA
Partner
MRN: 059631



ANNEXURE 'B' TO THE INDEPENDENT AUDITOR'S REPORT

Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of Section 143 of the Companies Act, 2013 ("the Act")

We have audited the internal financial controls over financial reporting of **ASSAM POWER GENERATION CORPORATION LIMITED** as of **March 31, 2023** in conjunction with our audit of the standalone Ind AS financial statements of the Company for the year ended on that date.

Management's Responsibility for Internal Financial Controls

The Company's Management is responsible for establishing and maintaining internal financial controls based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting ('the Guidance Note') issued by the Institute of Chartered Accountants of India ('ICAI'). These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to Company's policies, the safeguarding of its assets, the prevention and detection of frauds and errors, the accuracy and completeness of the accounting records, and the timely preparation of reliable financial information, as required under the Companies Act, 2013.

Auditors' Responsibility

Our responsibility is to express an opinion on the Company's internal financial controls over financial reporting based on our audit. We conducted our audit in accordance with the Guidance Note and the Standards on Auditing ('the Standards'), issued by the ICAI and deemed to be prescribed under section 143(10) of the Act, to the extent applicable to an audit of internal financial controls. Those Standards and the Guidance Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects.

Our audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting includes obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and

operating effectiveness of internal control based on the assessed risk. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the Company's internal financial controls system over financial reporting.

Meaning of Internal Financial Controls over Financial Reporting

A Company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A Company's internal financial control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the Company's assets that could have a material effect on the financial statements.

Inherent Limitations of Internal Financial Controls over Financial Reporting

Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are subject to the risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

According to the information and explanations given to us and in our opinion the following material weaknesses have been identified as at 31.03.2023:

Capital Work-In-Progress

- i. The internal control system in respect of capitalization of capital work-in-progress which, inter alia, includes balances pending for long-periods of time with regard to status, value and non-availability of commissioning certificates could potentially result in the Company materially misstating its capital work-in-progress, fixed assets and depreciation in its books.
- ii. The management has provided us with the workings and list of addition, deletion and item-wise details of CWIP for the financial year 2022-23. However, no documents were kept in record and provided for our verification at the head office for such capital work-in-progress, and no material discrepancies between the book records and the physical assets have been reported. Furthermore, during our site visit to NTPS and NRPP power stations, no CWIP documents were produced for verification stating that the same is being handled by the head office. Thus, proper documentation has not been maintained by the company which could potentially result in the company materially misstating its Capital Work in Progress in the financial statements of the Company.

Property, Plant and Equipment

During the course of our audit, on study of the Physical Verification report as conducted by External Professionals appointed by the company, it was found that multiple assets were not physically found at the intended location and could not be traced either by the professionals or by the management. Further, no accounting for such mismatch in assets as per books of accounts and actual assets of the company was found to be made during the financial year 2022-23 thereby materially misstating the financial statements of the company.

Inventories

On physical verification conducted during the time of migration of data into SAP ERP system dating 30.11.2023, a shortage in inventory amounting ₹ 898.66 lakhs has been found and the same has been included in the Repairs and Maintenance costs being reflected in the financial statements. No proper accounting for such shortage has been done and the existence of such inventory also cannot be verified as the same has been explained by the management to be issued for consumption at the respective power stations thereby indicating inadequate internal controls relating to inventory management and the inventory records being maintained by the company.

Others


During the course of our audit, proper details and physical documents relating to the contracts entered by the company during the FY 2022-23 and the details of contracts ending in the FY 2022-23 were not provided to us and mere Purchase Orders of the entered contracts were given as documentary proof of contracts. Furthermore, no list of contracts has been maintained for the contracts of the company. On discussions with the management regarding the details of contract, it was suggested to obtain the details regarding the same from the SAP ERP system as all the data has been maintained within the software since its implementation dated 30.11.2022. However, no records were found to be maintained by the company for the period prior to the migration date thereby indicating inadequate internal controls in the maintenance of contract records and details.

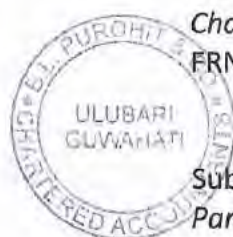
A 'material weakness' is a deficiency, or a combination of deficiencies, in IFCoFR, such that there is a reasonable possibility that a material misstatement of the company's annual or interim financial statements will not be prevented or detected on a timely basis.

In our opinion to the best of our information and according to the explanations given to us except for the effects/possible effects of the material weaknesses described above on the achievement of the objectives of the control criteria, the Company has, in all material respects, adequate internal financial controls over financial reporting and such internal financial controls over financial reporting were operating effectively as at 31st March, 2023, based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note issued by the ICAI.

We have considered the material weaknesses identified and reported above in determining nature, timing and extent of audit tests applied in the audit of the financial statements of the Company as at and for the year ended 31 March 2023, and these weakness have affected the opinion on the financial statements of the company and we have issued a qualified opinion on the financial statements.

Date: 04.08.2023
Place: Guwahati
UDIN: 23059631BGUVBY7487

For & on Behalf of
B.L. Purohit & Co.
Chartered Accountants
FRN: 0311056E

Subhash Purohit, FCA
Partner
MRN: 059631



"ANNEXURE-C" TO THE INDEPENDENT AUDITORS REPORT
OF ASSAM POWER GENERATION CORPORATION LIMITED
FOR THE YEAR ENDED 31.03.2023
(Referred to in Paragraph 2 of our report of even date)

1. NON-CURRENT ASSETS

PROPERTY, PLANT AND EQUIPMENT

(Schedule 2 – ₹ 154877.15 lakhs)

- A. It has been observed that during the year, the company capitalized the cost of ERP Software under the ledger account "I. T Equipment including software" vide GL code 0011950000 amounting to ₹ 1,849.78 lakhs. ERP Software falls under the category of Intangible Assets; however, the company has categorized it under the sub-head "Office Equipment" under "Property, Plant & Equipment". As per Ind AS 38 on "Intangible Assets", an intangible asset shall be recognized if, and only if it is probable that the expected future economic benefits that are attributable to the asset will flow to the entity and the cost of the asset can be measured reliably. Further, Ind AS 1 on "Presentation of Financial Statements" prescribes disclosure of Intangible items as a separate line item in the Balance Sheet. Even as per clause 2.1(1)(i) of Chapter 1 of the Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2021, Balance Sheet shall be prepared in accordance with Division II of Schedule III of the Companies Act, 2013 unless otherwise stated. Thus, ERP Software being an Intangible Asset should have been disclosed as a separate line item in the balance sheet and should not have been included in Property, Plant and Equipment in accordance with the above-mentioned Ind AS.

CAPITAL WORK IN PROGRESS (CWIP)

(Schedule 3 – ₹ 74,853.50 lakhs)

- B. It has been observed that in the following cases, project costs amounting to ₹ **74.51 lakhs** has been outstanding as CWIP for a period of more than 5 years. During the course of our audit, we have not received documents relating to these projects or clarification from the management to justify such non-capitalization and hence we are unable to comment on the accuracy of the same.

Station	Sub- Heads	Amount (₹ in lakhs)
Borgolai/Margherita TPP	CWIP Plant & Machinery	45.85
KLHEP Upper	CWIP Plant & Machinery	15.41
KLHEP Inter	CWIP Plant & Machinery	13.25
		74.51

- C. It has been observed that CWIP (Other Civil Works) amounting to ₹ 2,566.94 lakhs (details as mentioned in the table below) has been shown as temporarily suspended in the financial statements of the company. Since the CWIP which has been suspended are old, provisioning for depreciation in the value of such suspended project should have been made. Further, appropriate disclosures have also not been made regarding the reason and duration for which such project has been suspended along with other pertinent details regarding the same. Hence, we cannot comment on the correctness or otherwise of such suspended projects.

Asset	Asset Description	2-3 years	More than 3 years	Amount (in lakhs)
1541000027	Other Civil Work	2500.82	0	2,500.82
1541000029	Other Civil Work	0	66.12	66.12
		2,500.82	66.12	2,566.94

2. CURRENT ASSETS – OTHER FINANCIAL ASSETS

(Schedule 6(V) – ₹(161.96) Lakhs)

It has been observed that Other Financial Assets includes a credit balance of "Advance (to)/from APDCL amounting to ₹ 266.26 lakhs. However, the same should have been shown as Other Current Liabilities instead of negative balance in Other Current Financial Assets. Hence, the presentation is not in accordance with Division II of Schedule III of the Companies Act, 2013.

3. CURRENT ASSETS – INCOME TAX ASSETS (NET)

(Schedule 6(V) - ₹ 453.33 lakhs)

From "Income Tax Assets (Net)", one can derive the conclusion that the company has only Income Tax as assets and the liability has been set off however this is not the case because this amount reflects the gross amount of Income Tax already paid to the government and no future tax liability of the company has been adjusted from the same. Thus, such classification leads to misinterpretation by the users of the financial statements that the overall Income Tax Liabilities are lower than the overall Income tax Assets and the same has been adjusted from the said Income Tax Assets.

4. CURRENT ASSETS – OTHER CURRENT ASSETS

(Schedule 7 – ₹ 4476.42 Lakhs)

- A. It has been observed that Railway claims for coal-coal cost A/c vide GL Code 26630000 amounting to ₹ **747.91 lakhs** is outstanding for a period of more than 5 years as per the financial statements and has not been recovered by the company. Moreover, as per the explanations provided by the management, the origins of such receivables are untraceable and are outstanding since the formation of the company and the balances were transferred from erstwhile ASEB through transfer scheme. Since the amount is unsettled for a long period of time, proper accounting treatment should be given, furthermore, since no process has been initiated for the recovery of the abovementioned receivables, it is highly probable that the time frame involved in the recovery of such receivables is more than 12 months and hence the same should be reclassified under Non-Current Assets thereby understating the overall non-current assets and overstating the overall current assets.
- B. It has been observed that Ledger "Receivable from Income Tax Authority" vide GL Code 28740000 amounting to ₹ 602.92 lakhs has been included in "Other Recievables" classified under "Other Current Assets". However, the same should have been classified under "Income Tax Assets (Net)" being the appropriate head for such assets.

5. NON CURRENT LIABILITIES – DEFERRED TAX LIABILITIES (PROVISION FOR MAT)

(Schedule 11(I) - ₹ 2776.47 lakhs)

As per Division II of Schedule III of the Companies Act, 2013, Deferred Tax Liabilities should be classified as Non Current Liabilities as a separate line item in the Balance sheet and Current Income Tax Liabilities should be classified under the head Current Liabilities as "Current Tax Liabilities (Net)" as a separate line item in the balance sheet. However, it has been observed that "Deferred Tax Liabilities (Provision for MAT)" contains both Deferred Tax Liabilities amounting to ₹ 852.78 lakhs and Current Income Tax Liabilities amounting to ₹ 1,923.69 lakhs and the same has been classified under Non-Current Liabilities which is not correct. Thus, the overall Non-Current Liabilities are overstated by ₹ 1,923.69 lakhs and consequently the overall Current Liabilities are understated by the same amount thereby impacting the correctness of the Ratio Analysis given in the Notes to the Financial Statements of the company.

6. NON CURRENT LIABILITIES – OTHER NON CURRENT LIABILITIES

(Schedule 12 - ₹ 1405.89 lakhs)

It has been observed that GPF Payable Account amounting to a sum of ₹ **1,344.93 lakhs** is outstanding under the above head which represents the amount of subscription, GPF Advance made; recovery of such advance and final withdrawal of GPF of the employees of its erstwhile organization. ASEB who were absorbed by APGCL and interest provision made thereon. But, due to non inclusion of the name of APGCL in the schedule to the Provident Fund Act, 1925 and non-approval of the APGCL Trust Regulation and APGCL GPF Rules 2011 by the Govt. Of Assam, the above amount is still lying under the above head and is being used by the Company and no specific investment of the same is made.

This observation has been made by the previous auditor which is still persisting in the current FY 2022-23.

7. CURRENT LIABILITIES – OTHER CURRENT LIABILITIES

(Schedule 14 – ₹ 17,688.86 lakhs)

A. It has been observed that the following current liability accounts totaling **₹2,694.15 lakhs** are outstanding for a period of more than 5 years as per the financial statements and has not been cleared by the company. Moreover, as per

the explanations provided by the management, the origins of such payables are untraceable and are outstanding since the formation of the company and the balances transferred from erstwhile ASEB through transfer scheme. Since the amount is unsettled for a long period of time, proper accounting treatment should be given, furthermore, since no process has been initiated for the payment of the abovementioned liabilities, it is highly probable that the time frame involved in the disposal of such payables is more than 12 months and hence the same should be reclassified under Non-Current Liabilities thereby understating the overall Non-Current Liabilities and overstating the overall Current Liabilities.

GL Code	Account	Balance (₹ in lakhs)
31110000	Freight payable-allotted wagons	344.79
31150000	Liability for Stock-Allotted wagons	394.57
37430000	Railway Credit Notes-Coal	1,851.15
37499000	Other miscellaneous liabilities	103.63
		2,694.15

- B. It has been observed that prior to migration of data to SAP ERP, i.e., up to 30.11.2022, party wise details of payables and vendor liabilities were not being maintained by the company thereby leading to non-identification of multiple vendors post-migration as party wise details are required to be maintained in the SAP ERP system. Thus, "FI Vendor Account" vide GL Code 33450000 amounting to ₹ 973.43 lakhs classified under the head "Other Liabilities" is being used by the company to adjust liabilities of unidentified vendors and further recognition of vendors in such ledger account indicating non-creation of vendor codes for such vendors thereby leading to bypass of the due accounting process in the SAP ERP system software consequently misstating the overall Trade Payables of the company being reflected in the financial statements.

8. DIRECT INCOME – REVENUE FROM OPERATIONS

(Schedule 16 – ₹1,39,782.70 lakhs)

- A. It has been observed that the actual generation of electricity by APGCL for the FY 2022-23, in the below mentioned power plants, have been less than the targeted net generation as submitted by the APGCL to AERC thereby leading to huge revenue losses to the company estimated at around ₹ 24,779.20 lakhs. It has also been observed that due to the under-utilization of the capacity of the Power Plants, the fixed costs of such plants are not being able to be recovered completely. Moreover, in conjunction with Pt 6.A. above, it has been observed that the Actual Generation is further less as compared to the installed capacity of the power plants of the company which implies that the actual losses of the company are far more than quantified above which cannot be quantified as the tariff rates set by the AERC are as per the Projected Generation data provided by the APGCL and not as per the installed generation capacity of the company.

Power Plant	Targeted Generation for Tariff Fixation (in MWh)	Actual Generation (in MWh)	Deficit Generation against Targeted Capacity (in MWh)	Actual Generation (as % of Targeted generation)	Energy charge/ MWh	Estimated Revenue Loss (₹ in lakhs)
NRPP	815,867.86	413,881.71	401,986.15	50.73	3,850.00	15,476.47
NTPS	392,012.22	182,437.26	209,574.96	46.54	4,070.00	8529.70
LRPP	501,221.00	497,396.90	3,824.10	99.24	3,400.00	130.02
MSHEP-I	29,102.62	22,085.82	7,016.80	75.89	1,740.00	122.09
MSHEP-II	63,929.25	33,991.44	29,937.81	53.17	1,740.00	520.92
Total	1,802,132.94	1,149,793.14	652,339.81			24,779.20

- B. It has been observed that in LTPS power plant, the actual auxillary consumption of the power plant is approximately 8.40%. However, as per the AERC Tariff Order, the estimated normal auxillary consumption of LTPS power plant should not be more than 5.50%. Thus, there has been an excess auxillary consumption of 2.9% leading to an additional revenue loss of ₹ 939.37 lakhs for the FY 2022-23 thereby leading to an overall decrease in profits by the abovementioned amount.

9. INDIRECT EXPENSES – EMPLOYEE BENEFIT EXPENSES

(Schedule 20 – ₹ 9,764.39 lakhs)

As per Ind AS 19 on “Employee Benefits” an entity shall use the actuarial valuation method, i.e., projected unit credit method to determine the present value of its defined benefit obligations and the related current service cost and, where applicable, past service cost. However, it has been observed that no Actuarial valuation has been done by the company for the post-employment benefit expenses recognized by the company for the FY 2022-23 and a mere disclosure regarding the same has been given in the Notes to Accounts stating that the process for actuarial valuation has been initiated in the FY 2021-22.

10. INDIRECT EXPENSES – OTHER EXPENSES

(Schedule 21 – ₹ 10,439.03 lakhs)

- A. As per Ind AS 16 on “Property Plant and Equipment”, an entity recognizes in the carrying amount of an item of property, plant and equipment the cost of replacing part of such an item when that cost is incurred if it is probable that future economic benefits associated with the item will flow to the entity and the cost of the item can be measured reliably. Further, the carrying amount of an item of property, plant and equipment shall be derecognized on disposal or when no future economic benefits are expected from its use or disposal. And the gain or loss, if any, arising from the derecognition of an item of property, plant and equipment shall be included in profit or loss when the item is derecognized. It has been observed that Manufacturing Expenses include Repairs and Maintenance cost amounting to ₹ 8,713.42 lakhs which contains capital repairs of Property, Plant and Equipment. As per Ind AS 16, the same should have been recognized as PPE being added to the respective asset. However, all such expenses have been classified and booked as revenue expenditure under the

abovementioned head thereby understating the overall Profit of the company and consequently understating the overall PPE for the FY 2022-23.

- B. On physical verification conducted during the time of migration of data into SAP ERP system dating 30.11.2023, a shortage in inventory amounting ₹ 898.66 lakhs has been found and the same has been adjusted by treating as used in the Repairs and Maintenance costs being reflected in the financial statements. Thus, proper accounting for such shortage has not been done and the existence of such inventory also cannot be verified as the same has been explained by the management to be issued for consumption at the respective power stations. Furthermore, such shortage of inventory should have been separately shown in the financial statements as loss of inventory.

11. TAX EXPENSES

- A. It has been observed that Provision for Current Tax has been created for ₹1,929.41 lakhs for the financial year 2022-23 which includes Health and Education Cess on tax calculated at a rate of 3.00%. However, the prescribed rate of Health and Education Cess on Income Tax is 4.00%. Thus, income tax provision is short created by ₹ 18.73 lakhs thereby overstating the profit after tax for the year and consequently understating the current liabilities by the above-mentioned amount.
- B. As per Ind AS 12 on "Income Taxes", Deferred tax liabilities are the amounts of income taxes payable in future periods in respect of taxable temporary differences being temporary differences that will result in taxable amounts in determining taxable profit (tax loss) of future periods when the carrying amount of the asset or liability is recovered or settled. The same shall be evaluated at the end of each reporting period and should be duly provisioned for in the books of accounts. However, it has been observed that no Deferred Tax Liabilities have been recognized for the Financial Year 2022-23 and the previous financial year 2021-22 thereby resulting in non-compliance of the requirements of Ind AS 12. Further the financial impact of such expenses/income and assets/liabilities not being recognized during the financial year 2022-23 cannot be determined by us due to non –availability of adequate information for proper estimation of the assets/liability.

12. NOTES TO ACCOUNTS

A. As per Ind AS 24 on "Related Party Disclosures" read with Division II of Schedule III of the Companies Act, 2013, a government related reporting entity is exempt from the disclosure requirements in relation to related party transactions and outstanding balances, including commitments, with another entity that is a related party because the same government has control or joint control of, or significant influence over, both the reporting entity and the other entity. However, it shall disclose the following about the transactions and related outstanding balances:

- The name of the government and the nature of its relationship with the reporting entity (i.e. control, joint control or significant influence)
- The nature and amount of each individually significant transaction and other transactions that are collectively, but not individually, significant, a qualitative or quantitative indication of their extent in sufficient detail to enable users of the entity's financial statements to understand the effect of related party transactions on its financial statements

It has been observed that the Revenue from operations of Assam Power Generation Corporation Limited consists of only sale of Power to Assam Power Distribution Corporation Limited amounting to ₹ 1,39,782.70 lakhs. However, the same has not been disclosed as related party transactions in the Notes to Accounts of Financial Statements for the FY 2022-23 thereby being inconsistent with the disclosure requirements of Ind AS 24 and Division II of Schedule III of the Companies Act, 2013.

13. RATIO ANALYSIS

- A. As per Division II of Schedule III of the Companies Act, 2013, Ratio of Return on Capital Employed is given by Earnings Before Interest and Tax divided by Capital Employed where Capital Employed is the sum total of Tangible Net Worth, Total Debt and Deferred Tax Liability of the Company. However, it has been observed that the formula for Capital Employed as used by the company is "Average of net fixed assets (excl. effect of revaluation of fixed assets) plus non-current investment and net current assets existing at the beginning of the year and close of the year". Thus, the ratio so calculated is not in accordance with the formulas prescribed by the Companies Act, 2013.
- B. As per clause L(xiv) – "Additional Regulatory Information" of Amendment Notification to Division II of Schedule III of the Companies Act, 2013 dated 24th

March, 2021, a company shall explain the items included in numerator and denominator for computing the above ratios. Further explanation shall be provided for any change in the ratio by more than 25% as compared to the preceding year. It has been observed that in the below mentioned ratios, the variation is greater than 25%. However, no explanation for such variation has been provided in the financial statements. Hence, the ratio analysis provided in the financial statements is not in accordance with the requirements as prescribed by the Companies Act, 2013.

Sl No.	Particulars	FY 2022-23	FY 2021-22	Variation in comparison to last year
1	Debt Service Coverage Ratio	2.86	4.21	-32%
2	Return on Equity Ratio	0.04	0.14	-73%
3	Trade Receivables Turnover Ratio/ Average Accounts Receivable Ratio	5.04	3.85	31%
4	Trade Payables Turnover Ratio	14.40	5.02	187%
5	Net Capital Turnover Ratio	1.49	0.59	152%
6	Net Profit Ratio	0.07	0.42	-84%
7	Return on Capital employed	0.06	0.17	-64%

14. CASH FLOW STATEMENT

- A. As per Ind AS 7 on "Cash Flow Statement", Cash flow statement prepared using indirect method shall contain working capital changes as adjusted from the operating profit of the company for determining the Cash Flow from Operating Activities. As per the information and explanation provided to us by the management, it has been observed that Changes in Other Current Assets includes changes in other non-current assets as well as changes in Fixed Deposits Investment which should not be included in determining the cash flow from operating activities and the same should have been classified under either Investing activities or Financing activities depending upon the nature of such assets. Thus, the cash flow prepared is not in accordance with the applicable Ind AS 7.
- B. As per the cash flow statement of the company, separate line item has been created for the tax expenses incurred by the company. However, the amount of income tax paid by the company during the year has not been shown there.

15. OTHERS

- A. As per Ind AS 1 on "Presentation of Financial Statements", an entity disclosing comparative information shall present, as a minimum, two balance sheets, two of each of the other statements, and related notes. When an entity applies an accounting policy retrospectively or makes a retrospective restatement of items in its financial statements or when it reclassifies items in its financial statements, it shall present, as a minimum, three balance sheets, two of each of the other statements, and related notes. An entity presents balance sheets as at
- the end of the current period,
 - the end of the previous period (which is the same as the beginning of the current period), and
 - the beginning of the earliest comparative period.

It has been observed that multiple restatements have been done in the financial statements in compliance to the comments made by the CAG auditors and other errors pertaining in the financial statements of such earlier periods in accordance with the requirements of Ind AS 8 on "Accounting Policies, Changes in Accounting Estimates & Errors". However, comparative balance sheet along with related notes for the beginning of the earliest comparative period being Balance sheet as on 01.04.2021 has not been presented. Thus the financial statements are not in compliance with the requirements of Ind AS 1 with respect to presentation of comparative balance sheet and related notes.

For & on Behalf of
B.L. Purohit & Co.
Chartered Accountants
ICIA Firm registration no: 0311056E

Subhash Purohit, FCA
Partner
Membership no: 059631
Place: Guwahati
Date: 04-08-2023
UDIN: 23059631BGUVBY7487



ANNEXURE "D" TO THE INDEPENDENT AUDITORS' REPORT
OF ASSAM POWER GENERATION CORPORATION LIMITED
FOR THE FINANCIAL YEAR 2022-23.

Referred to in paragraph 3 under the heading "Report on other legal and regulatory requirements" of our Report on even date

DIRECTIONS UNDER SECTION 143(5) OF THE COMPANIES ACT, 2013

Sl. No.	Directions	Reply
1	Whether the company has system in place to process all the accounting transactions through IT system? If yes, the implications of processing of accounting transactions outside IT system on the integrity of the accounts along with the financial implications, if any, may be stated.	As informed to us, the Company did not have any system in place to process all the accounting transactions through IT system upto 30 th November, 2022. The company has migrated to SAP ERP system with effect from 1 st December, 2022 and implemented the system from the given date for processing of all the accounting transactions through the IT system.
2	Whether there is any restructuring of an existing loan or cases of waiver/write off of debts /loans/interest etc. made by a lender to the company due to the company's inability to repay the loan? If yes, the financial impact may be stated.	The Cabinet Meeting of the Government of Assam (GoA) held on 24.12.2021 approved the conversion of GoA Loan and Grant to APGCL into Equity. The financial sanctions are accorded for book adjustment with respect to conversion of GoA Loan and Grant into equity. The impact of the same is that loans have been converted in equity resulting in the increase in the capital base of the company. Necessary compliances for the same has been done and has been given effect to in the FY 2022-23.
3	Whether funds received/receivable for specific schemes from central/ state agencies were properly accounted for/ utilized as per its term and conditions? List the cases of deviation.	As per our verification on test check basis, it appeared that the company has maintained project wise details of expenses as per terms and conditions of sanctions and no material deviations came to our notice.

Date: 04.08.2023
 Place: Guwahati
 UDIN: 23059631BGUVBY7487

For & on Behalf of
 B.L. Purohit & Co.
 Chartered Accountants
 FRN: 0311056E
 Subhash Purohit, FCA
 Partner
 MRN: 059631



3RD FLOOR, B BLOCK, K K TOWER, ULUBARI, GUWAHATI, ASSAM, PIN:781007

TELEPHONE: 0361-2460203, Email:blpurohit.co@gmail.com, https://blpurohitandco.in/

Annexure-4: SLDC Certificate for Plant Performance in FY 2022-23



Assam Electricity Grid Corporation Limited
 Regd. Office: 1st Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781001
 CIN:U40101AS2003SGC007238
 Phone-0361-2739520 / Fax-0361-2739513 Web: www.aegcl.co.in



TO WHOM IT MAY CONCERN

As per receipt of verified data from APGCL, this is to certify that the gross generation, export, import, auxiliary consumption and plant availability factor and PLF of LTPS, LRPP, NTPS, NRPP and KLHEP of APGCL's for the period from April'22 to March'23 is stated below:

APGCL GENERATION DATA FOR FY 2022-23 FOR LTPS, LRPP, NTPS, NRPP AND KLHEP (Gross Generation, Export, Import, Auxiliary Consumption, Plant availability Factor and PLF)

STATION	CAPACITY (MW)	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	TOTAL
LTPS+LRPP Import & Export														
Energy Imported (MU)		2.452	5.061	2.862	2.931	4.101	2.942	1.653	1.481	2.781	2.435	3.157	0.612	32.469
Energy Exported (MU)		76.792	83.332	85.143	93.117	90.346	85.525	84.694	81.478	89.169	86.776	80.531	94.562	1031.464
Actual Energy Sent Out (MU)		73.860	77.921	81.809	89.995	85.727	82.124	82.732	79.996	86.388	84.340	77.374	93.950	996.216
LTPS														
LTPS Actual Gross (MU)	97.2	37.756	38.434	46.791	49.183	51.965	50.198	46.466	42.709	44.258	38.899	43.831	50.032	540.522
LTPS Pro-rata Energy Sent out (MU)		34.470	35.048	42.934	45.326	47.800	46.163	42.604	39.439	41.117	36.027	41.169	46.723	498.818
Total Aux. Cons. (MU)		3.286	3.386	3.857	3.857	4.165	4.035	3.862	3.270	3.141	2.872	2.662	3.309	41.704
LTPS Avg. Declared Capacity (MW)		53.94	56.24	68.77	68.97	73.76	69.742	65.103	58.590	57.430	47.840	64.120	68.480	62.737
Plant Availability LTPS (%)		58.72%	61.23%	74.87%	75.09%	80.30%	75.93%	70.88%	63.79%	62.52%	52.08%	69.81%	74.55%	67.11%
PLF (%)		52.12%	51.29%	64.92%	66.33%	69.94%	69.80%	62.34%	59.63%	60.17%	52.72%	66.70%	68.37%	61.99%
LRPP														
LRPP Actual Gross (MU)	69.755	39.963	43.397	39.567	45.350	38.662	36.701	40.892	40.906	45.764	49.019	36.885	48.302	505.406
LRPP Pro-rata Energy Sent out (MU)		39.390	42.873	38.875	44.669	37.927	35.961	40.128	40.558	45.271	48.314	36.205	47.227	497.397
Total Aux. Cons. (MU)		0.573	0.524	0.692	0.681	0.735	0.740	0.764	0.348	0.493	0.705	0.680	1.075	8.009
LRPP Avg. Declared Capacity (MW)		60.96	64.90	62.80	64.82	55.55	61.33	64.14	57.24	57.45	55.79	50.35	62.55	59.89
Plant Availability LRPP (%)		90.56%	96.41%	93.29%	96.30%	82.52%	91.11%	95.29%	85.03%	85.35%	82.88%	74.80%	92.92%	88.98%
PLF (%)		81.27%	85.61%	80.21%	89.19%	75.73%	74.20%	80.13%	83.68%	90.39%	96.47%	80.04%	94.30%	84.35%
NTPS														
NTPS Actual Gross (MU)	36.91	11.093	12.753	12.816	12.657	14.925	23.525	9.305	13.004	20.073	21.350	22.427	18.927	192.855

Office of the Chief General Manager, SLDC, AEGCL, Kahilipara, Guwahati-781019

NTPS Energy Imported (MU)		1.125	0.401	0.647	0.524	1.261	0.148	4.350	0.977	0.030	0.014	0.035	0.001	9.514
NTPS Energy Exported (MU)		11.564	12.568	12.903	12.449	15.238	22.326	12.684	13.268	18.861	20.218	21.443	17.888	191.410
NTPS Energy Sent out (MU)		10.440	12.168	12.256	11.925	13.977	22.178	8.334	12.291	18.830	20.204	21.408	17.887	181.897
Total Aux. Cons. (MU)		0.653	0.585	0.560	0.732	0.948	1.347	0.971	0.713	1.243	1.146	1.019	1.040	10.958
NTPS Avg. Declared Capacity (MW)		19.14	19.06	21.04	18.69	22.97	35.20	14.72	19.08	29.16	31.97	35.96	27.16	24.43
Plant Availability NTPS (%)		46.07%	45.88%	45.15%	61.79%	77.91%	89.90%	54.64%	64.58%	86.11%	94.51%	95.92%	82.85%	69.30%
PLF (%)		34.90%	39.37%	36.53%	52.98%	63.72%	78.67%	41.58%	57.79%	74.74%	80.28%	84.98%	73.34%	58.91%
NRPP														
NRPP Actual Gross (MU)		43.803	47.373	44.894	45.734	35.491	0.000	39.721	40.449	45.076	45.941	31.205	22.538	442.225
NRPP Energy Imported (MU)		0.029	0.000	0.006	0.005	0.034	0.000	0.021	0.032	0.006	0.002	0.105	0.260	0.500
NRPP Energy Exported (MU)		42.467	45.863	43.419	44.192	34.302	0.000	38.392	39.201	43.719	44.556	30.273	21.521	427.905
NRPP Energy Sent out (MU)	98.4	42.438	45.863	43.413	44.187	34.268	0.000	38.371	39.169	43.713	44.554	30.168	21.261	427.405
Total Aux. Cons. (MU)		1.365	1.510	1.481	1.547	1.223	0.000	1.350	1.280	1.363	1.387	1.037	1.277	14.820
NRPP Avg. Declared Capacity (MW)		64.32	61.12	59.85	59.33	47.81	0.00	52.67	53.40	58.48	59.14	42.28	34.69	49.54
Plant Availability NRPP (%)		68.81%	65.38%	64.02%	63.47%	51.14%	0.00%	56.35%	57.12%	62.56%	63.27%	45.22%	37.11%	52.99%
PLF (%)		63.05%	65.94%	64.50%	63.53%	49.27%	0.00%	55.17%	58.20%	62.85%	64.06%	48.02%	30.57%	52.19%
KLHEP														
KLHEP Actual Gross (MU)		12.541	34.136	55.939	60.231	66.263	65.663	65.200	43.221	26.516	18.493	13.440	14.136	475.779
KLHEP Energy Sent out (MU)		12.478	33.965	55.659	59.930	65.932	65.335	64.874	43.005	26.383	18.401	13.373	14.065	473.400
KLHEP Energy Imported (MU)														
KLHEP Energy Exported (MU)	100	12.478	33.965	55.659	59.930	65.932	65.335	64.874	43.005	26.383	18.401	13.373	14.065	473.400
Total Aux. Cons. (MU)		0.063	0.171	0.280	0.301	0.331	0.328	0.326	0.216	0.133	0.092	0.067	0.071	2.379
KLHEP Avg. Declared Capacity (MW)		50.00	60.48	80.15	91.11	97.00	97.00	98.06	81.67	50.00	50.00	50.00	41.94	70.72
Plant Availability KLHEP (%)		50.25%	60.78%	80.55%	90.57%	97.5%	97.5%	98.56%	82.08%	50.25%	50.25%	50.25%	42.15%	71.07%
PLF (%)		17.42%	45.88%	77.69%	80.96%	89.06%	91.20%	87.63%	60.03%	35.64%	24.86%	20.00%	19.00%	54.31%

Date: 06.11.2023

Chief General Manager, SLDC
AEGCL, Kahilipara, Guwahati-19

Office of the Chief General Manager, SLDC, AEGCL, Kahilipara, Guwahati-781019

Annexure-5: KLHEP letter to AERC on Major Overhauling



ASSAM POWER GENERATION CORPORATION LIMITED

(A Govt. of Assam Undertaking)

No. APGCL/CGM (G)/AERC/2022/115/Pt-XII/71

Date: 06.11.2023

To,
The Secretary,
Assam Electricity Regulatory Commission,
ASEB Complex, Dwarandhar,
G.S. Road, Six Mile, Guwahati-22

Sub: Request to consider the actual period of Major Overhauling works of Unit-2 of Karbi Langpi Hydro Electric Project including both Scheduled and Unscheduled days from 13/01/2023 to 05/08/2023.

Sir,

With reference to the subject line above I would like to inform you that APGCL started the major overhauling works of Unit-2 of Karbi Langpi Hydro Electric Project on 13/01/2023 & successfully completed on 05/08/2023. During the overhauling period APGCL faced some force majeure condition & unscheduled works which cause increase the completion period of the Major Overhauling works of Unit-2 of Karbi Langpi Hydro Electric Project.

The details with reference & justification are annexed at **Annexure -A**.

In view of the above APGCL most humbly requests the Hon'ble Commission

1. To consider the actual period of Major Overhauling works of Unit-2 of Karbi Langpi Hydro Electric Project including both Scheduled and Unscheduled days from 13/01/2023 to 05/08/2023 at the time of true up 2022-23 & 2023-24 based on realistic time requirements.
2. Provide time approval for similar work in other plants of APGCL also in delay in completion of Overhauling happens in case of unscheduled works due to Force Majeure incidents.

Please note in the case of Major Overhauling of KLHEP unit-2, after opening the machine APGCL found certain part of the machine damaged, which was not anticipated. Hence the procurement time is also requested to be included in the overhauling period. The details of this are included in the **Annexure-A**.

Further, since the work was carried out during the lean period and one unit was in available condition, there was no generation loss for the overhauling works.

Yours faithfully,

(B. Bhuyan)
Managing Director, APGCL

Enclosure: As stated above

CC:

1. P.S. to the Chairman, APGCL, Bijulee Bhawan: for favour of kind information of the Hon'ble Chairman, APGCL.
2. The Chief General Manager (G), APGCL, Bijulee Bhawan: for favour of information.

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam
CIN: U40101AS2003SGC007239
Tel. No.: 0361-2739502, Fax No.03612739546/22
e-mail: info@apgcl.org, Website: www.apgcl.org

In connection with the Major Overhauling of Unit-2 of KLHEP, the following details are submitted before the Hon'ble Commission:

1. The Major Overhauling ("MO") of KLHEP unit-2 was scheduled from 07/01/2023 to 15/05/2023 for a period of 129 days as per the schedule submitted by the overhauling supply and service provider M/s Voith.
2. However, in the interest of supplying power to the people of Assam as early as possible, M/s Voith was requested to complete the work by 31/03/2023 taking a period of 90 days.
3. Accordingly, this best effort period of 90 days from Jan '23 to Mar'23 for overhauling of Unit-2 of KLHEP was submitted to the Hon'ble AERC in the Tariff Petition for the FY 2023-24 (**Annex-I**).
4. The major overhauling work started from 13/01/2023.
5. However, during the execution of the work, it was realized that the best effort schedule of 90 days cannot be achieved by M/s Voith.
6. As such, it was realized during the execution of the overhauling work that the work would be completed as per the original schedule of 129 days only.
7. Unfortunately, during the execution of the overhauling works, the EOT crane of the station broke down on 30/01/2023. Due to this, workdays were lost during the overhauling of Unit-2 of KLHEP. These lost workdays were unscheduled and beyond the control of APGCL.
8. In addition to this, during the overhauling of the unit, it was observed that the thrust collar bearing of the unit was damaged, which was unexpected.
9. This unexpected repair work further delayed the completion of the overhauling work from its original schedule of 129 days. This was unscheduled and beyond the control of APGCL.
10. Finally, the overhauling work of the Unit-2 of KLHEP was completed on 05/08/2023 after it was started on 13/01/2023 and it took 205 days to complete the work including scheduled and unscheduled work.
11. APGCL now most humbly submits the following regarding the actual duration taken for the overhauling work of the Unit-2 of KLHEP before the Hon'ble Commission.

A. 129 days of Original Overhauling Schedule:

The Major Overhauling of KLHEP Unit-II was scheduled from 07/01/2023 to 15/05/2023 for a period of 129 days as per the schedule submitted by M/s Voith (**Annex-II**). This included the work of replacement of the runner of the unit as well, which was not part of the original work schedule but included later, based on inspection of the unit. Even with the inclusion of the period for replacement of the runner, the period of 129 days is a genuine period for overhauling of a hydro station as it is dependent on the nature of work taken up for a particular overhauling. This can be seen in the LGBR Report published by the CEA. Partial excerpts of the overhauling schedules of hydro stations published in the LGBR report of CEA for FYs 2019-20 to 2023-24 (last 5 years) highlighting this point are given as follows.

Table 1: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2023-24

Sl No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Ramganga Power House	1	Hydro	66	16/06/2023	31/01/2024	230
2.	Upper Indravati HEP	4	Hydro	150	20/10/2023	27/05/2023	220
3.	Chiplima HEP	1	Hydro	24	15/05/2023	30/11/2023	200
4.	Upper Kolab HEP	2	Hydro	80	1/10/2023	31/03/2024	183
5.	Upper Indravati HEP	1	Hydro	150	1/6/2023	28/11/2023	181
6.	Bhakra Left & Right HPS	R-5	Hydro	157	3/10/2023	1/3/2024	151
7.	Chilla Power House	2	Hydro	36	15/01/2023	14/05/2023	120
8.	Chibro (Yamuna) HPS	4	Hydro	60	1/11/2023	28/02/2024	120
9.	Dehar HPS	3	Hydro	165	22/12/2023	31/03/2024	101
10.	Dehar HPS	2	Hydro	165	1/10/2023	8/1/2023	100
11.	Rihand HPS	1	Hydro	50	1/4/2023	30/06/2023	91
12.	Dehar HPS	1	Hydro	165	1/10/2023	29/12/2023	90
13.	Umiam Stage 3 (Kridaikulam)	II	Hydro	30	1/12/2023	10/2/2024	72*
14.	Umiam Stage 3 (Kridaikulam)	I	Hydro	30	1/10/2023	30/11/2023	61*
15.	Koyana Stage-IV	1	Hydro	250	1/8/2023	30/09/2023	61
16.	Umiam Stage - 4	II	Hydro	30	1/4/2023	31/05/2023	61
17.	Salal ST-1 & 2 HPS	II-3	Hydro	115	27/12/2023	24/02/2024	60
18.	Umiam Stage 3 (Kridaikulam)	I	Hydro	30	4/4/2023	31/05/2023	58*

* Runner repairing

Table 2: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2022-23

Sl No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Balimela HEP	3	Hydro	60	1/12/2021	31-03-2023	486
2.	Balimela HEP	4	Hydro	60	1/12/2021	31-03-2023	486
3.	Upper Indravati	4	Hydro	150	1/7/2022	28-02-2023	243
4.	Chiplima HEP	1	Hydro	24	1/11/2022	30-04-2023	181
5.	Upper Indravati	2	Hydro	150	1/1/2022	15-06-2022	166
6.	Nagarjunsagar RH	2	Hydro	30	1/2/2022	30-06-2022	150
7.	Priyadarsini Jurala-1	1	Hydro	39	1/3/2022	30-06-2022	122
8.	Pulichintala Unit - 1	1	Hydro	30	1/3/2022	30-06-2022	122
9.	Jaldhaka HEP	1	Hydro	9	1/12/2022	31-03-2023	121
10.	Jaldhaka HEP	2	Hydro	9	1/12/2022	31-03-2023	121
11.	Jaldhaka HEP	3	Hydro	9	1/12/2022	31-03-2023	121
12.	Jaldhaka HEP	4	Hydro	4	1/12/2022	31-03-2023	121
13.	Jaldhaka HEP	5	Hydro	4	1/12/2022	31-03-2023	121
14.	Dehar HPS	2	Hydro	165	22/12/2022	31/03/2023	100
15.	Dehar HPS	6	Hydro	165	1/10/2022	8/1/2023	100

SI No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
16.	Lower Jurala-1	1	Hydro	40	1/3/2022	31-05-2022	92
17.	Purulia PSP	1	Hydro	225	16-11-2022	15-02-2023	92
18.	Purulia PSP	2	Hydro	225	16-11-2022	15-02-2023	92
19.	Umiam Stage 3	I	Hydro	9	1/10/2022	31-12-2022	92
20.	Nagarjunsagar-1	1	Hydro	110	1/4/2022	30-06-2022	91
21.	Nagarjunsagar LH-1	1	Hydro	30	1/4/2022	30-06-2022	91
22.	Panchet HEP	1	Hydro	40	1/1/2023	31-03-2023	90
23.	Rammam HEP Stg-2	4	Hydro	7.5	1/1/2023	31-03-2023	90
24.	Rammam HEP Stg-3	5	Hydro	7.5	1/1/2023	31-03-2023	90
25.	Rammam HEP Stg-4	6	Hydro	7.5	1/1/2023	31-03-2023	90
26.	Umiam Stage - 4	II	Hydro	30	1/4/2022	15-06-2022	76
27.	Upper Sileru	1	Hydro	60	1/5/2022	30/06/2022	61
28.	Lower sileru	1	Hydro	115	1/5/2022	30-06-2022	61
29.	Srisaillam RB	3	Hydro	110	1/4/2022	31-05-2022	61
30.	Srisaillam RB	6	Hydro	110	1/5/2022	30-06-2022	61
31.	Nagarjunsagar RH	1	Hydro	30	1/5/2022	30-06-2022	61
32.	Nagarjunsagar RH	3	Hydro	30	1/5/2022	30-06-2022	61
33.	Nagarjunsagar Tail Pond HES	1	Hydro	25	1/5/2022	30-06-2022	61
34.	Nagarjunsagar Tail Pond HES	2	Hydro	25	1/5/2022	30-06-2022	61
35.	ADPH, Alamatti	1	Hydro	15	1/5/2022	30-06-2022	61
36.	Mettur Tunnel PH	1	Hydro	50	1/4/2022	31-05-2022	61
37.	Mettur Tunnel PH	2	Hydro	50	1/4/2022	31-05-2022	61
38.	Mettur Tunnel PH	3	Hydro	50	1/4/2022	31-05-2022	61
39.	Mettur Tunnel PH	4	Hydro	50	1/4/2022	31-05-2022	61
40.	Panchet HEP	2	Hydro	40	1/4/2022	31-05-2022	61
41.	Salal St-1 & 2 HPS	I-3	Hydro	115	11/1/2023	11/3/2023	60

Table 3: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2021-22

SI No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	RAMGANGA POWER HOUSE	1	Hydro	66	1-Jul-2021	31-May-2022	335
2.	BHAKRA LEFT & RIGHT HPS	R-5	Hydro	157	4-Oct-2021	1-Mar-2022	149
3.	DEHAR HPS	1	Hydro	165	21-Sep-2021	29-Dec-2021	100
4.	DEHAR HPS	5	Hydro	165	1-Mar-2021	8-Jun-2021	100
5.	DEHAR HPS	6	Hydro	165	1-Jan-2022	31-Mar-2022	90

Sl No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
6.	MANERI BHALI-II HPS DHARASU	1	Hydro	76	1-Nov-2021	1-Jan-2022	62
7.	MANERI BHALI-II HPS DHARASU	2	Hydro	76	16-Nov-2021	16-Jan-2022	62
8.	MANERI BHALI-II HPS DHARASU	3	Hydro	76	25-Jan-2022	27-Mar-2022	62
9.	MANERI BHALI-II HPS DHARASU	4	Hydro	76	11-Jan-2022	13-Mar-2022	62
10.	GHANVI HPS	1	Hydro	11.25	1-Dec-2021	31-Jan-2022	62
11.	GHANVI-II HPS	1	Hydro	5	1-Dec-2021	31-Jan-2022	62
12.	BHAKRA LEFT & RIGHT HPS	R-2	Hydro	157	15-Oct-2021	14-Dec-2021	61
13.	SALAL ST-1&2 HPS	II-2	Hydro	115	15-Jan-2022	15-Mar-2022	60
14.	KHAULI HEP	1	Hydro	6	7-Nov-2021	31-Dec-2021	55

Table 4: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2020-21

Sl No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	RAMGANGA POWER HOUSE	1	Hydro	66	1-07-20	28-02-21	243
2.	BHAKRA LEFT & RIGHT HPS	R-5	Hydro	157	1-11-20	31-03-21	151
3.	TANAKPUR HPS	3	Hydro	31.4	13-12-20	31-03-21	109
4.	DEHAR HPS	4	Hydro	165	1-10-20	8-01-21	100
5.	Periyar-4	4	Hydro	35	1-03-20	19-05-20	80
6.	Kunda-PH 5 Unit 1	1	Hydro	20	3-06-20	20-08-20	79
7.	DEHAR HPS	2	Hydro	165	1-04-20	17-06-20	78
8.	DEHAR HPS	5	Hydro	165	14-01-21	31-03-21	77
9.	Kunda-PH 3 Unit 3	3	Hydro	60	1-07-20	3-09-20	65
10.	BHAKRA LEFT & RIGHT HPS	R-2	Hydro	157	1-04-20	31-05-20	61
11.	RANGANADI	UNIT 3	Hydro	135	2/1/2019	2/21/2019	45
12.	Tuticorin-1	1	Hydro	210	17-08-20	30-09-20	45
13.	Tuticorin-3	3	Hydro	210	17-06-20	31-07-20	45
14.	Kunda-PH 6 Unit 1	1	Hydro	30	14-05-20	27-06-20	45
15.	Sarkarpathy	1	Hydro	30	1-04-20	15-05-20	45
16.	Sholayar-3	3	Hydro	25	1-04-20	15-05-20	45
17.	Suruliar-1	1	Hydro	35	1-05-20	9-06-20	40
18.	Aliyar	1	Hydro	60	22-05-20	30-06-20	40

Table 5: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2019-20

Sl No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Pong	2	Hydro	66	1-11-18	31-08-19	304
2.	Ramganga	1	Hydro	66	15.06.19	09.02.20	240
3.	Kulhal	2	Hydro	10	15.11.19	14.03.20	121
4.	Pong	4	Hydro	66	1-12-19	3-03-20	94
5.	Ramganga	3	Hydro	66	01.04.19	30.01.19	91
6.	Dehar	2	Hydro	165	2-01-20	31-03-20	90
7.	Periyar-4	4	Hydro	35	1-03-19	19-05-19	80
8.	Salal(6x115)	6	Hydro	115	1-10-19	29-11-19	60
9.	Supa-1	1	Hydro	50	July 2019	Aug-19	60

Sl No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
10.	Supa-2	2	Hydro	50	July 2019	Aug-19	60
11.	Dhakrani	1	Hydro	11.25	01.04.19	29.05.19	59
12.	Nimmo Bazgo	1	Hydro	15	20-08-19	9-10-19	51

It can be seen from the Tables- 1,2,3,4 and 5 above, that the overhauling period of hydro stations tends to be longer, and it is not comparable to that with the overhauling period of thermal stations. Furthermore, the duration of the overhauling may vary depending on the nature of the work taken up for the overhauling. In this regard, it can be mentioned here that in FY 2023-24, the Umium Stage-3 & 4 HEPs have scheduled periods of 58 days, 72 days and 61 days for the repairing of the runners of its multiple units.

As such, APGCL humbly submits that the original period of 129 days for overhauling of Unit-2 of KLHEP as per the M/s Voith's work schedule including the replacement of the runner of the unit was genuine and not an exceptional case as per the industry standard of hydroelectric stations.

In view of the above, APGCL most humbly submits to the Hon'ble Commission to allow this 129 days of schedule as per the original submission by M/s Voith for the overhauling of Unit-2 of KLHEP at the time of True-up.

B. Breakdown of the EOT Crane:

During the overhauling of Unit-2, the EOT Crane of the station broke down on 30/01/2023. The breakdown happened even after conducting a proper healthiness checkup and load bearing test of the EOT crane before starting the work and it was an unexpected event (**Annex-III**). The OEM was contacted immediately for repairing the crane. The crane was put into operation after repairing on 12/02/2023. Due to this unfortunate breakdown, an additional 12 workdays got added to the overhauling schedule of the Unit-2 of KLHEP. As this breakdown happened even after taking proper measures to check for any damage prior to starting the work, it was beyond the control of APGCL, and the time period lost due to it was unscheduled.

In view of the above, APGCL most humbly submits to the Hon'ble Commission to consider the breakdown of the EOT crane during the overhauling of Unit-2 and allow it at the time of True-up.

C. Thrust Collar Bearing Damage:

During the overhauling of the Unit-2 of KLHEP, on 20/01/2023 it was observed that the Thrust Collar of the unit was damaged. The Thrust Collar was not included in the list of supply items submitted by M/s Voith for the overhauling work and thus, the same was not procured and was not available with APGCL to replace it immediately. After observing the damaged Thrust Collar, the same was lifted by M/s Voith for refurbishment at their workshop in Vadodara on 27/02/2023. The Thrust Collar reached their workshop on 09/03/2023 after 11 days in transit. Thereafter it took 97 days for refurbishment of the Thrust Collar. It was transported from their workshop on 15/06/2023 and it reached KLHEP site on 23/06/2023 after 9 days in transit. After receiving the Thrust Collar at site, its installation was completed on 27/06/2023. As per the overhauling schedule, the reinstallation of the Thrust Collar after overhauling was supposed to be completed on 30/03/2023. This was an unexpected event and thus, the additional workdays taken due to the damaged Thrust Collar during the overhauling of the unit were unscheduled and beyond the control of APGCL.

In view of the above, APGCL most humbly submits to the Hon'ble Commission to consider the workdays lost due to the damaged Thrust Collar during the overhauling of the Unit-2 of KLHEP and allow it at the time of True-up.

The actual time required for the overhauling of the unit including the scheduled and unscheduled workdays is given in the tables below:

Table 3: Total time required for overhauling of Unit-2 of KLHEP including scheduled & unscheduled days

Station	Unit	Capacity (MW)	Work	Scheduled Days	Unscheduled Days	From Date	To Date	Remarks
KLHEP	2	50	Overhauling of Unit-2 of KLHEP including Replacement of the Runner as requested by APGCL to M/s Voith	90		31/12/2023	31/03/2023	Best effort schedule proposed by APGCL. Could not be achieved by M/s Voith.
			Overhauling of Unit-2 of KLHEP including Replacement of the Runner as submitted by M/s Voith	129		07/01/2023	15/05/2023	Original schedule
			Overhauling of Unit-2 of KLHEP including Replacement of the Runner			13/01/2023		Delay due to delay in deputation of Supervisor by M/s Voith
			Breakdown & Repairing of EOT Crane		14	30/01/2023	12/02/2023	EOT crane breakdown
			Overhauling of Unit-2 of KLHEP including Replacement of the Runner		3	13/02/2023	15/02/2023	
			Detection of damage and lifting for transport		39	20/01/2023	27/02/2023	Matter was discussed with Fuji experts by M/s Voith for further course of action. Fuji suggested to transport the damaged Thrust Collar to the Vadodara workshop. Accordingly, Voith experts visited the site and after inspection of the damaged Thrust Collar decided to transport it to their workshop.
			Refurbishment and Installation of the damaged Thrust Collar					
			Lifting of Thrust Collar By M/s Voith from site to workshop		11	27/02/2023	09/03/2023	Transit
			Refurbishment		97	10/03/2023	14/06/2023	Workshop
					9			Transit

			Shipment of the refurbished thrust collar from workshop to site			15/06/2023	23/06/2023	
			Installation of Thrust Collar		5	23/06/2023	27/06/2023	
			Total		159	20/01/2023	27/06/2023	Total days from detection of damage to restoration
		Overhauling of Unit-2 of KLHEP including Replacement of the Runner	Resumption of work dependent on the Thrust Collar	40		27/06/2023	05/08/2023	

Note: Detailed revised work schedule is enclosed at Annex-IV

D. Actual period required for Overhauling of Unit-2 of KLHEP

The actual period required for the overhauling work of Unit-2 is detailed in the table below:

Table 4: Actual period required for overhauling of U-2 of KLHEP

Particulars	Start Date	End Date	Duration (Days)
Total duration as per schedule	13/01/2023	21/05/2023	129
Total Duration as per actual work completion date	13/01/2023	05/08/2023	205
Unscheduled additional period added to the original schedule	21/05/2023	05/08/2023	77

APGCL humbly submits to the Hon'ble Commission to allow APGCL the actual period of 205 days for the overhauling of Unit-2 of KLHEP from 13/01/2023 to 05/08/2023 at the time of True-up.

Annex-I: Letter from M/s Voith

To,
Chief General Manager (G)
Assam Power Generation Corporation Limited,
Bujilee Bhawan, 3rd Floor,
Paltanbazar, Guwahati,
Assam, Pin - 781001

Your ref.
Your message
Our ref. VHNAMB-009524/L15
Phone 0120-3074242
Fax 0120-3074243
Date 22.12.2022
E-mail Gaurav.saxena@voith.com
Sanjay.vijay@voith.com

Sub: Major Overhauling works of Unit no.2

Ref:

- 1) Letter of Award (LOA) No. APGCL/CGM(G)/KLHEP/R&M/Overhauling/Unit-2/2020/10 dated 15.06.2020.
- 2) APGCL email letter dated 01st Sep 2021 require spares delivery schedule and shutdown schedule from Voith.
- 3) Voith Email letter dated 03rd Sep 2021 confirming spares delivery Schedule with Dec 2021 and Shutdown activities started between Jan – Mar 2022.
- 4) Voith Email Letter dated 05th & 27th Jan 2022 requesting Shutdown schedule.
- 5) APGCL letter no. APGCL/KLHEP/GM/O&M-II/Voith/T-14/318 dated 01st Feb 2022.
- 6) Voith letter no. VHN-AMB-009524/L12 dated 04th Feb 2022.
- 7) APGCL letter no. APGCL/KLHEP/GM/O&M-II/Voith/T-14/397 dated 18th Aug-2022.
- 8) APGCL letter no. APGCL/CGM(G)/KLHEP/UNIT#2/2022-23/9 dated 16- Nov-22.
- 9) Voith letter no. VHN-AMB-009524/L14 dated 29 -Nov 2022.
- 10) APGCL letter no. APGCL/CGM(G)/KLHEP/UNIT#2/2022-23/12 dated 19- Dec-22.
- 11)

Dear Sir,

This is in reference to the letter no. APGCL/CGM(G)/KLHEP/UNIT#2/2022-23/12 dated 19- Dec-22 in which APGCL requested to prepone the shutdown schedule at least by 15 days.

In this regard, we would like to draw your kind attention that the currently the OH schedule (submitted to APGCL vide letter no. VHN-AMB-009524/L14 dated 29 -Nov 2022 and again enclosed as annexure -1) is 129 days and we will try to prepone some activities to match the APGCL requirements.

Please refer our letter no. VHN-AMB-009524/L14 dated 29 -Nov 2022 in which we have informed the availability of VHN & VHFK supervisors and proposed the below execution planning.

Sr. no	Activity	Voith Proposal
1	Dismantling works	All works will be supervised by VHN Supervisors with Remote support of VHFK
2	Face plate refurbishment works	Will be done at Voith hydro, India factory (VHVA) / Voith sub Vendor.
3	Site refurbishment and assembly works	Will be supervised by VHN supervisors. In addition, during site refurbishment assembly works VHN will check the availability of expat from other Voith operating Unit. Once APGCL will confirm proposal, VHN will engage the expat and will depute at site. VHFK will be available for remote support.
4	Testing & Commissioning	VHFK is checking the availability of their supervisors and shall come back with proposal within Jan 2022 else VHN team will complete the testing and commissioning activities with support of VHFK.

We hereby request you kindly provide your acceptance on above proposal enable us to start the resource planning and mobilization activities.

Further Please refer APGCL acceptance vide email dated 12- Oct 2022(PranabJyoti. Baishya to Gaurav Saxena) in which for VHN & VHFK visit charges. After completion of visit VHN submitted draft final invoice to APGCL vide email dated 11- Nov-2022 (From Gaurav Saxena to PranabJyoti. Baishya) to issue Purchase order, however till date we have not received any PO from APGCL.

Please refer MoM point no. 2.1 of MoM dated 20- Oct-22 between APGCL and Voith in which all pending works now completed and we request APGCL to release our pending towards PPV supply.

Prerequisite to start the OH works for Unit no.2.

1. Confirmation on above execution plan to submit the Advance bank guarantee by Voith and release of advance by APGCL within 10 days after receipt of original bank guarantee and Invoice.
2. Service Letter of Credit (L/C) should be opened as per enclosed draft format. Supply L/C no. 264LC03212650001 dated 28- Sep-2021. Should be extended till 30- June 2022 for release of supply retention payment.
3. Load test certificate (not later than 3 months) of Powerhouse EOT crane from certified testing agency. During OH works PH EOT crane and Operator should be available (2 shifts) till completion of work.
4. Draft Tube & Intake gate in sealed condition, Penstock thereafter and complete machine till BFV in dewater condition and free from any debris, silt etc.

5. Special tools and devices (in working condition) required for dismantling and erection which are available at site / project store.
6. Furnished rooms along with AC/room heater at guest house for the complete period of work for our engineers. Total 10 nos. rooms will be required.
7. Common Medical Facility for our employees and staffs with Ambulance.
8. Suitable furnished office with telephone & internet connection nearby the working area.

Voith will engage M/s Dee Bee Corporation, Guwahati for providing necessary skilled & unskilled labour to carry out the subject work under supervision of our engineers.

We request APGCL to please provide your acceptance on our above proposal and confirmation on Prerequisite to start further arrangement of OH works. Also, we request kindly establish the letter of credit, release of Advance payment for OH works, PO issuance for VHFK visit and release of pending supply payment towards PPV at the earliest.

Thanking you and assuring you of our best attention at all times,

Yours faithfully,
For Voith Hydro Private Limited

Gaurav Saxena
Digitally signed by
Gaurav Saxena
Date: 2022.12.22
14:40:35+05'30'
Gaurav Saxena
Project Manager

Nainwal, Kusum
Digitally signed by
Nainwal, Kusum
Date: 2022.12.22 14:42:24+05'30'
12.9.2
Kusum Nainwal
Commercial Manager

Enclosure: Annexure -1 - Major Overhauling Schedule - Rev-0
: Letter of Credit draft for Service portion.

Cc: GM - KLHEP

Annex-II: KLHEP U-II OH schedule

[illegible]

Annex-III: EOT Crane Load Test

REPORT OF EXAMINATION OF HOIST OR LIFT (Under Assam Factories Rules 1950)

Ref. No:-SKD/CP/28/2022-23/APGCL/950.

Date: - 24.12.2022.

Occupier (or Owner) of the Premises Address:

General Manager.

KARBI LANGPI HYDRO ELECTRIC PROJECT.
Assam Power Generation Corporation Ltd.
M/s Shanti Associates, Hatigaon (Contractor)
Lengery, Dist- Karbi Along, Assam.

1. (a) Type of hoist or lift and identification number of description :

E.O.T. CRANE. CAP—130 & 30 M.T.

Crane No—1262,

Make- KHANDEWAL UDYOG, BOMBAY
(THE ACME MFG. CO. LTD)

(b) Date of Construction of reconstruction (if ascertainable) :

Since, Feb 1988.

2. Design and Construction:

(Are all parts of the hoist or lift of good mechanical construction, sound material and adequate strength (so far as ascertainable)? :

Hoist or lift are of good material and safe for operation. All ropes are Found safe for pulling/ Lifting Load.

3. Maintenance:

(Are the following parts of the hoist lift properly maintained and in good working order? If not, state what defects have been found).

Yes. It is found in good working condition.

a) Enclosure of hoist-way or lift-way. :

Found Good.

b) Landing gates and cage gate(s) :

Found Safe.

c) Interlocks on the landing gates and cage gate(s) :

Found Fit for Operation.

d) Other gates fastenings :

Found as per code and design

e) Cage and platform and fittings, cage guides, buffers, interior of the hoist way or lift-way. :

Found sound and safe.

f) Overrunning devices :

Found in order.

g) Suspension ropes or chains and their attachments. :

Tested and no significant defects found.

h) Safety gear, i.e. arrangements for preventing fall of platform or cage brakes :

Found Safe

i) Brakes :

Found fit. To be checked time to time.

j) Worm of spur gearing :

As per code and within the safe limit.

k) Other electrical equipment :

Advice to replace all main panels as it is too old

To avoid an electrical disorder.

l) Other parts :

Found Safe for use.

Contd.....p/2

Mr. S. K. Dutta, B. Tech (Mech), MIE
Competent Person Under Factories Act.
Chartered Engineer, (Regd. No M-147670-4)
House No. 276A, Outal, Zoo Narongi Road,
Guwahati 24, Assam
(Ph-9435041602, 8130900249)

4. What parts (if any) were inaccessible? : No.
5. Repairs, renewals or alterations (if any) required and the period which they should be executed. : Not applicable.
6. Maximum safe working load subject to repairs renewals or alterations (if any) specified in (5) : **SWL = 105 M.T. & 25 M.T.**



7. Others

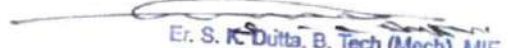
(Respective Hook)

Crane is Re-rated as it is more than 30 yrs old. Tested, Inspected and Checked thoroughly by lifting load of 130 MT & 32 MT and found safe for use Mechanically and Electrically no significant defects found. Deflection 48 mm found which is within limit.

I certify that on 23.12.2022, thoroughly examined this hoist or lift and that the above is a correct report of the result.

This certificate is valid up to 22.06.2023.

Signature


Er. S. K. Dutta, B. Tech (Mech), MIE
 Competent Person Under Factories Act,
 Chartered Engineer, (Regd. No M-147670-4)
 House No. 275A, Outal, Zoo Narongi Road,
 Guwahati-24, Assam
(Er. S.K. Dutta)
 Competent Person Approved By C.E., Assam
 H. No. 276 A, Zoo Narongi Rd. Ghy-24
 Ph: 094350-41602 08638966249
 Email: swpndutta8@gmail.com

Annex-IV: KLHEP U-II Revised OH Schedule

Annex-IV

Reference:		UNIT #2		Rev -1
		Planned		
Voith Hydro, Noida		Updated on	2023-01-13	
No.	Item	2023-01-13		2023-05-21
		SUN.		19
		Total days		129
		DU	Start	Finish
1	0. Preparation		2023-01-14	2023-05-21
2	Preparation	5	2023-01-09	2023-01-13
3	Meeting	1	2023-01-10	2023-01-10
4	Unit Shut Down (Dewatered and	1	2023-01-14	2023-01-14
5	1. Turbine Disassembling & Factory	45	2023-01-13	2023-02-26
6	Checking Electric Isolation and De-	1	2023-01-13	2023-01-13
7	Disassemble Wire and Pipes for Turbine	1	2023-01-14	2023-01-14
8	Disassemble Turbine Guide Bearing	1	2023-01-15	2023-01-15
9	Disassemble Guide Vane Operating Links,	2	2023-01-15	2023-01-16
10	Disassemble Turbine Shaft Seal & TGB oil	1	2023-01-17	2023-01-17
11	Disassemble Guide vanes Servomotors	1	2023-01-18	2023-01-18
12	Disassemble Head Cover	1	2023-01-19	2023-01-19
13	Disassemble Runner with Turbine Shaft	1	2023-01-20	2023-01-20
14	Disassemble Guide Vanes	1	2023-01-20	2023-01-20
15	Disassemble Bottom Ring	1	2023-01-20	2023-01-20
16	Disassemble Discharge Ring	1	2023-01-21	2023-01-21
17	Turbine Component dispatch &	30	2023-01-22	2023-02-20
18	Arrival of Turbine Components at site	6	2023-02-21	2023-02-26
19	2. Generator Disassembling	11	2023-01-14	2023-01-24
20	Disassemble Slip ring	1	2023-01-14	2023-01-14
21	Disassemble Generator Top Cover	2	2023-01-15	2023-01-16
22	Disassemble combined bearing oil piping	1	2023-01-17	2023-01-17
23	Disassemble Upper & Lower Guide Bearing	2	2023-01-18	2023-01-19
24	Disassemble Thrust Collar	1	2023-01-20	2023-01-20
25	Disassemble Upper Bracket	1	2023-01-21	2023-01-21
26	Disassemble Generator Rotor	1	2023-01-22	2023-01-22
27	Disassemble Lower Fan shield	1	2023-01-23	2023-01-23
28	Disassemble Lower Bracket	1	2023-01-24	2023-01-24
39	3. Overhaul Work for Turbine and	51	2023-01-21	2023-03-12
40	Repair Work for Generator Stator Coil	7	2023-01-23	2023-01-29
41	Repair Work for Generator Rotor	7	2023-01-24	2023-01-30
42	Overhauling of Stator Air Coolers	4	2023-01-21	2023-01-24
43	Testing of Combined bearing and Lower	4	2023-01-30	2023-02-02
44	Testing of generator instruments	3	2023-02-27	2023-03-01
45	Overhauling of Brake & Jacks	4	2023-03-02	2023-03-05
46	Scrapping and Blue matching of Thrust &	4	2023-03-06	2023-03-09
47	Repair & Cleaning Work for Turbine Parts	3	2023-03-10	2023-03-12
48	Cleaning, repairing of underwater Part	2	2023-03-06	2023-03-07
49	Testing of TGB cooler	1	2023-03-08	2023-03-08
50	Testing of turbine instruments	2	2023-03-08	2023-03-09
51	Repairing of shaft seal, Operating ring and	5	2023-03-08	2023-03-12
53	Overhauling Work for Guide Vane	5	2023-03-05	2023-03-09
54	Overhaul Work for Turbine Governor	5	2023-03-10	2023-03-14
55	Overhaul Work for Oil Pressure System	5	2023-03-15	2023-03-19
56	Overhauling of Water Supply system	5	2023-03-20	2023-03-24
57	4. Assembling Work for Turbine &	58	2023-03-01	2023-04-27
58	Preparation for Assembly of Turbine parts	3	2023-02-27	2023-03-01
59	Assembly of Discharge ring and Bottom ring	3	2023-03-01	2023-03-03
60	Assembly of Guide Vanes.	3	2023-03-04	2023-03-06
61	Lowering Runner with Turbine shaft and centering	3	2023-03-07	2023-03-09

62	Assembly of Head Cover,regulating ring and	2	2023-03-10	2023-03-11
63	Adjustment of Guide vanes top & bottom clearances,bedding of Guide vanes and GV	7	2023-03-12	2023-03-18
64	Assembly of Guide vane servomotor and oil	3	2023-03-19	2023-03-21
65	Assembly of lower fan shield	2	2023-03-22	2023-03-23
66	Assembly of Lower Bracket	2	2023-03-24	2023-03-25
67	Assembly and leveling of Brake & Jaking	2	2023-03-26	2023-03-27
68	Lowering Rotor in pit	1	2023-03-28	2023-03-28
69	Assembly of Upper Bracket	1	2023-03-29	2023-03-29
70	Assembly of thrust collar	1	2023-03-30	2023-03-30
71	Leveling of Upper bracket	2	2023-03-31	2023-04-01
72	Alignment Run out of Generator	5	2023-04-02	2023-04-06
73	Assembly of slip ring and run out check	1	2023-04-07	2023-04-07
74	Coupling of Generator and Turbine Shaft	2	2023-04-08	2023-04-09
75	Combined alignment of unit.	4	2023-04-10	2023-04-13
76	Centering of TGB housing,LGB and UGB	3	2023-04-14	2023-04-16
77	Assembly of TGB, LGB and UGB.	2	2023-04-17	2023-04-18
78	Assembly of Turbine Shaft Seal and pipes	2	2023-04-19	2023-04-20
79	Assembly of Generator oil pipings.	2	2023-04-21	2023-04-22
80	Assembly of Turbine and Generator	3	2023-04-23	2023-04-25
81	Assembly of Generator top cover	2	2023-04-26	2023-04-27
82	Final Assembling Work for Turbine	5	2023-04-27	2023-05-01
83	Final Assembling Work for Generator	5	2023-04-28	2023-05-02
84	Commissioning Test	21	2023-04-21	2023-05-11
	Commissioning	10	2023-05-12	2023-05-21
	Note:-			
1	Ensure that water conductor system and			
2	Ensure that dewatering system is healthy			
3	Obtain 'PERMIT TO WORK' before start			
4	Ensure that match marking / marking of			
5	Mark dowel pins for each location & pack			
6	Ensure the availability of supports for			
7	Mark all Instruments, wiring, FFS & piping			
8	Ensure availability of suitable storage			
9	Ensure that all protols as per VOITH			
10	Proper Storage of all existing			
11	Arrangement of Hazardous mark,			
12	Ensure Safety gazzets at work area.			

Annexure-6: APGCL Letter to AERC apprising Fire incident in relation to NRPP



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam.

CIN:U40101AS2003SGC007239

Tele: 0361-2739546/502, FAX: 0361-2739 546/22

E-mail: md@apgcl.com, headtrc@apgcl.com; Website: www.apgcl.org

M.P. Sarma

Head of Tariff, Regulatory & Commercial Cell and GM (HQ)

No: APGCL/CGM (G)/AERC/2018/115/Pt-XI/70

Date: 25/03/2022

To,
The Secretary,
Assam Electricity Regulatory Commission,
ASEB Campus, Dwarandhar,
GS Road, Six Mile, Guwahati-22.

Sub: Intimation regarding emergency shutdown of 36.15 MW STG Unit of NRPP.

Sir,

It is very unfortunate to inform you that on 22.03.2022 at 22:40 hrs a fire incident broke out at 1st floor of Steam Turbine Generator (STG) building of Namrup Replacement Power Project due to puncture of lube oil hose pipe at STG governing system situated at second floor. The oil from punctured hose pipe spilled on the hot steam lines located at STG second floor which initiated the fire incident. The fire further spread to ground floor where entire Lube oil system (AC&DC) is installed.

The fire was extinguished completely at around 00:05 hrs of 23.03.2022.

During the visual inspection it is observed that the governing system of STG, AC & DC Lube oil Pumps of STG, Condenser extraction pumps 1&2, AC&DC Jacking Oil Pumps of STG, a numbers of MOVs, Control Valve Positioners, pipe line insulation, Power cables, Control Cables, different local measuring and control instruments, Junction boxes, illumination fitting and fixtures of 1st floor and ground floor of the affected areas of STG buildings are damaged during fire.

All the effort for early restoration of NRPP STG is going on and OEM BHEL expert team will visit project site very soon. After that the schedule of restoration time can be estimated which will be intimated to your good office in due course.

Therefore, NRPP GT Unit will have to be run in open cycle mode during the shutdown period of STG Unit.

This is for your kind intimation.

Yours faithfully,

(M. P. Sarma)

Head of TRC Cell & GM (HQ), APGCL

CC:

1. The OSD to The Chairman, APGCL, for kind information of the Chairman
2. The OSD to The MD, APGCL, for kind information of the MD
3. The Chief General Manager (Gen.), APGCL
4. The Chief General Manager (Com), APDCL

Annexure-7: AERC Letter to APGCL for restoration of ST Unit of NRPP

No. AERC. 686/2018/16

Dated Guwahati the 12th August, 2022

From: Secretary,
Assam Electricity Regulatory Commission

To: The Managing Director
Assam Power Generation Corporation limited
Bijulee Bhawan, Paltan Bazar
Guwahati 781001

Sub: Directive: Restoration of STG unit of NRPP by APGCL

Ref: APGCL Letter No. APGCL/CGM(G)/AERC/2022/115/Pt-XII/03 dtd
26/05/2022

Sir,

With reference to the subject cited above, I am directed to inform you that, the STG unit of NRPP is out of service with effect from 22/03/2022 and the decision for allotment of restoration work is yet to be taken.

The Commission directs APGCL to take immediate steps to restore the unit within 30th November 2022.

Yours faithfully,

Secretary,
Assam Electricity Regulatory
Commission

Memo No. AERC. 686/2018/16

Dated Guwahati the 12th August, 2022

Copy to:

- (1) Chairman APGCL Bijulee Bhawan, Paltan Bazar, Guwahati – 781 001 for your Kind Information.
- (2) Chairman APDCL Bijulee Bhawan, Paltan Bazar, Guwahati – 781 001 for your kind information.
- (3) The Managing Director, APDCL, Bijulee Bhawan, Paltan Bazar, Guwahati – 781 001 for your information.

Annexure-8: APGC Petition to allow open cycle operation for NRPP



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam

CIN: U40101AS2003SGC007239

Tel.No.: 0361-2739502, Fax No.03612739546/22

e-mail: info@apgcl.org, Website: www.apgcl.org

No. APGCL/CGM (G)/AERC/2022/ 115/Pt-XII/40

Date: 19/10/2022

To,
The Secretary,
Assam Electricity Regulatory Commission,
ASEB Campus, Dwarandhar,
GS Road, Six Mile, Guwahati-22.

Sub: Petition for approval of the cost involvement and completion time for the restoration work of the Steam Turbine Unit of Namrup Replacement Power Plant

Sir,

With the reference to the subject cited above, kindly find enclosed herewith 5 (five) copies of the Petitions for approval of the cost involvement and completion time for the restoration work of the Steam Turbine Unit of Namrup Replacement Power Plant along with an affidavit duly signed by the authorized signatory.

The application fees of Rs. 2000.00 (in words Rupees Two Thousand) only, for Petitions have been deposited in accordance with the AERC (Payment of Fees etc.) Regulations, 2020.

Yours faithfully,

(B. Bhuyan)

Managing Director, APGCL

Enclosure: 1. Five copies of the Petitions,
2. Copy of Bank Statement for transfer of Rs. 2000.00

CC:

- 1) P. S. to the Chairman, APGCL, Bijulee Bhawan, Guwahati-1, for kind information of the Chairman.
- 2) The Chief General Manager (F&A), APGCL, Bijulee Bhawan, Guwahati-1
- 3) The Chief General Manager (F&A), APGCL, Bijulee Bhawan, Guwahati-1

E-mail: bibhu.bhuyan@apgcl.org

Tel. No: 0361-2739503

Petition No. –

Case No.
(To be filed by the Office)

IN THE MATTER OF

Petition for approval of the cost involvement and completion time for the restoration work of the Steam Turbine Unit of Namrup Replacement Power Plant of Assam Power Generation Corporation Limited

AND

IN THE MATTER OF

Assam Power Generation Corporation Limited,
Bijulee Bhawan, Paltanbazar,
Guwahati-781001

Petitioner

I, Sri Tiken Chandra Basumatary, Son of Late Kaharam Basumatary, aged 59 years, residing at Palacia Park, Arunodoi Path, VIP Road, P.O Khanapara, Guwahati-781022, do solemnly affirm and say as follows:

I am the Chief General Manager (Gen.) of Assam Power Generation Corporation Limited, the petitioner in the above matter and am duly authorized by the said Petitioner to make this affidavit for and on behalf of the Assam Power Generation Corporation Limited.

The Statement made in the Petition based on information received from official records and I believe them to reflect truly, and no material has been concealed from the statements so made or documents or supporting data etc. attached.

Solemnly affirm at Guwahati on 17.10.2022 that the contents of this affidavit are true to my knowledge, no part of it is false or no material has been concealed therefore and misleading material included therein.

Place: Guwahati

Date: 17.10.2022

Deponent


(Tiken Chandra Basumatary)
Chief General Manager (Gen.),
Assam Power Generation Corporation Ltd.

By order of the Commission

BEFORE THE ASSAM ELECTRICITY REGULATORY COMMISSION

FILE No.

Case No.

IN THE MATTER OF

Petition for approval of the cost involvement and completion time for the restoration work of the Steam Turbine Unit of Namrup Replacement Power Plant of Assam Power Generation Corporation Limited

AND

IN THE MATTER OF

**Assam Power Generation Corporation Limited
Bijulee Bhawan, Paltan Bazar,
Guwahati-781 001**

Petitioner.

THE HUMBLE APPLICANT ABOVE NAMED MOST RESPECTFULLY SHEWETH:

- I. That the Assam Power Generation Corporation Limited (APGCL) is a successor corporate entity of former ASEB, formed in pursuant to the notification of the Government of Assam, notified under sub-sections (1), (2), (5), (6) and (7) of Section 131 and Section 133 of the Electricity Act 2003 (Central Act 36 of 2003), for the purpose of transfer and vesting of functions, properties, interests, rights, obligations and liabilities, along with the transfer of Personnel of the Board to the successor corporate entities.
- II. That APGCL is a company incorporated with the main objective of generation of electricity in the state of Assam.
- III. That the 98.4 MW Combined Cycle Namrup Replacement Power Plant (NRPP) was commissioned on 16.07.2021 with one Gas Turbine (GT) Unit of capacity 62.25 MW and one Steam Turbine (ST) Unit of 36.15 MW.
- IV. That after almost eight months of successful operation, the ST unit of NRPP has been under emergency shutdown from 22.03.2022 due to an unfortunate fire incident. The

matter was also informed to the Hon'ble AERC vide letter no. APGCL/CGM(G)/AERC/2018/115/Pt-XI/70 Dated 25.03.2022 (**Annex-I**).

- V. That the Hon'ble Commission vide their letter No. AERC.686/2018/16 dated 12.08.2022 directed APGCL to complete the restoration work of the ST Unit of NRPP by 30.11.2022
- VI. Now, in this regard APGCL most humbly submits the following before the Hon'ble Commission:
 1. APGCL has put all out efforts and taken all the necessary steps for the earliest restoration of the ST Unit of NRPP.
 2. APGCL contacted the OEM M/s BHEL immediately after the fire incident (**Annex-II**).
 3. An expert team of BHEL reached NRPP site on 25/03/2022 for inspection of the damage caused by the fire incident (**Annex-III**).
 4. After completion of the inspection, APGCL pursued with BHEL to submit an offer for the restoration work of the ST Unit at the earliest (**Annex-IV**).
 5. However, even after continuous pursuance, BHEL submitted their offer only on 18/04/2022 (**Annex-V**).
 6. As per the terms & Conditions of the offer submitted by BHEL, the work was to take 14.66 months to complete.
 7. Considering the emergency nature of the work, APGCL looked for other vendors to complete it in a shorter period than that of the time offered by BHEL.
 8. With this intent, a tender was floated for the job and APGCL received three offers for the same. The main features of the three offers, as already submitted to the Hon'ble AERC vide letter no APGCL/CGM(G)/AERC/2022/115/Pt-XII/03 Dated 26/05/2022. (**Annex-VI**)
 9. While APGCL was processing to do the restoration work of the STG Unit of NRPP at the earliest through the tender process, BHEL offered to do the work at a reduced time period and committed to complete it within 06 months.
 10. Considering this and that the cost of the work is to be claimed from insurance, APGCL put deliberation to offer the work to BHEL as they are the OEM of the plant.
 11. However, as the Tendering process was already going on, it took some time to officially cancel the tender.

12. After overcoming all the constraints, the work for restoration of the ST unit of NRPP was finally awarded to the OEM BHEL vide order no APGCL/CGM(Gen)/Work Order/2022-23/03 Dated 13.09. 2022. The work completion Period is 06 (six) months from the effective date of contract. The total cost to be involved in the work is Rs 15,27,62,800.00 (Rupees Fifteen Crores Twenty -Seven Lakhs Sixty-two Thousand Eight Hundred) Only. **(Annex-VII)**
 13. As NRPP is under insurance coverage, the expenditure to be incurred for the restoration of the ST unit will be adjusted with insurance claims.
 14. However, if any expense is not covered by the insurance, the same will have to be borne by APGCL. The details will be submitted to the Hon'ble commissioned when the whole process is complete.
- VII. Now, in view of the above, APGCL most humbly prays to the Hon'ble Commission to give in principle approval of the work and shortfall, if any, arising due to non-coverage of expenses out of the insurance claim for restoration work of ST unit of NRPP.
- VIII. Further, APGCL also most humbly prays to the Hon'ble Commission to extend the time to complete the work from 30/11/2022 to 22/03/2023.

In this regard APGCL would like to state that the delay in awarding the work to the OEM occurred only because the original time of completion offered by BHEL was 14.66 months. This would have caused loss not only to APGCL but also to the consumers. BHEL came with a revised offer only after APGCL had taken the route of tendering. As tendering is an official process, and the restoration of the ST Unit is a major work for APGCL, cancellation of the tender and then awarding the work to BHEL consumed some time. However, the work is still going to be complete significantly in advance than the original completion time offered by BHEL.

In view of the above, APGCL most humbly prays to the Hon'ble Commission to extend the time to complete the work from 30/11/2022 to 22/03/2023 and allow open cycle heat rate for NRPP till then.

IX. Prayer:

APGCL most humbly prays to the Hon'ble Commission to:

1. Give in principle approval of the shortfall of amount for the work of restoration of the ST Unit of NRPP, if any, arising due to noncoverage of expenses out of the insurance claim as capital cost and approve the same at the time of True-up.
2. Extend the time of completion for the restoration work from 30/11/2022 to 22/03/2023.

3. Allow Open Cycle heat rate for NRPP till 22/03/2023 to calculate the cost of fuel at the time of True-up

Place: Guwahati

Date: 17/10 '2022

Deponent



(Tiken Chandra Basumatary)
Chief General Manager (Gen.),
Assam Power Generation Corporation Ltd.

Annexure-9: AERC STG Order for NRPP



**ASSAM ELECTRICITY REGULATORY COMMISSION
ORDER SHEET**

FILE NO. AERC 839/2022/03

PETITION NO: 12/2022

CORAM: KUMAR SANJAY KRISHNA, IAS (Retd.) HON'BLE CHAIRPERSON
SATYENDRA NATH KALITA, HON'BLE MEMBER (TECHNICAL)

In the matter of

Petition No. 12/2022 for approval of the cost involvement and completion time for the restoration work of the steam turbine unit of NRPP.

In the matter of

Assam Power Generation Corporation Limited. (APGCL)

--- Petitioner

Present

APGCL:

Shri Bibhu Bhuyan MD APGCL
Shri T.Basumatary CGM (Gen)
Shri Janardan Das APGCL
Shri A.k. Zaman DGM(F&A)
Shri P.B. Sarmah AGM(R)

ORDER
23.11.2022

1. The Assam Power Generation Corporation Ltd. (herein after referred as "the Petitioner" or "APGCL") has filed a Petition before the Commission on October 19th, 2022 for approval of the cost involvement and completion time for the restoration work of the steam turbine unit of NRPP.

2. BACKGROUND:

CAPACITY:

GTG: 62.25 MW

STG: 36.15 MW

GTG BREAKDOWN:

The trial run for NRPP combined cycle operation (COD) at GT base load was completed on 23/05/2020. On, 28/05/2020, the Generator stator winding was damaged resulting in delay of the whole operation process for the next three months. The project was still under BHEL and was yet to be handover to APGCL. APGCL thereby as per the suggestion of BHEL for restoration of GTG (Gas Turbine Generator) unit decided to replace the new GTG stator with new one. While BHEL insisted that restoration time would take 11 to 12 months. APGCL directed BHEL to complete the work within 7 months' time. BHEL mentioned that they will supply the generator stator at site by the end of February 2021 and checking all the protection system the synchronization of the unit would be scheduled by April/May 2021. Finally the synchronization of the GTG unit was done on 20/05/2021.

3. STG BREAKDOWN:

NRPP was Commissioned on 16.07.2021 with one gas turbine (GT) unit of capacity 62.25 MW and one steam turbine (ST) unit of 36.15 MW. After, 8 months of successful operation the ST unit of NRPP went under emergency shutdown from 22.03.2022 due to a sudden fire incident. APGCL Informed that on 22/03/2022 at 22:40 hrs. a fire incident broke out at 1st floor of Steam Turbine Generator (STG) building of NRPP due to puncture of lube oil hose pipe at STG governing system situated at second floor. The oil from punctured hose pipe spilled on the hot lines located at STG second floor which initiated the fire incident. The fire further spread to ground floor where entire Lube oil system (AC& DC) is installed.

The Commission directed APGCL to complete the restoration work by 30th November 2022.

4. RESTORATION PROCESS:

APGCL informed that, while processing to do the restoration work of the STG unit of NRPP at the earliest through the tender process, BHEL proposed to complete the work at a reduced time period which is within 6 months.

The work of restoration of the ST unit of NRPP was finally awarded to BHEL dated 13/09/2022. The work completion period is 06 months from the effective date of contract. The total cost involved in the work is Rs15,27,62,800 (Rupees fifteen crores twenty-seven lakhs sixty-two thousand eight hundred only)

5. INSURANCE CLAIM:

APGCL informed that, as NRPP under insurance coverage, the expenditure to be incurred for the restoration of the STG unit will be adjusted with insurance claims. In the Petition, APGCL also mentioned that if any expense is not covered by the insurance, the same will be borne by APGCL. APGCL will submit the details once the entire process is complete.

6. PRAYERS

(i) PRAYER NO.1

APGCL prayed to the Commission for principal approval of the shortfall amount for the work of restoration of the ST Unit of NRPP, if any arising due to non-coverage of the expenses out of the insurance claim as capital cost and approve the same at the time of true up.

COMMISSIONS ANALYSIS:

In the 4th Monitoring Committee meeting held on 19th July 2022, MD APGCL mentioned that "the discussion with BHEL to complete the restoration will be completed within this month as the fault is on BHEL side. MD APGCL Said that the restoration of STG unit will be completed by the month of January 2023."

From the submissions of MD APGCL, it can be understood that the incident took place due to the negligence of BHEL. Now due to the negligence of BHEL/APGCL the consumers should not be burdened with additional expenses. Therefore, the Commission disallows any additional expenses which is not met out of the insurance.

claim so as not to cause any additional burden on the consumers.

(ii) PRAYER NO.2

Extend the time completion for restoration work from 30/11/2022 to 22/03/2023.

COMMISSIONS ANALYSIS:

The Commission accepted the prayer and directed APGCL to complete the restoration work within the revised time i.e. 22/03/2023.

(iii) PRAYER NO.3

Allow open cycle heat rate for NRPP till 22/03/2023 to calculate the fuel cost at the time of true-up.

COMMISSIONS ANALYSIS:

The Commission is of the view that in absence of actual operating days of open cycle and closed cycle units for calculating the fuel cost, it may not be prudent to allow the same only on the basis of submissions of APGCL. However, APGCL is at liberty to place their claim at the time of true up with proper documentary evidence to calculate the fuel cost at the time of True-Up.

7. With the above observations and decisions, the Petition 12/2022 stands disposed of.

(S.N. Kalita)
Member (T), AERC

(K.S. Krishna)
Chairperson, AERC

Annexure-10: APGCL letter to AERC on intimation of STG restoration for NRPP



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam
CIN: U40101AS2003SGC007239

Tel.No.: 0361-2739502, Fax No.03612739546/22
e-mail: info@apgcl.org, Website: www.apgcl.org

No. APGCL/CGM (G)/AERC/2022/115/Pt-XII/ 53

Date: 31/03/2023

To,
The Secretary,
Assam Electricity Regulatory Commission,
ASEB Campus, Dwarandhar,
GS Road, Six Mile, Guwahati-22.

Sub: Restoration of 36.15 MW STG Unit of NRPP.

Ref: i) APGCL's letter no. APGCL/CGM(G)/AERC/2018/115/Pt-XI/70 dated: 25/03/2022
ii) APGCL's letter no. APGCL/CGM(G)/AERC/2022/115/Pt-XII/40 dated: 19/10/2022
iii) AERC Order No. AERC.839/2022/3 dated 08th December, 2022

Sir,

With reference to the above, we would like to inform you that the restoration work of 36.15 MW STG Unit of NRPP completed successfully and the Unit synchronised with national grid on 31.03.2023 at 00:58 Hours.

This is for your kind information.

Yours faithfully,

(B. Bhuyan)
Managing Director

CC:

1. OSD to the Chairman, APGCL: for favour of kind information of the Chairman, APGCL, Bijulee Bhawan, Guwahati-1.
2. OSD to Chairman, AERC: for favour of kind information of the Chairman, AERC.
3. The Member (Technical), Assam Electricity Regulatory Commission: for kind information.

E-mail: bibhu.bhuyan@apgcl.org

Tel. No: 0361-2739503

Annexure-11: GoA Financial Sanctions for conversion of grant to equity for APGCL

FINANCIAL SANCTION



Financial Sanction



Power (Electricity) Department

Sanction No: FS/42_2021-22(I)_06

Sanction Date: 31-12-2021

To,
Accountant General (A&E) Assam, Maidamgaon, Beltola, Guwahati-29

PURPOSE/SCHEME Conversion of Govt. of Assam Grants to APGCL into Equity (as on 31.03.2021) Book Adjustment only.

Proposal No. : FS-42-2021-22-00006
Administrative Approval : Not Applicable
Dept. File No : PEL.57/2021/PE-II
Financial Year : 2021-22

Finance Concurrence No : -N/A-
Sanctioned to : DIS/SAD/001 , SA(Accounts)Dept.
Sanctioned by: F R LASKAR, JT SECRETARY
HOA : 4801-80-190-2062-501-20-99-SOPD-ODS-V-GA
Issued under DFP Rules:

Financial Sanction of the competent authority is hereby accorded for an amount not exceeding Rs.132486.07000 Lakhs (Rupees One Thousand Three Hundred and Twenty Four Crore Eighty Six Lakh Seven Thousand only) towards the payment subject to the following terms and conditions:

TERMS & CONDITIONS

1. All norms in Assam Financial Rules, AFRBM Act 2005, CVC Guidelines, Assam Public Procurement Act 2017, Assam Public Procurement Rules 2021 and similar directives from Finance Department issued from time to time is to be strictly followed invariably.
2. The admissible deductions can be deducted and deposited into the Govt. Account by the Concerned Authority as per rule/ Govt. Instructions.
3. Work to be completed within the estimated cost in all respect without involving cost and time over run.

BENEFICIARY DETAILS

#	Name	Account Number	Amount (In Lakhs)	Remarks
1	ASSAM POWER GENERATION CORPORATION LIMITED	10566984166	132486.07000	Book Adjustment Only

COPY FORWARDED TO

1. The Accountant General (A&E) Assam, Maidamgaon, Beltola, Guwahati-29.
2. The Accountant General (Audit), Assam, Maidamgaon, Guwahati-29
3. The Power (Electricity) Department, Assam.
4. Finance (EC-III/III) Dept.
5. Finance (Budget) Dept.
6. SA(Accounts)Dept.
7. Treasury Officer, Dispur

This is a computer generated document and doesn't require any Signature/Seal



FINANCIAL SANCTION

Government Of Assam

Power (Electricity) Department

Sanction No: FS/pe_2023-24(I)_33

Sanction Date: 12-10-2023

To,
Accountant General (A&E) Assam, Maidamgaon, Beltola, Guwahati-29

PURPOSE/SCHEME Conversion of Government of Assam Grants to APGCL into Equity, as on 31.03.2023

Proposal No. : FS-pe-2023-24-00041

Administrative Approval : Not Applicable

Dept. File No : 388656

Financial Year : 2023-24

Grant No : 62

Finance Concurrence Remarks: N/A

Finance Concurrence No : -N/A-

Sanctioned to : DIS/SAD/001 , General Administration (Secretariat Accounts) Deptt.

Sanctioned by: Mr. Sanjib Sarma AFS, Senior Financial Advisor, Power (Electricity) Department

HOA : 4801-80-190-2062-501-20-99-SOPD-ODS-V-GA

DFP Rules: Cabinet approval dated 08/09/2023

Whether this work/scheme/program etc. has Forest Royalty due to the Government? : N/A

Financial Sanction of the competent authority is hereby accorded for an amount not exceeding **Rs.40206.00000 Lakhs (Rupees Four Hundred and Two Crore Six Lakh only)** towards the payment subject to the following terms and conditions:

TERMS & CONDITIONS

1. All norms in Assam Financial Rules, AFRBM Act 2005, CVC Guidelines, Assam Public Procurement Act 2017, Assam Public Procurement Rules 2021 and similar directives from Finance Department issued from time to time is to be strictly followed invariably.
2. The admissible deductions can be deducted and deposited into the Govt. Account by the Concerned Authority as per rule/ Govt. Instructions.
3. Work to be completed within the estimated cost in all respect without involving cost and time over run.

BENEFICIARY DETAILS

#	Name	Account Number	Amount (In Lakhs)	Remarks
1	ASSAM POWER GENERATION CORPORATION LIMITED	10566984166	40206.00000	Book Adjustment only

COPY FORWARDED TO

1. The Accountant General (A&E) Assam, Maidamgaon, Beltola, Guwahati-29.
2. The Accountant General (Audit), Assam, Maidamgaon, Guwahati-29
3. The Chief Inspectorate of Electricity, Assam.
4. Finance (EC-I/II/III) Dept.
5. Finance (Budget) Dept.
6. General Administration (Secretariat Accounts) Deptt.
7. Treasury Officer, Dispur

Annexure-12: PFC loan details and applicable rates for FY 2022-23

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 08/04/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 16/04/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 16/04/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	23,43,16,755
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	23,43,16,755

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृप्या बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	56	3,03,25,984	44,92,192	0	0	0	0	0	0	0	0	3,48,18,176
62401003	15	8,75,51,394	10,81,92,403	0	0	0	0	0	0	0	0	19,57,43,797
62404001	53	30,47,387	7,07,395	0	0	0	0	0	0	0	0	37,54,782
योग /TOTAL :		12,09,24,765	11,33,91,990	0	0	0	0	0	0	0	0	23,43,16,755

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 12/07/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/07/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/07/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	22,76,01,359
(+)Overdue of Previous demands - if any	-1
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	22,76,01,358

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	57	3,03,25,984	31,70,519	0	0	0	0	0	0	0	0	3,34,96,503
62401003	16	8,75,51,393	10,29,74,829	0	0	0	0	0	0	0	0	19,05,26,222
62404001	54	30,47,387	5,31,247	0	0	0	0	0	0	0	0	35,78,634
योग /TOTAL :		12,09,24,764	10,66,76,595	0	0	0	0	0	0	0	0	22,76,01,359

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 12/08/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 16/08/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 16/08/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,73,27,987
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,73,27,987

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृप्या बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	8,57,436	0	0	0	0	0	0	0	0	8,57,436
62401003	0	0	3,63,06,243	0	0	0	0	0	0	0	0	3,63,06,243
62404001	0	0	1,64,308	0	0	0	0	0	0	0	0	1,64,308
योग /TOTAL :		0	3,73,27,987	0	0	0	0	0	0	0	0	3,73,27,987

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 13/09/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/09/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/09/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,49,94,988
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,49,94,988

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	8,03,846	0	0	0	0	0	0	0	0	8,03,846
62401003	0	0	3,40,37,103	0	0	0	0	0	0	0	0	3,40,37,103
62404001	0	0	1,54,039	0	0	0	0	0	0	0	0	1,54,039
योग /TOTAL :		0	3,49,94,988	0	0	0	0	0	0	0	0	3,49,94,988

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 12/10/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/10/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/10/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,43,31,255
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,43,31,255

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	58	3,03,25,983	8,03,846	0	0		0	0	0	0		3,11,29,829
62404001	55	30,47,387	1,54,039	0	0		0	0	0	0		32,01,426
योग /TOTAL :		3,33,73,370	9,57,885	0	0		0	0	0	0		3,43,31,255

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 10/10/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/10/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/10/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	11,59,15,643
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	11,59,15,643

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	17	8,75,51,391	2,83,64,252	0	0	0	0	0	0	0	0	11,59,15,643
योग /TOTAL :		8,75,51,391	2,83,64,252	0	0	0	0	0	0	0	0	11,59,15,643

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 10/11/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/11/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/11/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	6,86,406
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	6,86,406

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	5,53,761	0	0		0	0	0	0		5,53,761
62404001	0	0	1,32,645	0	0		0	0	0	0		1,32,645
योग /TOTAL :		0	6,86,406	0	0		0	0	0	0		6,86,406

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 07/11/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/11/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/11/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,26,13,733
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,26,13,733

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर	योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGSTSGSTIGST	TOTAL (')
62401003	0	0	3,26,13,733	0	0	0	0	0 0 0 0	3,26,13,733
योग /TOTAL :		0	3,26,13,733	0	0	0	0	0 0 0 0	3,26,13,733

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 07/12/2022

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/12/2022 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/12/2022 as per details given below :

The Summary of Dues is as under:

Due for the current month	6,64,264
(+)Overdue of Previous demands - if any	-1
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	6,64,263

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456204, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	5,35,898	0	0		0	0	0	0		5,35,898
62404001	0	0	1,28,366	0	0		0	0	0	0		1,28,366
योग /TOTAL :		0	6,64,264	0	0		0	0	0	0		6,64,264

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 11/01/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 16/01/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 16/01/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,40,81,920
(+)Overdue of Previous demands - if any	-1
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,40,81,919

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	59	3,03,25,984	5,71,625	0	0		0	0	0	0		3,08,97,609
62404001	56	30,47,387	1,36,924	0	0		0	0	0	0		31,84,311
योग /TOTAL :		3,33,73,371	7,08,549	0	0		0	0	0	0		3,40,81,920

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 05/01/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/01/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/01/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	11,80,61,013
(+)Overdue of Previous demands - if any	-1
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	11,80,61,012

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	18	8,75,51,392	3,05,09,621	0	0	0	0	0	0	0	0	11,80,61,013
योग /TOTAL :		8,75,51,392	3,05,09,621	0	0	0	0	0	0	0	0	11,80,61,013

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep. Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 10/02/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/02/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/02/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,70,642
(+)Overdue of Previous demands - if any	2
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,70,644

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
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 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456279, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456204, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	2,67,949	0	0		0	0	0	0		2,67,949
62404001	0	0	1,02,693	0	0		0	0	0	0		1,02,693
योग /TOTAL :		0	3,70,642	0	0		0	0	0	0		3,70,642

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 08/02/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/02/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/02/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,18,55,274
(+)Overdue of Previous demands - if any	2
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,18,55,276

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:

1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:

1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)

2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।

2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.

3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।

3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.

4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।

4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.

5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।

5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.

6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।

6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.

7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।

7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	3,18,55,274	0	0	0	0	0	0	0	0	3,18,55,274
योग /TOTAL :		0	3,18,55,274	0	0	0	0	0	0	0	0	3,18,55,274

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 13/03/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/03/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/03/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,45,933
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,45,933

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	2,50,086	0	0	0	0	0	0	0	0	2,50,086
62404001	0	0	95,847	0	0	0	0	0	0	0	0	95,847
योग /TOTAL :		0	3,45,933	0	0	0	0	0	0	0	0	3,45,933

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2022-2023

दिनांक / Dated : 09/03/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/03/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/03/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	2,87,72,506
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	2,87,72,506

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS


1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	2,87,72,506	0	0	0	0	0	0	0	0	2,87,72,506
योग /TOTAL :		0	2,87,72,506	0	0	0	0	0	0	0	0	2,87,72,506

** This is not an Invoice

**Annexure-13: Income Tax Return Acknowledgement
(ITR-6) for FY 2022-23 (AY 2023-24)**

INDIAN INCOME TAX RETURN ACKNOWLEDGEMENT				Assessment Year 2023-24
[Where the data of the Return of Income in Form ITR-1(SAHA)], ITR-2, ITR-3, ITR-4(SUGAM), ITR-5, ITR-6, ITR-7 filed and verified] (Please see Rule 12 of the Income-tax Rules, 1962)				
PAN	AAFCA4891F			
Name	ASSAM POWER GENERATION CORPORATION LIMITED			
Address	3RD FLOOR, BIJULEE BHAWAN, A.T ROAD, PALTAN BAZAR , GUWAHATI , 04-Assam, 91-INDIA, 781001			
Status	6-Public company	Form Number	ITR-6	
Filed u/s	139(1)-On or before due date	e-Filing Acknowledgement Number	470869411301023	
Taxable Income and Tax Details	Current Year business loss, if any	1	0	
	Total Income	2	0	
	Book Profit under MAT, where applicable	3	1,11,50,05,937	
	Adjusted Total Income under AMT, where applicable	4	0	
	Net tax payable	5	19,48,13,838	
	Interest and Fee Payable	6	1,67,16,958	
	Total tax, interest and Fee payable	7	21,15,30,796	
	Taxes Paid	8	21,15,30,800	
	(+) Tax Payable /(-) Refundable (7-8)	9	0	
Accreted Income and Tax Detail	Accreted Income as per section 115TD	10	0	
	Additional Tax payable u/s 115TD	11	0	
	Interest payable u/s 115TE	12	0	
	Additional Tax and interest payable	13	0	
	Tax and interest paid	14	0	
	(+) Tax Payable /(-) Refundable (13-14)	15	0	
This return has been digitally signed by <u>SURESH KAIMAL</u> in the capacity of <u>Principal Officer</u> having PAN <u>AECPK4255K</u> from IP address <u>49.37.88.106</u> on <u>30-Oct-2023 16:50:25</u> at <u>49.37.88.106</u> (Place) DSC SI.No & Issuer <u>7790574</u> & <u>6336093550770556407CN=PantaSign Sub CA for DSC 2022,OU=Certifying Authority,O=Pantagon Sign Securities Pvt. Ltd.,C=IN</u>				
System Generated Barcode/QR Code	 AAFCA4891F064708694113010238d517377a883128d2d017e5b3f77638010c06f84			
<u>DO NOT SEND THIS ACKNOWLEDGEMENT TO CPC, BENGALURU</u>				

Annexure-14: DPR with cost benefit analysis and details with respect to Combustion Inspection of the GT Unit of NRPP



ASSAM POWER GENERATION CORPORATION LIMITED

OFFICE OF THE CHIEF GENERAL MANAGER (GENERATION), APGCL
BIJULEE BHAWAN (3RD FLOOR), PALTAN BAZAR, GUWAHATI-781001

DETAIL PROJECT REPORT

NAME OF WORK:

SUPPLY OF SPARES AND SITE SERVICES REQUIRED FOR COMBUSTION INSPECTION (CI) OF THE GAS TURBINE UNIT OF 1 X 98.4 MW CC NAMRUP REPLACEMENT POWER PROJECT (NRPP), APGCL, NAMRUP

TOTAL ESTIMATED AMOUNT: RS. 1850 LAKH

Proposed under Special R&M for FY 2022-23 & FY 2023-24

Details of the proposal:

As per the OEM Guidelines attached in **Annexure I**, the GT Unit of NRPP requires a mandatory Combustion Inspection (CI) at the completion of 12000 Running Hours (RH).

To ensure availability and reliability of the plant, it is essential that the required maintenance is carried out as per the OEM recommended schedule. The CI work of the GT Unit of NRPP is a very important work for ensuring the healthiness of the Turbine and it is mandatory as per the OEM Guidelines. Delaying the work may result in the deterioration of the overall performance of the GT Unit. As NRPP is a newly commissioned station, timely completion of the maintenance works is essential for reliable operation for the rest of the useful life of the project and for uninterrupted power generation for the people of Assam.

Brief Description of the proposal:

The Gas Turbine (Model: MS-6001FA+e) of Namrup Replacement Power Project Phase-I was installed and commissioned in July' 2021 by Bharat Heavy Electricals Ltd. As per OEM, Combustion Inspection (CI) of Gas Turbine is to be done at 12000 running hours. Accordingly, the Combustion Inspection of the GT unit of NRPP was tentatively scheduled in the Month of November' 2022 considering Machine Availability factor of 85%. Accordingly, APGCL proposed the work in the APR for FY 2022-23, the Tariff Petition for FY 2023-24 and the Review of the Tariff Order for FY 2023-24. The Hon'ble Commission in the APR Order for FY 2022-23 directed APGCL to submit detailed DPR for the work. APGCL submitted the same in the Review Petition and the Hon'ble Commission in the Review Order dated 25/07/2023 stated that the Commission shall consider this expense during the True-up of FY 2022-23 based on actual expenditure and submissions to be made by APGCL in the separate Petition. Now, as per the directive of the Hon'ble Commission in the Tariff Order of FY 2023-24 and the Review Order dated 25.07.2023, APGCL is submitting this DPR to the Hon'ble Commission for approval of the work of CI of the GT Unit of NRPP. In the meanwhile, due to the emergency nature of the work for preventive maintenance APGCL carried out the CI of the GTU of NRPP from 22.02.2023 to 12.03.2023 at 14421 RH.

To carry out the combustion inspection of the Gas Turbine, both spares and site services were required. Accordingly, M/S BGGTS (BHEL GE Gas Turbine Services Pvt Ltd) was requested to submit their offer and they submitted their firm offer on 08.03.2022 for an amount of **Rs. 39,56,14,144/-**.

Accordingly, the proposal was placed in the APGCL Board and the Board approved the same on 1st April 2022
[Copy enclosed at Annexure-II]

Further, the GM, NTPS vide Letter no. GM/NTPS/APGCL/2022-23/F-06/728 dtd. 12.04.2022 informed that M/S BHEL had supplied APGCL some capital spares as part of mandatory spares which can be used in CI. As such, due to budget constraint and on inspection by the site engineers, the estimate was revised and a **discount @3%** was also offered by M/S BGGTS.

ESTIMATE:

APGCL collected an offer of **Rs. 14.92 Crore** excluding GST and Freight Charge from the OEM BGGTS (BHEL-GE Gas Turbine Services Pvt. Ltd.) for the spares and services of the CI of the GT Unit of NRPP. The offer letter attached has been attached in **Annexure III**.

Offer obtained from M/S BHEL-GE Gas Turbine Services Private Limited.

Ref. No.: Q21-0427, dtd. 31-03-2022

Total Amount (Inclusive of all taxes and duties): Rs. 18,50,00,000.00

The work details along with prices are as given below:

TABLE A:- (Spares-Annexure-I)

Sl. No.	Item Description	Amount (in Rs.)
1	Capital Spares	11,13,27,492.00
2	Hardware Spares	2,89,07,648.00
3	Operational Spares	70,61,340.00
Total Basic Price		14,72,96,480.00

TABLE B:- (Site Services)

Sl. No.	Item Description	Amount (in Rs.)
1	Site Services for combustion inspection with DLN Tuning	65,00,000.00

TOTAL FINANCIAL INVOLVEMENT		
Sl. No.	Description	Amount (Rs.)
1	Complete Spares (A)	14,72,96,480.00
2	Site Services (B)	65,00,000.00
Total (A+B)		15,37,96,480.00
Discount @3%		46,13,894.40
Total after discount		14,91,82,586.00
(Rupees Fourteen crore Ninety-One Lakh Eighty One Thousand Five Hundred Eighty Six Only)		

Execution of work: Through the OEM M/S BHEL-GE Gas Turbine Services Private Limited, Hyderabad-500081.

JUSTIFICATION:

As the CI is a routine O&M work to be performed after the completion of a certain running hours of the GT as per OEM guidelines, this work is of preventive maintenance nature. As such, not performing the work in time may increase the probability of forced shutdown of the turbine.

Further, if the GT of NRPP goes under forced shutdown due to not carrying out the CI, it will take around 7 months to restore the unit due to lead time in supply of spares.

In view of the above, carrying out the CI work of the GT Unit of NRPP as per the OEM guidelines is justified.

COST BENEFIT ANALYSIS:

Particulars	Value	Unit
Approved ROE for FY 2023-24	33.90	INR Crores
Net Energy Approved for FY 2023-24	696.05	MU
Profit lost	0.49	INR/kWh
Tariff for FY 2023-24	3.54	INR/kWh
Capacity impacted	98.4	MW
Daily generation loss	2,007,360	kWh
Loss in profit due to outage per day	0.10	INR Crores
Loss in revenue due to outage per day	0.71	INR Crores
Time required to receive CI spares at site from Order date	210.00	days
Loss in profit in 7 months/210 days	20.53	INR Crores
Loss in revenue in 7 months/210 days	149.23	INR Crores
Total Investment	18.50	INR Crores
Payback period with profit	189.23	days
	0.52	years
Payback period with revenue	26.03	days
	0.12	years



Table 1-1

RECOMMENDED INSPECTION INTERVALS

TYPE OF INSPECTION	COMBUSTION SYSTEM	MS 6 FA+e (EQUIVALENT HOURS / EQUIVALENT STARTS)*
Combustion	Non – DLN	8,000 / 450
	DLN	12,000 / 450
Hot Gas Path		24,000 / 900
Major		48,000 / 2400

***Inspection has to be carried out based on either accumulated Equivalent Hours or accumulated Equivalent Starts (whichever occurs first)**

NOTES

1. The types of Inspections listed above are recommended Inspections involving disassembly of respective Gas Turbine assemblies. They shall be supplemented by general borescope inspections of those parts which are not disassembled during the current inspection.
2. During these Inspections, disassembled parts are checked for damage which may necessitate refurbishment / repair or replacement. The recommendations with respect to the acceptance limits are listed in respective sections of the O&M Manual.
3. While the predicted replacement intervals are generally longer than the first inspection intervals of the concerned parts, it is not unusual to find the need to repair / refurbish or replace some parts during the inspection, as the life of the component is strongly influenced by the type of operations and the operating environment which the components have been subjected to. To keep the down time of the inspection low, it is advised to keep the recommended spares for each inspection ready before the inspection is carried out. The removed parts can be repaired / refurbished, if found reusable; and used during the next inspection. The recommended spares for each inspection are already listed in the "Standard Practices" section of this volume.
4. The findings of these inspections are strongly influenced by the conditions of operation of a specific installation. The recommended inspection intervals therefore can be reviewed by O&M groups to establish specific intervals applicable to each O&M environment based on the past record of inspections.
5. Equivalent Hours or Equivalent Starts are based on actual fired hours or starts respectively, corrected for influences of type of fuel, diluents used, trips, peak load operation etc.

Ratnakar Rao 06.04.22
Asstt. General Manager (Mech)
NRPP, NTPS, APGCL, Namrup

V. Lakshmi
06.04.2022

Deputy General Manager
Namrup Replacement Power Plant
APGCL, NTPS, Namrup

Bharat Heavy Electricals Ltd., Hyderabad



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltan Bazar, Guwahati-781 001, Assam

CIN:U40101AS2003SGC007239, GSTIN: 18AAFCA4891F1ZJ

Tel.No.: 0361-2739503, Fax No.03612739522/546

e-mail: md@apgcl.com, Website: www.apgcl.org

DECISION OF 95TH BOARD MEETING HELD ON 01ST APRIL, 2022

RESOLVED THAT approval be and is hereby granted for "Procurement of Spares and Site Services for Combustion Inspection (CI) of Gas Turbine of NRPP" at an estimated cost of Rs.39,56,14,144.00 (Rupees Thirty Nine Crores Fifty Six Lakhs Fourteen Thousand One Hundred and Forty Four only). RESOLVED FURTHER THAT the matter be forwarded to the Hon'ble AERC for approval.

MANAGING DIRECTOR



BHEL-GE Gas Turbine Services Pvt. Ltd.

Quotation: Q21-0427

Date: 31st March 2022

To

**Assam Power Generation Corporation Ltd – Namrup
Namrup Thermal Power Station
P.O.: NTPS,
Dibrugarh, Namrup - 786622
ASSAM-INDIA.**

A1,A2 & A3, Quadrant 1, 7th Floor,
Cyber Towers, Madhapur,
HyderabadTelangana,500081 India
Telephone: 91-40-40640111Fax: 91-
40-27816962

Subject: Offer for Supply of GT Spares and Site services of CIBI.

Customer Ref: E-mail

Date: 8th March 2022.

SCOPE OF WORK

BHEL-GE Gas Turbine Services Pvt. Ltd., a joint venture between GE and BHEL, are pleased to submit quotation for the supply of parts and site Services as described in appendix 'A' attached, against parts identified in your email enquiry. HSN code for Gas Turbine Spare parts shall be provided before shipment and GST will be charged extra at actuals as per Govt. rules. SAC code for the offered site services is 9983 and GST shall be charged extra at actuals as per GST regime.

Commercial Terms and Condition

PRICE:

The total price for the supply of parts of GT listed in Appendix 'A' of this proposal. The price excludes all taxes and Duties, Freight and Insurance and which shall extra to Buyer account.

SHIPMENT, FRIEGHT & INSURANCE:

BGGTS have quoted Ex Works/ Ex Suppliers works prices, which do not include the Taxes and duties, sales tax, insurance and freight.

TAXES:

All taxes and Duties are Extra at Actuals as per GST guide lines.

BGGTS has not included in its price the Any taxes and duties, which are extra payable by Buyer, as applicable on the date of dispatch as per GST rules.

Taxes & Duties

Our Price does not include the customs duties, BCD, CESS, IGST or any other taxes including the Octroi, if applicable. These shall be borne directly by purchaser. Also, under high sea sales, If any other tax is applicable later on shall be borne by the purchaser. "Any increase or decrease in Indirect Taxes applicable on the Contract Price or any element therein due to change in law shall be to the account of the Customer. It is hereby clarified that in case of introduction of a Goods and Services Tax by any name or nomenclature, in addition to the above-mentioned adjustment in this clause / contract price on the output side, any increase or decrease of Indirect Taxes on the Suppliers / Service Providers procurement will also be considered for this clause and shall be to the account of the Customer." "Indirect Taxes" means CGST, SGST, Works Contract Tax, Goods and Service Tax (GST), Octroi, Entry Tax any other tax other than taxes applicable to the contract." "Change in Law" means enactment or introduction of any new law or levy (including but not limited to Goods and Service Tax (GST)) that is applicable



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to the country and / or State where the Project is to be developed or where to or from the Supply of the Equipment to be made, repairs or services are to be rendered."

"As per the Finance Act, 2020 a new sub-section (1H) to Section 206C of the Income-tax Act, 1961 is inserted, mandating every seller whose gross receipts from sales exceeded Rs. 10 Crore during the immediately preceding financial year, to collect tax at source ('TCS') at the rate of 0.1% on the value of sale consideration or the aggregate of sale consideration to a buyer exceeding Rs. 50 Lakh in current year. Due to COVID the applicability of the said provision is extended to 1st October 2020 with a reduction of 25% in the applicable TCS rates i.e. 0.075% till 31st March 2021. From 1st April 2021 the rate would be 0.1% on the sales consideration.

If You fall in above criteria, we will have to collect TCS @ 0.075% along with our invoice and deposit with the department. Also, we will provide you with certificate of deposit of tax for you records.

In view of above, all our customers are requested to make note of this change with effect from 1st Oct 2020.
"

ORDER CANCELLATION:

Once the purchaser places the order, it cannot be cancelled unless seller accepts the cancellation in writing.

OTHER TERMS & CONDITIONS:

All other terms & conditions shall be as per BGGTS Standard Terms and conditions only.

Limitation of Liability:

BGGTS does not accept any liability for any loss, damage to building / plant / equipment personnel due to any third part / personnel or due to any cause whatsoever and all claims against BGGTS or our personnel are excluded. We recommend that a suitable insurance cover be taken by Buyer to shield the same. Notwithstanding any other provisions of this contract.

BGGTS shall not be liable for loss of profit or revenues, loss of use of equipment or systems, interruption of business, cost of replacement Power, cost of capital, downtime costs, increased operating costs, any special, consequential, incidental, indirect, or punitive damages or claims of Buyer's customers for any of the foregoing types of damages. whether caused by our breach of contract, tort or otherwise howsoever arising. Our overall liability is limited to this contract value.

All BGGTS liability shall end upon expiration of the applicable warranty period, provided that Buyer may continue to enforce a claim for which it has given notice prior to that date by commencing an action or arbitration, as applicable under this Contract, before expiration of any statute of limitations or other legal time limitation but in no event, later than one year after expiration Of such warranty period. BGGTS shall not be liable for advice or assistance that is not required for the work scope under this Contract.

Validity: Offer is valid for 30 days from the date of our offer.

Terms of Payment

100% of payment will be paid by buyer against Letter of Credit. Buyer shall open an irrevocable and confirmed letter of credit in our favour through nationalized bank acceptable to the BGGTS immediately on order acceptance at the following address:



BHEL-GE Gas Turbine Services Pvt. Ltd.

BHEL-GE Gas Turbine Services Pvt. Ltd.
Cyber Towers, Quadrant 1, 7th Floor, Hi Tech City,
Madhapur, Hyderabad-500081, India.

The letter of credit shall allow partial shipments and remain valid for a period of thirty (30) days after the scheduled date of dispatch of the last item and for Services against the MOM. All bank charges for opening, extending or amending of the documentary credit shall be paid by Buyer.

Completion Period:

Supply: Our Standard Delivery time for Parts mentioned in the Price Schedule is 50 weeks and shall be counted from the date of receipt of technically and commercially clear order and amendments, if any, subject to finalization of order before expiry of validity period.

WARRANTY CLAUSE

Supply : Parts quoted by us are warranted for a period of 18 months from the date of dispatch or 12 months from the date of installation whichever expires earlier. It is strongly recommended that, after supply of goods, subject to an order, purchaser to conduct material inspection at site within 15 days from the date of receipt of material to avail the warranty benefit, when parts are not used immediately in the equipment.

Site Services: 6 months workmanship warranty shall be applicable from the date of handing over of the machine to buyer.

NON-ACCEPTANCE OF LIQUIDATED DAMAGES / PRICE REDUCTION SCHEDULE CLAUSE:

As a Company Policy, BGGTS shall not accept any liquidated damages clause for delays in delivery. However, BGGTS shall endeavor to meet delivery mentioned in quotation and even improves it wherever possible.


NON-ACCEPTANCE OF PBG AND SD CLAUSE:

As a Company Policy, BGGTS shall not accept any Performance Bank Guarantee (PBG) and Security Deposit (SD) Clause. However, BGGTS shall endeavor to meet delivery mentioned in quotation and even improves it wherever possible.

"Both Seller and Buyer acknowledge that the COVID-19 epidemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid price, , Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost."

Thanking you

For **BHEL-GE Gas Turbine Services Pvt. Ltd.**


Ravindra Chinta
Dy. Manager-(Commercial)



BHEL-GE Gas Turbine Services Pvt. Ltd.

Annexure-1

APGCL-Ref# E-mail
BGGTS Ref# Q21-0427

Dated 8th March 2022.
Dated 31st March 2022.

Part-A (Supply of Capitals)

GE DRG. No	ML	MLPT	PART DESCRIPTION	QTY	Unit Price (INR)	Total Price (INR)
	NO	NO				
129E8036G014	513		FUEL NOZZ. ARRGT GT			
129E8035G005/ GT9751848148	513	1	FUEL NOZZLE ASSY	6	15,430,860.00	92,585,160.00
119E6237G004/GT9751848083	513	722	CAP ASSEMBLY, COMBUSTION	6	6,989,187.00	41,935,122.00
119E2899G007	702		TRANSITION PC ASSY COMBUSTION			
119E2899G007	702		TRANSITION PC ASSY COMBUSTION	6	18,554,582.00	111,327,492.00
119E2805G001	703		CAP & LINER ARRGT, COMBUSTION			
119E2261G001	703	1	CAP&LINER ASSY, COMBUSTION	1	7,606,292.00	7,606,292.00
119E2261G002	703	2	CAP&LINER ASSY, COMBUSTION	2	7,606,292.00	15,212,584.00
119E2261G003	703	3	CAP&LINER ASSY, COMBUSTION	2	7,606,292.00	15,212,584.00
119E2261G004	703	4	CAP&LINER ASSY, COMBUSTION	1	7,606,292.00	7,606,292.00
					Total(INR)-Ex-works	291,485,526.00

**** We have noted that APGCL already having FN, Caps, Liners in stock. Being critical for APGCL and considering the lead time of these spares, we recommend to procure one more set of FN, CAPs and Liners which can be used during any exigency without effecting the GT operations. Request you to kindly consider the same while evaluating our offer.**

Part-B (Supply of CI Hardware)

S.NO	Part No	ML NO	MLPT NO	Item Description	Qty	Unit Price (INR)	Ext Price (INR)
	129E8036G014	513		FUEL NOZZ. ARRGT GT			
1	318A9713P056	513	3	GASKET	6	5449	32694
2	N733AP35064	513	4	ALLOY STEEL 12 PT SCREW - 3/4" 10UNC LG 4"	25	452	11300
3	N5606P03006G11	513	6	GASKET SPIRAL WOUND - 3"XCL300	6	727	4362
4	N14P35072	513	7	BOLT HEXA.HEAD 3/4" 10UNC LG 4 1/2"ALLOY STEEL	10	255	2550



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5	N265BP35	513	8	LOCK NUT CARBON STEEL 3/4" 10UNC	10	94	940
6	N28P25010	513	9	BOLT - 3/8" 16UNC LG 5/8"	12	93	1116
	119E3058G003	701		CHAMBER ARR COMBUSTION	.		
7	N28P25010	701	5	SCREWSOCHD - 3/8" 16UNC LG 5/8"	12	93	1116
7a	209C4699P001	701		STOP,FLOW SLEEVE - COMB	5	8365	41825
7b	143E6310G001	701		CROSS FIRE TUBE ASSY.	6	413129	2478774
8	360A7261P001	701	6	GASKET	6	7186	43116
9	N733AP35048	701	7	ALY STL 12PT SCREW 3/4"-10 UNC	30	455	13650
10	188D9471G005	701	8	CROSSFIRE TUBE ASSY. (MALE)	6	135733	814398
11	188D9471G006	701	9	CROSSFIRE TUBE ASSY. (FEMALE)	6	147204	883224
12	230C3265P001	701	10	WIRE RETAINER	12	55982	671784
13	104C1378G001	701	12	INSERT AND GASKET ASSEMBL	24	434560	10429440
14	N14P29022	701	15	HX HD CAP SCREW&BOLT 1/2" 13UNC LG 1.375"	18	93	1674
15	318A9713P027	701	16	GASKET	2	525	1050
16	N733AP33040	701	17	ALY STL 12PT SCREW 5/8"-11UNC	4	449	1796
17	N402P17	701	18	WASHER, PLAIN 5/8"	2	93	186
18	194D6146P001	701	20	STOP,LINER ANTI-WITHDR	6	9712	58272
19	N646P21008	701	21	SCREW CAP FLAT HEX	12	93	1116
20	372A1159P010	701	25	GASKET SPIRAL WOUND 1-1/2" CL300	4	3639	14556
21	N402P18	701	26	WASHER, PLAIN 3/4"	4	208	832
22	N733AP35032	701	27	ALY STL 12PT SCREW 3/4"-10 UNC	4	339	1356
23	188D9489G026	1214		SPARK PLUG, SPRING POSITIONING	1	380460	380460
	119E3055G004	717		TRANSITION PC ARRG,COMBUSTION			
24	188D9456G001	717	1	BULL HORN ASSY.	6	232043	1392258
25	318A9872P001	717	2	LOCK PLATE	6	448	2688
26	318A9872P002	717	3	TP LOCK PLATE	12	847	10164
27	186C1916P022	717	4	TP BOLT	12	487	5844
28	233C5074G001	717	5	RETAINER SIDE SEAL ASSY.	6	74490	446940
29	224B9719P010	717	6	TP LOCK PLATE	6	4578	27468
30	353B3864P002	717	7	TP BOLT BB 5/8" 11 UNRC-2A	18	33811	608598
31	224B9719P012	717	8	LOCKING PLATE	12	9072	108864
32	221D1872G001	717	9	SIDE SEAL ASSBLY CLOTH	6	57837	347022
	119E2799G002	719		CASE ARRG,COMBUSTION OUTER			
33	N926BP229	719	1/5	WIRE LOCKING INSERT 1/2"-13 UNC	8	81	648



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34	N926BP335	719	1/8	WIRE LOCKING INSERT 3/4"-10 UNC	20	220	4400
35	N926BP233	719	2/11	WIRE LOCKING INSERT 5/8"-11 UNC	2	242	484
36	N926BP235	719	3/10	WIRE LOCKING INSERT 3/4"-10 UNC	4	309	1236
37	158A5457P001	719	1/6	PIN, STRAIGHT, HEADLESS	6	1257	7542
38	N733AP39052	719	6	ALY STL 12PT SCREW 1" - 8UNC	12	1146	13752
39	318A9713P043	719	7	GASKET SPIRAL WOUND	6	4827	28962
	806L1643G002	920		PIPING, FALSE START DRAIN			
40	372A1159P010	920	36	Gasket 1-1/2" CL300	3	3639	10917
41	N14DP35052	920	37	BOLT HEXA. HEAD 3/4 IN 10UNC LG 3 IN 1/4	4	313	1252
42	N265DP35	920	38	LOCK NUT CARBON STEEL 5/8 IN 11 UNC	4	112	448
	806L1760G005	924		PIPING ARRGT, AIR EXTRACTION			
43	N5606P02006G22	924	72	Gasket 2" CL600	12	1245	14940
44	N14DP33052B7	924	73	BOLT HX HD 5/8"	8	295	2360
45	N265DP33B7	924	74	LOCK NUT	20	1438	28760
46	372A1159P109	924	84	Gasket 1-1/4" CL300	6	1263	7578
47	N14DP33044B7	924	85	BOLT HX HD 5/8"	6	389	2334
	137E5624G001	962		Piping Arr. Fuel Gas			
48	372A1159P008	962	68	Gasket 1" CL300	28	1878	52584
49	372A1159P009	962	44	Gasket 1-1/4" CL300	15	1951	29265
50	372A1159P010	962	69	Gasket 1-1/2" CL300	15	3639	54585
51	N265DP33B7	962	59	Lock Nut 5/8"-11 UNC	20	1438	28760
52	N14DP33044B7	962	73	Hex HD Cap Screw 5/8"-11 UNC 2.75" LG	10	389	3890
53	N5606P03006G11	962	71	Gasket spiral wound 3" CL600	8	727	5816
54	N265DP35B7	962	58	Lock Nut 3/4"-10 UNC	20	1648	32960
55	N14DP35060B7	962	78	Hex HD Cap Screw 3/4"-10 UNC 3.75" LG	8	271	2168
56	N14DP33048B7	962	75	Hex HD Cap Screw 5/8"-11 UNC	12	424	5088
57	N14DP35064B7	962	79	Hex HD Cap Screw 3/4"-10 UNC 4" LG	10	715	7150
58	N5606P04003G11	962	72	Gasket spiral wound 4" CL300	5	1562	7810
59	N14DP35052B7	962	81	Hex HD Cap Screw 3/4"-10 UNC 3.25" LG	8	285	2280
60	N5606P02006G11	962	70	Gasket spiral wound 2" CL600	4	822	3288
61	N14DP33052B7	962	74	Hex HD Cap Screw 5/8"-11 UNC 3.25" LG	10	295	2950
	141E7315G001	705		CASE ARRGT TURBINE			
62	324B7458P005	705	1/3	STUD, BODY BOUND	2	14849	29698
63	324B7449P008	705	1/4	TE STUD 1.75" - 8 X 10.5" LG	1	7905	7905
64	324B7451P013	705	1/5	TE STUD 2.25" - 8 X 14" LG	2	15446	30892
65	324B7450P009	705	1/6	TE STUD 2" - 8 X 11" LG	1	10053	10053
66	324B7456P004	705	1/7	STUD, BODY BOUND	1	10722	10722



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67	324B7451P010	705	1/8	TE STUD 2.25" - 8 X 12.5" LG	1	10055	10055
68	N271TP52	705	1/9	ALLOY STEEL 12 PT NUT	4	2382	9528
69	N271TP54	705	1/10	ALLOY STEEL 12 PT NUT	2	3277	6554
70	N271TP56	705	1/11	ALLOY STEEL 12 PT NUT	8	4644	37152
	141E7315G001	1604		BOLTING & DOWELING ARRGT			
71	119E4930G003	1604	0001	HARDWARE STATOR CASE 6FA+e			
72	324B7449P013	1604	1/10	TE STUD 1.75" - 8 X 13" LG	4	6639	26556
73	324B7449P033	1604	1/11	TE STUD 1.75" - 8 X 23" LG	1	21175	21175
74	N733AP39080	1604	1/12	ALY STL 12PT SCREW	4	1100	4400
75	N271TP39	1604	1/13	ALLOY STEEL 12 PT NUT	8	1064	8512
76	N271TP52	1604	1/14	ALLOY STEEL 12 PT NUT	10	2382	23820
77	N432P14	1604	1/16	ALLOY STEEL 12 PT NUT	10	777	7770
				GASKETS FOR DIFFERENT SIZE PIPNG			
78	N5606P04001G11	909	54	Gasket 4" CL150	10	1809	18090
79	N5606P04003G11	909	53	Gasket 4" CL300	10	1562	15620
80	N5606P05001G11	909	55	Gasket 5" CL150	10	5022	50220
81	N5606P05003G11	909		Gasket 5" CL300	10	1834	18340
82	N5606P06001G11	909		Gasket 6" CL150	10	1407	14070
83	N5606P06003G11	909	52	Gasket 6" CL300	10	1469	14690
84	N5606P08001G11	909	50	Gasket 8" CL150	10	3897	38970
85	N5606P08003G11	909	51	Gasket 8" CL300	10	4502	45020
		1214		SPARK PLUG ASSY.			
86	184D9489G007	1214		SPARK PLUG ASSY.	2	578978	1157956.8
87	184A8731P001	1214	13	GASKET, SPIRAL WOUND	2	1646	3292
	119E8506G113			IGNITER EXITER ASSY			
88	121T4154P0001			IGNITER EXITER	1	3488577	3488577
89	354A1513P153			FLEXIBEL IGNITON LEAD	2	355254	710508
90	361A2558P003			FITTING CORD	2	1354	2708
91	361A2558P002			FITTING CORD	2	1499	2998
	108L4654G001	1121		DETECTOR, FLAME ASSY.			
92	362A1052P404	1121	1	DETECTOR, FLAME ULTRAVIOLET	2	677398	1354796
93	362A3342P002	1121	2	CABLE SIC FAME DET2 -WIRE	2	70186	140372
94	372A1159P010			GASKET, SPIRAL WOUND	4	3639	14556
	126E3835G001			THERMOCOUPLE ARR			
95	379A9705P006			TC, TYPE K, W/STUDS	3	50478	151434
96	379A9705P053			TC, TYPE K, W/STUDS	2	58493	116986
97	379A9705P011			TC, TYPE K, W/STUDS	2	43320	86640
98	379A9705P030			TC, TYPE K, W/STUDS	2	53449	106898
99	379A9705P056			TC, TYPE K, W/STUDS	1	39997	39997



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100	379A9705P009			TC,TYPE K,W/STUDS	3	51929	155787
101	379A9705P050			TC,TYPE K,W/STUDS	1	60545	60545
102	379A9716P001			GLANDS	6	9994	59964
103	121E1985G001			THERMOCOUPLE ARR. TB -1 STG			
104	156A1085P010			TUBE CONN	2	1715	3430
105	211A9110P001			ADAPTER,THERMOCOUPLE	2	11043	22086
106	242C7687G001			TUBE GUIDE TC STG 1	2	63261	126522
107	286A6292P006			REDUCER	2	426	852
108	318A9840P001			WELL,THERMOCOUPLE	2	14702	29404
109	357A1627P004			CLAMP LOOP	4	118	472
110	N14TP21008			BOLT HEXA.HEAD 1/4 IN 20UNC LG 1/2 IN	4	952	3808
				THERMOCOUPLE EXHAUST			
111	381A6581P004			TC,EXHAUST TYPE K,W/STUD	4	21987	87948
112	381A6581P006			TC,EXHAUST TYPE K,W/STUD	5	60211	301055
113	381A6581P011			TC,EXHAUST TYPE K,W/STUD	11	49087	539957
114	381A6581P016			TC,EXHAUST TYPE K,W/STUD	1	43788	43788
	145E6646G002	909		PIPING ARRANGEMENT CLG&SLG AIR			
115	N5606P08001G11	909		GASKET	14	3897	54558
116	N5606P10001G11	909		GASKET	2	5593	11186
117	N5606P08003G11	909		GASKET	22	4502	99044
		909		PIPING ARRANGEMENT CLG&SLG AIR			
118	N5606P03006G11	909		GASKET	8	727	5816
119	N5606P04001G11	909		GASKET	22	1809	39798
120	N5606P05001G11	909		GASKET	8	5022	40176
121	N5606P06001G11	909		GASKET	7	1407	9849
122	N5606P04003G11	909		GASKET	12	1562	18744
123	N5606P06003G12	909		GASKET	10	1562	15620
		918		PP ARR, FUEL NOZZLE PURGE			
124	N5606P02006G11	918	17	GASKET	10	822	8220
		962		PP ARR, FUEL GAS			
125	N5606P02006G11	962	70	GASKET	4	822	3288
126	372A1159P009	962	44	GASKET	6	1951	11706
127	372A1159P008	962	68	GASKET	24	1878	45072
128	372A1159P010	962	69	GASKET	12	3639	43668
129	N5606P04003G11	962	72	GASKET	4	1562	6248
130	N5606P03006G11	962	71	GASKET	8	727	5816
		972		PP ARR, COOLING AIR	0		
131	N5606P04001G11	972	19	GASKET	4	1809	7236
132	N5606P06001G11	972	3417	GASKET	2	1407	2814
						Total (INR)- Ex-works	28907648



BHEL-GE Gas Turbine Services Pvt. Ltd.

Part-C (Supply of Operational Spares)

LINE	MLI	MODEL LIST	PART	PART	RECOM	Unit Price (INR)	Total Price (INR)
ITEM	ITEM	DESCRIPTION	DESCRIPTION	NUMBER	QTY		
1	0962	PIPING ARR. GAS FUEL	FLEX HOSE GAS FUEL (PM1)	379A9760P101	2	75567	151134
2	0962	PIPING ARR. GAS FUEL	FLEX HOSE GAS FUEL (PM2)	379A9760P103	2	86253	172506
3	0962	PIPING ARR. GAS FUEL	FLEX HOSE GAS FUEL (PM3)	379A9760P105	2	101107	202214
4	0962	PIPING ARR. GAS FUEL	FLEX HOSE GAS FUEL (QUATERNARY)	379A9760P108	2	67628	135256
5	1022	VALVE,CONT-BLEED EXTRACTION	COMPRESSOR BLEED VALVE	395A3773P001	1	3200115	3200115
6	1022	VALVE,CONT-BLEED EXTRACTION	COMPRESSOR BLEED VALVE	395A3773P002	1	3200115	3200115
						Total (INR)-Ex-works	7061340.00

Special Note:

- The above offered prices are on Ex-works Hyderabad basis by considering the USD at 1USD=78/- for arriving ex-works price, if there is any dollar appreciation in the same shall be in APGCL account only.
- Freight, Transit insurance and GST shall be extra to APGCL account only.

Part-D (Site Services of CIBI with DLN Tuning)

S. No	Item	Qty	UOM	Unit price	Ext price
1	Combustion & Borescope Inspection with DLN Tuning	1	LS	6500000	6500000
				Total (INR)	6500000

Special Note:

- The above prices are basic prices and GST shall be extra at actuals at the time of invoicing.

For **BHEL-GE Gas Turbine Services Pvt. Ltd.**


Ravindra Chinta
 Dy. Manager (Commercial)

STANDARD TERMS AND CONDITIONS FOR SALE AND SERVICES

NOTICE: Sale or Services is expressly conditioned on Buyer's assent to these Terms and Conditions. Any additional or different terms proposed by Buyer are expressly objected to and will not be binding upon Seller unless agreed to in writing by Seller; provided however, that no pre-printed facility entry form shall modify these Terms and Conditions even if signed by Seller's representative. Any oral or written representation, warranty, course of dealing or trade usage not contained in these Terms and Conditions or the Contract shall not be binding on either party. Any order to perform work and Seller's performance of work shall constitute Buyer's assent to these Terms and Conditions. Unless otherwise specified in the quotation or Contract, any quotation by Seller shall expire 30 days from its date and may be modified or withdrawn by Seller before receipt of Buyer's acceptance.

1. Definitions. Unless Seller otherwise agrees:

"Buyer" means the entity to which Seller is providing Products or Services including repairs under the Contract.

"Contract" means the documents that comprise the agreement between Buyer and Seller for the sale or Services, including these Terms and Conditions and any other documents incorporated therein by reference, such as, the final quotation, the agreed scope(s) of work, and Seller's order acknowledgement.

"Products" means all equipment, parts, materials, supplies, software, and other goods Seller has agreed to supply to Buyer under the Contract.

"Seller" means the entity providing Products or performing Services under the Contract.

"Services" means all services Seller has agreed to perform for Buyer under the Contract.

"Repair" means all repair / refurbishment work that Seller has agreed to perform on used Parts for Buyer at Seller's premises under the Contract.

"Site" means the premises where Products are delivered or Services are performed, not including Seller's premises from which it performs remote Services.

"Terms and Conditions" means these Terms and Conditions for Sale and Services.

2. Payment. Except as otherwise agreed to by Seller in writing, and upon approved credit, the following payment terms apply:

2.1 Buyer shall pay Seller all invoiced amounts, without right of set-off, within 15 days from date of invoice. Seller shall be entitled to payment of all charges associated with Seller's performance of Services as the Services are performed. Buyer shall pay a monthly late payment charge computed at the rate of 1.5% (to be checked with standard invoices), or the maximum interest rate permitted by applicable law, whichever is less, on any past-due amount for each calendar month (or fraction thereof) that the payment is overdue and all costs of Seller's collection efforts including reasonable attorney's fees.

2.2 If at any time Seller reasonably determines that due to prevailing market conditions, do not justify the continuation of Seller's performance, Seller may require full or partial payment in advance or payment through irrevocable Letter of Credit or shall be entitled to suspend or terminate the Contract.

3. **Taxes and Duties.** Unless otherwise specified in the Contract, Seller shall be responsible for and pay directly, all corporate and individual taxes measured by net income or profit imposed by any governmental authority on Seller, its employees or subcontractors due to the execution of any agreement or the performance of or payment for work hereunder ("Seller Taxes"). Buyer shall be responsible for and pay directly when due and payable all taxes, duties, fees, or other charges of any nature (including, but not limited to, ad valorem, consumption, excise, franchise, gross receipts, import, license, property, sales, stamp, storage, transfer, turnover, use, or value-added taxes, and any and all items of withholding, deficiency, penalty, addition to tax, interest, or assessment related thereto), other than Seller Taxes, imposed by any governmental authority on Seller or its

employees or subcontractors due to the execution of any agreement or the performance of or payment for work hereunder ("Buyer Taxes"). All payments due and payable by Buyer to Seller hereunder shall be made in the full amount of the Contract price, free and clear of all deductions and withholding for Buyer Taxes and Government Levies, if any. If Buyer deducts or withholds Buyer Taxes, Buyer shall pay additional amounts to Seller to cause the amounts Seller actually receives, net of deducted or withheld Buyer Taxes, to equal the full Contract price. Buyer shall provide to Seller within one month accurate official receipts from the appropriate governmental authority for deducted or withheld taxes.

4. **Delivery; Title Transfer; Risk of Loss; Storage.** 4.1 For shipments within INDIA, Seller shall deliver Products to Buyer EXW Seller's / Sub-Supplier's facility, place of manufacture or warehouse. For all shipments from OUTSIDE INDIA, Seller shall deliver Products to Buyer FCA Port of Export (Incoterms 2000). Except for those obligations that are consistent with Incoterms 2000, Seller shall not be liable in any claim asserted by Buyer with respect to delivery. Partial deliveries and partial payment will be permitted. If Products delivered do not correspond in quantity, type or price to those itemized in the invoice for the shipment, Buyer will so notify Seller within 60 days after receipt. Seller may deliver any or all Products in advance of the delivery schedule.

4.2 Title to Products shipped from outside country of installation shall pass to Buyer immediately after each item departs from the territorial land, seas and overlying airspace of Port of export. Title to Products shipped from within the country where Products will be installed shall pass to Buyer when Products are made available for shipment from the manufacturer's factory or the storage facility utilized by Seller. Title to Services shall pass to Buyer as performed.

4.3 Notwithstanding Section 4.1 above, in all events risk of loss shall transfer to Buyer upon title passage.

4.4 If any Products cannot be shipped to or received by Buyer when ready due to any cause not attributable to Seller, Seller will notify Buyer and then may ship Products to a storage facility, including a facility within the place of manufacture, or to an agreed freight forwarder. If Seller places Products in storage or if Products are detained at any port, the following conditions shall apply: (i) title and all risk of loss or damage shall immediately pass to Buyer if they had not already passed; (ii) any amounts otherwise payable to Seller upon delivery or shipment shall be payable upon presentation of Seller's invoices; (iii) all expenses and charges incurred by Seller, such as for preparation for and placement into storage, handling, inspection, preservation, insurance, storage, demurrage, removal and any taxes shall be payable by Buyer upon submission of Seller's invoices; and (iv) when conditions permit and upon payment of all amounts due hereunder, Seller shall resume delivery of Products to the originally agreed point of delivery.

4.5 Buyer shall bear the sole risk of loss for Buyer's equipment during the term of the Contract. If repair Services are to be performed on Buyer's equipment at Seller's facility, Buyer shall be

responsible for transporting the equipment to and from Seller's facility.

5. Excusable Delays. Seller shall not be liable nor in breach or default of its obligations under the Contract to the extent performance of such obligations is delayed or prevented, directly or indirectly, due to causes beyond its reasonable control, including, but not limited to, acts of God, fire, terrorism, war (declared or undeclared), epidemics, material shortages, insurrection, acts (or omissions) of Buyer or Buyer's suppliers or agents, any act (or omission) by any governmental authority, strikes, labor disputes, transportation shortages, or vendor non-performance. The delivery or performance date shall be extended for a period equal to the time lost by reason of delay, plus such additional time as may be reasonably necessary to overcome the effect of the delay. If Seller is delayed by any acts (or omissions) of Buyer, or by the prerequisite work of Buyer's other contractors or suppliers, Seller shall be entitled to an equitable price and performance adjustment.

6. Compliance with Laws, Codes and Standards. 6.1 Seller represents that the Products will be produced in compliance with applicable fair labor standards laws, occupational safety and health laws.

6.2 The Contract price, delivery and performance dates and any performance guarantees will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change in industry specifications, codes, standards, applicable laws or regulations.

6.3 Seller's obligations are conditioned upon Buyer's compliance with all applicable trade control laws and regulations. Buyer shall not transship, re-export, divert or direct Products other than in and to the ultimate country of destination specified on Buyer's order or declared as the country of ultimate destination on Seller's invoice, except as permitted by applicable laws and regulations.

6.4 Notwithstanding any other provisions, Buyer shall timely obtain any required authorization, such as an export license, import license, foreign exchange permit, work permit or any other governmental authorization. Even if Seller applies for the authorization, Buyer shall be solely responsible for obtaining, maintaining and/or effectuating any governmental authorizations or notifications, required for the lawful performance of the Services at the Site.

7. Warranty. 7.1 Seller warrants to Buyer that (i) the Products shall be shipped free from defects in material, workmanship and title and (ii) the Services shall be performed in a competent, diligent manner in accordance with any mutually agreed specifications. Unless Seller expressly agrees otherwise in writing, any items not manufactured by Seller (including incidental materials and consumables used in the Services) shall carry only the warranty that the original manufacturers provide, and Seller gives no warranty on behalf of the manufacturers of such items.

7.2 Unless otherwise stated in the Contract, the warranty period for Products and Repairs shall be one year from first use or 18 months from delivery, whichever occurs first, except that software are warranted for 90 days from delivery. Unless otherwise stated in the Contract, the warranty period for Services shall be 6 months from completion, software related Services, which shall have a warranty period of 90 days from completion.

7.3 If Products or Services do not meet the above warranties, Buyer shall promptly notify Seller in writing within the warranty period. Seller shall thereupon (i) at Seller's option, repair or replace the defective Products in reasonable time or (ii) re-perform the defective Services. If in Seller's reasonable judgment the Product cannot be repaired or replaced or the Services cannot be re-performed, Seller shall refund or credit monies paid by Buyer for that portion of Products or Services that do not meet the above warranties. Any repair, replacement or re-performance by Seller hereunder shall not extend the applicable warranty period. The parties shall mutually agree on the specifications of any test to determine the presence of a defect.

7.4 Buyer shall bear the costs of access (including removal and replacement of systems, structures or other parts of Buyer's facility), de-installation, decontamination, re-installation and transportation of Products to Seller and back to Buyer.

7.5 These warranties and remedies are conditioned upon (a) the proper storage, installation, operation, and maintenance of the Products and conformance with the proper operation instruction manuals provided by OEM / Seller, (b) Buyer keeping proper records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of the Products or Services only as authorized by Seller. Seller does not warrant the Products or any repaired or replacement parts against normal wear and tear or damage caused by misuse, accident, or use against the advice of Seller. Any modification or repair of any of the Products or Services not authorized by Seller shall render the warranty null and void.

7.6 This Article provides the exclusive remedies for all claims based on failure of or defect in Products or Services, whether the failure or defect arises before or during the applicable warranty period and whether a claim, however described, is based on contract, warranty, indemnity, tort / extra contractual liability (including negligence), strict liability or otherwise. The warranties provided in this Article are exclusive and are in lieu of all other warranties and guarantees whether written, oral, implied or statutory. NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLIES.

8. Limitation of Liability. 8.1 The total liability of Seller for all claims arising out of or relating to the performance or breach of the Contract or use of any Products or Services or any order shall not exceed (a) the Contract price or (b) if this Contract is in the form of a frame or master agreement under which Buyer places an order with Seller for the Products and Services to be purchased, (i) the final price of the particular order under which the specific Products or Services giving rise to the claim are supplied or performed or (ii) RS. 5,00,000 if the claim is not part of any particular order. Seller's liability shall terminate upon the expiration of the applicable warranty period, provided that Buyer may enforce a claim that accrued prior to that date by commencing an action or filing an arbitration, as applicable under the dispute resolution clause, before the expiration of the applicable statute of limitations or repose, but not later than one year after the expiration of such warranty period.

8.2 Seller shall not be liable for loss of profit or revenues, loss of product, loss of use of Products or Services or any associated equipment, interruption of business, cost of capital, cost of cover, downtime costs, increased operating costs, claims of Buyer's customers for such damages, or for any special, consequential, incidental, indirect, punitive or exemplary damages.

9. Dispute Resolution, Governing Law. Any dispute arising out of or in connection with the Contract, including any question regarding its existence, validity or termination, shall be resolved in accordance with this paragraph and will be settled, if possible, by negotiation of the parties. If a dispute is not resolved by negotiations, either party may, by giving written notice, refer the dispute to a meeting of appropriate higher management of each party, to be held within twenty (20) business days after giving notice. If the dispute is not resolved within thirty (30) business days after the date of the meeting of higher management, or any later date to which the parties may agree, either party may submit to arbitration or court. The governing law shall be Indian Law and jurisdiction shall be the court of Hyderabad.

10. Confidentiality. 10.1 In connection with the Contract, Seller and Buyer (as to information disclosed, the "Disclosing Party") may each provide the other party (as to information received, the "Receiving Party") with "Confidential Information." "Confidential Information" means (a) all pricing for Products and Services, (b) all terms of the Contract, (c) all information that is designated in writing as "confidential" or "proprietary" by the Disclosing Party at the time of written disclosure, and (d) all information that is orally designated as "confidential" or "proprietary" by the Disclosing Party at the time of oral disclosure and is confirmed to be "confidential" or "proprietary" in writing within 10 days after oral disclosure.

10.2 The Receiving Party agrees: (i) to use the Confidential Information only in connection with the Contract and permitted use(s) and maintenance of Products and Services, (ii) to take reasonable measures to prevent disclosure of the Confidential Information, except to its employees, agents or financing parties who have a need to know for Buyer to perform its obligations under the Contract or to use and maintain Products or Services, and (iii) not to disclose the Confidential Information to a competitor of the Disclosing Party. The Receiving Party agrees to obtain a commitment from any recipient of Confidential Information to comply with the terms of this Article. Confidential Information shall not be reproduced without the Disclosing Party's written consent, and the Receiving Party shall return all copies of Confidential Information to the Disclosing Party upon request except to the extent that the Contract entitles the Receiving Party to retain the Confidential Information. Seller may also retain one copy of Buyer's Confidential Information until all its potential liability under the Contract terminates.

As to any individual item of Confidential Information, the restrictions of this Article shall expire the earlier of five (5) years after the date of disclosure or three (3) years after termination or expiration of the Contract.

11. Health and Safety Matters. 11.1 Buyer shall take all necessary precautions, at all times, for the health and safety of Seller personnel at the Site. These include, but are not limited to: providing to Seller for review, and instructing Seller's personnel regarding, Buyer's safety practices; proper and safe handling of, and protection of Seller's personnel from exposure to, Hazardous Materials; energization and de-energization of all power systems (electrical, mechanical and hydraulic) using safe and effective lock-out/tag-out procedures; and conducting periodic safety meetings.

11.2 Operation of Buyer's equipment is the responsibility of Buyer. If Buyer requires or permits Seller's personnel to operate Buyer's equipment at the Site, Buyer shall indemnify and save Seller, its employees and agents, harmless from expense and

liability (including reasonable attorneys' fees) incurred by or imposed upon Seller, its employees and agents, based upon exposure to Hazardous Materials, injury to persons (including death) or damage to property resulting from operation of equipment at the Site by Seller personnel. Buyer shall not require Seller personnel to work on other projects or equipment during the term of the Contract.

12. Site Access and Conditions; Hazardous Materials. Buyer shall provide Seller access to the Site and any other facilities free of charge, including the operating and development environment and information, as necessary for Seller's performance of the Contract. Prior to Seller starting any work at the Site, Buyer will (i) provide documentation that identifies any existing Hazardous Materials on or about the Site, and (ii) allow Seller, at its option, access to the Site to perform or have performed a Site evaluation, including without limitation, a review of applicable documents and visual examination of the Site. Whether or not Seller conducts any evaluation, Seller will have no responsibility or liability for existing Site conditions.

13. Termination and Suspension. 13.1 Buyer may terminate the Contract (or any portion thereof) for cause if Seller: (i) substantially breaches a material obligation which does not otherwise have a specified contractual remedy, provided that: (a) Buyer shall first provide Seller with detailed written notice of the breach and of Buyer's intention to terminate the Contract, and (b) Seller shall have failed, within 30 days after receipt of the notice (or such extended period as is considered reasonable by the parties), to either (1) commence and diligently pursue cure of the breach, or (2) provide reasonable evidence that the breach has not occurred; or (ii) becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for the benefit of its creditors, or files for protection from creditors under any bankruptcy or insolvency laws. If Buyer terminates the Contract as provided in this Section: (a) Buyer shall pay to Seller all portions of the Contract price allocable to work performed (for example, the price for Products completed or partially completed before the termination), and all Services performed at the Seller's then-current standard time and material rates; and (b) Seller shall pay Buyer the difference between that portion of the Contract Price allocable to the terminated scope and the actual amounts reasonably paid by Buyer to another supplier for that scope.

13.2 Seller shall have the right to suspend or terminate the Contract (or any portion thereof) immediately for cause if: (i) Buyer becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for the benefit of its creditors, or files for protection from creditors under any bankruptcy or insolvency laws; (ii) there is an excusable delay (as per Section 5 above) lasting longer than 120 days; (iii) any representation or warranty made by Buyer herein or in any document or certificate furnished by Buyer in connection herewith proves to be incorrect in any material respect; or (iv) Buyer materially fails to comply with any terms of the Contract, including but not limited to, failure to make any payment when due or to fulfil any payment conditions.

13.3 If the Contract (or any portion thereof) is terminated for any reason other than those set forth in Section 13.1 above, Buyer shall pay Seller for all Products completed or partially completed, and Services performed before the effective date of termination, plus a cancellation charge equal to 15% of the Contract price allocable to the uncompleted Products, and unperformed Services.

13.4 Buyer shall pay any reasonable expenses incurred by Seller in connection with a suspension or termination, including expenses for repossession, fee collection, demobilization/remobilization or costs of storage during suspension upon submission of Seller's invoice(s). Performance of Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of any suspension.

14. Intellectual Property Indemnification. 14.1 Subject to the terms of the Contract, Seller shall indemnify Buyer against any damages, costs and expenses arising out of any suit, claim, or proceeding (a "Claim") alleging that Products or Services infringe a patent in effect in the U.S., an EU member state or country of delivery (provided there is a corresponding patent issued by the U.S. or an EU member state), or U.S. copyright or copyright registered in the country of delivery; provided that: (a) Buyer promptly notifies Seller in writing of any such Claim; (b) Buyer makes no admission of liability and gives Seller sole authority, at Seller's expense, to direct and control all defense, settlement, and compromise negotiations; and (c) Buyer provides Seller with full disclosure and assistance that may be reasonably required to defend any such Claim.

14.2 Seller shall have no obligation or liability with respect to any Claim based upon: (a) any Products or Services that have been altered, modified, or revised; (b) the combination, operation, or use of any Products or Services with other products when such combination is part of any allegedly infringing process; (c) failure of Buyer to implement any update provided by Seller that would have prevented the Claim; (d) unauthorized use of Products or Services, including, without limitation, a breach of the provisions of the Contract; or (e) Products or Services made or performed to Buyer's specifications.

14.3 Should any Product or Service, or any portion thereof, become the subject of a Claim, Seller may at its option (a) procure for Buyer the right to continue using the Product or Service, or portion thereof, (b) modify or replace it in whole or in part to make it non-infringing, or (c) failing (a) or (b), take back Products or Services and refund any fees received by Seller attributable to the infringing Product or Service.

14.4 This states Seller's entire liability for indemnification for patent, trademark, copyright, and trade secret infringement for Products and Services.

14.5 Notwithstanding the foregoing, with respect to any Products or Services, or portions thereof, which are not manufactured/developed by Seller, only the indemnity of the manufacturer/developer, if any, shall apply.

15. Changes. 15.1 Each party may at any time propose changes in the schedule or scope of Products or Services in the form of a draft change order. Some changes requested by Buyer may require analytical or investigative work to evaluate the change, and this evaluation work may be charged to Buyer at prevailing rates. The parties may mutually agree on the length of time within which a decision shall be made regarding the change. If mutually agreed, the changes will be documented in a written document signed by authorized representatives of each party, along with any equitable adjustments in the Contract price or schedule. Seller is not obligated to proceed with the changed schedule or scope until both parties agree in writing. Changes in applicable laws, rules and regulations shall be treated as a change within the meaning, and subject to the requirements, of this Article. Unless otherwise agreed by the parties, pricing for

additional work arising from changes in laws, rules and regulations shall be at time and material rates.

15.2 All Products delivered shall conform to Seller's part or version number specified or (at Seller's option) its equivalent or the superseding number subsequently assigned by Seller. If the number ordered is no longer available, Seller is authorized to ship a valid interchangeable Product without notice to Buyer.

16. Inspection and Factory Tests. The quality control exercised by Seller / Sub-supplier in its manufacture of Products shall be in accordance with Seller's / Sub-supplier's normal quality control policies, procedures and practices. Seller shall attempt to accommodate Buyer's requests to witness Seller's factory tests of Products manufactured to order basis in line with Buyer's specifications, if such witnessing can be arranged without delaying the work. Such access shall be limited to areas directly concerned with Products ordered by Buyer and shall not include restricted areas where development work or work of a proprietary nature is being conducted.

17. General Clauses. 17.1 Products and Services sold by Seller are not intended for use in connection with any nuclear facility or activity without the written consent of Seller. Buyer warrants that it shall not use or permit others to use Products or Services for such purposes, unless Seller agrees to the use in writing. If, in breach of this, any such use occurs, Seller (and its parent, affiliates, suppliers and subcontractors) disclaims all liability for any nuclear or other damages, injury or contamination, and in addition to any other legal or equitable rights of Seller, Buyer shall indemnify and hold Seller (and its parent, affiliates, suppliers and subcontractors) harmless against any such liability. If Seller agrees in writing to any such use, the parties shall agree upon special terms and conditions that provide Seller protections against nuclear liability and which are acceptable to Seller under the then current laws that apply.

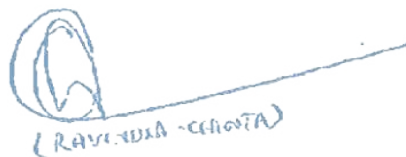
17.2 Seller may assign its rights and obligations under the Contract, in part or in whole, to any of its affiliates without Buyer's consent, and may subcontract portions of the work, so long as Seller remains responsible for it. Buyer agrees to execute any documents that may be necessary to effect Seller's assignment. The delegation or assignment by Buyer of any or all of its duties or rights under the Contract without Seller's prior written consent shall be void.

17.3 If any provision of the Contract is found to be void or unenforceable, the remainder of the Contract shall not be affected. The parties will replace any such void or unenforceable provision with a new provision that achieves substantially the same practical or economic effect and is valid and enforceable.

17.4 The Contract represents the entire agreement between the parties. No modification, amendment, rescission or waiver shall be binding on either party unless agreed in writing by the parties' authorized representatives.

17.5 This Contract may be executed in multiple counterparts that together shall constitute one agreement.

17.6 Except as provided in the Article entitled "Limitation of Liability," and in 17.1 above regarding nuclear use, this Contract is for the benefit of the parties and not for any third party.



(RAVINDRA CHANDRA)

Resolution of NRPP in the ZPC meeting held on 11.04.2022 in the Office of the GM, NTPS

Members Present:

1. Sri B. Gohain, AGM (Materials), GM(i/c)	: Chairman
2. Sri Kantaram Doley, DGM (Projects)	: convener
3. Sri D. Das, AGM (F & A)	: Member Secretary
4. Sri K. R. Borah, AGM(E)	: Member
5. Smt. S. Baishya, AGM(HR)	: Member
6. Sri Chandra K. Borah, AGM, Civil	: Member
7. Sri H. Gogoi, AGM(C & I), NRPP & AGM(Regulatory)	: Member
8. Sri K.B. Karmakar, AGM (OPND)(i/c)	: Member
9. Sri Migom Mili, AGM(GTMD/STMD)	: Member
10. Sri. Bimal Baglari, AGM(AMD)	: Member
11. Sri H. Phukon, AGM(i/c), (Mech)	: Member
12. Sri S. Brahma, Sr. Chemist	: Member

Division: NRPP (Mechanical Maintenance)

Agenda No: 01

Name of work: Procurement of Spares and Site services for Combustion Inspection (CI) of Gas Turbine of NRPP.

Revised Estimated Amount: Rs. 19,19,08,437.00 (Rupees Nineteen Crores Nineteen lakhs Eight Thousand Four hundred Thirty seven only)

Budget Provision: NRPP (High Cost) Head

Agenda placed by AGM (M), NRPP.

Gas Turbine (Model:-MS-6001FA+e) of NRPP Ph-1 was installed and commissioned by BHEL. As per OEM of BHEL, combustion inspection of Gas Turbine is to be done at 12000 running hours. As on date, Gas Turbine running hours is 7200 hours and will be tentatively reaching 12000 running hours on the month of November'2022 considering machine availability factor of 85%. To carry out the combustion inspection of Gas Turbine, both spares and site services shall be required.

In this context necessary communication was done with M/S General Electric (GE) and a budgetary offer was received from them as per email dated 02.02.2022 and later M/S GE intimated APGCL to continue further communication with M/S BHEL GE Gas Turbine Services (BGGTS) for submission of the firm offer for spares and services for CI. Later M/S BGGTS submitted their firm offer on 08.03.2022 and accordingly a resolution dated 14.03.2022 was taken for a budget amounting to Rs. 39,56,14,144.00 (Rupees Thirty Nine Crores Fifty six Lakhs Fourteen Thousand One Hundred and Forty Four only).







 S. Brahma H. Phukon M. Mili K. B. Karmakar H. Gogoi C. K. Borah







 S. Baishya K. R. Borah D. Das K. Doley B. Gohain

M/S BHEL had supplied APGCL with capital spares as mandatory spares, which will be used in CI and can thus be excluded from the offer submitted by M/S BGGTS. Due to budget constraints, and on inspection by the site engineers after correspondences with M/S BGGTS about the presence of the capital spares with APGCL, an estimate was prepared based on the latest offer dated 31.03.2022.

The Total Financial Involvement to be incurred by APGCL estimated as per M/S BGGTS offer dated 31.03.2022 is as follows:

TABLE A:- (Complete Spares) (Charges and Taxes to be paid at actual)

Sl.No.	Item Description	Amount (in Rs.)
1	Capital Spares	111,327,492.00
2	Hardware Spares	28,907,648.00
3	Operational Spares	7061340.00
	Total Basic Price	147,296,480.00
	Add: Freight Charges@5%	7,364,824.00
	Add: Insurance Charges@1%	1,472,964.80
	Sub Total	156,134,268.80
	Add:SGST@9%	14,052,084.19
	Add:CGST@9%	14,052,084.19
	Total (A)	184,238,437.18
	Total (Rounded)	184,238,437.00
Rupees Eighteen Crores Forty Two lakhs Thirty Eight Thousand Four hundred Thirty seven only)		

TABLE B:- (Site Services) (Taxes to be paid at actual)

Sl. No.	Item Description	Amount (in Rs.)
1	Site Services of CIBI with DLN Tuning	6500000
	Add:SGST@9%	585000
	Add:CGST@9%	585000
	Total (B)	7670000

TOTAL FINANCIAL INVOLVEMENT		
Sl.No.	Description	Amount (Rs.)
1	Complete Spares (A)	184,238,437.18
2	Site Services (B)	7,670,000.00

 S. Brahma
  H. Phukon
  M. Mili
  K. B. Karmakar
  H. Gogoi
  C. K. Borah

 S. Balshya
  K. R. Borah
  D. Das
  K. Doley
  B. Gohain
 11-04-2022

Total (A+B)	191,908,437.18
Total (Rounded)	19,19,08,437.00
(Rupees Nineteen Crores Nineteen lakhs Eight Thousand Four hundred Thirty seven only)	

Terms and Conditions:-

- As attached in Annexure-1
- The above offered prices are on Ex-works Hyderabad basis by considering the USD at 1USD=78/- for arriving ex-works price, if there is any dollar appreciation in the same shall be in APGCL account only.

Approval sought for the above matter and the estimated financial involvement of **INR 19,19,08,437.00 (Rupees Nineteen Crores Nineteen lakhs Eight Thousand Four hundred Thirty seven only)** which shall help to expedite the procurement process so that the materials reach NRPP site within the stipulated time of combustion inspection of Gas Turbine.

Placed in ZPC for approval.

Resolution No. 01 dtd. 11.04.2022: ZPC discussed the agenda and decided to authorize the GM(i/c),NTPS to forward the matter to HQ for further processing.


 S. Brahma


 H. Bhukon


 M. Mili


 K. B. Karmakar


 H. Gogoi


 C. K. Borah


 S. Baishya


 K. R. Borah


 D. Das


 K. Doley


 B. Gohain

Annexure-15: CAG Comments

SPEED POST



कार्यालय, प्रधान महालेखाकार (लेखा परीक्षा), असम

बेलतला, गुवाहाटी - 781 029

OFFICE OF THE PRINCIPAL ACCOUNTANT GENERAL (AUDIT),
ASSAM, BELTOLA, GUWAHATI-781 029

No. AMG-III(PSU)/ Power/4-5/2023-24/230

Date: 17/10/2023

10 OCT 2023

To,

The Managing Director,
Assam Power Generation Corporation Ltd,
Paltan Bazar, Guwahati,
Assam -781001

Sub: Comments of the Comptroller and Auditor General of India under Section 143(6)(b) of the Companies Act, 2013 on the accounts of Assam Power Generation Corporation Ltd. for the year 2022-23.

Sir,

I am directed to forward herewith the comments of the Comptroller and Auditor General of India under Section 143 (6)(b) of the Companies Act, 2013 on the accounts of **Assam Power Generation Corporation Ltd.** for the year ended 31 March 2023 for placing them before the Annual General Meeting of the Company.

The date of adoption of accounts in the Annual General Meeting of the Company may please be intimated.

Five copies of the printed Annual Report of the Company, when ready, may please be sent to this office.

Receipt of this letter with its enclosures may please be acknowledged.

Enclo: As stated.

Yours faithfully,


Deputy Accountant General,
(AMG-III)

**COMMENTS OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA
UNDER SECTION 143(6)(b) OF THE COMPANIES ACT, 2013 ON THE
FINANCIAL STATEMENTS OF ASSAM POWER GENERATION
CORPORATION LIMITED FOR THE YEAR ENDED 31 MARCH 2023**

The preparation of financial statements of **ASSAM POWER GENERATION CORPORATION LIMITED**, for the year ended **31 March, 2023**, in accordance with the financial reporting framework prescribed under the Companies Act, 2013 (the Act), is the responsibility of the Management of the Company. The Statutory Auditors, appointed by the Comptroller and Auditor General of India, under section 139(5) of the Act, are responsible for expressing an opinion on the financial statements under section 143 of the Act, based on independent audit, in accordance with the auditing standards prescribed under section 143(10) of the Act. This is stated to have been done by them, vide their Audit Report dated **04 August 2023**.

I, on behalf of the Comptroller and Auditor General of India, have conducted a supplementary audit of the financial statements of **ASSAM POWER GENERATION CORPORATION LIMITED**, for the year ended **31 March, 2023** under section 143(6)(a) of the act. This supplementary audit has been carried out independently, without access to the working papers of the Statutory Auditors and is limited primarily to inquiries of the Statutory Auditors and company personnel and a selective examination of some of the accounting records. Based on my supplementary audit, I would like to highlight the following significant matters under section 143(6)(b) of the Act, which have come to my attention and which, in my view, are necessary for enabling a better understanding of the financial statements and the related audit report:

A. COMMENTS ON PROFITABILITY

1. Statement of Profit and Loss

Income

Other income (Note-17)

Other income from trading: ₹2.74 crore

This is overstated by ₹ 1.36 crore due to wrong inclusion of advance received against 'Land Lease Charges' & 'Local Area Development Fund Charges' pertaining to the financial year 2023-24, which should have been booked as 'Advance income' under 'Current Liabilities'. This has resulted in overstatement of "Profit for the year" and understatement of "Current Liabilities" by ₹1.36 crore each.

B. COMMENTS ON FINANCIAL POSITION

Balance Sheet

Equities and Liabilities

Liabilities

Current Liabilities

Provisions (Notes 15): ₹ 4.89 Crore

1. Regulation 48.1 of the Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations 2021 stipulates that the Normative Annual Plant Availability Factor (NAPAF) for full recovery of Annual Fixed Charges (AFC) from the consumer (APDCL) shall be minimum 85 percent for Namrup Replacement Power Project (NRPP). Regulation 52.1(b) of the above Regulations further provides that recovery of Annual Fixed Charges below the level of NAPAF shall be on *pro rata* basis. The AERC, while approving Generation tariff for the financial year 2022-23, allowed AFC of ₹ 148.68 crore for NRPP considering NAPAF of 85 per cent. The Company recovered ₹ 148.68 crore (as AFC of NRPP) from APDCL for the financial year 2022-23 but it could achieve Plant Availability Factor (PAF) of 52.99 percent only, which was below the prescribed NAPAF (85 percent). However, it did not create any provision for the AFC refundable to APDCL due to underachievement of PAF. This has resulted in understatement of Current Liabilities and overstatement of Profit for the year by ₹ 47.59 croreⁱ each.

Other current liabilities (Note-14): ₹ 176.89 crore

2. The above did not include liabilities towards unpaid/unadjusted energy bills of ₹3.97 crores raised by APDCL in respect of various field units of the Company for the period from April 2022 to March 2023. This has resulted in understatement of "Other Current Liabilities" and overstatement of "Profit for the year" by ₹3.97 crore each.

Assets

Non-Current Assets

Property, Plant and Equipment: (Notes 2): ₹ 1,548.78 Crore

3. The Company engaged (July 2019) M/s Accenture Solutions Pvt Ltd for supply, configuration, integration, installation, implementation & support of ERP Application Software for ₹ 27.49 Crore (₹ 16.57 Crore capital expenditure and ₹ 10.92 Crore recurring expenses). On 1 December, 2022, the Company declared Go-Live of ERP application in all the locations and capitalised ₹ 12.51 Crore under the head Property Plant and Equipment instead of capitalising ₹ 16.57 crore (total contract value: ₹ 27.49 Crore *minus* recurring/revenue expenses: ₹ 10.92 Crore). This has resulted in understatement of "Property, Plant and Equipment" and "Current Liabilities" by ₹ 4.06 crore (₹ 16.57 crore- ₹ 12.51 Crore) each.

Capital work in progress (Note-3): ₹ 748.54 Crore

4. The above included ₹ 2.36 crore being mandatory spares procured for Namrup Replacement Power Project (NRPP) Phase-I in 2021-22. As NRPP Phase-I has already been commissioned (July 2021) and the Capital Works in Progress related to the project has been converted into Plant, Property and Equipment (PPE), the mandatory spares should also have been converted into PPE. Non conversion of mandatory spares into PPE has resulted in overstatement of "Capital Works in Progress" and understatement of "Property, Plant and Equipment" by ₹ 2.36 crore each.

Current assets

Financial assets

Bank balances other than 6(ii) above (Note-6(III)): ₹625.52 crore

5. The above includes ₹247.10 crore, being the fixed deposit with maturity period of more than 12 months which should have been disclosed separately as per the requirements of the Companies Act, 2013 (refer para 6 (Q)(v) of 'General Instructions for preparation of Balance Sheet' under Part I-Balance Sheet of Schedule III to the Companies Act, 2013).

C. COMMENTS ON DISCLOSURES

The Assam Electricity Regulatory Commission (AERC) while truing up tariff for the financial year 2022-23, approved (March 2023) a revenue surplus of ₹17.02 crore to be refunded to APDCL during the financial year 2023-24 in 12 equal monthly instalments. The Company, however, filed (March 2023) a review petition against the above truing up order. The fact merits suitable disclosure in Notes to the Accounts.

D. OTHER COMMENTS

Paragraph-17 of Indian Accounting Standard-10 (Ind AS-10) provides that an entity shall disclose the date when the financial statements were approved for issue and who gave the approval. The Board of Directors approved the financial statements of the Company for the year 2022-23 on 14 July 2023, however, the Company did not disclose this fact in the accounts in violation of Ind AS-10

**For and on the behalf of the
Comptroller and Auditor General of India**

Place: Guwahati

Dated: -10-2023


Principal Accountant General (Audit), Assam

¹ ₹ 148.68 crore x (85 -52.99) percent

Annexure-16: Proposal for Emergency Capital spares with DPR, cost benefit analysis and relevant details



ASSAM POWER GENERATION CORPORATION LIMITED
Office of the Chief General Manager (Generation), APGCL
Bijulee Bhawan (3rd Floor), Paltan Bazar, Guwahati-781001

DETAILED PROJECT REPORT

NAME OF WORK: New Proposals under Capex plan for APGCL's power plants for FY 2023-24 and FY 2024-25.

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Total Estimated Amount: Rs. 42.98 Crores

Brief Description behind the Proposals:

In power generating stations, Maintenance and upgradation has paramount importance for several reasons. Firstly, it ensures optimal performance and efficiency of the machinery, preventing breakdowns and minimizing downtime. Secondly, it prolongs the lifespan of the equipment, reducing the need for costly replacements. Thirdly, it enhances safety, reducing the risk of accidents and ensuring a safe working environment. Lastly, regular maintenance ensures compliance with regulatory standards and can help in identifying potential issues before they escalate, allowing for timely intervention and problem resolution. Thus, maintenance and upgradation are critical aspect of operations in power generating stations.

Also, Spare parts availability is an important aspect of power plant operation and management. Spare parts are essential for maintaining the reliability and performance of the power plant equipment, as well as preventing costly downtime and emergency situations.

Therefore, to maintain efficient running of power stations and to develop a strategic and effective spare parts management APGCL is proposing new proposals under CAPEX plan, that can balance low breakdown time with efficient running of power stations of APGCL and optimize the spare parts supply chain.

The details of proposals of new works are as follows:

I). Replacement the old Air-Cooled Heat Exchangers (ACHE) in Lakwa Thermal Power Station (LTPS):

Details of the proposal:

Currently, In LTPS, there are three (03) Natural Gas and Water Coolers (Air-Cooled Heat Exchangers (ACHE) - Make Mannesmann, London) installed for three Dresser-Rand Gas Compressors in the Phase II powerhouse. However, due to aging, the ACHE's cooling efficiency has significantly decreased. Over 10% of the tubes have already been plugged in due to leakage.

As a result of the ACHE's poor performance, continuous water pouring is required on the finned surface, even at an ambient temperature of 27 °C. This continuous water pouring leads to the following issues:

1. Accumulation of dust, dirt, and clay on the fins, which blocks the air path.
2. Rusting of steel parts.
3. Increased risk of the fan motors failing due to continuous water exposure.

Given these issues, it becomes imperative to replace the aging Air-Cooled Heat Exchangers for the Gas Compressors. A purchase order (P.O.) has already been issued to M/s Aerotech Energy Private Limited for procuring a new Air-Cooled Heat Exchanger for one Gas Compressor in the fiscal year 2023-24.

It is now proposed to proceed with the replacement of the remaining two (2) Air-Cooled Heat Exchangers for the other two Dresser-Rand Gas Compressors.

Estimate:

Sl. No.	Item Description	Quantity	Basic Unit Rate (Rs)	Amount (Rs)
Supply Part				
1	Tube Bundle with IC-1, IC-2 & EJW cooler combined into common header with separate inlet & outlet nozzles, finned tubes and support frame.	1 set	35, 86,000.00	35, 86,000.00
2	Plenum Chamber interconnecting fans to tube bundles	2 Nos.	4, 21,025.00	8, 42,050.00
3	Fan ring with motor support bracket and inlet cone	2 Nos.	95,000.00	1, 90,000.00
4	Energy efficient axial flow FRP fan	2 Nos.	97,500.00	1, 95,000.00
5	Energy efficient (IE3) fan motors. Motors must conform to IP65 standard.	2 Nos.	2, 30,000.00	4, 60,000.00
6	Air Cooler mounting structure with columns, beams & bracings	1 set	8, 46,700.00	8, 46,700.00
7	Header end maintenance platform with handrails and access ladder	2 Nos.	2, 10,000.00	4, 20,000.00
Service Part				
1	Service Charge for Installation, testing & commissioning of the new ACHE package along with Civil work and any other modification work.	1 job	9, 50,000.00	9, 50,000.00
Sub-total				74, 89,750.00
GST @ 18% extra				13, 48,155.00
Grand Total				88, 37,905.00
(Rupees eighty-eight lakh thirty-seven thousand nine hundred five only)				

For 01nos Gas Compressors for FY 2024-25 = Rs. 88, 37,905.00

In words Rupees Eighty Eight Lakhs Thirty Seven Thousand Nine Hundread Five only.

For 2 nos Gas Compressors for FY 2024-25 = Rs. 88, 37,905.00 × 2

= Rs. 1,76,75,810.00

In words: Rupees One Crore Seventy-Six Lakh Seventy-Five Thousand Eight Hundred Ten Only.

JUSTIFICATION:

Upgrading to a new Air-Cooled Heat Exchangers (ACHE) system is crucial to restore the cooling efficiency required for the gas compressors, ensuring optimal operational performance in the Phase II powerhouse. This replacement would mitigate the need for continuous water pouring, reducing the risk of tube blockages, rusting, and potential damage to the fan motor, thereby improving overall reliability.

COST BENEFIT ANALYSIS:

Particulars	Value	Unit
Approved ROE for FY 2023-24	15.76	INR Crores
Net Energy Approved for FY 2023-24	402.32	MU
Profit /Unit	0.39	INR/kWh
Tariff for FY 2023-24	4.71	INR/kWh

Capacity impacted	30	MW
Daily generation loss	6,12,000	kWh
Loss in profit due to outage per day	0.02	INR Crores
Loss in revenue due to outage per day	0.29	INR Crores
Time required to receive spares at site from Order date	150.00	days
Loss in profit in 5 months	3.60	INR Crores
Loss in revenue in 5 months	43.24	INR Crores
Total Investment	1.76	INR Crores
Payback period with profit	73.41	days
	0.20	years
Payback period with revenue	6.11	days
	0.04	years

II). Replacement of the old lubrication system with the New Generation Lubricating System (XperLube) Lubrication system in Lakwa Thermal Power Station (LTPS):

Details of the proposal:

The present lube oil consumption for the Dresser Rand Gas Compressors, namely GC 6,7 and 8 LTPS is more than the OEM recommendation and is not efficient.

Currently these Gas compressors have Point-to-Point lubrication system which consists of 12 nos. of Force Feed Lubricator Pumps.

Shortcomings of the current lubrication system:

1. Undetected fading of droplet setting or leakages of lube lines causing under-, or over-lubrication
2. Lube rate not accurately adjustable
3. Lacking Flexibility
4. High effort to manually adjust individual lube point rates (P2P)
5. No automatic adjustment to compressor or process operation conditions (rpm, load, pressures, etc.)
6. Failure detection capability is very limited and time-consuming.

To overcome the above issues, APGCL has decided to replace the old lubrication system of these Gas Compressors with the New Generation Lubricating System (XperLube) Lubrication system and hence issued a P.O. to M/s Hoerbiger India Pvt. Ltd. to procure the same along with Gas compressor spares. This has board approval vide resolution no. 8 dated 12.08.2023.(107th Board Meeting)

ESTIMATE:

TOTAL FINANCIAL INVOLVEMENT				
Sl. No.	Description	Qty	Rate	Amount
1	XperLube Lubricating System	3	35,18,133.52	1,05,54,400.56
			GST @ 18%	18,99,792.10
			Total	1,24,54,192.10
Rupees One Crore Twenty-Four Lakh Fifty-Four Thousand One Hundred Ninety-Two Paise Ten Only				

Procurement Process Adopted: E-tender on E-Tender Portal - <https://assamtenders.gov.in>.

JUSTIFICATION:

The New Generation Lubricating System (Xperlube) is a more advanced and efficient solution for lubrication of gas compressors. The Xperlube system offers the following advantages:

- **Easy Installation and Integration:** Xperlube is a "plug-and-play" system, ensuring quick and seamless installation into existing compressors.
- **Efficient and Reliable Operation:** It provides precise lube rate management, preventing compressor damage due to under- or over-lubrication. Real-time automated monitoring and control enhance operational reliability.

Currently the Gas compressors consume 60 drops/min, exceeding the OEM recommendation of 30 drops/min. Xperlube aims to address this excess consumption.

- **Simple and Inexpensive Maintenance:** Standardized parts facilitate easy replacements and maintenance, while inspection intervals are tailored to compressor maintenance schedules.

COST BENEFIT ANALYSIS:

Particulars	Value	Unit
Approved ROE for FY 2023-24	15.76	INR Crores
Net Energy Approved for FY 2023-24	402.32	MU
Profit /Unit	0.39	INR/kWh
Tariff for FY 2023-24	4.71	INR/kWh
Capacity impacted	30	MW
Daily generation loss	6,12,000	kWh
Loss in profit due to outage per day	0.02	INR Crores
Loss in revenue due to outage per day	0.29	INR Crores
Time required to receive spares at site from Order date	150.00	days
Loss in profit in 5 months	3.60	INR Crores
Loss in revenue in 5 months	43.24	INR Crores
Total Investment	1.24	INR Crores
Payback period with profit	51.72	days
	0.14	years
Payback period with revenue	4.30	days
	0.03	years

iii). Design, Manufacture, Supply, Installation and Commissioning of 3 nos. of CGL Make Single Phase 21MVA, 11/220 KV Generator Transformer for 2X50 MW KLHEP Power House

Details of Proposal:

The works include Site Survey, Engineering, Design, Manufacture, Supply, Transportation, Storage, Installation and Commissioning of Single Phase 21MVA, 11/220 KV Generator Transformer along with the provision of rail facility for easy dragging out and in of the transformer from the GT bay for Karbi Langpi Hydro Electric Project.

PROJECT LOCATION AND ACCESSIBILITY

The Karbi Langpi Hydro Electric Project is located in the West Karbi Anglong District of Assam, about 125 Km from the State capital Guwahati. The Project generates 2X50 MW (i.e., 100 MW) of Electric Power by the use of concrete gravity dam with gated spillways on the river Borpani near Hatidubi and diverting the river flow through an intake structure and low pressure 4430 m long, 4.20 diameter horse-shoe shaped tunnel to the Power House.

Aims, Objectives and benefit expected from the Scheme /Project:

The 7(seven) nos. CGL make 21MVA Generator Transformers of KLHEP were manufactured in the year 1982 and commissioned in the year 2007. Due to sitting without charging for more than 22 years and continuously in service for 16 Years, the service life of the transformer has been completed and condition of the Transformer has started to deteriorate. The tan-delta & other recommended tests conducted by MRT & CPRI for 21MVA Generator Transformer were not satisfactory due to ageing. Also, spares required for keeping these transformers in healthy condition are not available with the vendor due to upgradation and modernization in the OEM workshop thereby affecting the efficiency of power generation. Failure of any transformer will cause huge generation loss.

So, for the smooth functioning, renovation & modernization the 03 Nos of Single phase 21 MVA 220KV/11KV Generator Transformer for One Unit of KLHEP need to be procured urgently

Justification of the Proposal:

Due to ageing, the transformers have started to deteriorate. For smooth functioning and running of KLHEP units 03 Nos of 21 MVA 220KV/11KV Generator Transformer need to be procured along with the provision of rail facility for easy dragging out and in of the transformer from the GT bay. This will enhance the reliability and efficiency of the System and will definitely reduce the forced Shutdown of the Unit.

Time Period required for implementation / Execution:

Total Time Period required 12 Months

Provisional estimate with offer:

As the detailed estimation for the Purpose of awarding Turn-key EPC contract will be done in later stage. A provisional Estimate amounting to Rs. **10,00,00,000.00 (In words Ten Crore Only)** is prepared.

Execution Procedure:

Total time Estimation for October 2023- September 2024

- Preparation of Bidding Document, Floating of Tender, Evaluation, Contract Award: 02 Months
- Drawing Approval, Manufacturing, Supply, Storage and Installation: 09 Months

- Testing and Commissioning: 01 Month

Cost Benefit Analysis:

Particulars	Value	Unit
Approved ROE for FY 2023-24	23.94	INR Crores
Net Energy Approved for FY 2023-24	388.05	MU
Profit /Unit	0.62	INR/kWh
Tariff for FY 2023-24	2.23	INR/kWh
Capacity impacted	50	MW
Daily generation loss	1,020,000	kWh
Loss in profit due to outage per day	0.06	INR Crores
Loss in revenue due to outage per day	0.23	INR Crores
Time required to receive spares at site from Order date	365	days
Loss in profit in 5 months	22.97	INR Crores
Loss in revenue in 5 months	83.02	INR Crores
Total Investment	10.00	INR Crores
Payback period with profit	158.91	days
	0.44	years
Payback period with revenue	43.96	days
	0.12	years

iv). Procurement of mandatory spares for various plants of APGCL

Brief Description of the proposal:

The mandatory spare is crucial for smooth running of any plants. The non-availability of mandatory spares often leads to prolonged downtime in case of breakdowns. It is therefore essential to keep the mandatory spares of the units in stock to ensure increased reliability and availability of the plant. To procure the spare on an emergency basis APGCL requires at least 150 days to complete the process. Some of the spares are imported and some spares are available in India. Due to non-availability of spare at site, the outage hours of Plants increase which may causes generation as well as revenue loss.

APGCL has prepared mandatory spare list to reduce the outage of plants and to maintain optimum power generation.

ESTIMATE:

The total estimated cost for procurement of the Mandatory Spares is **Rs. 29.74 Crores.**

JUSTIFICATION:

For routine O&M work to be performed after the completion of certain running hours of the machines as per OEM guidelines, this work is of a preventive nature. As such, not performing the work in time may increase the probability of forced shutdown of the machines. The forced shutdown of the machines will cause daily loss as shown in the table below.

In view of the above, to reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plants, the procurement of the mandatory spares for APGCL is justified.

COST BENEFIT ANALYSIS:

Particulars	LTPS	LRPP	NRPP	KLHEP
Approved ROE for FY 2023-24 (INR Crores)	15.76	12.50	33.90	23.94
Net Energy Approved for FY 2023-24 (MU)	402.32	501.22	696.05	388.05
Profit /Unit (INR/kWh)	0.39	0.25	0.49	0.62
Tariff for FY 2023-24 (INR/kWh)	4.71	3.70	3.54	2.23
Capacity impacted (MW)	30	9.965	98.4	50
Daily generation loss (kWh)	6,12,000	2,03,286	20,07,360	10,20,000
Loss in profit due to outage per day (INR Crores)	0.02	0.01	0.10	0.06
Loss in revenue due to outage per day (INR Crores)	0.29	0.08	0.71	0.23
Time required to receive spares at site from Order date (days)	150	150	150	150
Loss in profit in 5 months (INR Crores)	3.60	0.76	14.66	9.44
Loss in revenue in 5 months (INR Crores)	43.24	11.28	106.59	34.12
Total Investment (INR Crores)	9.59	7.25	2.90	10
Payback period with profit	399.90 days	1,430.04 days	29.66 days	158.91 Days
	1.10 years	3.92 years	0.08 years	0.44 years
Payback period with revenue	33.26 days	96.39 days	4.08 days	43.96 days
	0.22 years	0.64 years	0.03 years	0.29 years

Existing Projects	FY2023-24 (in Lakh)			FY2024-25 (in Lakh)		
	Loan	Equity	Grant	Loan	Equity	Grant
NRPP New Proposal				290.14	0.00	0.00
LTPS New Proposal	100.00	0.00	0.00	1283.70	0.00	0.00
LRPP New Proposal				725.07	0.00	0.00
KLHEP New Proposal				2000.00	0.00	0.00
Total	100.00	0.00	0.00	4298.91	0.00	0.00

NRPP New Proposal

SL NO	Description of Works	FY 2024-25	Fund Source			Justification
		Proposed by APGCL (₹ in Lakhs)	Loan	Equity	Grant	
New proposal						
1	55 MVA 230/11.5 kV Transformer related capital spares	13.83	100%			To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed
2	15 MVA, 11/6.9kV Transformer related capital spares	4.89	100%			
3	VCB and VCB panel related capital spares	16.58	100%			
4	SF6 breaker related capital spares	22.72	100%			
5	Control & Instrumentation related capital spares	6.22	100%			
6	220V Battery Charger related capital spares	4.65	100%			
7	11/0.370 KV, 500 KVA Dry Type Excitation Transformer related capital spares	11.98	100%			
8	5 MVA, 33/6.6 KV, 3-phase, Oil Filled, ONAN, Outdoor type Auxiliary Power Transformer related capital spares	74.18	100%			
9	Gas Turbine related capital spares	16.21	100%			
10	Gas Booster Compressor related capital spares	30.47	100%			
11	Condensate extraction pump related capital spares	6.20	100%			
12	High pressure BFP related capital spares	2.63	100%			
13	Instrument and plant air compressor related capital spares	10.46	100%			
14	Horizontal Split Case Pump (Cooling Tower Make Up Pump 2) related capital spares	43.53	100%			
15	STG AC/DC Jack oil pump related capital spares	4.54	100%			
16	CWP related capital spares	10.40	100%			
17	CCW, CT makeup pump related capital spares	9.19	100%			
18	Cooling Tower Gear Box related capital spares	0.66	100%			
19	Cooling Tower related capital spares	0.38	100%			
20	Cooling Water Treatment Plant Pump related capital spares	0.42	100%			
Total (In Lakhs)		290.14				

LTPS New Proposal

SL NO	Description of Works	FY 2023-24	FY 2024-25	Fund Source			Justification
		Proposed by APGCL (₹ in Lakhs)		Loan	Equity	Grant	
New proposal							
1	Procurement of upgraded lubricating system for gas compressors (Xperlube System)			125.00	100%		The present lube oil consumption for the Dresser Rand Gas Compressors, namely GC 6,7 and 8 LTPS is more than the OEM recommendation and is not efficient. Currently these Gas compressors have Point-to-Point Lubrication system which consists of 12 nos. of Force Feed Lubricator Pumps. To overcome the above issues, APGCL has decided to replace the old lubrication system of these Gas Compressors with the New Generation Lubricating System (Xperlube) Lubrication system. The New Generation Lubricating System (Xperlube) is a more advanced and efficient solution for lubrication of gas compressors.
							Currently, there are three Natural Gas and Water Coolers (Air-Cooled Heat Exchangers (ACHE) - Make Mannesmann, London) installed for three Dresser-Rand Gas Compressors in the Phase II powerhouse. However, due to aging, the ACHE's cooling efficiency has significantly decreased. Over 10% of the tubes have already been plugged in due to leakage. As a result of the ACHE's poor performance, continuous water pouring is required on the finned surface, even at an ambient temperature of 27 °C. This continuous water pouring leads to the following issues: 1. Accumulation of dust, dirt, and clay on the fins, which blocks the air path. 2. Rusting of steel parts. 3. Increased risk of the fan motors failing due to continuous water exposure. To overcome the above issues, APGCL has decided to replace the old Air-Cooled Heat Exchangers (ACHE). Upgrading to a new Air-Cooled Heat Exchangers (ACHE) system is crucial to restore the cooling efficiency required for the gas compressors, ensuring optimal operational performance in the Phase II powerhouse. This replacement would mitigate the need for continuous water pouring, reducing the risk of tube blockages, rusting, and potential damage to the fan motor, thereby improving overall
2	Revamping of Existing Natural Gas & water coolers of GC-6, 7, 8	100.00		200.00	100%		
3	Control & Instrumentation related capital spares			198.67	100%		
4	Gas compressor #6, 7, 8 & 9 related capital spares			473.05	100%		
5	Starting Diesel Engine for GT 5, 6 & 7 related capital spares			34.19	100%		
6	Instrument Air Compressor related capital spares			20.24	100%		To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed
7	High pressure BFP related capital spares			155.60	100%		
8	Raw Water Pump related capital spares			5.37	100%		
9	Intake Water Pump related capital spares			71.58	100%		
Total (In Lakhs)		100.00		1283.70			

LRPP New Proposal

SL NO	Description of Works	FY 2024-25	Fund Source			Justification
		Proposed by APGCL (₹ in Lakhs)	Loan	Equity	Grant	
New proposal						
1	Electrical related emergency capital spares	65.95	100%			To reduce the downtime of the machines as well as to maintain its reliability and optimum power generation from the plant, the procurement of the capital spares are proposed
2	Gas Engine related emergency capital spares	443.37	100%			
3	Capital spares Black Start Diesel Engine Generator	1.34	100%			
4	Other emergency capital spares	214.40	100%			
Total (In Lakhs)		725.07				

NRPP New Proposal

SL NO	Description of Works	FY 2024-25	Fund Source			Justification
		Proposed by APGCL (₹ in Lakhs)	Loan	Equity	Grant	
New proposal						
1	Procurement of 3 Nos of Generator Transformers	1000.00	100%			The 7 nos of CGL make 21MVA Generator Transformers of KLHEP were manufactured in the year 1982 and commissioned in the year 2007. Due to sitting without charging for more than 22 years and continuously in service period for 16 Years, the service life of the transformer has been completed and condition of the Transformers has started to deteriorate. The tan-delta & other recommended tests conducted by MRT & CPRI for 21MVA Generator Transformer were not satisfactory due to ageing. Also, spares required for keeping these Transformers in healthy condition are not available with the vendor due to upgradation and modernization in the OEM workshop thereby affecting the efficiency of power generation. Failure of any transformer will cause huge generation loss. So, for the smooth functioning, renovation & modernization, it is proposed to procure the 3 nos of Single phase 21 MVA 220KV/11KV Generator Transformers.
2	Emergency Capital Spares	1000.00	100%			All the equipments of the units of 2X50 MW KLHEP were supplied during the year 1980. After in service for long time these components have now started to malfunction due to ageing. Also, most of the spares that were there during the commissioning stage either got consumed or are not good to use. Hence, it is very vital to keep these emergency spares handy for smooth operation of the machines and in the greater interest of APGCL as it will reduce the downtime of the machines as well as help in maintaining reliability of the machines and optimum power generation from the plant. As such, the procurement of these emergency capital spares are proposed.
Total (in Lakhs)		2000.00				

MANDATORY SPARES REQUIREMENT OF NRPP		
System Category	Reference	Total Value (Rs.) (Including Taxes)
Electrical	Annexure-1	₹ 1,382,562.00
Electrical	Annexure-2	₹ 489,300.00
Electrical	Annexure-3	₹ 1,658,380.00
Electrical	Annexure-4	₹ 2,271,908.00
Control & Instrumentation	Annexure-5	₹ 621,535.00
Electrical	Annexure-6	₹ 464,984.90
Electrical	Annexure-7	₹ 1,198,000.00
Electrical	Annexure-8	₹ 7,417,500.00
Mechanical	Annexure-9	₹ 1,621,174.00
Mechanical	Annexure-10	₹ 3,047,375.00
Mechanical	Annexure-11	₹ 620,150.18
Mechanical	Annexure-12	₹ 262,735.00
Mechanical	Annexure-13	₹ 1,045,580.00
Mechanical	Annexure-14	₹ 4,353,077.00
Mechanical	Annexure-15	₹ 454,000.00
Mechanical	Annexure-16	₹ 1,039,894.51
Mechanical	Annexure-17	₹ 919,031.20
Mechanical	Annexure-18	₹ 66,370.00
Mechanical	Annexure-19	₹ 37,870.00
Mechanical	Annexure-20	₹ 42,300.00
Total (Rs.)		₹ 29,013,726.79

ANNEXURE-1

A. Mandatory spares for 55 MVA 230/11.5 kV

SL No	Description	Quntity	Gross Value including taxes
1	HV & LV BUSHING OF EACH RATING	1 SET	533,274
2	NEUTRAL BUSHING	1NOS	19,751
3	BUSHING OF CT OF EACH RATING	1NOS	138,256
	TOTAL		691,281

B. Mandatory spares for 100 MVA 230/11.5 kv

1	HV & LV BUSHING OF EACH RATING	1NOS	533,274
2	NEUTRAL BUSHING	1NOS	19,751
3	BUSHING OF CT OF EACH RATING	1 Nos	138,256
	TOTAL		691,281
	GRAND TOTAL A+B		1,382,562

Annexure-2

Transformer SI No. 21757, 15 MVA, 11/6.9kV

SI	Description	Unit Price
1	HV Porcelain Bushing with metal part & gasket / oil seal(17.5KV/1000A)	42,700.00
2	LV Porcelain Bushings with metal part and gasket /oil seal(17.5KV/3150A)	56,700.00
3	LV Additional Neutral Porcelain Bushings with metal part andgasket / oil seal (17.5KV/3150A)	56,700.00
Transformer SI No. 16224, 2500kVA, 6.6/.433KV		
1	HV Porcelain Bushing with metal part & gasket / oil seal(17.5KV/1000A)	34,300.00
2	LV Porcelain Bushings with metal part and gasket /oilseal (1.1KV/4000A)	98,000.00
3	LV (Neutral) Porcelain Bushings with metal part andgasket /oil seal (1.1KV/4000A)	98,000.00
Transformer SI No. 16225, 1600kVA, 6.6/.433KV		
1	HV Porcelain Bushing with metal part & gasket / oil seal(17.5KV/1000A)	34,300.00
2	LV Porcelain Bushings with metal part and gasket /oilseal (1.1KV/3150A)	37,100.00
3	LV (Neutral) Porcelain Bushings with metal part andgasket /oil seal (1.1KV/2000A)	31,500.00
		489,300.00

ANNEXURE-3

Column1	Column2	Column3	Column4	Column5	Column6	Column7
PART 1	VCB SPARES					
S.No	Item description	BHEL Drawing Number	Qty	NOS/SET	Unit Ex-works price(In Rs.)	Lot Ex-worksprice (In Rs.)
1	Mechanism Shaftassembly	25211001662-V00	1	nos	5700	5,700.00
2	Spring Charge Motor220V (ac/dc)	25211001582-001	1	nos	4000	4,000.00
3	Operating Coil 220V(dc)	25211001563-009	2	nos	1700	3,400.00
4	VCB Support InsulatorØ118	15211001515-012	6	nos	2000	12,000.00
5	Complete VCB 630-1600 A	35212001714-V08	1	nos	522500	522,500.00
6	Complete VCB 2000-2500 A	35212001714-V09	1	nos	541500	541,500.00
7	Complete VCB2750/3150 A	35212001875-V00	1	nos	566200	566,200.00
PART 2	PANEL SPARES					
1	LIMIT SWITCHTEST/SERVICE	15095001531-V00		2 NOS	1440	2,880.00
2	STEEL STUD	45216901510-001		4 NOS	50	200.00
						1,658,380.00

ANNEXURE-4

Sr. No.	Description of Material	Drawing Number	UOM	Qty	Unit FOR Prices INR	Total FOR Prices INR
1	SF6 FILLING DEVICE	HAGG401003R0002	PC	1	491489	491,489.00
2	SF6-GAS LEAK DETECTOR	1HC0078666R0002	PC	1	448543	448,543.00
3	CARBON BRUSHES (1 SET = 2 PIECES)	GPFX052143P0098	PC	1	12283	12,283.00
4	CAPACITOR CPL. - GENO SIDE(C1)/TRAFOSIDE(C2)	1HC0042814R0021	PC	1	389817	389,817.00
5	VOLTAGE TRANSFORMER TJC 6-G SERVICETRAFO SIDE (T13	1HC0068399M0011	PC	1	443130	443,130.00
6	SURGE ARRESTER POLIM-H 15/200 TRAFOSIDE (R21)	HAGG200722R0115	PC	1	486646	486,646.00
GRAND TOTAL						2,271,908.00

ANNEXURE-5

SN	ITEM DESCRIPTION	QTY	RATE
1	FUSE 355A 500V	1	4,500.00
2	FUSE 500A 690V	1	5,500.00
3	IGBT SEMIX 600A 1200V	1	45,500.00
4	GATE DRIVER SEMIX SKYPERPRO	1	23,500.00
5	TT BLOCK 330A 1600V	1	22,500.00
6	CARD I4+ HRD 290 CHARGER PWR SUPPLY	1	28,500.00
7	CARD I6 HRD 383, 4 IGBT GATE DRIVE INTERFACE	1	27,500.00
8	CARD HRD 388 IGBTGD I/F +SAT TRIP	1	27,500.00
9	CARD I4+D HRD 373 CHARGER GATE DRIVER	1	24,500.00
10	CARD HRD 391 FAN FAIL CARD	1	23,500.00
11	CARD I4+ HRD 238 SMPS CARD	1	45,500.00
12	CARD HRD 326 MIMIC CARD	1	45,500.00
13	CARD HPN 043 STATIC SWITCH SNUBBER	1	7,500.00
14	CARD I4+ HRD 334 STATIC SWITCH DRIVER	1	28,500.00
15	CARD HPW 006 RECT SNUBBER	1	5,500.00
16	CARD HRD 319 SMPS FOR GATE DRIVE	1	28,500.00
17	CARD I4+T HRD 371 CHARGER CONTROL PR	1	45,500.00
18	CARD I4+T HRD 372 CHARGER PSFB FOR 30 BATT	1	24,500.00
19	CARD INVERTER CONTROL HRD 410	1	121,500.00
20	CARD INVERTER PSFB HRD 413	1	23,500.00
21	COOLING FAN 8 INCH 230V 50Hz	1	12,500.00
22	CONTROL FUSE 3A 500V, 6X32	1	35.00
			621,535.00

ANNEXURE-6

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11
PRICE LIST OF SPARES FOR 220V BATTERY CHARGER SL NO(2834/1)										
SL. NO.	DESCRIPTION	RATING/SIZE	QTY.	UOM	UNITRATE(Rs.)	TOTALBASICAMOUNT(Rs.)	HSN CODE	IGST %	IGST(AMOUNT)(Rs.)	TOTAL AMOUNTINCLUDING GST(Rs.)
1	AC Contactor	250 Amps, 3 Pole, 240V AC Coil	1	Nos.	38450.00	38450.00	85364900	18	6921.00	45371.00
2	High Speed Semiconductor Fuse	400A	1	Nos.	6250.00	6250.00	85361040	18	1125.00	7375.00
3	Thyristor	475A / 1200V	1	Nos.	7250.00	7250.00	85413010	18	1305.00	8555.00
4	Blocking Diode	800A / 800V	1	No.	6850.00	6850.00	85411000	18	1233.00	8083.00
5	Tap Cell Diode	150A / 800V	1	No.	2850.00	2850.00	85411000	18	513.00	3363.00
6	DC Contactor	400 Amps, 3 Pole, 220V DC Coil	1	No.	68520.00	68520.00	85364900	18	12333.60	80853.60
7	Secondary Line Surge Supresser Card	Suitable Matched	1	Nos.	9225.00	9225.00	85423900	18	1660.50	10885.50
8	Snubber Network Card	Suitable Matched	1	Nos.	9225.00	9225.00	85423900	18	1660.50	10885.50
9	Electronic SCR Control Card	Static Type, Type No. 137/3P/FC	1	Nos.	48525.00	48525.00	85423900	18	8734.50	57259.50
10	GFLC Card	Static Type, Type No. 135	1	Nos.	15575.00	15575.00	85423900	18	2803.50	18378.50
11	AC Supply Trouble Relay Module	415 V AC ,Static Type, 2C/O Aux (ALVD2)	1	No.	15575.00	15575.00	85363000	18	2803.50	18378.50
12	Annunciation Sensing Cards	Static Type, Card- 128	1	No.	15525.00	15525.00	85423900	18	2794.50	18319.50
13	Annunciation Control Cards	Static Type, Card- 48	1	No.	12353.00	12353.00	85423900	18	2223.54	14576.54
14	Annunciation Hooter Power Supply Cards	Static Type, Card- 62	1	No.	8250.00	8250.00	85423900	18	1485.00	9735.00
15	IDSR Card	Static Type, Card- 138M+140	1	No.	56252.00	56252.00	85423900	18	10125.36	66377.36
16	DC Power Supply for IDSR Card	Static Type, 24 V & 12 V DC	1	No.	14525.00	14525.00	85423900	18	2614.50	17139.50
17	Over Current Relay Card	Static Type, Card- 46	1	Nos.	17815.00	17815.00	85423900	18	3206.70	21021.70
18	Protection Fuse	2 Amps HRC Type	1	Nos.	560.00	560.00	85423900	18	100.80	660.80
19	Protection Fuse	63 Amps HRC Type	1	Nos.	3660.00	3660.00	85423900	18	658.80	4318.80
20	Protection Fuse	315 Amps HRC Type	1	Nos.	5420.00	5420.00	85423900	18	975.60	6395.60
21	Filter Capacitor	4700mfd/350V	1	No.	5885.00	5885.00	85322200	18	1059.30	6944.30
22	CTRL Transformer	(0-270/22-0-22V), 50mA	1	No.	2450.00	2450.00	85041010	18	441.00	2891.00
23	Tcmc	Static Type	1	No.	12275.00	12275.00	85423900	18	2209.50	14484.50
24	Protection Fuse For Filter Capacitor	125A HRC Type	1	No.	4225.00	4225.00	85322200	18	760.50	4985.50
25	Aux Relay Card	Suitable for 110VDC, 3 C/O	1	Nos.	6565.00	6565.00	85423900	18	1181.70	7746.70
	Total (Rs.)					394055.00			70929.90	464984.90

ANNEXURE-7

Sl. No.	Item Particulars	Qty	Rate	Total Amount
1	<p>Supply of 11/0.370 KV, 500 KVA Dry Type Excitation Transformer for Namrup Replacement Power Plant (NRPP), APGCL, Namrup.</p> <p><u>Note:</u> The above transformer shall be supplied with the following items/features:</p> <p>a. Transformer Indoor Enclosure shall be provided.</p> <p>b. Forced Cooling provision shall be provided.</p> <p>c. RTD Sensors for Winding Temperature shall be provided.</p> <p>d. Digital WTI Temperature Controller with trip & alarm facilities shall be provided.</p>	01 no.	Rs. 10,15,254.24	Rs. 10,15,254.24
Add: P&F, Loading, Freight & Transit Insurance				Inclusive
Add: GST@18%				Rs. 1,82,745.76
Total				11, 98,000.00
In Words: Rupees Eleven Lakh Ninety-Eight Thousand only				

ANNEXURE-8

Sl. No.	Item Particulars	Qty	Rate	Total Amount
1	Supply of 01 (one) number 5 MVA, 33/6.6 KV, 3-phase, Oil Filled, ONAN, Outdoor type Auxiliary Power Transformer for Namrup Replacement Power Project (NRPP), APGCL, Namrup.	1 no.	67, 43,200.00	67, 43,200.00
	Installation, Testing and Commissioning	1 lot	6, 74,300.00	6, 74,300.00
Add: P&F, Loading, Freight & Transit Insurance				Inclusive
Add: GST@18%				Inclusive
Total				74, 17,500.00
In Words: Rupees Seventy Four Lakh Seventeen Thousand Five Hundred only				

ANNEXURE-9

QTN Sr.	KSB Matl Code Part Description Old ISP No. EE-KTR	Part no. HSN Code	Quantity Unit	Price Each (INR)	Price Total (INR)
000200	IN078665 PUMP SHAFT WKT150/5 Size/Dimension:WKT150/5 BasicMat:A276 TYPE 410+GAL CR Pump Type: WKT150/5 30982915002/CL2D	211 Pump Sr.No.: 5111051494 84831099	1.00 PC	85,604.00	85,604.00
000300	IN078445 INTERMED SHAFT WKT150 ,1198 BasicMat:A276 TYPE 410 COND H Pump Type: 309810050/CL2D	212 Pump Sr.No.: 84831099	1.00 PC	49,151.00	49,151.00
000400	IN079005 TOP SHAFT WKT150 ,300 Size/Dimension:WKT150 ,300 BasicMat:A276 TYPE 410 COND H Pump Type: 309910073/CL2D	213 Pump Sr.No.: 84831099	1.00 PC	72,797.00	72,797.00
000500	IN067663 IMPELLER WK150 320/26 Size/Dimension:WK150 320/26 BasicMat:A743 GR CA6NM-1.4024.19 Pump Type: 20683876204/CL2B	230 Pump Sr.No.: 84139120	4.00 PC	110,917.00	443,668.00
000600	IN079518 IMP SUCTIO STAGEWKT150 320/23 Size/Dimension:WKT150 320/23 BasicMat:A743 GR CA6NM-1.4024.19 Pump Type: 31083876108/CL2B	231 Pump Sr.No.: 84139120	1.00 PC	134,003.00	134,003.00
000700	IN001407 CASING WEAR RING 220/235X15 Size/Dimension:220/235X15 BasicMat:CHROMHARD 400 Pump Type: 001825052	502 Pump Sr.No.: 84139120	2.00 PC	10,220.00	20,440.00
000800	IN001085 CASING WEAR RING 215/230X15 Size/Dimension:215/230X15 BasicMat:CHROMHARD 400 Pump Type: 001819756	502 Pump Sr.No.: 84139120	8.00 PC	8,221.00	65,768.00
000900	IN001761 IMPELL WEAR RING 205/221DIAX15 Size/Dimension:205/221DIAX15 BasicMat:1.4024.19 Pump Type: 001838763	503 Pump Sr.No.: 84139120	2.00 PC	6,773.00	13,546.00
001000	IN001762 IMPELLER WEAR RING 199/215.7DIAX18	503	8.00 PC	5,500.00	44,000.00

	Size/Dimension:199/215.7DIAX18 BasicMat:1.4024.19 Pump Type: 001838764	Pump Sr.No.: 84139120			
001200	IN079378 STAGE SLEEVE 79.7X60-7 Size/Dimension:79.7X60-7 BasicMat:A276 TYPE 410 A Pump Type: 31081012002	521 Pump Sr.No.: 84139120	4.00 PC	17,017.00	68,068.00
001300	IN077107 CENTRING SLEEVE 46/105DIAX142 WKT125-150 BasicMat:IS5517 45C8 Pump Type: 308809911	526 Pump Sr.No.: 84139120	1.00 PC	70,117.00	70,117.00
001400	IN076482 BEARING SLEEVE 60/70DIAX155 Size/Dimension:60/70DIAX155 BasicMat:A276 TYPE 316 Pump Type: 308809716/CL3	529 Pump Sr.No.: 84833000	1.00 PC	13,520.00	13,520.00
001500	IN076475 BEARING SLEEVE 56/76DIAX70 Size/Dimension:56/76DIAX70 BasicMat:A276 TYPE 316 Pump Type: 308809713	529 Pump Sr.No.: 84833000	1.00 PC	20,970.00	20,970.00
001600	IN068659 STAGE BUSH A79/87DIAX35,07 Size/Dimension:A79/87DIAX35,07 BasicMat:A276 TYPE 410 HARD Pump Type: 208822060	541 Pump Sr.No.: 84139120	1.00 PC	10,349.00	10,349.00
001700	IN076484 BEARING SLEEVE 60/70DIAX170 Size/Dimension:60/70DIAX170 BasicMat:A276 TYPE 316 Pump Type: 308809717/CL3	529 Pump Sr.No.: 84833000	1.00 PC	13,989.00	13,989.00
001800	IN077182 BEARING SLEEVE WKT125+150 BasicMat:A276 TYPE 316 Pump Type: 308814579	529 Pump Sr.No.: 84833000	1.00 PC	16,766.00	16,766.00
001900	IN077277 BEARING BUSH 70/92DIAX140 Size/Dimension:70/92DIAX140 BasicMat:IS5517 45C8-KHW Pump Type: 308817036	545 Pump Sr.No.: 84833000	1.00 PC	35,134.00	35,134.00
002000	IN077274 BEARING BUSH 76/100DIAX55	545	1.00 PC	28,177.00	28,177.00

	Size/Dimension:76/100DIAX55 BasicMat:IS5517 45C8-KHW Pump Type: 308817033	Pump Sr.No.: 84833000			
002100	IN077277 BEARING BUSH 70/92DIAX140 Size/Dimension:70/92DIAX140 BasicMat:IS5517 45C8-KHW Pump Type: 308817036	545 Pump Sr.No.: 84833000	1.00 PC	40,006.00	40,006.00
002200	IN077170 CONICAL COUPLING 60 Size/Dimension:60 BasicMat:A276 TYPE 316 Pump Type: 308814362	851 Pump Sr.No.: 84836010	2.00 PC	89,303.00	178,606.00
002300	IN077276 BEARING BUSH 55/74DIAX110 BasicMat:IS5517 45C8-KHW Pump Type: 308817035	545 Pump Sr.No.: 84833000	1.00 PC	30,971.00	30,971.00
002800	05078842 MECHANICAL SEAL-KSB C050M1-4WKS1 Size/Dimension:C050M1-4WKS1 BasicMat:AQ1EGG Pump Type:	433 Pump Sr.No.: 84139120	1.00 PC	165,524.00	165,524.00

1,621,174.00

ANNEXURE-10

QTN Sr.	KSB Matl Code Part Description Old ISP No. EE-KTR	Part no. HSN Code	Quantity Unit	Price Each (INR)	Price Total (INR)
000200	IN223171 SHAFT HG3/15HRPDBTP Size/Dimension:HG3/15HRPDBTP BasicMat:A182 GR F6NM+GAL CR HART Pump Type: HGC3/15 2438-135/CL2E	210 Pump Sr.No.: 5111052474 84831099	1.00 PC	586,800.00	586,800.00
000300	IN206933 IMPELLER HG3H5.0 INVST.CST. BasicMat:1.4008.09-1.4024.19 Pump Type: 243832218/CL2B	230 Pump Sr.No.: 84139120	15.00 PC	103,607.00	1,554,105.00
000400	IN210458 BEARING SHELL 70/119X105 RD HG/CHT3+ Size/Dimension:70/119X105 RD HG/CHT3+4+5+ BasicMat:ST-LAGER METALL WM 80 Pump Type: 24683590701/CL3	370 Pump Sr.No.: 84139120	2.00 PC	102,499.00	204,998.00
000500	IN206914 SEGMENTAL RING 65/90DIA X25 Size/Dimension:65/90DIA X25 BasicMat:A276 TYPE 410 COND H Pump Type: 243832154	501 Pump Sr.No.: 84139120	1.00 PC	5,463.00	5,463.00
000600	IN200005 CASING WEAR RING A149.5/170X20 Size/Dimension:A149.5/170X20 BasicMat:CHROMHARD 400 Pump Type: 001720317/CL2B	502 Pump Sr.No.: 84139120	1.00 PC	5,189.00	5,189.00
000700	IN200005 CASING WEAR RING A149.5/170X20 Size/Dimension:A149.5/170X20 BasicMat:CHROMHARD 400 Pump Type: 001720317/CL2B	502 Pump Sr.No.: 84139120	14.00 PC	5,189.00	72,646.00
000800	IN200018 IMPELLER WEAR RING 135/150DIA X19 BasicMat:1.4024.19 Pump Type: 001732219/CL2B	503 Pump Sr.No.: 84139120	15.00 PC	3,880.00	58,200.00
000900	IN074079 SPACER RING 40/60DIA X13 Size/Dimension:40/60DIA X13 BasicMat:IS5517 45C8 Pump Type: 243818943	504 Pump Sr.No.: 84139120	1.00 PC	1,026.00	1,026.00
001000	IN206968	525	1.00 PC	4,996.00	4,996.00

	SPACER SLEEVE 75/90DIAx52.5 Size/Dimension:75/90DIAx52.5 BasicMat:A276 TYPE 410 A Pump Type: 243832596	Pump Sr.No.: 84139120			
001100	IN207569 SPACER SLEEVE 75/90DIAx15 Size/Dimension:75/90DIAx15 BasicMat:A276 TYPE 410 A Pump Type: 243852462	525 Pump Sr.No.: 84139120	1.00 PC	6,793.00	6,793.00
001200	IN074081 SPACER SLEEVE 40/60DIAx55 Size/Dimension:40/60DIAx55 BasicMat:IS 210 GR FG260 Pump Type: 243818950	525 Pump Sr.No.: 84139120	1.00 PC	1,050.00	1,050.00
001300	IN205950 INTERSTAGE BUSH A88.5/98X22 BasicMat:A182 GR F6A COND C Pump Type: 243732562/CL3	541 Pump Sr.No.: 84139120	1.00 PC	4,720.00	4,720.00
001400	IN206887 BALANC DISC SEATHG3/DBP/DWR Size/Dimension:HG3/DBP/DWR BasicMat:A182 GR F6A COND C Pump Type: 243831802/CL2B	602 Pump Sr.No.: 84139120	1.00 PC	140,229.00	140,229.00
001700	01856780 MECHANICAL SEAL-KSB C072M1-4HGSC1 Size/Dimension:C072M1-4HGSC1 BasicMat:AQ1EGG Pump Type:	433 Pump Sr.No.: 84139120	2.00 PC	200,580.00	401,160.00
Grand Total					3,047,375.00

ANNEXURE-11

Sr No	Part Number	Name	Reco. Quantity	Unit Price	HSN Code	Tax	Amount (Rs.)
1	37023082	ASSEMBLY VALVE DISCHA357	2	20464.6	84149090	0.18	48296.456
2	70264288	VALVE DISCHARGE NL A357	1	18475.6	84818090	0.18	21801.208
3	70421912	ASSEMBLY DISTANCE PIECE& GUIDE IHE	2	50486.8	84149090	0.18	119148.848
4	39781430	DISTANCE PIECE & GUIDE	1	32984.9	84149090	0.18	38922.182
5	95107694	RING PISTON 6 INCH	2	2753.4	84149090	0.18	6498.024
6	70272026	ASSEMBLY PACKING SETMETALLIC	1	16714.1	84149090	0.18	19722.638
7	70272034	ASSEMBLY PACKING SETMETALLIC	1	25477.4	84149090	0.18	30063.332
8	54491378	RING SCRAPPER 1.5 INCH ROD	2	5538	84149090	0.18	13069.68
9	54491386	RING SCRAPPER 1.5 INCH ROD	1	6949.8	84149090	0.18	8200.764
10	97075634	DISTANCE PIECE	1	21698.3	84149090	0.18	25603.994
11	70273032	ASSEMBLY VALVE INLET & FAU A43	4	35618.7	84149090	0.18	168120.264
12	37157831	VALVE DISCHARGE A43 150/175# NL	1	23957.7	84818090	0.18	28270.086
13	95570453	RING PISTON 10	2	6659.9	84149090	0.18	15717.364
14	70328760	ASSEMBLY VALVE INLET & FAU A357	2	22285.9	84149090	0.18	52594.724
15	37020542	VALVE INLET 8X7 NL [SPEC-41967]	1	20441.2	84818090	0.18	24120.616
Grand Total							620,150.18

ANNEXURE-12

Item No.	Item Description	For Existing Pump Model & Sl. No.	Qty.	UOM	Each Nett (In Rs.)
1	Set of Rotor	RT-125/38HBCI3LNJ1388863/3648	1	Set	18,345.00
2	Oil Seal		1	Set	1,430.00
3	Set of Gasket & O rings		1	Set	6,400.00
4	Seal Kit	HPG-4D1327848/0905	1	Set	30,000.00
5	Composite Bush		1	Set	28,600.00
6	Set of Gear		1	Set	59,680.00
7	Seal Kit	HPG-4D1327848/0904	1	Set	30,000.00
8	Composite Bush		1	Set	28,600.00
9	Set of Gear		1	Set	59,680.00
			Grand	Total:	262,735.00

ANNEXURE-13

SR. NO	PART NO	PART DESCRIPTION	QTY. (NOS.)	M O C	UNIT RATE-2021
1	1P229-227/3	SUCTION BELL RING	1	CF8	60,390.00
2	1P229-227/4	SUCTION BELL BEARING	1	LTB2	17,030.00
3	1P229-227/7	IMPELLER	1	CF8M	425,000.00
4	1P229-227/8	IMPELLER RING	1	S.S CF8M	70,150.00
5	1P229-227/14	IMPELLER SHAFT WITH SLEEVE	1	410T	73,080.00
6	1P229-227/18	MUFF COUPLING	1	410T	109,800.00
7	1P229-228/4	RUBBER BEARING WITHSLEEVE	1	RUBBER+(CA15/410T)	54,910.00
8	1P229-228/5	LINE SHAFT WITH SLEEVE NO.1	1	410T	71,380.00
9	1P229-228/9	LINE SHAFT WITH SLEEVE NO. 2	1	410T	56,280.00
10	1P229-228/13	LINE SHAFT WITH SLEEVE NO.3	1	410T	47,710.00
11	1P229-228/20	TOP SHAFT	1	410T	59,850.00
Grand Total					1,045,580.00

ANNEXURE-14

Colum Column2		Column3	Column4	Column5	Column6	Column7
Pump SI No. 11000578-20 01			(Model : 5822-200 x 150)			
Recommended Spares List for Horizontal Split Case Pump (Cooling Tower Make Up Pump 2)						
		Part No.				
		as per				
Sr.	Description	CSD	QTY	UNIT	Unit Price (Rs)	Total Price (Rs)
No.						
1	BRG. HOUSING (Out Board)	01	1	NOS	113500	113500
2	WEARING RING (FORIMPELLER)	08	2	NOS	228413	456826
3	GRUB SCREW	09	4	NOS	2047	8189
4	KEY (Impeller)	16	1	NOS	12273	12273
5	STUFFING BOX BUSHING	18	2	NOS	83194	166389
6	SHAFT SLEEVE	19	2	NOS	60143	120286
7	SLEEVE NUT & LOCK NUT(For Sleeve) (D.E.)	20	1	SET	45656	45656
8	LOCK WASHER	22	2	NOS	3744	7489
9	LOCK NUT	23	2	NOS	2584	5169
10	BRG. HOUSING (In Board)	24	1	NOS	113500	113500
11	KEY (Pump Half Coup.)	26	1	NOS	14117	14117
12	GASKET (For Lower toUpper Casing)	30	1	NOS	4234	4234
13	GASKET (Shaft Sleeve)	32	2	NOS	4234	8469
14	SLEEVE NUT & LOCK NUT(For Sleeve) (N.D.E.)	38	1	SET	45656	45656
15	WATER DEFLECTOR	39	2	NOS	29357	58714
Grand Total						1,180,467.00

Colum Column2		Column3	Column4	Column5	Column6	Column7
Pump SI No. 20064608 10 01				(Model : 5823-75 x 50)		
Recommended Spares List for Horizontal Split Case Pump (Chilled Water Pump 1)						
		Part No.			Unit	Total
Sr.	Description	as per	QTY	UNIT	Price	Price
No.		CSD			(Rs)	(Rs)
1	BEARING HOUSING (InBoard)	01	1	NOS	58125	58125

2	SLEEVE NUT & LOCK NUT(For Sleeve) (D. E.)	06	1	NOS	17920	17920
3	SHAFT SLEEVE (Long)	07	1	NOS	35973	35973
4	WEARING RING (ForCasing)	10	1	NOS	123623	123623
5	WEARING RING (ForCasing)	15	1	NOS	123623	123623
6	STUFFING BOX BUSHING	16	2	NOS	42500	85000
7	WATER SEAL RING	18	2	NOS	49859	99718
8	SHAFT SLEEVE (Small)	20	1	NOS	35973	35973
9	LOCK WASHER	22	2	NOS	4291	8583
10	LOCK NUT	23	2	NOS	5403	10805
11	BEARING HOUSING (OutBoard)	24	1	NOS	58125	58125
12	SLEEVE NUT & LOCK NUT(For Sleeve) (N.D.E.)	27	1	NOS	17920	17920
13	GASKET (Lower to UpperCasing)	33	1	NOS	13728	13728
14	WATER SLINGER	34	2	NOS	24861	49723
					Grand Total	738,839.00

Colum Column2		Column3	Column4	Column5	Column6	Column7
Pump SI No. 1602 2458-10 02					(Model : 5823-80 x 65)	
Recommended Spares List for Horizontal Split Case Pump (Condensate Water Pump 1)						
Part No.				Unit		
Sr.						Total
No.	Description	as per	QTY	UNIT	Price	Price (Rs)
		CSD			(Rs)	
1	BEARING HOUSING (OutBoard)	01	1	NOS	63549	63549
2	SLEEVE NUT & LOCK NUT(For Sleeve) (N. D. E.)	06	1	SET	19593	19593
3	SHAFT SLEEVE (N. D. E.)	07	1	NOS	39331	39331
4	BALANCING WEARINGRING	12	1	NOS	135160	135160
5	CASING WEARING RING	16	1	NOS	135160	135160
6	KEY (For Impeller)	17	1	NOS	5451	5451
7	GASKET (For Sleeve)	18	2	NOS	15009	30019
8	SHAFT SLEEVE (D. E.)	21	1	NOS	39331	39331
9	BEARING HOUSING (inBoard)	22	2	NOS	63549	127099
10	KEY (For Pump HalfCoupling)	26	1	NOS	5451	5451
11	WATER SLINGER	30	2	NOS	27181	54363
12	SLEEVE NUT & LOCK NUT(For Sleeve) (D. E.)	31	1	SET	19593	19593
13	GASKET (For Lower toUpper Casing)	32	1	NOS	15009	15009

Grand Total	689,109.00
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Column2		Column3	Column4	Column5	Column6	Column7
Pump SI No. 11000578-10 01					(Pump Model : F 5823-400 x 350)	
Recommended Spares List for Horizontal Split Case Pump (Closed Colling Water Pump 1)						
Sr.		Part No.			Total	
No.	Description	as per	QTY	UNIT	Unit Price (Rs)	Price
		CSD				(Rs)
1	SLEEVE NUT (For sleeve)N.D.E.	04	2	NOS	53183	106365
2	LOCK WASHER (For LockNut)	06	1	NOS	11687	11687
3	BEARING COVER (N.D.E.)	09	1	NOS	93177	93177
4	WATER DEFLECTOR	10	2	NOS	43267	86533
5	SHAFT SLEEVE	13	2	NOS	102509	205019
6	GRUB SCREW (Imp. W/RRing to Imp.)	14	4	NOS	4635	18539
7	WEARING RING (ForImpeller)	15	1	NOS	399864	399864
8	WEARING RING (ForCasing)	22	1	NOS	324889	324889
9	SLEEVE NUT (For sleeve) D.E.	25	2	NOS	53183	106365
10	KEY (For Pump HalfCoupling)	30	1	NOS	13319	13319
11	BEARING COVER (D.E.)	31	1	NOS	93177	93177
12	GASKET (For Lower toUpper Casing)	34	1	NOS	19333	19333
13	STUFFING BOX BUSHING	35	2	NOS	133197	266395
					Grand Total	1,744,662.00

All Total **4,353,077.00**

ANNEXURE-15

S. No.	Description	Qty. (Nos.)	Unit Price	Amount (Rs.)
1	Coalescing Filter Element Dolinger Make Oil Mist Eleminator Model OE-158B-1000DX Special Part No. 95-121	5	Rs.82000/- (Rs. Eighty Two Thousand Only) each	₹ 410,000.00
2	ELEMENT,FILTER;MIST ELEMINATOR;PN:95-137 Item code : 2000305460	2	Rs.22000/- (Rs. Twenty Two Thousand only) each	₹ 44,000.00
Total				₹ 454,000.00

ANNEXURE-16

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
SINo.	Description of Goods	HSN/SAC	GSTRate	Quantity	Rate	per	Amount
1	563005-01 Nut	84669310	18 %	1.0 PCS	2,496.91	PCS	2,496.91
2	560763-01 Belt Pulley	84311010	18 %	1.0 PCS	9,513.52	PCS	9,513.52
3	545601-80 Oil Pump	84219100	18 %	1.0 PCS	19,851.00	PCS	19,851.00
4	544337-02 Deflector ring	84311010	10 %	1.0 PCS	7,320.75	PCS	7,320.75
5	544203-02 Fan	84219100	18 %	1.0 PCS	23,559.66	PCS	23,559.66
6	563004-01 Bowl spindle	84219100	18 %	1.0 PCS	84,677.07	PCS	84,677.07
7	546568-01 Cap nut	84669310	18 %	1.0 PCS	9,521.94	PCS	9,521.94
8	545888-82 Inlet pipe with paring disc	84219100	18 %	1.0 PCS	4,86,145.79	PCS	4,86,145.79
9	548809-01 Intermediate service kit	84219100	18 %	1.0 PCS	16,111.99	PCS	16,111.99
10	548810-01 Major service kit	84219100	18 %	1.0 PCS	1,64,548.95	PCS	1,64,548.95
11	233211-66 Ball bearing	84821011	18 %	2.0 PCS	845.01	PCS	1,690.02
12	545856-80 Belt tightener	84219100	18 %	1.0 PCS	39,045.52	PCS	39,045.52
							8,64,483.12
	Freight Charges				2	%	17,289.66
	Total						₹ 10,39,894.51

ANNEXURE-17

Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8
PUMP MODEL - D20TC - 2 STG							
PUMP SL NO. - VG-30072-73							
MAKE - WPIL							
RECOMMENDED LIST OF SPARES FOR 1 NO. PUMP SET.							
SL NO.	ITEM DESCRIPTION	PART NO.	MOC	QNTY	UNIT PRICE(RS.)	TOTAL PRICE(RS.)	
1	Line Shaft Sleeve	20	SS410	4	1,395.00	5,580.00	
2	Line Shaft Bearing	22	BRZ / RUBBER	4	19,480.00	77,920.00	
3	Impeller Adjusting Nut	39	EN8	2	5,060.00	10,120.00	
4	Thrust Ring Retainer	8	SS410	4	15,310.00	61,240.00	
5	Impeller Key	7	SS410	4	2,025.00	8,100.00	
6	Bearing	11	BRZ / RUBBER	4	31,625.00	1,26,500.00	
7	Seal Ring	5	CF8M	4	23,025.00	92,100.00	
8	Thrust Ring	9	SS410	4	11,210.00	44,840.00	
9	Line Shaft Coupling	23	SS410	4	5,315.00	21,260.00	
10	Step Coupling	18	SS410	2	6,830.00	13,660.00	
11	Bearing Retainer	21	CI	4	45,225.00	1,80,900.00	
12	D/Case Bearing	13	BRZ / RUBBER	2	31,625.00	63,250.00	
13	Bearing	33	BRONZE	2	5,060.00	10,120.00	
14	S/Bell Bearing	4	BRZ / RUBBER	2	31,625.00	63,250.00	
						Sub Total	7,78,840.00
						GST @18%	1,40,191.20
						G. TOTAL	9,19,031.20

ANNEXURE-18

CODE	Descrip on	Qty	Price/each
0054210000	2 LIP OIL SEAL-ID130xOD160xTHK.12mm (CR)	2	595.00
0058670000	TAPER ROLLER BEARING -	2	32,300.00
0059320000	T/R BEARING:-	2	12,500.00
0059340000	TAPER ROLLER BEARING -	2	20,800.00
H301880000	2 LIP OIL SEAL 65 X 85 X 8	2	175.00
Total			66,370.00

ANNEXURE-19

Column1	Column2	Column3	Column4	Column5	Column6
	Annexure-I				
	Offer for Spares of Cooling Tower Model No. 3842 (TB) Sl. No. 17-2E0088B				
Sl. No.	Description	Total Qty	Unit	Unit Price (Rs.)	Total Amount (Rs.)
	GENERAL SPARES				
1	BRG HSG ASSY SR13SE P89-3066-1 (Series 13SE bearing housing assembly suitable for AQ Model 3842)	1	nos	4,815.00	4,815.00
2	FAN ASSY 42IN KP6 05-3004-1 (42" diameter complete fan assembly with plastic blades and attaching hardware)		nos	28,440.00	28,440.00
3	OIL CUP - POLYSTYRENE P94-2105-1	1	nos	45.00	45.00
4	OIL CUP CAP 54MM P94-1153 PP/ABS	1	nos	15.00	15.00
5	PULLEY ASSY 12.1/2IN V-1B P95-2066-22 (Fan pulley)	1	nos	1,530.00	1,530.00
6	PULLEY ASSY 6.3/4IN V-1B P95-2066-18 (Motor pulley)	1	nos	990.00	990.00
7	TUBE 6.35OD 1.6WT LG615MM POLYTHENE (Oil line tube)	2	nos	25.00	50.00
8	V-BELT B- 112	1	nos	965.00	965.00
9	PIPE PLUG 32NB P92-1131-1 PP (Pipe plug used with fill hanging pipe)	4	nos	45.00	180.00
10	CABLE TIE 100 NYLON	4	nos	3.00	12.00
11	OIL - VG-100/SAE-30 ES474101	0.6	ltr	280.00	168.00
12	S.T.NOZZLE 68-3738-066 PP	22	nos	30.00	660.00
	Total Material Value				37,870.00

ANNEXURE-20

SL. NO.	DESCRIPTION	PART NO.	RECOMMENDED RATE/UNIT (IN INR)	
Spares for Pump Model : PNZ – Drive End				
1	O RING SET	212552S	6	913.00
2	OIL SEAL	M01691	6	420.00
3	BEARING 6201	131926	2	1,171.00
4	CIRCLIP 10	940125	1	36.00
5	BEARING 6000	131526	1	1,171.00
6	CIRCLIP B26	212826	1	88.00
7	CIRCLIP C6	M01701	1	88.00
8	SLIDING CRANK	470721	1	3,181.00
9	ADJUSTMENT SCREW	470821	1	990.00
Spares for Pump Model : PNZ – Liquid End				
10	SUCTION / DISCHARGE VALVE	992932S	2	5,747.00
11	PACKING END RING	477252	3	187.00
12	PACKING END RING	478052	3	187.00
13	PACKING ROPE FOR 25MM	PT3525	1	9,979.00
14	PACKING ROPE FOR 40MM	PT3540	1	11,894.00
15	PLUNGER FOR 25MM	476932	1	2,131.00
16	PLUNGER FOR 40MM	477732	1	4,117.00
Total			42,300.00	

MANDATORY SPARES REQUIREMENT OF LTPS		
System Category	Reference	Amount (Rs.)
Electrical, Control & Instrumentation	Annexure-1	14,821,655.00
Electrical, Control & Instrumentation	Annexure-2	5,044,862.85
Mechanical	Annexure-3	30,903,776.38
Mechanical	Annexure-4	16,401,693.20
Mechanical	Annexure-5	3,418,922.05
Mechanical	Annexure-6	2,024,427.86
Mechanical	Annexure-7	15,559,609.80
Mechanical	Annexure-8	537,423.00
Mechanical	Annexure-9	7,158,066.35
	Total	95,870,436.49

Annexure-1

DESCRIPTION AND PRICE

Sl. No.	GENERATOR (Material description)	Qty.	Unit Price (INR)	Amount (INR)
1	GENERATOR BEARING SHELL ASSEMBLY	2No	1418320.00	2837640.00
2	SEALING RING FOR GENERATOR BEARING	4No	646800.00	2587200.00
3	INSULATION FOR GENERATOR BEARING	1SET	554400.00	554400.00
4	RTD FOR GENERATOR BEARING	4No	23100.00	92400.00
5	BRUSH HOLDER FOR EARTHING	2 No	46200.00	92400.00
6	BRUSH, DESIGN-'A' FOR EARTHING	2 No	10080.00	20160.00
7	BRUSH, DESIGN-'B' FOR EARTHING	2 No	10080.00	20160.00
8	SPACE HEATER FOR GENERATOR	2 No	52920.00	105840.00
9	RTD FOR COLD / HOT AIR	4 No	32920.00	131680.00
10	MULTI CONTACT CONNECTOR SOCKET	4 No	66470.00	265880.00
11	COUPLING BOLTS SET FOR GEARBOX TO GENERATOR	1SET	1137150.00	1137150.00
GTG EXCITER (Material Description)				
12	POSITIVE DIODE	4 No	129360.00	517440.00
13	NEGATIVE DIODE	4 No	129360.00	517440.00
14	FUSE	4 No	108630.00	434520.00
15	RC BLOCK 0.6MF 5.6 OHM WITH SUPPORT	3 No	74450.00	223350.00
16	SPACE HEATER FOR EXCITER	1 No	52920.00	52920.00
17	EXCITER BEARING SHELL ASSEMBLY	1 No	889350.00	889350.00
18	INSULATION OF EXCITER BEARING	1SET	404250.00	404250.00
19	SEALING RING OF EXCITER BEARING	2No	104110.00	208220.00
20	RTD FOR EXCITER BEARING	1No	26570.00	26570.00
21	EXCITER COUPLING HARDWARE	1SET	958650.00	958650.00
Sub Total				12077620.00
Freight @ 4%				483104.80
Sub Total				12560724.80
GST @ 18%				2260930.46
Grand Total				14821655.26
Grand Total (R/O)				1,48,21,655.00

(Rupees One Crore Forty Eight Lakh Twenty One Thousand Six Hundred and Fifty Five Only)

Annexure-2
Gas Turbine Mandatory Spares (C&I)

SL. No	Description	Qty (No.)	Rate in INR	Total in INR
1	Cmprsr Bleed SOL 3 Way Vlv- Norm B to C Open - A Closed	2	881,157.73	1,762,315.46
4	Gas fuel stop solenoid valve- NORM=OPEN	1	477,254.35	477,254.35
5	Gas valve Vent solenoid valve- NORM=OPEN	1	168,517.50	168,517.50
8	TURB INLET AIR FILTER- EXCESSIVE PRESS DROP ALARM INC OPEN 6+/- .25 IN H2O NORM=NC-OEC	1	618,072.00	618,072.00
9	TURB INLET AIR FILTER- EXCESSIVE PRESS DROP SHT DOWN INC OPEN 8+/- .25IN H2O NORM=NC-OEC	2	618,072.00	1,236,144.00
10	Turb IGV Servo Vlv	1	302,347.67	302,347.67
11	STOP/SPEED RATIO VLV SERVO VLV	1	302,347.67	302,347.67
14	IGNITION TRANSFORMER	2	11,002.42	22,004.84
22	Compressor Inlet Thermocouple	2	3,689.00	7,378.00
23	Compressor Discharge Thermocouple	2	10,262.00	20,524.00
24	Hydraulic Supply Filter Filtration .5 microns	2	908.68	1,817.36
42	TURBINE TEMP-WHEELSPACE- 1 ST STAGE AFT OUTER	2	20,049.00	40,098.00
44	TURBINE TEMP-WHEELSPACE- 2 ND STAGE AFT OUTER	2	22,972.00	45,944.00
45	TURBINE TEMP-WHEELSPACE- 2 ND STAGE FWD OUTER	2	20,049.00	40,098.00
Total		23		5,044,862.85

Annexure- 3
Critical Spares of GC# 6,7 & 8.

Sl no.	Description	Part no.	Qty	Unit Price	Total
1	Conn. Rod Bearing	1R48391IM	4	152,518	610072
2	Cross Head RDS (With Bushing)	DR21H9315AP4	1	1,235,028	1235028
3	Shoe Cross Head	1H27213C	2	86,850	173700
4	Valve Inlet LP(INL HF 81)	81CS1A	1	180534	180534
5	Valve Disch. LP(DISC HF 81)	81CS2B	1	186323	186323
6	Valve Inlet HP(INL HF 60)	R65815IM	1	172805	172805
7	Valve Disch. HP(DISC HF 60)	R65816IM	1	220814	220814
8	Set Channel Spring	81CS33A	2	176282	352564
9	Screw Machine Flat	77A2X103	10	533	5330
10	Set Channel Spring	81CS33B	2	61789	123578
11	Valve Plate	R65815C	2	32732	65464
12	Dampner Plate	R65815D	4	26645	106580
13	Spring Closing	R65815F	12	1843	22116
14	Spring Damping	R65815G	24	1548	37152
15	Valve Seat HP DISC	R65816B	1	141458	141458
16	Valve Stop Plate HP DISC	R65816A	1	113846	113846
17	Valve Plate	R65816C	3	27161	81483
18	Dampner Plate	R65816D	6	23149	138894
19	Spring Closing	R65816F	12	1755	21060
20	Spring Damping	R65816G	24	1474	35376
21	Valve Inlet LP(INL HF 81)	MLH65600G1	2	205947	411894
22	Valve Disch. LP(DISC HF 81)	MLH65600AG1	2	209915	419830
23	Valve Inlet HP(INL HF 60)	MLH65544G4	2	180400	360800
24	Valve Disch. HP(DISC HF 60)	MLH65545G4	2	180400	360800
25	Magnum HF 81 (LP inlet) springs	PP1388NB	400	751	300400
26	Magnum HF 81 (LP Disc) HF 60 (HP Inlet) spring	PP1389NB	800	627	501600
27	Magnum HF 60 (HP Disc) Spring	PP1390NB	400	719	287600
28	Bullets	R83865AIM	1200	632	758400
29	Valve Seat LP INLET	F45855	1	51113	51113
30	Valve Stop Plate LP INLET	F45448	1	97100	97100
31	Valve Seat LP DISC	F45855A	1	51113	51113
32	Valve Stop Plate LP DISC	F45448A	1	97096	97096
33	Valve Seat HP INLET	F45421	1	35931	35931
34	Valve Stop Plate HP INLET	F45422P2	1	62932	62932
35	Valve Seat HP DISC	F45421A	1	35931	35931
36	Valve Stop Plate HP DISC	F45422AP3	1	62952	62952
37	GASKET HP VALVE SEAT	X1105T8	50	367	18350
38	GASKET HP VALVE COVER	X1014T7268U	50	1110	55500
39	Valve Cover Stud	90A3J06032G	10	397	3970
40	Valve cover Nut	38A4C8	10	173	1730
41	Lead Gasket	X1131T5	30	1624	48720
42	Mach. Screw	87A2S150	32	195	6240
43	Lockwasher	14A5C55	40	27	1080
44	Retainer	X1053T294	12	695	8340
45	Retainer	X1053T281	12	709	8508
46	GASKET HP VALVE SEAT	X1014T9085U	50	886	44300
47	GASKET HP VALVE COVER	X1014T9592U	50	1533	76650

48	Mach. Screw	87A2S153	24	195	4680
49	Piston Rod Assembly 23 (COMBO)	DR2MLH37154G1N	1	2257677	2257677
50	Piston Rod Assembly 13 (COMBO)	DR2MLH3469OG1N	1	946707	946707
51	Ring Piston 23" Combo	KCHP2009T1IM	4	135237	540948
52	Ring Piston 13" Combo	KCHP1307T1IM	4	76230	304920
53	Ring Piston 23" non combo	X1687T23XS62IM	6	42949	257694
54	Ring Piston 13" non combo	X10687T13X38IM	6	14801	88806
55	Nut Piston	W98966	4	9860	39440
56	Piston Rod LP		1	407626	407626
57	Piston Rod HP		1	311607	311607
58	Combo Piston 23"		1	1312996	1312996
59	Combo Piston 13"		1	467771	467771
60	Ring Packing	3A11B34	9	23510	211590
61	Ring Packing	4A11B34	3	24895	74685
62	Gasket Packing case	X1498T3F	2	5294	10588
63	Oil Scrapper Ring	28A11G34B	4	15941	63764
64	Outer Head Cover Stud	94A3J08040G	6	4016	24096
65	Outer Head Cover Nut	38A4C10	6	2197	13182
66	Outer Head Cover Stud	W100314	5	885	4425
67	Outer Head Cover Nut	38A4K11	5	694	3470
68	Gasket Head Outer LP	W78598	6	2027	12162
69	Gasket Head Outer HP	W100096	6	1733	10398
70	Cylinder 23"	163642C	1	9664120	9664120
71	Stud Cylinder Frame to yoke	94A3J08040D	8	5638	45104
72	Nut Cylinder Frame to yoke	38A4C10	8	2197	17576
73	Stud Cylinder Frame to yoke	94A38040G	8	5920	47360
74	Nut Cylinder Frame to yoke	38A4K10	8	256	2048
75	Main Bearing	1R16689DP2	4	116450	465800
76	MAIN OIL PUMP	MLH34595BG2	1		0
77	Lubricator	R51812DIM	6	45000	270000
78	Cartridge Filter	W89689	2	57672	115344
	Total				26189641
	GST				4714135
	Net Total				30903776

Annexure- 4
Critical spares list opf GC#9

Sr. No.	Enquiry Description	OEM Ref No as per Enquiry	Updated OEM code	Qty	Basic Unit Rate, INR	Total, INR	Delivery (in weeks)
1	Valve Compressor Suction	Z600-502-605	Z600-502-605	1	287,080	287080	23
2	Suction Seat	Z757-831-086	Z757-831-086	1	91,160	91160	24
3	Suction Guard Assy	Z758-134-397	Z758-134-397	2	123,410	246820	29
4	Valve Plate	Z757-828-129	Z757-828-129	3	18,370	55110	10
5	Wafer Spring	Z753-138-008	Z753-138-008	4	18,990	75960	10
6	Closing spring	Z757-833-025	Z757-833-025	200	480	96000	10
7	12 Point capscrew 7/16 20 UNF	Z757-136-011	Z757-136-011	12	1,500	18000	14
8	Valve Compressor Disch.	Z600-503-601	Z600-503-601	1	291,950	291950	19
9	Discharge Seat	Z757-831-087	Z757-831-087	2	103,260	206520	24
10	Discharge Guard Assy	Z758-134-401	Z758-134-401	2	129,680	259360	19
11	Valve Plate	Z757-828-071	Z757-828-071	3	25,960	77880	18
12	Closing spring	Z757-833-008	ZK-6813-3	200	300	60000	10
13	12 Point capscrew 7/16 20 UNF	Z757-136-004	Z757-136-004	12	3,930	47160	22
14	Valve Compressor Suction	50225964	50225964	2	174,430	348860	10
15	Suction Seat	Z757-831-032	Z757-831-032	1	89,930	89930	24
16	Suction Guard Assy	Z758-135-43	Z758-135-143	1	58,530	58530	19
17	Valve Plate	Z757-828-060	Z757-828-060	2	25,710	51420	10
18	Wafer Spring	Z753-138-007	Z753-138-007	2	8,570	17140	10
19	Valve Compressor Disch.	50225967	50225967	2	174,430	348860	19
20	Discharge Seat	Z757-831-083	Z757-831-083	2	96,590	193180	22
21	Discharge Guard Assy	50226239	50226239	2	72,040	144080	22
22	Valve Plate	Z757-828-060	Z757-828-060	2	25,710	51420	10
23	Closing spring	Z757-833-028	Z757-833-028	200	540	108000	10
24	12 Point capscrew 7/16 20 UNF	Z757-136-010	Z757-136-010	12	1,730	20760	10
25	12 Point capscrew 7/16 20 UNF	Z757-136-012	Z757-136-012	12	3,770	45240	10
26	Threaded Washer	Z758-145-002	Z758-145-002	12	3,130	37560	10
27	BTRR	Z600-443-067	Z600-443-067	6	179,860	1079160	19
28	RTV	Z626-546-007	Z626-546-007	2	118,820	237640	21
29	O-Ring	Z900-838-188	Z900-838-188	1	18,390	18390	17
30	O-Ring	Z900-838-189	Z900-838-189	4	4,230	16920	15
31	Conn Rod Shell Brg	Z600-520-001	Z600-520-001	4	48,000	192000	10
32	BEARING THRUST	Z600-006	Z600-006	2	47,610	95220	10
33	Crosshead Heavy	Z600-016	Z600-016	1	1,326,320	1326320	10
34	Crosshead Light	Z600-014	Z600-014	1	532,350	532350	10
35	Premier P55U 1/4" Plunger	904-462-001	Z904-462-001	1	48,620	48620	13
36	Element Oil Filter	Z620-253-001	Z620-253-001	2	19,890	39780	10
37	Piston End 12"	Z20179001	Z620-179-001	2	445,600	891200	22
38	Rider Ring 12"	Z903-108-099	Z903-108-099	1	163,820	163820	16
39	Ring-comp seg 12"	Z903-848-079	Z903-848-079	2	104,950	209900	17
40	Rod Compr Piston 12"	Z600-469-003	Z600-469-003	1	784,470	784470	10
41	Washer	Z620-172-002	Z620-172-002	1	7,330	7330	10
42	Carrier Ring 12"	Z620-191-001	Z620-191-001	1	306,350	306350	24
43	Piston End 19.5"	Z620-229-002	Z620-229-002	1	1,652,040	1652040	31
44	Rider Ring 19.5"	Z903-108-060	Z903-108-060	1	148,140	148140	17
45	Ring-comp seg 19.5"	Z600-158-003	Z600-158-003	1	87,980	87980	17
46	Rod Compr Piston 19.5"	Z600-469-010	Z600-469-010	1	834,520	834520	18
47	Washer	Z620-172-002	Z620-172-002	1	7,330	7330	10
48	Ring Carrier Piston 19.5"	Z620-232-002	Z620-232-002	1	885,960	885960	15
49	2RUG	Z626-547-007	Z626-547-007	2	95,170	190340	17
50	RTV	Z626-546-007	Z626-546-007	2	118,820	237640	21
51	O-Ring	Z900-838-019	Z900-838-019	2	3,580	7160	10

52	Ring Double acting Type BD	Z600-087-002	Z600-087-002	2	32,680	65360	10
53	Oil Scraper type "3RWS"	Z600-088-001	Z600-088-001	2	24,540	49080	10
54	O-Ring	Z900-838-019	Z900-838-019	2	3,580	7160	10
55	Body Compr. Cyl gasket	Z600-273	Z600-273	2	27,880	55760	10
56	WAT	Z937-913-025	Z937-913-025	2	-	0	
57	Gasket Flat RD 12"	Z909-981-197	Z909-981-197	10	2,680	26800	10
58	Seal O ring 12"	Z900-838-015	Z900-838-015	20	2,150	43000	10
59	Gasket Flat RD 19.5"	Z909-981-293	Z909-981-293	20	2,860	57200	10
60	Seal O ring 19.5"	Z900-838-033	Z900-838-033	20	2,040	40800	10
61	Crosshead Screw Socket Head	Z625-434-004	Z625-434-004	8	1,190	9520	10
62	Shoe Scrosshead	Z600-018-001	Z600-018-001	2	108,250	216500	10
63	Nut	Z620-174-001	Z620-174-001	2			
64	Washer	Z620-173-001	Z620-173-001	2			
					Basic Total	13899740	
					IGST 18%	2501953.2	
					TOTAL	16401693.2	

ANNEXURE-5

Critical Spares for KT/ KTA-1150C DIESEL ENGINE (Unit 5.6 & 7)

Sl. No	Item Name	Part No.	Quantity	Rate in INR	Total in INR
1	Seal Water Pump	3609920	3	7,847.00	23,541.00
2	Gasket, water outlet connection	195866	6	118.44	710.64
3	CONNECTING ROD BEARINGS (STD)	205840	6	2,667.00	16,002.00
4	Clamp "T" Bolt	40315	3	235.65	706.95
5	Gasket Aftercooler	3001304	4	1,057.74	4,230.96
6	Seal, Water Connection (After cooler)	206808	2	574.96	1,149.92
7	SEAL,OIL Water pump	206948	3	1,799.50	5,398.50
8	Gasket oil cooler core	206973	12	112.26	1,347.12
9	Gasket, thermostat housing	207058	3	72.26	216.78
10	Tube water transfer	207233	15	2,714.00	40,710.00
11	SEAL,INJECTOR	207244	12	92.57	1,110.84
12	Tube water transfer	207378	3	2,150.00	6,450.00
13	Gasket adapter cover	3008407	3	121.63	364.89
15	Gasket, Seal Water Connection (After cooler)	3001305	2	131.35	262.70
16	Capscrew, Clamp Injector	165006	10	796.50	7,965.00
17	Clamp injector	3006696	6	245.15	1,470.90
18	HOSE (After cooler)	3016142	2	2,596.00	5,192.00
19	INJECTOR	3016676	6	38,351.64	230,109.84
20	CORE AFTER COOLER	3023079	4	21,330.00	85,320.00
21	Seal O' ring, tube water transfer	3028291	24	1,374.00	32,976.00
22	Gasket exhaust manifold	3037821	12	192.23	2,306.76
23	Gasket, Oil pan	3010452	3	7,682.62	23,047.86
24	Push rod injector	3017961	3	4,299.14	12,897.42
25	PUSH Tube VALVE	205492	6	3,282.81	19,696.86
26	Gasket lube oil cooler housing	3200550	2	1,675.53	3,351.06
27	Gasket tc cooler	3011627	3	506.84	1,520.52
28	Screw hex head cap	3066497	12	144.89	1,738.68
29	Washer plain	3035310	12	0.00	0.00
30	Screw flange head cap	3066498	20	132.24	2,644.80
31	Spacer mounting	3046286	20	0.00	0.00
32	LUBE OIL FILTER ELEMENT with seal	3166554	6	678.50	4,071.00
33	Gasket rocker lever housing	3008401	12	418.90	5,026.80
34	Connecting Rod Assembly		2	618,072.00	1,236,144.00
35	HEAD Cylinder (complete assembly)	3881509	3	96,864.00	290,592.00
36	TURBOCHARGER ,AFTERMARKET	4033456	1	241,742.08	241,742.08
37	FUEL FILTER ELEMENT	3166555	9	837.80	7,540.20
38	KIT LINER CYLINDER	AR3028434	6	0.00	0.00
39	Gasket cy.head	AR3022340	6	1,218.94	7,313.64
40	Gasket rocker lever housing	3201517	12	228.78	2,745.36
41	PISTON AND RING SET	KIT3880662	6	38,645.65	231,873.90
42	Screw, Hex Head Cap	S*102*A	10	0.00	0.00
43	Screw, Hex Head Cap	S*120	15	39.87	598.05
44	Core and Header, After Cooler	3001299	1	422,087.00	422,087.00

Sl. No	Item Name	Part No.	Quantity	Rate in INR	Total in INR
45	Screw, 12 point Cap	S*199*A	14	70.91	992.74
46	Fuel Transfer Pump	3007388	1	304,000.00	304,000.00
47	Camshaft	3066877	1	131,755.28	131,755.28
					3,418,922.05

ANNEXURE-6**Critical Spares for IAC (3 nos)**

Sl no.	Description	Part No.	Qty	Rate in INR	Total in INR
1	Seal CrankShaft Oil	X1220T120	3	69.68	209.04
2	Discharge Valve Compl	A243PC2WSC	2	25,827.00	51,654.00
3	Capscrew Btw Head	A243PC19	8	41.00	328.00
4	Screw Flt head	77A2S29	8	13.91	111.28
5	Set Channel & Strips	A243PC33WS	4	0.00	0.00
6	Plate Seat	A243PC18B	3	4,548.69	13,646.07
7	Plate Stop	A243PC6WSC	3	0.00	0.00
8	Valve Inlet Compl	A243PC1WSC	2	12,286.66	24,573.32
9	Plate Seat Inlet	243PC18B	3	4,548.69	13,646.07
10	Plate Stop	A43PC5WS	3	0.00	0.00
11	Set Channels & Stripes	A43PC33WS	4	0.00	0.00
12	Screw RD HD	83A2C29	12	0.00	0.00
13	Spring	PP890	4	0.00	0.00
14	O ring	20A11BM218	4	118.00	472.00
15	Ring Piston	1W68434	4	2,947.08	11,788.32
16	Plunger	1W50160A	4	0.00	0.00
17	Rod piston Compl	9929C1P1T	1	0.00	0.00
18	Piston Complete	2-9962C1T	1	0.00	0.00
19	Ring Piston	50A18BA798	4	4,907.00	19,628.00
20	Ring Wearing	114-8751D1B	2	0.00	0.00
21	Gasket	8165D1P4	3	0.00	0.00
22	Gasket Port Plate	8165D1P2	3	0.00	0.00
23	Gasket Cylinder	8369D1P1	3	0.00	0.00
24	Gasket Packing Case	X1561T8	3	69.68	209.04
25	Ring And Spring	30T18W	3	0.00	0.00
26	Ring Scraper	28A11G180	4	0.00	0.00
27	Ring Scraper	27A11G181	2	0.00	0.00
28	O Ring MB Housing	20A11CM450	2	63.40	126.80
29	Filetr Oil	6458B1	3	0.00	0.00
30	Crosshead Compl	3158E1P1T	1	0.00	0.00
31	Bushing- Main Bearing	5834C1	4	8,454.98	33,819.92
32	Conn Rod and Cap Compl	37189594	1	0.00	0.00
33	Heat Exchanger	100 CFM A/C RIN 7699T1	1	0.00	0.00
34	Air inlet Filter		3	618,072.00	1,854,216.00
Total					2,024,427.86

Annexure-7

Spares for HPBFP Make- Kirloskar Brothers Ltd. Model- 100 X 80 DCS 14M

SR.No.	ITEM DESCRIPTION	PART NO	MATERIAL OF CONSTRUCTION	QTY	UNIT	PRICE/UNIT	TOTAL PRICE
1	IMPELLER (1ST STAGE)	21.1	CR. ST. ASTM A487 - GR. CA6NM	2	PC	147,265.00	294,530.00
2	IMPELLER (SERIES)	21.2	CR. ST. ASTM A487 - GR. CA6NM	26	PC	147,265.00	3,828,890.00
3	GUIDEVANE	22.1	CR. ST. ASTM A487 - GR. CA6NM	26	PC	90,555.00	2,354,430.00
4	GUIDEVANE (LAST STAGE)	22.2	CR. ST. ASTM A487 - GR. CA6NM	2	PC	90,555.00	181,110.00
5	IMPELLER WEAR RING (1ST STAGE)	25.1	CR. ST. ASTM A276 - TYPE 420A (HF)	2	PC	34,615.00	69,230.00
6	IMPELLER WEAR RING (SERIES)	25.2	CR. ST. ASTM A276 - TYPE 420A (HF)	26	PC	34,615.00	899,990.00
7	SHAFT WITH KEYS	31, 39	CR. ST. ASTM A473 - TYPE 410	2	SET	378,590.00	757,180.00
8	INTERSTAGE SLEEVE	43	CR. ST. ASTM A276 - TYPE 420A (HF)	26	PC	14,580.00	379,080.00
9	ADJUST RING (BALANCE PISTON)	45.1	CR. ST. ASTM A276 - TYPE 420A	2	PC	15,920.00	31,840.00
10	ADJUST RING (CASING COVER)	45.3	CR. ST. ASTM A473 - TYPE 410A	2	PC	16,140.00	32,280.00
11	DISTANCE PIECE (NDE BEARING)	45.4	C.S. IS 1570 - 40 C8	2	PC	5,445.00	10,890.00
12	SPLIT RING (BALANCE PISTON)	46	CR. ST. ASTM A276 - TYPE 420H	2	PC	6,050.00	12,100.00
13	SPLIT RING RETAINER	47	CR. ST. ASTM A276 - TYPE 410 (H)	2	PC	15,980.00	31,960.00
14	SLEEVE BEARING (DE & NDE)	52	C.S. ASTM A216 - GR. WCB + W.M.	4	PC	306,935.00	1,227,740.00
15	BALL BEARING	56	SKF OR EQ. 2 X 7310 BDB	2	PAIR	98,090.00	196,180.00
16	O RING RETAINER	70	CR. ST. ASTM A276 - TYPE 420A	2	PC	4,035.00	8,070.00
17	BALANCE PISTON	78	CR. ST. ASTM A276 - TYPE 420A (HF)	2	PC	281,170.00	562,340.00
18	THROAT BUSH	82	CR. ST. ASTM A276 - TYPE 420A	4	PC	14,590.00	58,360.00
19	BALANCING BUSHING	86	CR. ST. ASTM A276 - TYPE 420A	2	PC	204,595.00	409,190.00
20	BEARING GUARD	93.3	BRONZE WITH VITON O RING	6	PC	54,650.00	327,900.00
21	CASE WEAR RING (1ST STAGE)	107.1	CR. ST. ASTM A276 - TYPE 420H	2	PC	29,840.00	59,680.00
22	CASE WEAR RING (SERIES)	107.2	CR. ST. ASTM A276 - TYPE 420H	26	PC	25,425.00	661,050.00
23	O-RING (CASING COVER)	115.1	VITON	2	PC	17,965.00	35,930.00
24	O-RING (STUFFING BOX)	115.3	VITON	4	PC	9,540.00	38,160.00
25	O-RING (BALANCE PISTON)	115.4	VITON	2	PC	2,820.00	5,640.00
26	O-RING (BAL. BUSH + CASING COVER)	115.5	VITON	2	PC	3,840.00	7,680.00
27	O-RING (FIRST INNER CASING)	115.7	VITON	2	PC	4,080.00	8,160.00
28	GASKET (1ST INNER CASING)	117.1	SWG F	2	PC	20,585.00	41,170.00
29	GASKET (BRG COVER NDE)	117.8	NACF	2	PC	1,140.00	2,280.00
30	COUPLING NUT	128	C.S. IS 1570 - 40 C8	2	PC	5,675.00	11,350.00
31	BEARING LOCK NUT	129	C.S. IS 1570 - 40 C8	2	PC	2,990.00	5,980.00
32	BEARING LOCK WASHER	136	C.S. IS 1570 - 40 C8	2	PC	325.00	650.00
33	OIL RING RETAINER (NDE)	271	C.S. IS 1570 - 40 C8	2	PC	3,590.00	7,180.00
196						Sub-Total	12,558,200.00
						Freight & Insurance @ 5%	627,910.00
						Total	13,186,110.00
						GST @ 18%	2,373,499.80
						Grand Total	15,559,609.80



WPIL Limited

REGD. OFF. : "TRINITY PLAZA"
84/1A, TOPSIA ROAD (SOUTH), KOLKATA - 700 046
TEL. : (91 33) 4055 6800, FAX : (91 33) 4055 6835
WEB : <http://www.wpil.co.in>
CIN No. L36900WB1952PLC020274

Ref. No: BQBT1S01802 S.
Dated: 6 th September 2023.

**THE ASST. GENERAL MANAGER (M.M.D.)
LAKWA THERMAL POWER STATION,
MAIBELLA, APGCL,
ASSAM - 785689.**

(Kind Attention: Mr. Bhabesh Gohain)

Dear Sirs,

Sub: BUDGETARY OFFER FOR VT PUMP SPARE FOR M/s Lakwa Thermal Power Station , ASSAM.

In response, we are now pleased to enclose herewith our offer against your subject requirement comprising of the following:-

1. ANNEXURE-A. PRICE BID FORMAT.
2. ANNEXURE-B. COMMERCIAL TERMS & CONDITIONS.

We do hope, you will find our offer in line with your requirement and look forward to the pleasure of receiving your valued order at an early date.

Thanking you and assuring you of our best attention all the time.

Yours faithfully,
For WPIL Limited.


Akshaya Kumar Gouda
Asst. Manager (Sales & Service)
Mob.No: 8231097690



Encl... as above



OFFER NO:- BQBT1S01802 S.
DATED:- 6 th September 2023.



WPIL Limited

REGD. OFF. : "TRINITY PLAZA"
84/1A, TOPSIA ROAD (SOUTH), KOLKATA - 700 046
TEL. : (91 33) 4055 6800, FAX : (91 33) 4055 6835
WEB : <http://www.wpil.co.in>
CIN No. L36900WB1952PLC020274

PUMP MODEL: RH-12TC.
PUMP SL. NO: VD - 6216-17-1.

CUSTOMER : M/S. APGCL - LAKWA THERMAL POWER STATION MAIBELLA, ASSAM.

SL.NO	ITEM NO	ITEM DESCRIPTION	MOC	QTY	UOM	UNIT PRICE/ EACH	TOTAL AMOUNT
1	1	BASKET STRAINER	SS 316	1	NO	23,124.00	23,124.00
2	3	STRAINER CLIP	SS 304	4	NOS	310.00	1,240.00
3	4	BEARING	LTB6 (BRZ)	1	NO	6,884.00	6,884.00
4	5	SAND COLLER	LTB2 (BRZ)	1	NO	550.00	550.00
5	8	BOWL SEAL RING	CAST IRON	3	NOS	3,790.00	11,370.00
6	10	IMP. LOCK COLLET	EN 8	2	NOS	1,980.00	3,960.00
7	12	BOWL BEARING	LTB6 (BRZ)	3	NOS	6,884.00	20,652.00
8	13	DISIL. CASE BEARING	LTB6 (BRZ)	1	NO	6,884.00	6,884.00
9	15	PUMP SHAFT	SS 410	1	NO	34,120.00	34,120.00
10	17	SCREW BEARING	LTB2 (BRZ)	1	NO	13,530.00	13,530.00
11	20	SCREW BEARING	LTB2 (BRZ)	2	NOS	13,530.00	27,060.00
12	22	SHAFT COUPLING	SS 410	2	NOS	1,680.00	3,360.00
13	23	LINE SHAFT	SS 410	1	NO	19,000.00	19,000.00
14	26	TUBE STABILIZER	NEOPRENE RUBBER	4	NOS	5,676.00	22,704.00
15	32	HEAD SHAFT	SS 410	1	NO	21,758.00	21,758.00
16	33	PACKING	TEFLON	1	SET	3,872.00	3,872.00
17	36	BEARING	LTB6 (BRZ)	1	NO	1,664.00	1,664.00
18	18	TUBING ADOPTER	CAST IRON	1	NO	6,172.00	6,172.00
19	21	LINE SHAFT TUBE	IS:1978 : SCH.80	1	NO	10,184.00	10,184.00
20	31	TUBE TENSION NIPPLE	IS:1978 : SCH.80	1	NO	13,296.00	13,296.00
21	40	ADJUSTING NUT	EN 8	1	NO	1,000.00	1,000.00
22	39	TBH ASSEMBLY	WPIL STD	1	NO	1,57,630.00	1,57,630.00
23	34	TUBE TENSION PLATE	CAST IRON	1	NO	9,982.00	9,982.00
24	37	TUBE TENSION NUT	CAST IRON	1	NO	5,930.00	5,930.00
25	42	FLEXIBLE COUPLING (PUMP & MOTOR)	WPIL STD	1	SET	12,000.00	12,000.00

ANNEXURE-B

COMMERCIAL TERMS & CONDITIONS:

PRICE BASIS - Prices quoted in Ex-works GHAZIABAD inclusive of packing and forwarding Charges but exclusive taxes, duties, freight & insurance etc. Which will be charged extra as applicable at the time of despatch.

GST - GST for Spares @18%. HSN Code is 84139120.

DELIVERY - Within 5-6 Months from the date of receipt of your commercially clear order.

PAYMENT - 100% Payment with taxes against dispatch documents through bank.


VALIDITY - We keep our offer valid up to 90 days and there after subject to our reconfirmation in writing.


GUARANTEE - Our components are guaranteed against bad / defective material for a period of 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier. We will provide interchangeable certificate.

Yours Faithfully,
For WPIL Limited

Akshaya Kumar Gouda
Asst. Manager (Sales & Service)
Mob.No: 8231097690.



CUSTOMER	ASSAM POWER GENERATION CORPORATION LIMITED					 Enriching Lives		
PROJECT	Spares For BHR 28,7 STG VT Pump of WHRP,LTPS							
ENQUIRY REFERENCE	LTPS/AGM(MM)/2021/491, dated 28/06/2021							
OFFER REFERENCE	KBL/RAFI/APGCL/1497/21-22							
KIND ATTENTION : Asstt. GM(MM) LTPS,APGCL,Maibella								
Techno Commercial Offer for different spares of KBL make BHR 28, 7- STG VT Pump.								
Serial No.	Description Of Item	Part No	MOC	Qty	Unit	Rate	Amount	
1	Long Intermediate Shaft	1840101	253	1	PCS	280500	₹	2,80,500.00
2	Shaft Sleeve for Long Intermediate Shaft	3120101	253	1	PCS	38200	₹	38,200.00
3	Screwed Coupling	3950101	253	1	PCS	37962	₹	37,962.00
4	Impeller Nut	3300101	110	1	PCS	37962	₹	37,962.00
5	Impeller Shaft	1860101	253	1	PCS	285466	₹	2,85,465.60
6	Split Gland	2290101	12	1	PCS	27200	₹	27,200.00
7	Thrust Collar	3630101	12	1	PCS	64200	₹	64,200.00
8	Transmission Bearing	3570101	474	8	PCS	33858	₹	2,70,864.00
9	Impeller Shaft Bearing(Upper)	3540201	474	2	PCS	33858	₹	67,716.00
10	Impeller Shaft Bearing(Lower)	3540101	474	2	PCS	33858	₹	67,716.00
TOTAL					₹ 11,77,785.60			
COMMERCIAL TERMS AND CONDITIONS:								
1. The quoted prices are EX Kolkata.								
2. The prices given above are for the scope of supply of spares indicated.								
3. Taxes : GST @ 18% Extra.								
4. Validity - Upto 31st July 2021								
5. Delivery : Within 16 -18 weeks from the date of receipt of your Techno-commercial order.								
6. Rest of the terms shall be as per standard KBL general conditions of sale.								
7. Payment : As per previous executed payment terms.								
In the event of order, please place our valued Channel Partner M/s DEBSON PUMPS PVT LTD. Contact Details: Mr. Abhishek Chakraborty. (Director). Mob. No. +919830066961 .Email id: abhishek.chakraborty@debsonpumps.com Registered Office :- Debson Pumps Pvt Ltd. 1,British Indian Street Merlin Building, G Floor. Kolkata-700069								
FOR KIRLOSKAR BROTHERS LIMITED								
Rafi Khan								
Sales Engineer (Int. Dist. & Channel Developement)								
9073910482								

CUSTOMER	ASSAM POWER GENERATION CORPORATION LIMITED				 Enriching Lives			
PROJECT	Spares For BHR 28,7 STG VT Pump of WHRP,LTPS							
ENQUIRY REFERENCE	LTPS/AGM(MM)/2021/T-19/482, dated 12/05/2021							
OFFER REFERENCE	KBL/RAFI/APGCL/1488/21-22							
KIND ATTENTION : Asstt. GM(MM) LTPS,APGCL,Maibella								
Techno Commercial Offer for different spares of KBL make BHR 28, 7- STG VT Pump.								
Serial No.	Description Of Item	Part No	MOC	Qty	Unit	Rate	Amount	
1	Long Intermediate Shaft	1840101	253	1	PCS	304500	₹ 3,04,500.00	
2	Shaft Sleeve for Long Intermediate Shaft	3120101	253	1	PCS	45500	₹ 45,500.00	
3	Screwed Coupling	3950101	253	1	PCS	43750	₹ 43,750.00	
4	Impeller Nut	3300101	110	1	PCS	40250	₹ 40,250.00	
TOTAL				₹ 4,34,000.00				
COMMERCIAL TERMS AND CONDITIONS:								
1. The quoted prices are EX Kolkata.								
2. The prices given above are for the scope of supply of spares indicated.								
3. Taxes : GST @ 18% Extra.								
4. Validity - Upto 15th June 2021								
5. Delivery : Within 16 -18 weeks from the date of receipt of your Techno-commercial order.								
6. Rest of the terms shall be as per standard KBL general conditions of sale.								
7. Payment : As per previous executed payment terms.								
In the event of order, please place our valued Channel Partner M/s DEBSON PUMPS PVT LTD. Contact Details: Mr. Abhishek Chakraborty. (Director). Mob. No. +919830066961 .Email id: abhishek.chakraborty@debsonpumps.com Registered Office :- Debson Pumps Pvt Ltd. 1,British Indian Street Merlin Building, G Floor. Kolkata-700069								
FOR KIRLOSKAR BROTHERS LIMITED								
Rafi Khan								
Sales Engineer (Int. Dist. & Channel Development)								
9073910482								

FL/KOL/SC/2022-23/EQ-018/SP
20th August 2022

To
The AGM (MM)
Material Management Division
LTPS, APGCL, Maibella
7002039925

Sub : Offer for spares for Flowmore Pumps make Intake Pump No# 3 of WHRP Intake
Powerhouse ,WHRP at LAKWA THERMAL POWER STATION.
Ref : Your email dated 27/7/2022

Dear Sir,

We are pleased to submit our offer for spares as per attachment

- i) Commercial Terms & Condition
- ii) Priced Schedule

In event of order on us we request you to route the same through our business partner M/s.
Namrup Sales Corporation , Near Gurudwara Road , Namrup . Contact Person : Mr. Kaushal
Kanda , Tel no. 9435139228

We hope you will find our offer in line with your requirement and look forward to receive your
valuable order.
Assuring you the best of our attention.

Thanks & Regards

For Flowmore Limited

Surjeet Chakraborty
Sr. General Manager

FL/KOL/SC/2022-23/EQ-018/SP
20th August 2022

COMMERCIAL TERMS AND CONDITIONS

1. **Price Basis**: Prices are Firm, Unit Rate : Ex works, Sahibabad/Ghaziabad exclusive of packing & forwarding charges.
2. **GST** : Present applicable rate of GST is 18%
3. **P&F** : The same shall be charged extra @ 5% on the quoted prices
4. **Payment Terms**: 30% Advance alongwith the order and balance 70% alongwith GST payment against PI before despatch .
5. **Validity**: Please note that our offer is valid up to 30 days and thereafter the same shall be subject to our written confirmation.
6. **Delivery**: Delivery shall be 16-20 weeks ex works from the date of receipt of PO.
7. **Freight & Insurance**: Extra as applicable

FL/KOL/SC/2022-23/EQ-018/SP
20th August 2022

PRICE SCHEDULE

SI No	Pt # (as per CSD)	DESCRIPTION OF ITEM Model 14M, Seven Stages Self Water Lubricated Pump	Qty Reqd	Unit Price (Rs)
		SPARES FOR PUMPS WO NO SALE-1804-3450-10 (Model- 14 M- 7 Stage)		
1	27 of TSA	Spherical Roller Thrust Bearing 29416 E (Sl. No. 27, Refer to Drawing No. TSA-SALE18043450 10)	1	130664
2	07 of TSA	Radial Ball Bearing 6020 2ZC3 (Sl. No. 07, Refer to Drawing No. TSA-SALE18043450 10)	1	35405
3	59	Line Shaft (Top) (Sl. No. 59, Refer to Drawing No. CSD-SALE18043450 10)	3	142047
4	46	Top Shaft (Sl. No. 46, Refer to Drawing No. CSD-SALE18043450 10)	1	142047
5	39	Water Seal Ring (Sl. No. 39, Refer to Drawing No. CSD-SALE18043450 10)	1	43627
7	36	Packing Box Bush (Sl. No. 36, Refer to Drawing No. CSD-SALE18043450 10)	1	43627
8	34	Top Shaft Sleeve (Sl. No. 34, Refer to Drawing No. CSD-SALE18043450 10)	1	44480
9	27	Line Shaft Coupling (Sl. No. 27, Refer to Drawing No. CSD-SALE18043450 10)	4	45856
10	24	Line Shaft Bearing (Sl. No. 24, Refer to Drawing No. CSD-SALE18043450 10)	4	17895
11	23	Line Shaft Sleeve (Sl. No. 23, Refer to Drawing No. CSD-SALE18043450 10)	4	44384
12	22	Line Shaft (Bottom) (Sl. No. 22, Refer to Drawing No. CSD-SALE18043450 10)	1	142047
13	20	Pump Shaft Coupling (Sl. No. 20, Refer to Drawing No. CSD-SALE18043450 10)	1	45856
14	19	Pump Shaft (Sl. No. 19, Refer to Drawing No. CSD-SALE18043450 10)	1	174072
15	15	Discharge Case Bearing (Sl. No. 15, Refer to Drawing No. CSD-SALE18043450 10)	2	44305
16	13	Impeller Lock Collet (Sl. No. 13, Refer to Drawing No. CSD-SALE18043450 10)	7	75256
17	09	Brg. Interbowl (Sl. No. 09, Refer to Drawing No. CSD-SALE18043450 10)	7	44305
18	08	Bowl Bush (Sl. No. 08, Refer to Drawing No. CSD-SALE18043450 10)	7	17895
19	56	Bowl Wearing Ring (Sl. No. 56, Refer to Drawing No. CSD-SALE18043450 10)	7	112112
20	03	Brg. Suction (Sl. No. 03, Refer to Drawing No. CSD-SALE18043450 10)	2	44305
21	60	Gasket (Sl. No. 60, Refer to Drawing No. CSD-SALE18043450 10)	2	22069
22	38	Gasket (Sl. No. 38, Refer to Drawing No. CSD-SALE18043450 10)	2	22069
23	32	Gasket (Sl. No. 32, Refer to Drawing No. CSD-SALE18043450 10)	2	22069
24	17	Gasket (Sl. No. 17, Refer to Drawing No. CSD-SALE18043450 10)	2	22069

Corporate Office

443, Udyog Vihar, Phase-III, Gurgaon-122 016
Haryana, India Phone: 91-124-3010883 to 92
Fax: 91-124-3010895, 3010896
E-mail: corporate@flowmoregroup.com

www.flowmorepumps.com

and / or the Office of the Registrar of Companies, Assam, Meghalaya, etc. seeking extension of time for a period of three months i.e. from 1st October, 2023 to 31st December, 2023, for holding the 20th Annual General Meeting (AGM) of the Company for the Financial Year 2022-23."

c) "RESOLVED THAT Managing Director, CFO and Company Secretary of the Company, be and are hereby severally authorized to finalize and sign and file, physically or digitally an application with Ministry of Corporate Affairs, Central Government and/or Registrar of Companies, Assam, Meghalaya, etc. and to sign all other required papers, documents and to take all such suitable steps and actions as may be necessary to implement this resolution."

5. Modification of APGCL Fund Management and Investment Policy

The Board after deliberation "RESOLVED THAT approval be and is hereby granted for investment of surplus fund in all schedule Public Sector Banks as per RBI along with HDFC Bank & ICICI Bank. RESOLVED FURTHER THAT Revised Fund Management Policy is hereby approved with the addition that SBI will be given right to refusal for part of the investment."

6. Supply of Spares for Tranter India Pvt. Ltd. make Plate Heat Exchangers for NRPP, APGCL, Namrup:

The members of the Board discussed in detail about the need and justification of the work to be executed at Namrup Replacement Power Project and in view of the importance of the work, the Board "RESOLVED THAT approval be and is hereby granted for: 1) the work Supply of Spares for Tranter India Pvt. Ltd. make Plate Heat Exchangers for NRPP, APGCL, Namrup amounting to Rs.72,93,863.00 (Rupees Seventy-Two Lakh Ninety-Three Thousand Eight Hundred Sixty-Three only) (Inclusive of all taxes) and 2) the award of the Work Order to the L-1 bidder of the reverse auctioning process M/s Varalka Engineers Pvt. Ltd. UP".

The board approved the work subject to PBG of 10%.

The Board noted that the estimated price of the work was Rs.1,60,11,960.00 (Rupees One Crore Sixty Lakh Eleven Thousand Nine Hundred Sixty Only) (Inclusive of all taxes).

7. Supply, Erection and Commissioning of Water Supply Pipeline from DM plant to WHP & Pahar Line Colony at Namrup Thermal Power Station (Re-routing and Replacement):

The members of the Board discussed in detail about the need and justification of the work to be executed at Namrup Thermal Power Station (NTPS) and in view of the importance of the work, the Board "RESOLVED THAT approval be and is hereby granted for: 1) the work Supply, Erection and Commissioning of Water Supply Pipeline from DM plant to WHP & Pahar Line Colony at Namrup Thermal Power Station (Re-routing and Replacement) amounting to Rs.28,50,000.00 (Rupees twenty-eight lakh fifty thousand only) (Inclusive of GST) and 2) the award of the Work Order to the L-1 bidder M/s S.S. Construction, Barpeta".

The board approved the work subject to PBG of 10%.

The Board noted that the estimated price of the work was Rs.36,91,601.00 (Rupees thirty-six lakh ninety-one thousand six hundred one only) (Inclusive of GST).

8. Procurement of Spares for Dresser Rand Gas Compressors at Lakwa Thermal Power Station, Maibella (LTPS), Suffry-785689, Dist. Charaldeo, Assam.

The members of the Board discussed in detail about the need and justification of the work to be executed at Lakwa Thermal Power Station and in view of the importance of the work, the Board "RESOLVED THAT approval be and is hereby granted for: 1) the work Procurement of Spares for Dresser Rand Gas Compressors at Lakwa Thermal Power Station, Maibella (LTPS), Suffry-785689,

Dist. Charaideo, Assam amounting to Rs.2,17,80,260.00 (Rupees Two Crore Seventeen Lakh Eighty Thousand Two Hundred Sixty Only) (Inclusive of GST) and 2) award of the Work Order to the L-1 bidder M/s Hoerbiger India Pvt. Ltd. Pune".

The Board noted that the estimated price of the work was Rs.2.27 Crores (Rupees Two Crore Twenty-Seven Lakh Only) (Inclusive of GST).

9.Extension of work Contract Period for the Restoration Job of 36.15 MW STG Unit of NRPP by M/S BHEL:

After detailed discussion the Board "RESOLVED THAT approval be and is hereby granted for "Extension of work Contract Period for the Restoration job of 36.15 MW STG Unit of NRPP by M/s BHEL up to 26.07.2023 without imposition of LD"

10.Long Term Service Agreement (LTSA) with General Electric for the 62.25 MW GE make Frame 6FA Gas Turbine Unit of Namrup Replacement Power Project (NRPP):

After detailed discussion the Board directed the following:

- a. Historic data of other firms in respect of similar work is needed.
- b. All the statements to be vetted by Chartered Accountants in practice.
- c. Comprehensive analysis involving gas based Power Generation units in the Country which have LTSA is to be submitted to the Board including data vetting, assumption, precedence, viability, sensitivity analysis, sustainability, project cost, long term cost, life cycle cost, etc.

The agenda may be placed in next board meeting after getting the above details.

11. Creation of posts against the 120 MW Lower Kopli Hydro Electric Project (LKHEP), APGCL, Longku:

The Board after deliberation directed that a comprehensive statements is to be submitted to the Board stating Revenue Generation from the project vis a vis the manpower cost, O&M cost, Benefit to the Company.

12.Sanction of 4 (Four) Nos. of Additional Post of Assistant Security Officer in APGCL:

Deferred due to lack of time.

13.Approval for Waiver of Excess Payment made in respect of Sri Bipin Borgohain, Crane Operator Gr-I, NTPS:

Deferred due to lack of time.

14. Construction of Assam type parking shed for Fire Fighting Truck & Hydra at Namrup Replacement Power Project (NRPP), NTPS, Namrup:

Deferred due to lack of time.

15. 1.Removing of earth, sand deposit & decomposed material at upstream side of weir St-I, MSHEP, APGCL using sand dredging machine.

2.Filling the big size road side holes adjacent to the power channel at Ch.2750.00m & Ch.2940.00m of MSHEP, APGCL

3.Clearance of deposited sand and earth material from road and drain & spreading of GSB material at few locations and clearance of deposited sand from hume pipe culvert at Ch.2100mm of St-II, MSHEP, APGCL

4.Construction of Gabion wall & filling of eroded side of road/shoulders with selected earth materials for erosion control of approach road leading to power house St-I, MSHEP, APGCL

5. RCC cum Boulder Masonry Box culvert Cross Drainage at Ch.- 184 m from Forebay St-I towards Weir St-II of MSHEP, APGCL, West Karbi Anglong, Assam.

6. RCC cum Boulder Masonry Box culvert Cross Drainage at Ch.- 369 m from Forebay St-I towards Weir St-II of MSHEP, APGCL, West Karbi Anglong, Assam.





ASSAM POWER GENERATION CORPORATION LIMITED
Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781001, Assam.
Website: www.apgcl.org
CINU40101AS2003SGC007239
GSTIN: 18AAFCA4891F1ZJ

No: APGCL/CGM (Gen)/2023-24/Spares for Gas compressors-LTPS/02/WO/1

Date: 31-08-23

To: M/s Hoerbiger India Pvt. Ltd.,
702, Sai Radhe, 100+101, Kennedy Road,
Behind Hotel Sheraton Grand, Pune - 411001.

E-mail: arun.jha@hoerbiger.com

Sub: Work Order for "Supply of Spares for Dresser Rand Gas Compressors at Lakwa Thermal Power Station, Maibella (LTPS), Suffry-785689, Dist. Charaideo, Assam".

Ref.: 1) E-Tender No: APGCL/CGM (Gen)/2023-24/Spares for Gas compressors-LTPS/02
2) Your e-mail dtd. 07-07-2023, 16-08-2023 & 29-08-2023.
3) Your letter dtd. 17-07-2023.

Dear Sirs,

With reference to the above, this is to request you (shall also be referred to as "Contractor") to execute the following work as per the specifications, rates and terms & conditions as mentioned below:

Sl. No:	Item Description	Part No:	Qty. (Nos.)	Basic Unit Rate (Rs)	Amount (Rs)
1	Cross Head RDS (With Bush)	1H9315AP4	1	653511.5	653511.50
2	Rod Piston LP	R50827HD	1	615797.02	615797.02
3	Ring Piston 23"	X1687T23XS62IM	6	18106.48	108638.88
4	Ring Piston 13"	X1687T13X38IM	4	9009.08	36036.32
5	Nut Piston	W98966	1	46193.61	46193.61
6	Collar Piston	W100643	1	36654.58	36654.58
7	Collar Piston	W100642	1	57499.12	57499.12
8	Ring Packing Single Acting Thin	3A11B34	3	7065.94	21197.82
9	Ring Packing	4A11B34	1	7065.94	7065.94
10	Gasket Packing Case	X1498T3F	1	1589.84	1589.84
11	Set Screw	X1001T1052AC	6	36301.29	217807.74
12	Nut	X1060T7	6	618.27	3709.62
13	Set Screw	X1001T1040	6	22522.7	135136.20
14	Nut	X1060T7	6	618.27	3709.62
15	Screw Machine Flat	77A2X103	10	176.65	1766.50
16	Spring & insert	PP1388NB	400	529.95	211980
17	Spring & insert	PP1389NB	200	529.95	105990
18	Bullet	R83865AIM	400	353.3	141320
19	Gasket Valve Seat	X1105T8	90	1236.54	111288.60
20	Gasket Valve Cover	X1014T7268U	90	706.59	63593.10
21	Washer Spring	14A5C55	80	125.42	10033.60
22	Gasket	X1014T9085U	90	883.24	79491.60
23	Gasket	X1014T9592U	90	883.24	79491.60
24	Gasket Head Outer LP	W78598	10	8479.13	84791.30

Page 1 of 5

25	Gasket Head Outer HP	W100096	8	3797.94	30383.52
26	Assembly Piston and Rod 23" Combo	DR2MLH37154G1N	1	1839353.55	1839353.55
27	Piston 23" Combo	DR2R79075	1	1325924.39	1325924.39
28	Stud Cylinder Frame to Yoke 23"	DR2R78164AXJ08040	8	10157.29	81258.32
29	Nut Cylinder Frame to Yoke 23"	38A4C10	8	264.97	2119.76
30	Shell Main Bearing	1R16689DP2IM	1	68098.04	68098.04
31	Shim	W75132	1	27557.18	27557.18
32	Cartridge Filter	W89689	1	18901.4	18901.40
33	Valve inlet 81 MAG HF or Equivalent	MLH65600G1	13	43985.5	571811.50
34	Valve Discharge 81 MAG HF or Equivalent	MLH65600AG1	13	43985.5	571811.50
35	Valve inlet 60 MAG HF or Equivalent	MLH65544G4	9	29941.94	269477.46
36	Valve Discharge 81 Mag HF or Equivalent	MLH65545G4	9	29941.94	269477.46
37	XperLUBE Lubricating System.		3	3518133.52	10554400.56
Sub-total					18464868.75
Add: GST @ 18%					3323676.38
Grand Total					21788545.13
Round Off					2, 17,88,545.00
(Rupees two crore seventeen lakh eighty-eight thousand five hundred forty-five only)					

Terms & Conditions:

- 1) **Price:** FOR LTPS and inclusive of P&F, freight, insurance, travelling charges, etc.
- 2) **Consignee:** The General Manager,
Lakwa Thermal Power Station,
Maibella, P.O. Suffry, District- Charaideo, Assam, PIN-785689.

Name: Mr. Prasanna Gogoi,
E-mail: prasanna.gogoi@apgcl.org,
Contact No: 8638864165
- 3) **Scope Of Work:** Supply of Spares for Dresser Rand make Gas compressors at Lakwa Thermal Power Station, Maibella (LTPS), Suffry-785689, Dist. Charaideo, Assam.

The details of Gas Compressor Spares required are as given below:

Sl. No.	Description	Part Number	Qty
1	Cross Head RDS (With Bush)	1H9315AP4	1
2	Rod Piston LP	R50827HD	1
3	Ring Piston 23"	X1687T23X562IM	6
4	Ring Piston 13"	X1687T13X38IM	4
5	Nut Piston	W98966	1
6	Collar Piston	W100643	1
7	Collar Piston	W100642	1
8	Ring Packing Single Acting Thin	3A11B34	3
9	Ring Packing	4A11B34	1
10	Gasket Packing Case	X1498T3F	1
11	Set Screw	X1001T1052AC	6
12	Nut	X1060T7	6
13	Set Screw	X1001T1040	6
14	Nut	X1060T7	6
15	Screw Machine Flat	77A2X103	10

16	Spring & Insert	PP1388NB	400
17	Spring & insert	PP1389NB	200
18	Bullet	R83865AIM	400
19	Gasket Valve Seat	X1105T8	90
20	Gasket Valve Cover	X1014T7268U	90
21	Washer Spring	I4A5C55	80
22	Gasket	X1014T9085U	90
23	Gasket	X1014T9592U	90
24	Gasket Head Outer LP	W78598	10
25	Gasket Head Outer HP	W100096	8
26	Assembly Piston and Rod 23"	DR2MLH37154G1N	1
27	Piston 23" Combo	DR2R79075	1
28	Stud Cylinder Frame to Yoke 23"	DR2R78164AXJ0804 0	8
29	Nut Cylinder Frame to Yoke 23"	38A4C10	8
30	Shell Main Bearing	1R16689DP2IM	1
31	Shim	W75132	1
32	Cartridge Filter	W89689	1
33	Valve Inlet 81 MAG HF or Equivalent	MLH65600G1	13
34	Valve Discharge 81 MAG HF or Equivalent	MLH65600AG1	13
35	Valve Inlet 60 MAG HF or Equivalent	MLH65544G4	9
36	Valve Discharge 81 Mag HF or Equivalent	MLH65545G4	9
37	XperLUBE Lubricating System.		3

- 4) **Work Completion Period:** The work Completion period for the Work – Supply of Spares for Dresser Rand make Gas compressors at Lakwa Thermal Power Station, Maibella (LTPS) will be 125 (one hundred twenty-five) days from the date of issue of this Work Order. Liquidated damage due to delay in completion of supply work in full shall be levied as per the Liquidated Damage Clause.

Note: Post successful completion of supply work, Work Completion Certificate shall be issued to the Contractor by APGCL.

- 5) **Terms of Payment:** 100% payment including all taxes shall be made within 30 (thirty) days after delivery of goods at site against each partial shipment of goods and subjected to fulfilment of the Performance Security Deposit Clause. The delivery of the entire materials against the work order shall be completed in a maximum of 3 (three) lots.
- 6) **Paying Authority:** The Chief General Manager (F&A), APGCL, 3rd Floor, Bijulee Bhawan, Guwahati-1.
- 7) **Liquidated Damage (LD):** In case of delay in work completion beyond the work completion period, APGCL shall be entitled to:
- Recover an amount at the rate of 1% (one percent) of the total value of the undelivered portion of scope of supply per week or part thereof of delay, subjected to maximum of 10% (ten percent) of the total value of the undelivered portion of scope of supply as Liquidated Damage. However, the payment of liquidated damage shall not in any way relieve the Contractor from any of its obligation to complete the work or from any other obligation and liabilities of the Contractor as per work order.
 - Purchase the undelivered material/equipment from elsewhere or to complete the balance work giving notice to the Contractor and to recover any extra expenditure incurred thereby for having to purchase these materials or complete the work at a higher price, at risk and responsibility of the Contractor.
 - Cancel the Work Order wholly or in part and purchase materials/equipment and execute the work at the full risk and cost of the Contractor and forfeit the security deposit.

- 8) **Performance Security Deposit:** On receipt of the Work Order, the successful bidder shall have to deposit a Bank Guarantee from a Nationalized or Scheduled Bank of RBI for an amount equivalent to 10% (ten percent) of the total value of Order (inclusive of GST) as performance security, immediately on acceptance of Work Order, duly pledged in favour of Chief General Manager (Gen), APGCL and such security deposit shall be valid up to 30 (thirty) days beyond the warranty period. (All claims under the warranty shall be preferred to the executant's bank up to 1 (one) year from the validity period of the Bank Guarantee).

If the Contractor fails or neglects to perform any of his obligations under the contract/as per work order/tender, then APGCL shall have the right to forfeit either in full or in part at its absolute discretion, the security deposit furnished by the Contractor. No interest shall be payable on such deposits. A format of Performance Bank Guarantee is enclosed herewith.

Note: The supplier is requested to advise the Bank Guarantee issuing bank to comply with the following and ensure to submit, the receipt of the copy of SFMS message as sent by the issuing bank branch, along with the original bank Guarantee in APGCL's tender issuing office:

The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details:

- i. MT/IFN760/MT/IFN760 COV for issuing of Bank Guarantee.
- ii. MT/IFFN 760/MT/IFN 767 COV for amendment of Bank Guarantee.

The above message/intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Paltanbazar Branch, IFS code-UTIB0000375, Branch Address- AXIS Bank Ltd, Commercial Building, A.T. Road, Guwahati-781001, India.

- 9) **Warranty Period:** The supply work shall have to carry guarantee/warranty against performance for a period of 12 (twelve) months from the date of successful completion of the supply work. Free replacement shall have to be provided pertaining to any defects/issues of the supplied materials that arises during the guarantee/warranty period. Guarantee/Warranty certificate shall be provide at the time of supply of materials at site.
- 10) **Packing:** The dispatched materials shall be packed suitably by the Contractor to withstand any rough handling to evade damage during transit.
- 11) **Insurance:** Insurance of the supplied materials shall be done by the Contractor. In case of any loss/damage/pilferage/non-delivery/short delivery by carriers, etc., the Contractor shall take necessary corrective measures immediately without waiting for settlement of Contractor's Claims with his carriers/underwriters.
- 12) **Fitment Certificate:** The Contractor shall provide Fitment Certificate of the supplied Spares at the time of supply of materials at site.
- 13) **All other terms & conditions shall be as per the APGCL Tender Document for E-Tender No: APGCL/CGM (Gen)/2023-24/Spares for Gas compressors-LTPS/02 and any corrigendum published.**
- 14) **Acceptance of the Work Order:** Contractor shall confirm acceptance of this Work Order by return email within 5 (five) days from the date of receipt of this Work Order, failing which it shall be presumed that all the terms & conditions, etc. are acceptable by the Contractor in full.

Thanking You

Yours Sincerely,


(Dilip Kr. Das)
31.8.23
Chief General Manager (Gen),
APGCL, 3rd Floor, Bijulee Bhawan, Guwahati-1
E-mail: dilipkr.das@apgcl.org
Contact No: 99574-56385

Copy to -

1. The OSD to Hon. Managing Director, APGCL, 3rd floor, Bijulee Bhawan - for kind formation to Hon. Managing Director, APGCL.
2. The Chief General Manager (F&A), APGCL, 3rd floor, Bijulee Bhawan - for kind information. The work is booked under SOPD (L) for FY: 2022-23 carried over to 2023-24.
3. The General Manager (LTPS), APGCL - for information & necessary action.
4. The General Manager (HQ), APGCL, 3rd floor, Bijulee Bhawan - for information.
5. The Dy. General Manager (F&A), APGCL, 3rd floor, Bijulee Bhawan - for information & necessary action.
6. The Dy. General Manager (HQ/Procurement/O&M,LTPS), APGCL, 3rd floor, Bijulee Bhawan - for information & necessary action.
7. Relevant file.

(Dilip Kr. Das)
Chief General Manager (Gen),
APGCL, 3rd Floor, Bijulee Bhawan, Guwahati-1.

MANDATORY SPARES REQUIREMENT OF LRPP			
System Category	Total No of Mandatory Spares	Reference	Amount (Rs.)
Electrical Spares	228	Annexure-1	6,595,496.00
Mechanical	500	Annexure-2	44,336,957.84
Mechanical	11	Annexure-3	134,078.12
Mechanical	1156	Annexure-4	21,440,261.03
	1903	Total	72,506,792.99

Annexure- 1				
Electrical Spares				
Description	QTY	Unit	Unit price in INR	Total (Rs.)
SUT				
HV Bushing	4	no.	161,082.00	644,328.00
LV Bushing	4	no.	39,442.00	157,768.00
HVN Bushing	4	no.	24,087.00	96,348.00
898,444.00				
SF6 CB				
Tripping coil	2	no.	4,187.00	8,374.00
Closing coil	2	no.	4,187.00	8,374.00
Moving and fixed contact assembly	2	no.	314,008.00	628,016.00
SF6 Density monitor	2	no.	46,054.00	92,108.00
Spring charging motor complete with starting equipment	2	set	24,074.00	48,148.00
Aux. Contact assembly	2	set	20,934.00	41,868.00
826,888.00				
Isolator				
Moving and fixed contact assembly	3	no.	31,400.00	94,200.00
Terminal pads	3	no.	3,768.00	11,304.00
Drive motor with gear box	2	no.	21,980.00	43,960.00
Relay, power contactor and switch fuses	2	set	12,561.00	25,122.00
Rotary bearings	2	set	7,536.00	15,072.00
LIMIT switch	2	set	3,140.00	6,280.00
Auxilliary switch	2	set	3,768.00	7,536.00
203,474.00				
Current transformer	2	no.	219,806.00	439,612.00
Potential transformer	2	no.	230,273.00	460,546.00
Lightning arrestor				
120KV, 10KA LA with 25mm creepage	2	no.		0.00
Surge monitor	2	no.		0.00
Control and relay panel				
Auxilliary relay	2	no.	20,934.00	41,868.00
Tripping relay	2	no.	31,400.00	62,800.00
Control switch	2	set	9,525.00	19,050.00
Fuses	2	SET	10,467.00	20,934.00
144,652.00				
11KV MV switchgear				
Trip coil	2	no.	60,000.00	120,000.00
closing coil	2	no.	90,000.00	180,000.00
spring charge motor	2	no.	225,000.00	450,000.00
Vacuum Interrupter	2	no.	250,000.00	500,000.00

1,250,000.00

3.3KV MV Switchgear				
Trip coil	2	no.	50,000.00	100,000.00
closing coil	2	no.	60,000.00	120,000.00
spring charge motor	2	no.	225,000.00	450,000.00
Vacuum Interrupter	2	no.	250,000.00	500,000.00

1,170,000.00

LV Switchgear				
Motor operating mechanism	1	no.	75,000.00	75,000.00
U/V coil for ACB (3WL)	2	nos.	96,000.00	192,000.00
S/T coil for ACB (3WL)	2	nos.	144,000.00	288,000.00

555,000.00

Station transformer, 2MVA 11/0.415kv				
HV Bushing	2	nos.	103,092.00	206,184.00
LV Bushing	2	nos.	25,243.00	50,486.00
LV Neutral bushing	2	nos.	15,416.00	30,832.00

287,502.00

Station transformer, 2MVA 11/3.3KVkv				
HV Bushing	2	nos.	128,865.00	257,730.00
LV Bushing	2	nos.	31,554.00	63,108.00
LV Neutral bushing	2	nos.	19,270.00	38,540.00

359,378.00

Grand Total (Rs.):				6,595,496.00
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Annexure-2
Engine Emergency Spares

S.NO	PART NO	DESCRIPTION	REQUIRED FOR	No. of	Rate in INR	Total in INR
1	100003	Antipolishing ring	Liner	2	32,405.00	64,810.00
2	100023	O-ring	Liner	4	2,291.75	9,167.00
3	100110	Cylinder liner		2	0.00	0.00
4	100113	O-ring	Liner Water Jacket	6	958.03	5,748.18
5	100142	Sealing set	Hyd Jack	6	2,690.00	16,140.00
6	100341	Thrust Bearing Kit (Ver 003)	Thrust Bearing	1	0.00	0.00
7	100342	Main Bearing Kit	Main Bearing	2	86,175.60	172,351.20
8	111010	Connecting rod, lower part		2	534,089.00	1,068,178.00
9	111011	Connecting rod, upper part		2	534,327.00	1,068,654.00
10	111015	Shim	Con Rod	2	26,304.00	52,608.00
11	111016	Big end bearing kit	Con Rod	4	85,565.68	342,262.72
12	113001	Piston		2	0.00	0.00
13	113009	Securing ring	Piston	4	614.00	2,456.00
14	113010	Gudgeon pin	Piston	2	76,536.00	153,072.00
15	113012	Piston ring set	Piston	4	87,491.70	349,966.80
16	120001	Cylinder head complete		6	1,970,133.18	11,820,799.08
17	120013	Valve guide	Cylinder Head	4	16,484.40	65,937.60
18	120015	Cylinder head replacement kit	Cylinder Head	7	21,520.00	150,640.00
19	120021	Seat ring for inlet valve	Cylinder Head	4	9,956.05	39,824.20
20	120022	Seat Ring Exhaust 30 Deg	Cylinder Head	4	78,897.00	315,588.00
21	120054	Cylinder head O/H kit	Cylinder Head	6	33,726.00	202,356.00
22	120095	Ignition coil	Cylinder Head	4	68,104.16	272,416.64
23	121006	Exhaust Valve-30 Deg	Cylinder Head	4	56,073.22	224,292.88
24	121007	Inlet valve, complete	Cylinder Head	4	0.00	0.00
25	123001	Starting valve	Cylinder Head	4	100,067.00	400,268.00
26	124001	Prechamber complete	Cylinder Head	2	247,210.60	494,421.20
27	124002	Spark Plug- Bridge Type	Cylinder Head	60	11,162.00	669,720.00
28	124043	Sealing set	PCC	6	2,329.00	13,974.00
29	124044	Prechamber control valve	PCC	4	87,115.99	348,463.96
30	145001	Push rod	Cylinder Head	4	26,621.00	106,484.00
31	145018	Valve tappet	Cylinder Head	4	197,837.00	791,348.00
32	156316	Rotor, complete	Turbocharger	3	2,095,237.00	6,285,711.00
33	156383	Spare part set	Turbocharger	4	1,024,721.75	4,098,887.00
34	164025	Main gas admission valve		6	128,479.00	770,874.00
35	164089	Sealing Set	MGAV	6	2,128.00	12,768.00
36	181001	Lubricating oil pump		2	0.00	0.00
37	182062	Sealing set	Pre Lub Pump	6	7,876.00	47,256.00
38	191001	HT-water pump		1	0.00	0.00
39	191002	LT-water pump		1	0.00	0.00
40	191051	Sealing set (191051/191086)	Water Pump	6	0.00	0.00
41	200009	Screw	Exhaust System	12	977.00	11,724.00
42	200011	Nut	Exhaust System	12	158.00	1,896.00
43	200029	Gasket	Exhaust Pipe	2	3,172.00	6,344.00
44	200079	Bellows	Exhaust Pipe	2	91,858.65	183,717.30
45	200081	Bellows	Exhaust System	2	195,833.63	391,667.26
46	200084	Screw	Exhaust System	12	1,437.61	17,251.26
47	200085	Nut	Exhaust System	12	958.04	11,496.48
48	200334	Positioner	Wastegate	2	354,472.95	708,945.90
49	200347	Sealing ring	Exhaust System	4	5,229.00	20,916.00

Annexure-2
Engine Emergency Spares

S.NO	PART NO	DESCRIPTION	REQUIRED FOR	No. of	Rate in INR	Total in INR
50	202009	Bellows	Wastegate	2	69,739.87	139,479.73
51	202053	Screw	Wastegate	16	1,249.75	19,996.00
52	202148	Sealing ring	Wastegate	4	5,401.24	21,604.96
53	202358	Screw	Wastegate	8	1,869.66	14,957.28
54	207992	Butterfly Valve DN125	Wastegate	2	808,600.32	1,617,200.64
55	471063	Filter cartridge	LO Filter	78	7,044.37	549,460.86
56	471126	Sealing set	LO Filter	3	38,133.55	114,400.65
57	473081	Sealing set	Centrifugal Filter	3	18,629.00	55,887.00
58	474043	Sealing set	LO Module	3	36,456.00	109,368.00
59	476001	Charge air cooler		2	0.00	0.00
60	476009	Sealing set	CAC	3	61,831.00	185,493.00
61	504103	Knock sensor	Cylinder Head	6	5,220.00	31,320.00
62	504128	Temperature sensor	Exhaust Sensor	2	36,301.46	72,602.92
63	516256	Electronic unit IOM	IOM	2	0.00	0.00
64	516292	Control unit, MCM-11	MCM	4	246,128.00	984,512.00
65	516387	Engine safety module	ESM	2	246,009.00	492,018.00
66	516495	Power distribution module	PDM	2	20,362.00	40,724.00
67	516500	Display unit	LDU	2	620,609.00	1,241,218.00
68	516541	Pressure sensor	Peak Pressure Sensor	9	112,419.00	1,011,771.00
69	516596	Fuse (alt. 516373)- 1 Amp		8	0.00	0.00
70	516597	Fuse (alt. 516372)- 4 Amp		8	0.00	0.00
71	800264	Sealing set for hydraulic tightening tool	Big End Bearing Tool	2	6,105.12	12,210.24
72	1561184	Nozzle (turbocharger NA358)	Turbocharger	4	686,564.00	2,746,256.00
73	5071072	Control unit CCM	CCM	6	150,933.00	905,598.00
74	5071249	Thermoelement	Liner Temp Sensor	2	42,641.95	85,283.90
75	5071289	Ignition module (WCD-10)	WCD	4	376,180.50	1,504,722.00
76	5071318	Electronic unit (IOM)	IOM	4	30,781.00	123,124.00
77	CV519	IP-converter		4	0.00	0.00
78	CV947	Solenoid valve	Degasing Valve	2	41,754.00	83,508.00
79	CV957	Solenoid valve		2	0.00	0.00
80	Motor Radiator	Motor Radiator		2	0.00	0.00
81	PAAE168492	Spare Part Kit -ET 402-25-K2A		2	19,966.00	39,932.00
82	PT201	Pressure sensor- 0-10 Bar		2	0.00	0.00
83	PT401	Pressure sensor- 0-6 Bar		2	0.00	0.00
84	PT700	Pressure sensor		2	0.00	0.00
85	PTZ201	Pressure sensor		2	0.00	0.00
86	SE518/SE528	TC speed pick up	Turbocharger	2	0.00	0.00
87	ST173	Speed pick-up		2	36,406.00	72,812.00
88	ST196P	Speed sensor		2	67,425.00	134,850.00
89	ST197P	Speed sensor		4	17,193.00	68,772.00
90	ST197S	Speed sensor		2	17,193.00	34,386.00
91	TE201	Temperature sensor		2	0.00	0.00
92	TE402/TE403	Temperature sensor		2	0.00	0.00
93	TE601	Temperature sensor		2	0.00	0.00
94	TEZ402/TEZ403	Temperature sensor, HT water outlet		2	0.00	0.00

Annexure-2
Engine Emergency Spares

S.NO	PART NO	DESCRIPTION	REQUIRED FOR	No. of	Rate in INR	Total in INR
95	PAAE154119	Spare Part Kit (ET640-50)		2	16,044.00	32,088.00
						44,336,957.84

ANNEXURE-3
BSDG Emergency Spares

SL.NO	DESCRIPTION OF ITEM	EXISTING MAKE, MODEL AND PART NO.	QUANTITY	Rate in INR	Total in INR
1	Element, Lube oil filter	3401544	1	3,346.00	3,346.00
2	TLA, Fuel filter	4344509	1	0.00	0.00
3	Separator, fuel water	4345001	1	8,663.00	8,663.00
4	element, CRN resistor	4072352	1	431.00	431.00
5	Element, inner	4957709	1	5,518.12	5,518.12
6	Element, outer	4957708	1	80,805.40	80,805.40
7	Inhibitor, corrosion	3816986	1	1,489.60	1,489.60
8	Gasket rocker lever cover	3066311	3	3,045.00	9,135.00
9	Valvoline premium blue 7800 plus 1/55 ltr	506655	1	24,690.00	24,690.00

134,078.12

Annexure-4
Scheduled maintenance spares

Schedule Maintenance	Part No.	Parts Required	Remarks	Quantity per Engine	Rate in INR	Total in INR
2K	124002	Spark Plugs		20	18,570.21	371,404.20
	120099	O-ring	On inspection	20	0.00	0.00
	120100	O-ring	On inspection	20	0.00	0.00
4k	Same as 2K				0.00	0.00
8k	Spares as required for 2K included				0.00	0.00
	156161	CAC O ring		4	811.00	3,244.00
	476132	o ring		2	4,701.47	9,402.94
	476015	Screw		10	768.32	7,683.15
	476016	Screw		14	249.85	3,497.89
	476127	Screw		14	249.85	3,497.89
	476132	o ring		2	4,701.47	9,402.94
	476055	Plug		2	0.00	0.00
	476017	Plug		2	0.00	0.00
	476019	o ring		2	68.80	137.60
	476023	o ring		2	118.22	236.44
	476018	sealing ring		2	112.73	225.45
	476027	sealing ring		2	79.78	159.56
	202009	Exhaust Bellows (waste gate)	On inspection	2	45,161.00	90,322.00
	202358	SCREW		8	1,944.83	15,558.67
	202053	SCREW		8	1,296.17	10,369.32
	202148	sealing ring		4	5,683.19	22,732.74
	202176	Washer		8	638.11	5,104.90
	471063	Lube Oil Filter Candles		78	7,044.38	549,461.25
	207926	Positioner Pilot Valve		1	93,951.00	93,951.00
	501108	SPARE PART KIT		20	3,935.00	78,700.00
	471126	Sealing set		1	38133.55	38,133.55
	156383	TurboCharger Overhaul Kit	On inspection	2	1,024,721.75	2,049,443.50
	156501	O RING		2	763.98	1,527.96
	156031	SCREW		8	987.30	7,898.40
12k		Spares as required for 2K included			58,911.00	0.00
	191051	HT Pump Overhaul Kit		1	74,280.23	74,280.23
	191051	LT Pump Overhaul Kit		1	74,280.23	74,280.23
	107064	O RING		4	0.00	0.00

Schedule Maintenance	Part No.	Parts Required	Remarks	Quantity per Engine	Rate in INR	Total in INR
	107096	O RING		2	688.55	1,377.10
	107177	O RING		2	905.03	1,810.06
	107178	O RING		2	364.36	728.72
	107330	O RING		2	0.00	0.00
	107332	O RING		5	0.00	0.00
	107335	O RING		2	0.00	0.00
	107337	O RING		1	3,768.85	3,768.85
	107338	O RING		1	4,327.20	4,327.20
	107438	O RING		3	0.00	0.00
	107655	O RING		1	468.03	468.03
	107748	O RING		2	0.00	0.00
	350789	O RING		2	0.00	0.00
	352005	O RING		8	0.00	0.00
	352130	O RING		3	0.00	0.00
	352134	O RING		1	2,144.24	2,144.24
	352137	O RING		1	2,019.94	2,019.94
	352615	O RING		1	529.02	529.02
	352620	O RING		4	1,266.84	5,067.36
	352629	O RING		1	0.00	0.00
	352637	O RING		1	1,624.35	1,624.35
	352638	O RING		1	0.00	0.00
	352712	O RING		1	0.00	0.00
	352932	O RING		1	0.00	0.00
	3551136	O RING		2	0.00	0.00
	355378	O RING		1	0.00	0.00
	355442	O RING		6	0.00	0.00
	355899	O RING		2	0.00	0.00
	473116	O RING		2	0.00	0.00
	604513	O RING		4	509.08	2,036.33
	604514	O RING		2	0.00	0.00
	1071055	O RING		1	0.00	0.00
	6041275	O RING		2	0.00	0.00
	6041466	O RING		2	498.36	996.71
	1812922	LO PUMP CLAMPING RING		1	0.00	0.00
	191017	PAIR OF FRICTION RING		4	3,761.17	15,044.68
	VCH010B0 02	RUBBER BELLOW		2	0.00	0.00
	191012	Bearing		1	13,111.79	13,111.79
	191013	Bearing		1	0.00	0.00
	182017	Flexible coupling		1	0.00	0.00
	183003	Thermostat element			0.00	0.00
	183005	O-ring		1	433.00	433.00

Schedule Maintenance	Part No.	Parts Required	Remarks	Quantity per Engine	Rate in INR	Total in INR
	181077	Lube Oil Pump Service Kit		1	195,457.93	195,457.93
	182062	Prelube Pump Overhaul Kit		1	0.00	0.00
16K	Spares as required for 8 K included				0.00	0.00
	VCH010B001	Rubber compensator		1	0.00	0.00
	181292	Clamping Ring		1	31,980.91	31,980.91
	181077	LO Pump Kit		1	195,457.93	195,457.93
	352134	O-Ring		1	2,019.94	2,019.94
	352615	O-Ring		1	0.00	0.00
	352629	O-Ring		1	1,624.35	1,624.35
	352620	O-Ring		2	0.00	0.00
	352637	O-Ring		1	469.20	469.20
	604513	O-Ring		1	509.08	509.08
	107655	O-Ring		1	468.03	468.03
	181364	O-Ring		1	0.00	0.00
	350981	Screw		40	0.00	0.00
	121021	Inlet Seat Ring		4	0.00	0.00
	121020	Rotocap Kit		7	13,958.70	97,710.90
	100113	O-Ring		20	958.04	19,160.70
	145019	O-Ring		1	19,160.70	19,160.70
	100023	O-Ring		40	2,432.80	97,312.08
	100341	Thrust Bearing Kit		1	91,670.80	91,670.80
	100343	Flywheel Bearing Kit		1	87,789.67	87,789.67
	100015	O-Ring		2	249.85	499.70
	121006	Exhaust Valve		12	59,523.89	714,286.62
	100142	Sealing Rset		1	2,690.00	2,690.00
	121012	Valve Inlet		5	38,486.13	192,430.65
	113031	Screw Set		20	51,647.19	1,032,943.80
	476023	O-Ring		2	429.32	858.64
	120013	Valve Guide		20	17,498.81	349,976.28
	120054	Cyr Head Sealing Kit		20	33,726.00	674,520.00
	113012	Piston Ring Set		20	87,491.69	1,749,833.80
	100003	APR		20	32,405.00	648,100.00
	124047	PCC Lower Part		19	59,356.05	1,127,764.95
	120015	Cyr Head Replacement Kit		20	21,520.00	430,400.00
	200092	Screw		3	737.82	2,213.45
	200022	Screw		3	319.06	957.17
	200338	Screw		2	4,287.32	8,574.63

Schedule Maintenance	Part No.	Parts Required	Remarks	Quantity per Engine	Rate in INR	Total in INR
	1562002	Compr Outlet Casing		1	1,588,300.65	1,588,300.65
	1562005	Diffuser		1	0.00	0.00
	202148	Sealing Ring		4	5,683.19	22,732.74
	202009	Bellows		2	69,739.87	139,479.73
	202053	Screw		8	1,296.17	10,369.32
	202176	Washer		8	638.11	5,104.90
	202358	Screw		8	1,944.83	15,558.67
	SE518	Speed Sensor		2	234,306.75	468,613.50
	164125	Cartridge Set		19	142,766.00	2,712,554.00
	164025	MGAV		1	128,479.00	128,479.00
	124044	PCC Control Valve		2	92,476.97	184,953.95
	3501311	Screw		20	0.00	0.00
	111016	Big End Bearing Kit		20	90,831.26	1,816,625.10
	5071289	WCD		1	376,180.50	376,180.50
	100005	CAMSHAFT BEARING BUSH		2	78,219.16	156,438.32
	148006	CAMSHAFT SCREWS		48	249.85	11,992.75
	131003	Bearing piece		1	0.00	0.00
	131006	O-Ring		2	2,343.65	4,687.31
	131007	Screw		6	0.00	0.00
	131025	Pin		2	0.00	0.00
	131026	Thrust Bearing Bush		3	0.00	0.00
	131027	O-Ring		1	249.85	249.85
	131017	O-Ring		1	0.00	0.00
	131081	Screw		8	0.00	0.00
	131071	O-Ring		2	5,184.66	10,369.32
	131073	O-Ring		2	249.85	499.70
	387003	Glue compound		1	0.00	0.00
	131087	Bearing piece		1	0.00	0.00
24k	Spares as required for 12K 8K included				0.00	0.00
	217048	Start Air Valve Overhaul Kit		1	206,389.35	206,389.35
	1561184	Nozzle		2	0.00	0.00
	1562001	Shroud ring		2	381,691.00	763,382.00
	1562111	Thrust collar		2	70,664.00	141,328.00
	1562148	Turbine inlet casing, compl.		10	0.00	0.00
	211007	Slide		10	4,867.00	48,670.00
	211008	Spring		1	0.00	0.00
	211016	O-ring		1	0.00	0.00
	211017	O-ring		10	0.00	0.00

Schedule Maintenance	Part No.	Parts Required	Remarks	Quantity per Engine	Rate in INR	Total in INR
	211019	O-ring		10	0.00	0.00
	211020	O-ring		1	0.00	0.00
	211021	O-ring		1	0.00	0.00
	501150	Damper		4	0.00	0.00
	506964	Damper		4	0.00	0.00
	507120	Damper		16	0.00	0.00
	5071288	Damper		8	0.00	0.00
	5071565	Electronic unit		7	0.00	0.00
	507286	Damper		8	0.00	0.00
	516493	Damper		6	0.00	0.00
	CV519	IP-converter		1	0.00	0.00
	TE517	Temperature sensor		2	18,644.84	37,289.67
	5061307	Protection well		2	11,964.60	23,929.20
	1561019	INSERT		1	604,312.01	604,312.01
	EXHAUST SIDE HARDWARE				0.00	0.00
	200081	Bellows		2	195,833.63	391,667.25
	200084	Screw		24	1,437.61	34,502.52
	200085	Nut		24	958.04	22,992.84
	200400	Washer		24	723.78	17,370.60
	200401	screw		8	777.70	6,221.59
	200402	screw		16	1,155.83	18,493.28
	202131	Washer		48	628.73	30,178.94
	202334	Support		10	0.00	0.00
	200347	sealing ring		4	5,229.00	20,916.00
	202339	screw		4	5,782.89	23,131.56
	200009	screw		12	1,375.93	16,511.15
	202343	Nut		48	558.35	26,800.70
						21,440,261.03

Spares for 220KV Switch Yard of KLHEP

Sl No.	Description Of Items	Qty.	Unit
1	220KV, 2000 Amps Single Pole SF6 Circuit Breaker Complete with all accessories like operating mechanism, marshalling box etc. & galvanized mounting structures including terminal connectors	1	Sets
2	220KV, 2000 Amps, triple pole horizontal centre break Isolator with 2 earthing switch complete with operating mechanism & galvanized mounting structures including terminal connectors	1	Sets
3	220KV, 2000 Amps, triple pole horizontal centre break Isolator with 1 earthing switch complete with operating mechanism & galvanized mounting structures including terminal connectors	1	Sets
4	220KV, 2000 Amps, triple pole horizontal centre break Isolator without earthing switch complete with operating mechanism & galvanized mounting structures including terminal connectors	1	Sets
5	220KV Current Transformers (220KV, 800-400-200/1-1-1-1, 0.5,PS,PS, PS,PS,Vk 800) with all accessories and galvanized mounting structure along with insulating oil including terminal connectors.	1	Nos.
	220KV Current Transformers (220KV, 800-600-300/1-1-1-1, PS,PS,0.2, 5P20,PS,Vk 800) with all accessories and galvanized mounting structure along with insulating oil including terminal connectors.	1	Nos.
6	10KA, 198KV Station type, heavy duty Single Pole surge arresters for 220KV system with standard accessories with surge monitoring equipment including terminal connectors.	1	Nos.
7	Bay Marshalling Box	1	Nos.
8	220KV Single Tension string assembly with double anchoring points with 15 nos. of Anti Fog type disc insulator per string with all hardware accessories including turn buckle, arcing horn and tension clamp set suitable for Moose ACSR conductor.	1	Sets
9	220KV Single suspension string assembly with with 15 nos. of Anti Fog type disc insulator per string with all hardware accessories, arcing horn and tension clamp	1	Sets
10	220KV Bus solid core type Post Insulator	1	Nos.
11	415V AC distribution scheme through 200+200 Amp capacity switchyard Kiosk (Includede in 415V LT AC supply) for AC supply for switchyard equipments and protection panels complete with MCCBs, junction boxes, switches, indications etc. as per system requirement.	1	Lot
12	ACSR Moose Conductor	1	Mtrs.
13	PG Clamps for Moose Conductor	1	Nos.
14	TEE Clamps for Moose to Moose Conductor	1	Nos.
15	7/3.15mm G.S. stranded Conductor	1	Mtrs.
16	Earth wire tension clamp with D-Shackle assembly for 7/3. 15mm Earth wire with fixing arrangement for copper earth bond	1	Nos.
17	Pad type Clamp for 7/3. 15mm earthwire	1	Nos.
18	PG Clamp for 7/3. 15mm earthwire	1	Nos.
19	Copper Earth Bond	1	Mtrs.
20	SF6 gas handling equipment for Circuit Breaker	1	Nos.
21	SF6 gas leak detector	1	Nos.

Spares for 220KV POWER House			
SL.NO	ITEMS	SPECIFICATION OF ITEMS	REMARKS
1	LED Flood Light	150 W,18000 Lumen,120L/W, IP 68, Outdoor ,6000k	For High Mast Lighting
2	LED Flood Light	200 W,20,000 Lumen,120L/W, IP 65, Indoor ,6000k	For Roof lighting
3	LED Tube Light	40 W, Tube light	Roof light
4	Contactora	MNX-80 ,L&T,3 Pole, Coil 240V,50Hz	Use in Drainage Pump
5	Aux contact Block	MNX 45 -80 ,415 V,50/60 Hz	
6	Contactora	MNX 40,3 Pole,415V,50Hz	
7	Contactora	MNX32, 3 Pole,415 V,50 Hz	Use in air compressor
8	Contactora	MNX 95, 3 Pole,240 V,50 Hz	Use in Dewatering Pump
9	Contactora	MNX 225,3 Pole,240V,50 Hz	Use in C.W Pump
10	Contactora	MNX 70, 3 Pole,415 V	
11	Contactora	Schneider, 3 Pole,415 V ,125 A	
12	Contactora	MNX 110, 3 Pole, 415 V	
13	Contactora	MNX 45, 3 Pole ,415 V	
14	Contactora	L&T ,MNX 50 A	
15	MCCB	3 Pole,125 A	
16	MCCB	125 A	Use in Dewatering Pump
17	MCCB	DU 250, 160 A	
18	MCCB	Havells, 3 Pole ,415 V , 100 A	
19	MCCB	DH 100, 3 Pole 100 A	Use in Drainage Pump
20	MCCB	Schneider , 4 Pole,125 A	
21	MCCB	4 Pole,63 A	
22	MCCB	DNO 100C, 3 Pole, 50A	
23	MCCB	Havells ,4 Pole,415V,200A	
24	MCCB	Havells ,3 Pole,415V,63 A	
25	MCCB	DN 2-250D,4 Pole ,200A	
26	MCB (DC)	L&T 2 Pole,16A,6 KA	
27	MCB	Havells, 1 Pole,6 A	
28	Link Assembly	DN2 4 Pole	
29	Link Assembly	DN2 3 Pole	
30	Add on Block	MNX-A1	
31	Spreader Link	DU 100	
32	Over Load Relay	Thermal MN-2, 0.9-1.5 A	
33	Spare Coil	MNX 95-140	
34	Spare Coil	MNX-45/55/70/80	
35	Sheet	80mm x 80 mmx 1.5 mm	
36	On Delay Timer	Siemens, 3-60 Sec	Use in Dewatering Pump
37	Spare Parts Contactora without Coil	L&T MNX 110	
38	3 Star Line Contactora	Size-DC 7R,Thermal rating: 315A, Coil Voltage: 240V	use in E.O.T Crane
39			

Mandatory Spares of Generator Transformers and other Electrical Equipment

SI No	Equipments	Type	Specification
1	UGB oil level monitor	BL-SD	Test press: 2 kgf/cm ² , Max temp: 90° C, Inductance load: 12 VA, Max : 400 V/0.5A, Maker: Kaneko Sanyo Ltd. Japan
2	LGB oil level monitor	BL-SD	DO
3	3-ph MCB contactor spare Kits for oil pump		MXN-80, 80 amps, spare kits
4	3-ph MCB contactor spare Kits for cooling water pump		MXN-225, 200 amps, spare kits
5	3-ph MCB contactor spare Kits for oil pump		MXN-225, 260 amps, spare kits
	Temperature Display (Digital)	Compatible Analog, 6500-01, TSURUGA Electric Corporation, Japan	Main control Panel
6	Temperature Selector Switch and Digital Display	PCU 24 B	For main control panel of unit
7	Temperature Recorder	Hybrid Recorder, DR240,DS400 Sub Unit I/F, Yokogawa Made	For UCB Panel
8	Bus Duct Flexible Link		
8	Indoor BUS BAR CT & PT		For Generator Differential Protection
9	33 KV Neutral Gnd CT	LMAS	200/5A, NSV= 33 KV, HSV=36 KV,IL=70/170 KV, 5P10/Ps. Burden=15 VA
10	11 KV Neutral Gnd transformer		20 KVA,11 KV/220 V
11	Submersible Pump	AMAREX KRT 100-315/294 UG-S	Horizontal Shaft Single Suction Volute , 29 KW, 415 V,3000 LPM, head-27 Meters, Discharge- 100 mm
12	Generator 11KV Bus Duct Rubber Bellow	230mm Length	
13	Power Contactor SC-8,440V,90 KW,AC=260A		
14	Power Contactor SC-6,440V,60 KW,AC=200A		
15	Power Contactor SC-2S,440V,22 KW,AC1=80A		
16	Auxiliary contactor,SH-4,CV 220-240 V		
17	CWP OLR,TR-6, Max Current 125A		
18	Areva C264 Multi Function Meter		
19	220 VDC Industrial grade CMR with base		
20	Overload relay RTO		
21	DOL Starter, 1HP, Single phase		
22	Mobile Transformer Oil Filter Machine	4500 LPH,	
23	Monobloc Self Priming Pump	1KW	
24	Magnetic Oil Governor for 21 MVA CGL GT		
25	Buchholz relay 5 degree angle, 21MVA GT		
26	Winding Temperature Indicator,C102		
27	OilTemperature Indicator,9506/2		
28	Transformer Oil Pump, 4BTB2		
29	Condenser Bushing for 21 MVA GT		
30	33KV Numerical Feeder Protection Relay	Over Current and Earth Fault	

Mandatory Spares for Control and Relay Panels of Units

SL. NO	NAME OF EQUIPMENT	TYPE	Remark
1	UNDER VOLTAGE RELAY	DQVRD2NA	These relays are Electro-Mechanical Type and Manufacture in the year 1983. Therefore Digital Relay may be procured.
2	LOSS OF EXCITATION RELAY	DQZRC1NB	
3	OVER CURRENT RELAY	DQARA1HB	
4	OVER CURRENT RELAY	DQAJC1HC	
5	OVER VOLTAGE RELAY	DQVRA1HA	
6	GROUND OVER CURRENT RELAY	DQACD1NA	
7	WINDING GROUND RELAY	DQVRJ1NA	
8	OVER CURRENT RELAY	DQAW2HA	
9	REVERSE POWER RELAY	DQWPD1HN	
10	OVER CURRENT RELAY	DQAW2HB	
11	DISTANCE RELAY	DQZRC1NB	
12	VOLTAGE BALANCE RELAY	DQERA1HB	
13	PERCENTAGE DIFFERENTIAL RELAY	DQDRB2PD	
14	AUXILIARY RELAY	DRJHB1TA	
15	Time lag Relay (DRTKA1PA)	15-180 sec	
		0.1-1 Sec	
		0.5-6Sec	
		1-10Sec	
		2.5-30Sec	
		5-60Sec	
16	TIME LIMITING RELAY(30-180Sec)	DRTSA1PB	
17	AUXILIARY RELAY	DRKHB1AB	
18	AUXILIARY RELAY	DRHHB1CA	
19	AUXILIARY RELAY	DRHHB5FA	
20	CURRENT TRANSFORMER	CW-1BS,CLASS-1PS,BURDEN-15VA,RATIO-5/2A	
21	TRANSDUCERS	WTT2-92A-33	
22	TRANSDUCERS	WVTT2-92A-33	
23	RECORDER	MODEL- 436102,NO-S5EB08130,SUPPLY-100-240V AC,YOKOGAWA	
24	PLUG IN TYPE TEST TERMINAL	STT5-A3,AC-500V,10A	
25	PLUG IN TYPE TEST TERMINAL	STT5-V3,AC-500V,10A	
26	RELAY	MKP2P220,COIL VOLTAGE-220V DC, CONTACT- 10A,240 V AC/ 10A,24VDC	
27	RELAY	MKP-2P	
28	RELAY	SRCa50-3F/G	
29	RESISTOR	DRY042,30 Ohms	
30	RESISTOR	DRY042,60 Ohms	
31	TIMER RELAY(0-10SEC)	ST3	
32	TIMER RELAY(0.1Sec-9990 Hr)	H3CA-A	
33	RELAY	SH-4/G,DC 220 V	
34	RELAY CONTACTOR	SZ-A22,AC-15	
35	RESISTOR	DRY 052-13D	
36	RESISTOR	DRY 051-13D	

Mandatory Spares for Electrical AVR Panel

SL NO	EQUIPMENT	TYPE	
1	DC MCB	SA52C,250V DC ,20 A	
2	MCB	CP32FM /10K, 10A	
3	TRANSDUCER	FTT2-82A,CLASS-1,INPUT 110 V DC	
4	INS ISOLATOR	FWTT-0B776F20	
5	DC-DC CONVERTER	PSS-2413LCF2	
6	POWER LINE TRANSDUCER	QT-93A-3-33-1, CLASS-0.5	
7	PT CONVERTER	PTFS-24	
8	V/V CONVERTER	PVFS-24V	
9	GNC CARD	RGGW1GNC-0131A	
10	POD	V9100iCD,CLASS-2,24V DC , 10 A	
11	RELAY	HH54PW-FL,24V DC	
12	TIMER RELAY	H3CA, OMRON	
13	TIMER RELAY	MS4SC,OMRON	
14	RELAY	SH-4/G,AC 15,10 A	
15	RELAY CONTACTOR	SZ-A31,AC 15,10 A	

Mandatory Spares for Unit Control Board(UCB) & Governor Panel

SL .NO	EQUIPMENT	TYPE
1	PRESSURE SWITCH	PL-550-7-G3B,RANGE-05-40 kg/sq cm
2	SQUARE ROOT DISTRIBUTOR	WSRDTP2-C7551,CLASS-0.25,INPUT:DC-4-20mA
3	RELAY	SB2N/SE
4	DIODE PACK	DP-10A
5	TIMER RELAY	MS4SA-CE,AC-15 2A 250V,DC-13 .5A 30V,FUJI
6	TIMER RELAY	H3CA-A, 0.1Sec-9990Hr,,AC-15 1A 250V,DC-13 .5A 30V
7	RELAY	H54PW-FL, DC-24V
8	RELAY	SZ-ALV,AC 11, lth=10A

9	RELAY CONTACTOR	SH-4/VG,AC 11,Ith=10A
10	RELAY	SH-4/G,AC 15, Ith=10A
11	RELAY CONTACTOR	SZ-A31,AC 15,Ith=10A
12	SPEED DETECTOR	RGFW1DFK-1115A,AC 80-242 V, DC 80-250V
13	PULSE CONVERTER	PGFS-24GS,SHOEI ELECTRIC Co. Ltd.
14	I/V converter	PIFS24A,SHOEI ELECTRIC Co. Ltd.
15	POWER AMPLIFIER	PAFS 24A,SHOI ELECTRIC Co. Ltd.
16	TRANSFORMER	STD -100A,Primary-230V, Secondary-200V
17	POWER SUPPLY	PSS-2413LCF2,INPUT-170-253V AC ,DC-160-286 V, OUTPUT-DC 24V, 13A
18	CIRCUIT PROTECTOR	CP32FM/10K,2 POLE, AC-240V,DC-120V
19	WATER LEVEL RECORDER	MODEL: 436102,SUPPLY:100-240 VAC,YOKOGAWA
20	SOLENOID VALVE	DIRECTIONAL VALVE,MODEL:DSG-03-2D2-D2220-4035,YUKEN
21	RECORDER	HYBRID RECORDER DR240,YOKOGAWA

Major Spares Required for UNIT#1 and UNIT#2 of KLHEP

No.	Particular	Drawing No	Qty reqd per machine	Part No
A. Necessary parts for Governor Overhauling				
1	Converter	H216384	1	50
2	Bearing for Guide Vane Link	H215791	1	25
3	Transmitter for Feedback to Guide Vane	H216384	1	GVT
4	Pressure Switch 63QA	H216384	1	63QA
5	Limit Switch for 74l	H216384	1	GVT, 74l
6	Limit Switch for 74m	H216384	1	GVT, 74m
7	Limit Switch for 74A	H216384	1	GVT, 74A
8	Limit Switch for 74L	H216384	1	65DL
9	Oil Pressure Gauge for Governor Oil	H216384	1	14
10	Water Pressure Gauge for Spiral Case	H216384	1	11
11	Water Pressure / Vacuum Gauge for Runner Crown and Top Cover	H216384	1	13
12	Water Pressure / Vacuum Gauge for Draft Tube	H216384	1	12
B. Necessary parts for Generator Overhauling				
1	Speed Switch	M905109173	2	38
2	Brush	M905109173	28	37
3	Brush for Voltage measuring	M905109173	2	46
4	Dial Thermometer for UGB	H216384	1	38DU
5	Dial Thermometer for Thrust Bearing	H216384	1	38DT
6	Dial Thermometer for LGB	H216384	1	38DL
7	Dial Thermometer for UGB Oil Sump Tank	H216384	1	38DQBU
8	Dial Thermometer for LGB Sump Tank	H216384	1	38DQBL
9	Dial Thermometer for Air Cooler of Inlet Air	H216384	1	49ADI
10	Dial Thermometer for Air Cooler of Outlet Air	H216384	1	49ADO
11	Resistance Temperature Detector for UGB	M55523491	1	6
12	Resistance Temperature Detector for Thrust Bearing	M55523491	1	7
13	Resistance Temperature Detector for LGB	M55523491	1	11
14	Resistance Temperature Detector for UGB Oil Sump Tank	M55523491	1	12
15	Resistance Temperature Detector for LGB Oil Sump Tank	M55523491	1	13
16	Resistance Temperature Detector for Air Cooler of Inlet Air	M55523491	1	8
17	Resistance Temperature Detector for Air Cooler of outlet Air	M55523491	1	9
18	Resistance Temperature Detector for Cooling Water Supply of Air Cooler	M55523491	1	10
20	Brake Shoe	M90510973	4	58
21	Limit Switch for Brake Jack	M90510973	4	58
22	Overhauling Parts for Air Cooler	M90510973	6	56
23	Overhauling Parts for Oil Cooler	M90510973	1	57
25	Wedge for Generator Stator	M90510973	180	21
26	Overhauling Parts for Generator	M90510973	1	GENERATOR
27	UGB Oil Level Gauge(New Model)		1	
28	LGB Oil Level Gauge(New Model)		1	
29	Slipping Carbon Brush		28	
32	Vent Air Valve(air Cooler Pipeline)		3	
C. Necessary parts for Turbine Overhauling				
12	Shear Pin	H215791	20	19

17	Carbon Ring	H215791	2	43
23	Dial Thermometer for TGB Oil	H216384	1	38DQBW
24	Temperature Relay for TGB	H216384	1	38FW
25	Resistance Temperature Detector for TGB	H216384	1	38RW
26	Resistance Temperature Detector for TGB Oil	H216384	1	38RWO
27	Pressure Gauge for Shaft Seal	H216384	1	63WS
33	Limit Switch for 33PR	H216384	1	33PR
D. Necessary parts for Inlet Valve and Bypass Overhauling				
7	Limit Switch for 21L and 21H	H216384	2	21L,21H
8	Limit Switch for 21BH and 21BL	H216384	2	21BL,21BH
E. Necessary parts for Water conducting System				
2	Water Strainer of Shaft Seal	H216327	2	408a.b.
4	Valve for Penstock Drain	H216327	1	Dev.W23
5	Valve for Spiral casing Drain	H216327	1	Dev.W24
6	Valve for Draft Tube drain	H216327	1	Dev.W25
7	Water Flow Relay	H216327	4	69
8	NRV for Cooling water Pump	H216327	3 Pcs (Common for both the units)	W23

**Annexure-17: SLDC Certificate for Plant
Performance in FY 2023-24 (April to September)**



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अमृत महोत्सव

TO WHOM IT MAY CONCERN

As per receipt of verified data from APGCL, this is to certify that the gross generation, export, import, auxiliary consumption and plant availability factor and PLF of LTPS, LRPP, NTPS, NRPP and KLHEP of APGCL's for the period from April'23 to Sep'23 is stated below:

APGCL GENERATION DATA FOR FY 2023-24 FOR LTPS, LRPP, NTPS, NRPP AND KLHEP

(Gross Generation, Export, Import, Auxiliary Consumption, Plant availability Factor and PLF)

STATION	CAPA CITY (MW)	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TOTAL
LTPS+LRPP Import & Export								
Energy Imported (MU)		2.213	2.754	5.412	6.914	7.542	5.588	30.424
Energy Exported (MU)		89.019	82.006	82.762	79.421	82.107	79.610	494.925
Actual Energy Sent Out (MU)		86.806	79.252	77.350	72.507	74.565	74.023	464.501
LTPS								
LTPS Actual Gross (MU)	97.2	44.181	41.274	40.563	34.065	43.473	36.905	240.461
LTPS Pro-rata Energy Sent out (MU)		41.297	37.546	37.775	31.079	40.344	34.368	222.408
Total Aux. Cons. (MU)		2.884	3.728	2.788	2.986	3.129	2.537	18.053
LTPS Avg. Declared Capacity (MW)		56.29	59.15	56.54	44.86	73.07	54.570	57.440
Plant Availability LTPS(%)		61.28%	64.40%	61.55%	48.84%	79.55%	59.41%	61.45%
PLF (%)		62.44%	54.94%	57.12%	45.48%	59.03%	51.97%	55.13%
LRPP								
LRPP Actual Gross (MU)	69.755	46.680	43.702	40.574	43.455	35.298	40.531	250.238
LRPP Pro-rata Energy Sent out (MU)		45.509	41.706	39.575	41.428	34.221	39.655	242.093
Total Aux. Cons. (MU)		1.171	1.996	0.999	2.027	1.077	0.876	8.145
LRPP Avg. Declared Capacity (MW)		60.13	64.05	62.10	62.41	57.34	61.93	61.33
Plant Availability LRPP(%)		89.33%	95.15%	92.25%	92.72%	85.18%	92.00%	91.10%
PLF (%)		93.90%	83.28%	81.66%	82.72%	68.33%	81.82%	81.89%
NTPS								
NTPS Actual Gross (MU)	31.47	11.637	12.084	16.613	12.934	12.098	12.124	77.489
NTPS Energy Imported (MU)		0.956	1.083	0.268	1.519	1.195	0.272	5.293
NTPS Energy Exported (MU)		11.645	12.073	15.797	13.298	12.124	11.264	76.201
NTPS Energy Sent out (MU)		10.689	10.990	15.529	11.778	10.929	10.992	70.907
Total Aux. Cons. (MU)		0.948	1.094	1.084	1.156	1.169	1.132	6.581
NTPS Avg. Declared Capacity (MW)		16.82	21.13	25.32	18.70	18.71	19.17	19.97
Plant Availability NTPS(%)		56.35%	53.93%	85.23%	76.00%	77.42%	58.42%	66.44%
PLF (%)		49.73%	37.70%	72.59%	64.34%	60.79%	46.53%	53.72%

Office of the Chief General Manager, SLDC, AEGCL, Kahilpara, Guwahati-781019

NRPP								
NRPP Actual Gross (MU)	98.4	60.366	47.405	45.255	58.675	65.784	26.757	304.242
NRPP Energy Imported (MU)		0.003	0.000	0.018	0.002	0.060	0.188	0.271
NRPP Energy Exported (MU)		57.709	45.967	43.823	56.118	62.517	25.697	291.831
NRPP Energy Sent out (MU)		57.706	45.967	43.805	56.116	62.457	25.509	291.560
Total Aux. Cons. (MU)		2.660	1.438	1.450	2.559	3.327	1.248	12.682
NRPP Avg. Declared Capacity (MW)		81.13	61.00	61.11	75.26	84.67	38.42	67.04
Plant Availability NRPP(%)		86.79%	65.25%	65.37%	80.51%	90.57%	41.10%	71.72%
PLF (%)		85.74%	66.09%	65.08%	80.69%	89.80%	37.90%	71.01%
KLHEP+MSHEP Import & Export								
Energy Imported (MU)		0.00016	0.003	0.023	0.315	0.057	0.048	0.446
Energy Exported (MU)		12.989	21.748	31.482	40.112	50.778	67.217	224.326
Actual Energy Sent Out (MU)		12.989	21.745	31.459	39.797	50.721	67.169	223.880
KLHEP								
KLHEP Actual Gross (MU)	100	10.893	19.953	30.300	36.644	47.655	63.451	208.896
KLHEP Energy Sent out (MU)		10.794	19.552	29.857	35.907	47.214	62.964	206.289
Total Aux. Cons. (MU)		0.099	0.401	0.443	0.737	0.441	0.487	2.607
KLHEP Avg. Declared Capacity (MW)		41.67	48.39	50.00	50.00	91.61	98.59	63.38
Plant Availability KLHEP(%)		41.88%	48.63%	50.25%	50.25%	92.1%	99.1%	63.69%
PLF (%)		15.07%	26.41%	41.68%	48.51%	63.78%	87.89%	47.21%
MSHEP								
MSHEP Actual Gross (MU)	13.5	2.215	2.238	1.627	3.969	3.540	4.238	17.827
MSHEP Energy Sent out (MU)		2.195	2.193	1.603	3.889	3.507	4.205	17.593
Total Aux. Cons. (MU)		0.020	0.045	0.024	0.080	0.033	0.033	0.234

Date: 06.11.2023

[Signature]
Chief General Manager, SLDC
AEGCL, Kahilipara, Guwahati-19

Annexure-18: PFC loan details and applicable rates for FY 2023-24 (6 months)

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 11/04/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/04/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/04/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,37,56,366
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,37,56,366

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:

1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:

1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)

2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।

2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.

3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।

3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.

4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।

4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.

5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।

5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.

6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।

6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.

7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।

7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	60	3,03,25,983	2,76,880	0	0		0	0	0	0		3,06,02,863
62404001	57	30,47,387	1,06,116	0	0		0	0	0	0		31,53,503
योग /TOTAL :		3,33,73,370	3,82,996	0	0		0	0	0	0		3,37,56,366

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 05/04/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/04/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/04/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	11,94,06,666
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	11,94,06,666

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456279, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456204, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	19	8,75,51,392	3,18,55,274	0	0	0	0	0	0	0	0	11,94,06,666
योग /TOTAL :		8,75,51,392	3,18,55,274	0	0	0	0	0	0	0	0	11,94,06,666

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 12/05/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/05/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/05/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	73,262
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	73,262

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृप्या बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फ़ैक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401001	0	0	0	0	0	0	0	0	0	0	0	0
62404001	0	0	73,262	0	0	0	0	0	0	0	0	73,262
योग /TOTAL :		0	73,262	0	0	0	0	0	0	0	0	73,262

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 08/05/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/05/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/05/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,00,93,691
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,00,93,691

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	3,00,93,691	0	0	0	0	0	0	0	0	3,00,93,691
योग /TOTAL :		0	3,00,93,691	0	0	0	0	0	0	0	0	3,00,93,691

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 12/06/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/06/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/06/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	75,705
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	75,705

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	0	0	75,705	0	0	0	0	0	0	0	0	75,705
योग /TOTAL :		0	75,705	0	0	0	0	0	0	0	0	75,705

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 07/06/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 12/06/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 12/06/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,31,03,060
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,31,03,060

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृप्या बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	3,31,03,060	0	0	0	0	0	0	0	0	3,31,03,060
योग /TOTAL :		0	3,31,03,060	0	0	0	0	0	0	0	0	3,31,03,060

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 12/07/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/07/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/07/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	31,20,650
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	31,20,650

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	58	30,47,387	73,263	0	0	0	0	0	0	0	0	31,20,650
योग /TOTAL :		30,47,387	73,263	0	0	0	0	0	0	0	0	31,20,650

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 06/07/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/07/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/07/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	11,56,38,841
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	11,56,38,841

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:

1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:

1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)

2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।

2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.

3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।

3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.

4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।

4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.

5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।

5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.

6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।

6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.

7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।

7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	20	8,75,51,394	2,80,87,447	0	0	0	0	0	0	0	0	11,56,38,841
योग /TOTAL :		8,75,51,394	2,80,87,447	0	0	0	0	0	0	0	0	11,56,38,841

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 14/08/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 16/08/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 16/08/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	52,098
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	52,098

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	0	0	52,098	0	0	0	0	0	0	0	0	52,098
योग /TOTAL :		0	52,098	0	0	0	0	0	0	0	0	52,098

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 07/08/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/08/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/08/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,03,38,356
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,03,38,356

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृप्या बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	3,03,38,356	0	0	0	0	0	0	0	0	3,03,38,356
योग /TOTAL :		0	3,03,38,356	0	0	0	0	0	0	0	0	3,03,38,356

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 13/09/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/09/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/09/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	48,842
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	48,842

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	0	0	48,842	0	0	0	0	0	0	0	0	48,842
योग /TOTAL :		0	48,842	0	0	0	0	0	0	0	0	48,842

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 06/09/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 11/09/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 11/09/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	3,13,17,013
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	3,13,17,013

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	3,13,17,013	0	0	0	0	0	0	0	0	3,13,17,013
योग /TOTAL :		0	3,13,17,013	0	0	0	0	0	0	0	0	3,13,17,013

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 11/10/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 16/10/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 16/10/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	30,97,857
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	30,97,857

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:

1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:

1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)

2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।

2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.

3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।

3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.

4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।

4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.

5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।

5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.

6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।

6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.

7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।

7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	59	30,47,387	50,470	0	0	0	0	0	0	0	0	30,97,857
योग /TOTAL :		30,47,387	50,470	0	0	0	0	0	0	0	0	30,97,857

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 06/10/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/10/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/10/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	11,59,32,435
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	11,59,32,435

* रुपये 50 करोड़ और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | नाम | पदनाम | फोन/फैक्स/ई मेल |
|--------------------|---------------------------------------|---|
| i) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	21	8,75,51,392	2,83,81,043	0	0	0	0	0	0	0	0	11,59,32,435
योग /TOTAL :		8,75,51,392	2,83,81,043	0	0	0	0	0	0	0	0	11,59,32,435

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखंबा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 09/11/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 15/11/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 15/11/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	24,421
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	24,421

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय , Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
 1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
 1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
 2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
- 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
 3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
- 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
 4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
- 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
 5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
- 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
 6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
- 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
 7.Correspondences on the above, and any clarification that may be required may be addressed to :

नाम	पदनाम	फोन/फैक्स/ई मेल
i) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
ii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com
iii) D.V.SUBBA RAO	CHIEF GENERAL MANAGER (LOAN RECOVERY)	TEL. 011-23456203, subba_rao@pfcindia.com

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62404001	0	0	24,421	0	0	0	0	0	0	0	0	24,421
योग /TOTAL :		0	24,421	0	0	0	0	0	0	0	0	24,421

** This is not an Invoice

Identified Loan

पावर फाइनेंस कॉर्पोरेशन लिमिटेड
POWER FINANCE CORPORATION LIMITED
(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)
CIN No.: L65910DL1986GOI024862
पंजीकृत कार्यालय:- उर्जा निधि, 1 बाराखम्बा लेन, नई दिल्ली
Regd. Office: Urja Nidhi, 1, Barakhamba Lane, New Delhi-110001
फोन: /Phone: 23456000, फैक्स: /FAX: (11) 23456292
E-Mail: loanrecovery@pfcindia.com Website: www.pfcindia.com

Rep.Name: dem_not_hindi_pnl_em_gst
पृष्ठ सं / PageNo : 1 / 4

GSTIN 07AAACP1570H1ZM

संदर्भ सं./ Ref. No 04:06: (624):2023-2024

दिनांक / Dated : 08/11/2023

MR. C.D.GOGOI

CHIEF GENERAL MANAGER (F&A)

ASSAM POWER GENERATION CORPORATION LTD.

ASSAM POWER GENERATION CORPORATION LIMITED,
3RD FLOOR, BIJULEE BHAVAN,
PALTAN BAZAR, GUWAHATI-781 001
ASSAM

प्रिय महोदय/महोदया / Dear Sir/Madam,

निम्नलिखित ऋणों के लिए दिनांक 10/11/2023 को मूलधन, ब्याज, सब्सिडी में कटौती, प्रतिबद्धता प्रभार, इत्यादि की किश्तों का भुगतान देय है:-

The instalments of Principal, Interest, Reduction in Subsidy, Commitment Charges ect. are due for payment on or before 10/11/2023 as per details given below :

The Summary of Dues is as under:

Due for the current month	2,92,89,900
(+)Overdue of Previous demands - if any	0
(+)Interest & Penal Interest on overdue	0
Total Amount to be paid	2,92,89,900

* रुपये 50 करोड और उससे अधिक के किसी भी भुगतान के लिए पीएफसी एलईआई 3358003Q6D9LIJJZ1614 इंगित करें।

Quote PFC LEI 3358003Q6D9LIJJZ1614 for any payment of Rs.50 cr and above.

** पीएफसी को भुगतान करते समय कृपया बैंक कथन में "APGCL - 624" अंकित करें।

Kindly Indicate "APGCL - 624" in Bank Narration while making all the payments to PFC.

क) कृपया नोट करें कि देय राशि का भुगतान न करने पर, किसी ऋण रवाते को एन पी ए के रूप में वर्गीकृत करने की अवधि अब 90 दिन कर दी गई है।

a) Kindly note that, the period for classifying a loan account as NPA/Stage 3 on account of non-payment of dues has been reduced to 90 days.

ख) उपर्युक्त पूरी राशि जमा करानी होगी तथा देर से किए गए अथवा कम किए गए भुगतान पर यथा लागू दंडस्वरूप ब्याज तथा ब्याज पर ब्याज प्रभारित किया जाएगा। अपेक्षित स्पष्टीकरण, यदि कोई है, बाद में प्राप्त किया जा सकता है। भुगतान संबंधी अनुदेश तथा गणना इसके साथ संलग्न हैं।

b) The above amount is to be remitted in full and penal interest/Int on Int. as applicable shall be charged for delayed and short payments. Clarifications required, if any, may be sought subsequently. Payment instructions and calculations are enclosed herewith.

ग) यह मांग पत्र आपको शिष्टाचारवश भेजा जा रहा है। मांग सूचना की प्राप्ति न होना/ अन्य कोई गलती विलंब से भुगतान करने/भुगतान न करने का अधिकार नहीं देती तथा ऋणकर्ता को उनके

c) This Demand Notice is being sent as a matter of courtesy. Non-Receipt of Demand Notice/any mistake does not give any right for late payment/non payment and will not absolve from the obligations of Borrower.

घ) इसके अतिरिक्त, यह भी निवेदन है कि, ऋण-कर्ता 11.30 बजे से पूर्व पीएफसी खाते में क्रेडिट करना सुनिश्चित करें और जिस भी विधि से भुगतान राशि जमा कराई हो, उसकी सूचना फैंक्स/ई मेल के द्वारा भी दे दें।

d) Further it is requested that, **THE BORROWER MAY ENSURE CREDIT TO PFC's A/C BEFORE 11.30 AM.** Please also inform the same by Fax /email regarding remittances.

भूल-चूक लेनी देनी।

Errors and Omissions are excepted.

धन्यवाद | Thanking you,

भवदीय, Yours faithfully,

पावर फाइनेंस कॉर्पोरेशन लिमिटेड के लिए / FOR POWER FINANCE CORPORATION LIMITED

D.V.SUBBA RAO

CHIEF GENERAL MANAGER (LOAN RECOVERY)

LOAN RECOVERY UNIT

Copy To :

MR NAWJIT BARMAN

ASSAM POWER GENERATION CORPORATION LTD.

FINANCE OFFICER

ASSAM POWER GENERATION CORPORATION LIMITED,

3RD FLOOR, BIJULEE BHAVAN,

PALTAN BAZAR, GUWAHATI-781 001

ASSAM

भुगतान अनुदेश / PAYMENT INSTRUCTIONS

1. ऋणकर्ताओं द्वारा देय तिथि पर सभी प्रकार का संबंधित भुगतान निम्नानुसार निगम के खाते में किया जाए:
1.All monies payable by the borrower to the Corporation shall be paid on due dates of the relevant payments to the Corporation's Accounts as given below:
1 Account No. 00030350000790 of HDFC Bank K G Marg, New Delhi (IFSC code HDFC0000003)
 2. पीएफसी ऋणकर्ताओं द्वारा देय राशि का भुगतान ई-भुगतान/आरटीजीएस प्रणाली द्वारा किए जाने को प्राथमिकता देता है तथा प्रोत्साहित करता है।
2.PFC would prefer and encourage the Borrowers in remitting the dues through e-Payment/ RTGS System,For which you may like to take up with your Bankers.
 - 3 ऋणकर्ता पूर्णतः सुनिश्चित करें कि देय तिथि पर निगम के खाते में भुगतान कर दिया गया है।
3.The Borrower will fully ensure that the monies are duly credited on the due dates to the Corporations's above said Accounts.
 - 4 ऋणदाता के पक्ष में देय संबंधित भुगतान तब अदा माना जाएगा यदि वह राशि देय तिथि को निगम के खाते में जमा हो जाएगी।
4.The amount due from the borrower on the due dates of the relevant payments will be construed to have been paid only if such amount is duly credited to the Corporation's said Accounts on the due date.
 - 5 देय राशि का भुगतान देय तिथि पर न होने की स्थिति में, इसे ऋण की शर्तों में चूक माना जायेगा तथा ऋणकर्ता चूक की तारीख तक ऋण की शर्तों के अनुसार दंडस्वरूप ब्याज का भुगतान करने के लिये उत्तरदायी होगा।
5.In the event the amount due is not credited to the said Accounts on the due dates of the relevant payments, such non-payment will constitute a default within the terms of the loan and the borrower will be liable to pay penal interest from the date of default till the date on which the amount is duly credited to the said accounts calculated at the rate and in the manner as specified in terms of the sanction of loan.
 - 6 कृपया नोट करें कि पीएफसी नई दिल्ली का GSTIN 07AAACP1570H1ZM है।
6.GSTIN of PFC New Delhi is 07AAACP1570H1ZM which may please be updated in Your records.
 - 7 उक्त पर पत्राचार तथा अन्य कोई स्पष्टीकरण निम्नलिखित अधिकारियों से प्राप्त किया जा सकता है।
7.Correspondences on the above, and any clarification that may be required may be addressed to :
- | | नाम | पदनाम | फोन/फैक्स/ई मेल |
|------|---------------|---------------------------------------|---|
| i) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| ii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |
| iii) | D.V.SUBBA RAO | CHIEF GENERAL MANAGER (LOAN RECOVERY) | TEL. 011-23456203, subba_rao@pfcindia.com |

ऋण सं.	किश्त सं.	मूलधन	ब्याज	सब्सिडी में कटौती	प्रतिबद्धता प्रभार	Moratorium	Addl. Int.	जीएसटी कर				योग
LOAN NO	INST NO	PRINCIPAL	INTEREST	RED. SUBSIDY	COMM. CHARGE	Int.	due to Due_dt shifting	CGST	SGST	IGST		TOTAL (')
62401003	0	0	2,92,89,900	0	0	0	0	0	0	0	0	2,92,89,900
योग /TOTAL :		0	2,92,89,900	0	0	0	0	0	0	0	0	2,92,89,900

** This is not an Invoice

**Annexure-19: Document with Interest rates
applicabe on Govt. of Assam loans**

(17)

**GOVERNMENT OF ASSAM
FINANCE (BUDGET) DEPARTMENT
DISPUR**

NO.BW.22/89/175

Dated Dispur the 27th March, 2006.

OFFICE MEMORANDUM

Sub : Loans and advance by State Government- interest rates and other terms and conditions.

The undersigned is directed to invite a reference this Department's O.M. No.BW.22/89/137 dtd. 22.05. 2003 and to say that the Governor of Assam is pleased to order that the following rates of interest shall be charged on various kind of loans and advances sanctioned by this State Government with effect from 1st April, 2004 to 31st March, 2005 and from 1st April, 2005 to 31st March, 2006 and until further orders. The rates of interest and other terms and conditions applicable are indicated below:-

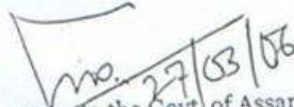
<u>Nature of loan</u>		<u>Rates of interest</u>	
		2004-05 w.e.f. (1.4.04 to 31.3.05)	2005-06 w.e.f. (1.4.05 to 31.3.06)
1.	Loan under Agricultural Loan Act Land Improvement Act and other types of loans to Agriculture and loan under development of live stock Industries	10%	10%
2.	Loans to Local Bodies	11.5%	11.5%
3.	Loans to Co-Operative Societies	11.5%	11.5%
4.	Loans to Land Mortgage Bank and other Cooperative Banks	11.5%	11.5%
5.	Education Loan	11.5%	11.5%
6.	Loans to Cottage Industries	11.5%	11.5%
7.	Loans to Assam State Electricity Board	10%	10%
8.	Loans to Housing Board		
	(a) Loans for relenting by Board to low income group	11.5%	11.5%
	(b) Other Housing Scheme	11.5%	11.5%
9.	Loans to Financial Institution for Construction of Buildings	11.5%	11.5%
10.	Loans to Financial Institution in Public Sector	11.5%	11.5%
11.	Industrial loan to Medium and large scale Industries, Loans to Industrial & Commercial undertakings in Public Sector having equity capital not exceeding Rs.1.00 crore	12.5%	11.5%
12.	Industrial and Commercial undertaking in Public Sector having equity capital exceeding Rs.1.00 crore		
	(a) For loans other than working capital in cash deficit	12.5%	11.5%
	(b) For working capital loan loans for meeting cash deficit	15.5%	14.5%
13.	Industrial & Commercial undertaking in Public Sector	15.5%	14.5%

Contd/-2

OK

While issuing loans to different Corporation/ Bodies etc. following terms and conditions should be strictly adhered to:-

1. In case of loans given by the Government of India, Financial Institutions i.e. Reserve Bank of India, Nationalised Bank, Life Insurance Corporation of India, National Co-operative Development Corporation (NCDC) National Bank of Agricultural and Rural Development etc. to the State government for specific purpose or scheme for relenting by the State Government for same purpose the rate of interest on such loan shall be charged 1/2% (half percent) above the rate charged by the Government of India on the sponsoring financial institutions lending the loan to the State Government.
2. The interest rate prescribed above assumes timely repayment and interest payments and hence no further rebate in rates is to be allowed for timely repayments.
3. No loan should be granted for a period of exceeding 10 years. If any longer period for repayment is sought, prior concurrence of Finance Department should be obtained.
4. The recovery should ordinarily be affected in annual equal instalment of principal and interest, No moratorium should be allowed in respect of interest payment on loan.
5. The loan sanctions/ agreements should invariably include a penalty clause providing for levy a higher rate of interest in the event of default the repayment of installments of principal or interest. The higher penal rate of interest should not be less than 2.75% (two and three forth) above the normal rate of interest at which the loan is sanctioned.
6. In the event of a default, the recovery of interest at penal rate may not be waived unless there are special reasons justifying a waiver.
7. Whenever a fresh loan is to be sanctioned/ granted to a borrower who has earlier defaulted, the loan sanctioning authority must consider the question of recovery of defaulted dues.
8. The repayment schedule indicating all terms and conditions should be drawn up to by the concerned controlling branches of Finance at the time of concurring the proposal.

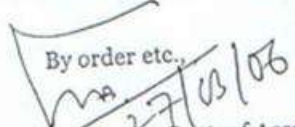

Deputy Secretary to the Govt. of Assam,
Finance (Budget) Department,

Dated Dispur the 27th March, 2006.

Memo NO.BW.22/89/175-A

Copy forwarded for information and necessary action to :-

1. The Accountant General, Assam (E&E), Guwahati-28.
2. The Accountant General, Assam (Audit), Guwahati-28.
3. All Commissioners of Divisions.
4. All Commissioner & Secretary to the Govt. of Assam.
5. All Administrative Department.
6. All Head of Department.
7. All Deputy Commissioners/ Sub-Divisional Officers.
8. All Finance Advisers/ Treasury Officers/ Sub-Treasury Officers.
9. All Branches of Finance Department.


By order etc.,
Deputy Secretary to the Govt. of Assam,
Finance (Budget) Department.

Annexure-20: DPR with cost benefit analysis and details with respect to HGPI for GT Unit of NRPP



ASSAM POWER GENERATION CORPORATION LIMITED
OFFICE OF THE CHIEF GENERAL MANAGER (GENERATION), APGCL
BIJULEE BHAWAN (3RD FLOOR), PALTAN BAZAR, GUWAHATI-781001

DETAILED PROJECT REPORT

NAME OF WORK:

Hot Gas Path Inspection (HGPI) for Gas Turbine Unit of 1 X 98.4 MW CC
Namrup Replacement Power Project (NRPP), APGCL

TOTAL ESTIMATED AMOUNT: Rs. 157.38 CRORE

Proposed under Special R&M for FY 2024-25 & FY 2025-26

Details of the proposal:

The Namrup Replacement Power Project (NRPP) consists of one GE make Frame 6FA Gas Turbine Unit of capacity 62.25 MW and one BHEL make Steam Turbine Unit of capacity 36.15 MW. The commercial operation of the project started on 16.07.2021.

To ensure availability and reliability of the plant, it is essential that the required maintenance is carried out as per the OEM recommended schedule. To execute the maintenance plan in a timely manner, it is very important that the planning for spares and services is done meticulously and well in advance.

As per the OEM Guidelines attached in **Annexure-I**, the GT Unit of NRPP requires a mandatory Hot Gas Path Inspection (HGPI) at the completion of 24,000 Running Hours (RH). Now, the total running hours of the GTU of NRPP as on 03.11.2023 is 19649 HRS and it is expected to reach 24,000 hrs in June'24.

Brief Description of the proposal:

As per the OEM Guidelines, at the completion of 24,000 Running Hours, the Hot Gas Path Inspection (HGPI) of GT Unit was scheduled to be carried out tentatively in the month of June'24 which would be in the FY 2024-25. APGCL submitted the proposal of HGPI of the GT Unit of NRPP to the Hon'ble Commission in the Tariff Petition for FY 2023-24 and in the review Petition of the Tariff Order for FY 2023-24. Now, as per the directive of the Hon'ble Commission in the Tariff Order of FY 2023-24 and the Review Order dated 25.07.2023, APGCL is submitting this DPR to the Hon'ble Commission for approval of the work of HGPI of the GT Unit of NRPP. In this revised proposal for the work, the first part is proposed to be carried out in FY 2024-25 by procuring spares partially and the second part is proposed to be carried out in FY 2025-26 by procuring the balance spares and executing the work.

It has been proposed to use Advanced Gas Path (AGP) components for the HGPI which will lead to more availability and reduced maintenance cost by eliminating the Combustion Inspection at every 12,000 hours thereby extending the maintenance interval.

The HGPI work of the GT Unit of NRPP is a very important work for ensuring the healthiness of the Turbine and it is mandatory as per the OEM Guidelines. Delaying the work may result in the deterioration of the overall performance and may also lead to catastrophic consequences. As NRPP is a newly commissioned plant, timely completion of the maintenance works of its units are essential for reliable operation for the rest of the useful life of the project so that NRPP is able to generate uninterrupted power in service to the people of Assam.

The first HGPI will cost around Rs. 126.00 Crore (approx.) (Excluding Taxes, Duties, Transportation, and Insurance) as per offer received from the OEM BGGTS (BHEL-GE Gas Turbine Services Pvt Ltd) including spares and service. The offer letter has been attached in **Annexure-II**. The subsequent HGPI after every 24,000 Running Hours will cost less due to the use of refurbished components.

The total financial involvement is Rs. 157.38 Crores including freight and GST Charge and it is proposed in two FYs as given in the Table below.

FY	2024-25	2025-26	Total
Amount (₹ Cr)	79.19	79.19	157.38
Work	Procurement of spares	Procurement of spares and execution	

PROVISIONAL ESTIMATE:

APGCL has collected an offer Ref. No. Q22-0203 Rev03 dtd. 03-05-2023 from the OEM BGGTS (BHEL-GE Gas Turbine Services Pvt. Ltd.) for **Procurement of Capitals for Advance Gas Path, Combustion System Repair, AGP Site services and required hardware for Frame-6F.03 of Gas Turbine of NRPP**. The offer letter has been attached in **Annexure II**.

The Total Financial Involvement to be incurred by APGCL as per M/S BGGTS offer is as follows:

TABLE A:- (Complete Spares) {Charges and Taxes to be paid at actual}

TABLE B:- (Site Services) (Taxes to be paid at actual)

TOTAL FINANCIAL INVOLVEMENT

Sl.No.	Description	Amount (Rs.)
1	Complete Spares (A)	155,27,58,566.13
2	Site Services (B)	2,10,04,000.00
Total (A+B)		157,37,62,566.00
(Rupees One Hundred and Fifty Seven Crores Thirty Seven Lakhs Sixty Two Thousand Five Hundred Sixty Six Only)		

Execution of work: Through the OEM M/S BHEL-GE Gas Turbine Services Private Limited, Hyderabad-500081.

JUSTIFICATION:

As the HGPI is a routine O&M work to be performed after the completion of a certain running hours of the GT as per OEM guidelines, this work is of preventive maintenance nature. As such, not performing the work in time may increase the probability of forced shutdown of the turbine.

As has been already mentioned earlier, completion of 24000 running hours takes place in June 2024 i.e. FY 2024-25 at which time the HGPI works ideally needs to be carried out as per the OEM Guidelines. As per current situation, it is proposed to execute the HGPI works in FY 2025-26. Thus, any delay further to this target timeline significantly increases the risk of the aforementioned forced shutdown.

Further, if the GT of NRPP goes under forced shutdown due to not carrying out the HGPI, it will take around 15 months to restore the unit due to lead time in supply of spares.

In view of the above, carrying out the HGPI work of the GT Unit of NRPP as per the OEM guidelines is justified.

COST BENEFIT ANALYSIS:

1. Estimated Loss if NRPP is under forced shutdown due to not carrying out the HGPI and Payback period calculation for carrying out the work:

Particulars	Value	Unit
Approved ROE for FY 2023-224	33.90	INR Crores
Net Energy Approved for FY 2023-24	696.05	MU
Profit lost	0.49	INR/kWh
Tariff for FY 2023-24	3.54	INR/kWh
Capacity impacted	98.4	MW
Daily generation loss	20,07,360	kWh
Loss in profit due to outage per day	0.10	INR Crores
Loss in revenue due to outage per day	0.71	INR Crores
Time required to receive HGPI spares at site from Order date	450	days
Loss in profit in 15 months/450 days	43.99	INR Crores
Loss in revenue in 15 months/450 days	319.77	INR Crores
Total Investment	157.38	INR Crores
Payback period with profit	1,609.78	days
	4.41	years
Payback period with revenue	221.47	days
	0.49	years

2. Savings due to elimination of CI at 12000 RH for carrying out HGPI:

Tariff : as per Tariff Order for FY 2023-24	3.54	INR/kWh
Capacity impacted	98.4	MW
Combustion Inspection (CI) Elimination Benefit		
Combustion Inspection Time	12.00	days
Generation loss due to outage	2,83,39,200.00	kWh
Generation loss due to outage	10,03,20,768.00	INR
Savings due to elimination of outage	10.03	INR Crores
Total Investment	157.38	INR Crores
Payback period	15.69	years



Table 1-1

RECOMMENDED INSPECTION INTERVALS

TYPE OF INSPECTION	COMBUSTION SYSTEM	MS 6 FA+e (EQUIVALENT HOURS / EQUIVALENT STARTS)*
Combustion	Non – DLN	8,000 / 450
	DLN	12,000 / 450
Hot Gas Path		24,000 / 900
Major		48,000 / 2400

***Inspection has to be carried out based on either accumulated Equivalent Hours or accumulated Equivalent Starts (whichever occurs first)**

NOTES

1. The types of Inspections listed above are recommended Inspections involving disassembly of respective Gas Turbine assemblies. They shall be supplemented by general borescope inspections of those parts which are not disassembled during the current inspection.
2. During these Inspections, disassembled parts are checked for damage which may necessitate refurbishment / repair or replacement. The recommendations with respect to the acceptance limits are listed in respective sections of the O&M Manual.
3. While the predicted replacement intervals are generally longer than the first inspection intervals of the concerned parts, it is not unusual to find the need to repair / refurbish or replace some parts during the inspection, as the life of the component is strongly influenced by the type of operations and the operating environment which the components have been subjected to. To keep the down time of the inspection low, it is advised to keep the recommended spares for each inspection ready before the inspection is carried out. The removed parts can be repaired / refurbished; if found reusable; and used during the next inspection. The recommended spares for each inspection are already listed in the "Standard Practices" section of this volume.
4. The findings of these inspections are strongly influenced by the conditions of operation of a specific installation. The recommended inspection intervals therefore can be reviewed by O&M groups to establish specific intervals applicable to each O&M environment based on the past record of inspections.
5. Equivalent Hours or Equivalent Starts are based on actual fired hours or starts respectively, corrected for influences of type of fuel, diluents used, trips, peak load operation etc.

Satish Reddy
06.04.22
Asstt. General Manager (Mech)
NRPP, NTPS, APGCL, Namrup

V. Lakshmi
06.04.2022
Deputy General Manager
Namrup Replacement Power P
APGCL, NTPS, Namrup

Bharat Heavy Electricals Ltd., Hyderabad



BHEL-GE Gas Turbine Services Pvt. Ltd.

Quotation: Q22-203-Rev03

Date: 3rd May 2023

To

**Assistant General Manager (Mechanical),
Assam Power Generation Corporation Limited
(APGCL) , Namrup, District: Dibrugarh,
Pin - 786622, Assam.**

A1,A2 & A3, Quadrant 1, 7th Floor,
Cyber Towers, Madhapur,
HyderabadTelangana,500081 India
Telephone: 91-40-40640111Fax: 91-
40-27816962

Subject: Offer for Supply of AGP Capitals, Combustion System Repair and HGPI Services for Frame-6F.03 Gas Turbine at Namrup.

Customer Ref: APGCL Email dated 17 June 2022 and subsequent discussions.

SCOPE OF WORK

BHEL-GE Gas Turbine Services Pvt. Ltd., a joint venture between GE and BHEL, are pleased to submit the quotation for the supply of AGP Capitals, Combustion System Repair, HGPI Services and required hardware for Frame-6F.03 against the requirement identified in your email/ enquiry. HSN code for Gas Turbine Spare parts shall be 84119900, SAC code for repair services 9987 and SAC code 9983 for site services , however the actual HSN code for the offered item shall be provided at the time of dispatch and GST shall be charged extra at actuals as per Govt. Rules.

Commercial Terms and Condition

PRICE:

The total price for the supply of parts of GT listed in Appendix 'A' of this proposal. The price excludes all taxes and Duties, Freight, and Insurance and which shall extra to Buyer account.

SHIPMENT, FRIEGHT & INSURANCE:

BGGTS have quoted Ex Works/ Ex Suppliers works prices, which do not include the Taxes and duties, sales tax, insurance, and freight.

TAXES:

All taxes and Duties are Extra at Actuals as per GST guide lines.

BGGTS has not included in its price the Any taxes and duties, which are extra payable by Buyer, as applicab le on the date of dispatch as per GST rules.

Taxes & Duties

Our Price does not include the IGST or any other taxes including the Octroi, if applicable. These shall be borne directly by purchaser. "Any increase or decrease in Indirect Taxes applicable on the Contract Price or any element therein due to change in law shall be to the account of the Customer. It is hereby clarified that in case of introduction of a Goods and Services Tax by any name or nomenclature, in addition to the above-mentioned adjustment in this clause / contract price on the output side, any increase or decrease of Indirect Taxes on the Suppliers / Service Providers procurement will also be considered for this clause and shall be to the account of the Customer." "Indirect Taxes" means CGST, SGST, Works Contract Tax, Goods and Service Tax (GST), Octroi, Entry Tax any other tax other than taxes applicable to the contract." "Change in Law" means enactment or introduction of any new law or levy (including but not limited to Goods and Service Tax (GST)) that is applicable to the country and / or State where the Project is to be developed or where to or from the Supply of the Equipment to be made, repairs or services are to be rendered."

"As per the Finance Act, 2020 a new sub-section (1H) to Section 206C of the Income-tax Act, 1961 is inserted, mandating every seller whose gross receipts from sales exceeded Rs. 10 Crore during the



BHEL-GE Gas Turbine Services Pvt. Ltd.

immediately preceding financial year, to collect tax at source ('TCS') at the rate of 0.1% on the value of sale consideration or the aggregate of sale consideration to a buyer exceeding Rs. 50 Lakh in current year. Due to COVID the applicability of the said provision is extended to 1st October 2020 with a reduction of 25% in the applicable TCS rates i.e. 0.075% till 31st March 2021. From 1st April 2021 the rate would be 0.1% on the sales consideration.

If You fall in above criteria, we will have to collect TCS @ 0.075% along with our invoice and deposit with the department. Also, we will provide you with certificate of deposit of tax for you records.

In view of above, all our customers are requested to make note of this change with effect from 1st Oct 2020."

ORDER CANCELLATION:

Once the purchaser places the order, it cannot be cancelled unless seller accepts the cancellation in writing.

OTHER TERMS & CONDITIONS:

All other terms & conditions shall be as per BGGTS Standard Terms and conditions only.

Limitation of Liability:

BGGTS does not accept any liability for any loss, damage to building / plant / equipment personnel due to any third part / personnel or due to any cause whatsoever and all claims against BGGTS or our personnel are excluded. We recommend that a suitable insurance cover be taken by Buyer to shield the same. Notwithstanding any other provisions of this contract.

BGGTS shall not be liable for loss of profit or revenues, loss of use of equipment or systems, interruption of business, cost of replacement Power, cost of capital, downtime costs, increased operating costs, any special, consequential, incidental, indirect, or punitive damages or claims of Buyer's customers for any of the foregoing types of damages. whether caused by our breach of contract, tort or otherwise howsoever arising. Our overall liability is limited to this contract value.

All BGGTS liability shall end upon expiration of the applicable warranty period, provided that Buyer may continue to enforce a claim for which it has given notice prior to that date by commencing an action or arbitration, as applicable under this Contract, before expiration of any statute of limitations or other legal time limitation but in no event, later than one year after expiration Of such warranty period. BGGTS shall not be liable for advice or assistance that is not required for the work scope under this Contract.

Validity: Offer is valid for 30 days from the date of our offer.

Terms of Payment

100% of payment will be paid by buyer against Letter of Credit. Buyer shall open an irrevocable and confirmed letter of credit in our favour through nationalized bank acceptable to the BGGTS immediately on order acceptance at the following address:

BHEL-GE Gas Turbine Services Pvt. Ltd.

Cyber Towers, Quadrant 1, 7th Floor, Hi Tech City,

Madhapur, Hyderabad-500081, India.

The letter of credit shall allow partial shipments and remain valid for a period of thirty (60) days after the scheduled date of dispatch of the last item. All bank charges for opening, extending, or amending of the documentary credit shall be paid by Buyer.

BGGTS will provide banker details along with Order Acceptance to enable APGCL to open above said Letter of Credit (LC).



BHEL-GE Gas Turbine Services Pvt. Ltd.

DELIVERY

Our Standard Delivery time for Parts mentioned in the Price Schedule is 60 Business weeks and shall be counted from the date of receipt of technically and commercially clear order and amendments, if any, subject to finalization of order before expiry of validity period.

WARRANTY CLAUSE

Parts quoted by us are warranted for a period of 18 months from the date of dispatch or 12 months from the date of installation whichever expires earlier. It is strongly recommended that, after supply of goods, subject to an order, purchaser to conduct material inspection at site within 15 days from the date of receipt of material to avail the warranty benefit, when parts are not used immediately in the equipment.

NON-ACCEPTANCE OF LIQUIDATED DAMAGES / PRICE REDUCTION SCHEDULE CLAUSE:

As a Company Policy, BGGTS shall not accept any liquidated damages clause for delays in delivery. However, BGGTS shall endeavor to meet delivery mentioned in quotation and even improves it wherever possible.

NON-ACCEPTANCE OF PBG AND SD CLAUSE:

As a Company Policy, BGGTS shall not accept any Performance Bank Guarantee (PBG) and Security Deposit (SD) Clause. However, BGGTS shall endeavor to meet delivery mentioned in quotation and even improves it wherever possible.

"Both Seller and Buyer acknowledge that the COVID-19 epidemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid price, , Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost."

Thanking you

For **BHEL-GE Gas Turbine Services Pvt. Ltd.**


Ravindra. Chinta
Dy. Manager-(Commercial)



BHEL-GE Gas Turbine Services Pvt. Ltd.

APPENDIX-A

Customer Ref# E-mail and various discussions
BGGTS Ref# Q22—203 Rev03

Date: 3rd May 2023
Date: 3rd May 2023

SI No	GE DRG. No	BHEL DRG. No	ML	MLPT	PART DESCRIPTION	QTY	Unit Price (AGP)	Total Price (AGP)
			NO	NO		RECOM.	Rs.	Rs.
HGPI Parts (Supply)								
1	100T3605G001		1302	1331	BUCKET KIT, STG 1, 6FA	1	206,134,410.00	206,134,410.00
2	100T3606G001		1302	1332	BUCKET KIT, TURB STAGE 2	1	167,759,374.00	167,759,374.00
3	100T3607G001		1302	1333	BUCKET KIT, TURB STAGE 3	1	159,904,888.00	159,904,888.00
4	143E5711G002	GT9751848024	1401	0000	NOZZLE KIT STAGE #1 6FA+E	1	146,442,971.00	146,442,971.00
5		GT9751848032	1402	0000	NOZZLE KIT STAGE #2 6FA+E	1	171,632,499.00	171,632,499.00
6		GT9751848040	1409	0000	NOZZLE KIT STAGE #3 6FA+E	1	151,455,308.00	151,455,308.00
7	119E4234G001	03511271012-01	705	4	STG 1 SHROUD ASSM.6FA+E	1	46,091,947.00	46,091,947.00
8	243C1916G004	GT9751867576	705	24	SHROUD SET STG2,6FA+E	1	32,233,708.00	32,233,708.00
9	243C1911G001	23511271003-01	705	27	STG3 SHROUD ASSM.6FA+E	1	23,338,296.00	23,338,296.00
					Sub Total for Supply of Parts			1,104,993,401.00
CI Parts Repair Charges								
10	129E8035G005		513	1	FUEL NOZZLE ASSY REPAIR	1	16,665,131.00	16,665,131.00
11	119E6237G004		513	722	CAP ASSEMBLY, COMBUSTION REPAIR	1	20,081,135.00	20,081,135.00
12	119E2899G008		702		TRANSITION PC ASSY COMBUSTION REPAIR	1	17,283,393.00	17,283,393.00
13	119E2261G001		703	1	CAP&LINER ASSY,COMBUSTION REPAIR	1	5,090,678.00	5,090,678.00
	119E2261G002		703	2	CAP&LINER ASSY,COMBUSTION REPAIR	2	5,090,678.00	10,181,356.00
	119E2261G003		703	3	CAP&LINER ASSY,COMBUSTION REPAIR	2	5,090,678.00	10,181,356.00
	119E2261G004		703	4	CAP&LINER ASSY,COMBUSTION REPAIR	1	5,090,678.00	5,090,678.00
					Sub Total for Repair of Parts			84,573,727.00
HGPI Services including DLN Tuning								
14					SITE SERVICES ON HOT GAS PATH INSEPCION INCLUDING DLN TUNING	1	17,800,000.00	17,800,000.00
Hardware required for HGPI								
15	Refer Annexure -A	Annexure-A			Refer Annexure A (Shall submit some items shortly)	1	51,845,221.00	51,845,221.00
Grand Total (INR)								1,259,212,349.00

Note:

- Above quoted prices are basic EXW, Hyderabad prices excluding Taxes, Duties, Transportation, and Insurance.



Section 1 - Technical Summary

1.1 Offer Summary

6F.03 Advanced Gas Path

The 6F.03 Advanced Gas Path (AGP) product utilizes F-class Hot Gas Path (HGP) technology incorporating cooling and sealing enhancements and advanced materials to allow efficient operation at increased firing temperatures. Together with the DLN 2.6 combustor and (MBC) model-based controls architecture, the AGP uprate delivers improved output and heat rate; all while maintaining current best-in-class emissions levels and extended inspection interval.

The Advanced Gas Path uprate provides improved heat rate and output. Additionally, the AGP components are capable of extended inspection intervals. The 6F.03 AGP product also includes modifications to the DLN2.6 combustion system to enable increased durability and lower pressure drop, further enhancing unit performance.

1.2 Customer Value

6F.03 Advanced Gas Path

The Advanced Gas Path uprate allows operation at increased firing temperature, providing improved heat rate and output in both simple and combined cycle operation.

1.3 Control System

This offering requires software and controls modifications. The units at **Namrup** station are currently equipped with a **Mark VIe** control system.

General Comments

As part of this modification, the software will be modified and returned to the site to be installed and commissioned by a qualified Controls Field Engineer. To design and implement the required software changes a copy of the "As-Operating" software, including all HMI screens, is to be provided from the site. This offering does not include any scope for site installation services. The Installation Services organization should be contacted for a related proposal to provide a qualified Controls Field Engineer to install and commission the software.

1.4 Performance Effect

6F.03 Advanced Gas Path

Estimated Performance benefits associated with Advanced Gas Path (AGP) are given below for the Gas Turbine unit @ rated conditions provided below:

	6FA AGP
Power Output	3.0 %
Heat Rate	-1.1 %



Performance Analysis Notes

1. All values in this section are based on new & clean gas turbines.
2. A negative Heat Rate margin indicates a Heat Rate improvement.
3. Heat Rate/Efficiency is calculated using the Lower Heating Value (LHV).
4. Gas Turbine exhaust conditions are for information only and should be considered expected values only.
5. This analysis assumes the gas turbine is not impacted by any plant limitations, unless specifically mentioned. These limitations include but are not limited to the following:
 - Electrical (transformer)
 - Steam Turbine
 - HRSG
 - Generators
 - BOP Equipment

Pre & Post Unit Configuration

The pre-upgrade combustion system is DLN 2.6. The post upgrade hardware configuration is 6FA.03 AGP FL16. The combustion system remains same as DLN 2.6.

	PRE-UPGRADE	POST UPGRADE
Combustor	DLN2.6	DLN2.6
Compressor	Enhanced Compressor	Enhanced Compressor
HGP	6FA.03 AO	6FA.03 AGP

1.6 Generator Evaluation

Generator analysis is not done for this budgetary proposal but not envisaging any major change looking at the analysis done previously with other AGP upgrade proposal.

1.7 Additional Equipment Considerations

6F.03 Advanced Gas Path

Non-GE parts:

The compatibility and performance of the proposed upgrades/enhancements is conditioned upon the assumption that all parts and control settings in and relating to the covered Gas Turbine/Generator units are consistent with the most current GE Authorized specifications, standards and settings, including without limitation implementation of all TILs and SILs. BGGTS/GE makes no warranty or guarantee, whether express, implied or otherwise, including any implied warranties of merchantability or fitness for purpose, regarding the compatibility or performance of upgrades/OpFlex enhancements in units where non-GE parts and/or repair services have been installed or utilized or the unit has not been updated to reflect the most current specifications, standards and settings. In such events, reduced performance may result and additional parts and/or services may be required and are not included in this proposal.



Division of Responsibility/Non-BGGTS/GE Scope

BGGTS/GE limits its responsibility to the turbine base and BGGTS/GE provided skids. Because of possible interferences, GE does not assume responsibility for interconnecting wiring/cabling/conduit or interconnecting piping or foundation work, unless specifically offered.

Non-BGGTS Scope

BGGTS limits its responsibility to the turbine base and BGGTS provided skids. Because of possible interferences, BGGTS/GE does not assume responsibility for interconnecting wiring/cabling/conduit or interconnecting piping or foundation work, unless specifically offered.

1.8 Site Information

6F.03 Advanced Gas Path

In order to properly accommodate the engineering of the proposed modification, the following information needs to be provided from site with the Purchase Order (PO):

- Confirmation of capital parts to be installed with the upgrade
- Control Panel Serial Number
- Copy of as-running controls software and operator control screens (HMI Screens)
- As-operating control system specification
- As-operating device summary
- As-operating piping schematic diagram
- HMI Cimplicity revision and HMI Operating System (OS) version
- Current eTCSS revision
- All emissions requirements
- Current (as-configured) gas fuel analysis and all expected fuel compositions the unit may operate with

1.9 Maintenance Effect

The AGP HGP components are designed for 24K /900 factored fired hours and factored fired starts inspection intervals at nominal firing and operating conditions.

Information concerning maintenance, including hours based and starts-based inspection intervals, may be found in GE publication GER-3620P.

https://www.ge.com/content/dam/gepower-new/global/en_US/downloads/gas-new-site/resources/reference/ger-3620p-heavy-duty-gas-turbine-operating-maintenance-considerations.pdf

1.10 GE Publications

Use the following relevant GE documents located online for your use at:

http://www.ge-energy.com/prod_serv/products/tech_docs/en/all_gers.htm



Section 2: Scope of Supply

2.1 Scope of Supply

6F.03 Advanced Gas Path

- Set of 6F.03 AGP Stage 1 Buckets
- Set of 6F.03 AGP Stage 1 Nozzles
- Set of 6F.03 AGP Stage 1 Shrouds
- Set of 6F.03 AGP Stage 2 Buckets
- Set of 6F.03 AGP Stage 2 Nozzles
- Set of 6F.03 AGP Stage 2 Shrouds
- Set of 6F.03 AGP Stage 3 Buckets (Same as As-running hardware)
- Set of 6F.03 AGP Stage 3 Nozzles
- Set of 6F.03 AGP Stage 3 Shrouds
- Cooling and Sealing air system orifice changes.

Combustion System Upgrade for 24K extended interval along with AGP HGPI hardware suitable (Under Repair Option)

- Repair of Transition Piece along with replacement hardware
- Repair of Fuel Nozzles along with replacement hardware
- Repair of Combustion Caps along with replacement hardware
- Repair of Combustion Liners along with replacement hardware

Appendix 2 – Product Descriptions

Description for reference, refer to scope section of proposal for site specific offering

6F.03 Advanced Gas Path

Increases in gas turbine operating temperatures are the result of demand for increased output and improved turbine efficiency. As F-class turbine technology has evolved, greater operating temperatures have demanded enhanced turbine component modeling, design and manufacturing techniques. Further, GE strives to leverage the knowledge gained from extensive F-Class fleet experience to continuously improve the product line. GE is committed to making these technological advances available to the installed fleet so that existing customers can take full advantage of the latest technology.

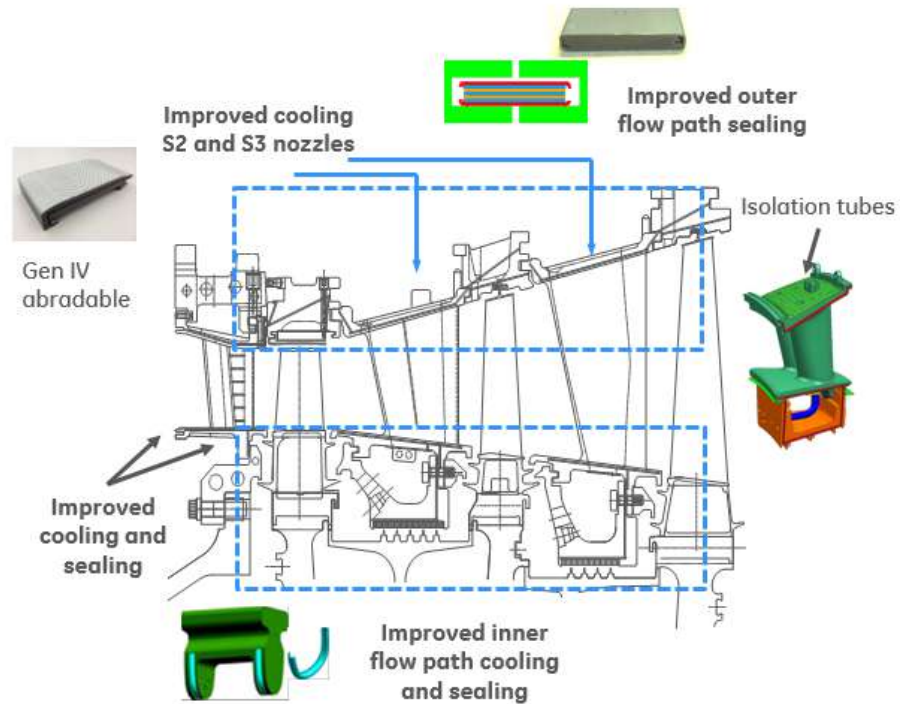
The 6F.03 FL16 Advanced Hot Gas Path includes design enhancements to several HGP components, which includes first, second and third stage nozzles, first and second stage buckets, and first, second and third stage shrouds. Laminate seals are utilized throughout the stationary components to further optimize sealing efficiency.

Technological enhancements included in the AGP revolve around application of advanced coatings as well as cooling and sealing enhancements leveraged from GE's successful and mature 7F.04 and 9F.04 product lines, allowing optimization of cooling flows to the HGP as well as providing capability to operate at higher firing temperatures. The ultimate results of these enhancements are higher gas turbine output and greater



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efficiency. The 6F AGP package also includes modifications to the DLN 2.6 transition piece which results in reduced differential pressure across the combustion system, further benefitting performance.





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Annexure-A

Section-C-Supply of Hardware								
S.NO	Part No	-	MLI NO	MLPT NO	Item Description	Qty	Unit Price (INR)	Ext Price (INR)
	129E8036G014		513		FUEL NOZZ. ARRGT GT			
1	318A9713P056		513	3	GASKET	6	6643.00	39858.00
2	N733AP35064		513	4	ALLOY STEEL 12 PT SCREW - 3/4" 10UNC LG 4"	25	551.00	13775.00
3	N5606P03006G11		513	6	GASKET SPIRAL WOUND - 3"XCL300	6	886.00	5316.00
4	N14P35072		513	7	BOLT HEXA.HEAD 3/4" 10UNC LG 41/2"ALLOY STEEL	10	311.00	3110.00
5	N265BP35		513	8	LOCK NUT CARBON STEEL 3/4" 10UNC	10	115.00	1150.00
6	N28P25010		513	9	BOLT - 3/8" 16UNC LG 5/8"	12	113.00	1356.00
	119E3058G003		701		CHAMBER ARR COMBUSTION			
7	N28P25010		701	5	SCREWSOCHD - 3/8" 16UNC LG 5/8"	12	113.00	1356.00
8	360A7261P001		701	6	GASKET	6	8760.00	52560.00
9	N733AP35048		701	7	ALY STL 12PT SCREW 3/4"-10 UNC	30	555.00	16650.00
10	188D9471G005		701	8	CROSSFIRE TUBE ASSY. (MALE)	6	165470.00	992820.00
11	188D9471G006		701	9	CROSSFIRE TUBE ASSY. (FEMALE)	6	179454.00	1076724.00
12	230C3265P001		701	10	WIRE RETAINER	12	68247.00	818964.00
13	104C1378G001		701	12	INSERT AND GASKET ASSEMBL	12	529765.00	6357180.00
14	N14P29022		701	15	HX HD CAP SCREW&BOLT 1/2" 13UNC LG 1.375"	18	113.00	2034.00
15	318A9713P027		701	16	GASKET	2	640.00	1280.00
16	N733AP33040		701	17	ALY STL 12PT SCREW 5/8"-11UNC	4	547.00	2188.00
17	N402P17		701	18	WASHER, PLAIN 5/8"	2	113.00	226.00
18	194D6146P001		701	20	STOP,LINER ANTI-WITHDR	4	11840.00	47360.00
19	N646P21008		701	21	SCREW CAP FLAT HEX	12	113.00	1356.00
20	372A1159P010		701	25	GASKET SPIRAL WOUND 1-1/2" CL300	4	4436.00	17744.00
21	N402P18		701	26	WASHER, PLAIN 3/4"	4	254.00	1016.00
22	N733AP35032		701	27	ALY STL 12PT SCREW 3/4"-10 UNC	4	413.00	1652.00
23	188D9489G026		1214		SPARK PLUG, SPRING POSITIONING	1	463813.00	463813.00
24			1215		26 FT FLEXIBLE IGNITION LEAD	1	LATER	LATER
25	354A1513P153		1215		FLEXIBLE IGNITION LEAD	1	433084.00	433084.00
26	121T4154P0001		1213		IGNITION EXCITER	1	4252868.00	4252868.00
27	362A1052P404		1121		FLAME DETECTOR (2-WIRE)	2	825805.00	1651610.00
28	362A3342P002		1121		CABLE, SIC FLAME DET 2-WIRE	2	85563.00	171126.00
29	184A8731P001		121		GASKET, SPIRAL WOUND	2	2007.00	4014.00
	119E3055G004		717		TRANSITION PC ARRGT, COMBUSTION			
30	188D9456G001		717	1	BULL HORN ASSY.	6	282880.00	1697280.00
31	318A9872P001		717	2	LOCK PLATE	6	546.00	3276.00
32	318A9872P002		717	3	TP LOCK PLATE	12	1033.00	12396.00
33	186C1916P022		717	4	BOLT HEX HEAD 5/8" 11 UNC LG 1.50"	12	594.00	7128.00
34	233C5074G001		717	5	RETAINER SIDE SEAL ASSY.	6	90810.00	544860.00
35	224B9719P010		717	6	TP LOCK PLATE	6	5581.00	33486.00
36	353B3864P002		717	7	TP BOLT BB 5/8" 11 UNRC-2A	18	41218.00	741924.00



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37	224B9719P012		717	8	LOCKING PLATE	12	11060.00	132720.00
38	221D1872G001		717	9	SIDE SEAL ASSBLY CLOTH	6	70508.00	423048.00
	119E2799G002		719		CASE ARRG T COMBUSTION OUTER			
39	N926BP229		719	1/5	WIRE LOCKING INSERT 1/2"-13 UNC	8	99.00	792.00
40	N926BP335		719	1/8	WIRE LOCKING INSERT 3/4"-10 UNC	20	268.00	5360.00
41	N926BP233		719	2/11	WIRE LOCKING INSERT 5/8"-11 UNC	2	295.00	590.00
42	N926BP235		719	3/10	WIRE LOCKING INSERT 3/4"-10 UNC	4	377.00	1508.00
43	158A5457P001		719	1/6	PIN,STRAIGHT,HEADLESS	6	1532.00	9192.00
44	N733AP39052		719	6	ALY STL 12PT SCREW 1" - 8UNC	12	1397.00	16764.00
45	318A9713P043		719	7	GASKET SPIRAL WOUND	6	5885.00	35310.00
	806L1643G002		920		PIPING, FALSE START DRAIN			
46	372A1159P010		920	36	Gasket 1-1/2" CL300	3	4436.00	13308.00
47	N14DP35052		920	37	BOLT HEXA.HEAD 3/4 IN 10UNC LG 3 IN 1/4	4	382.00	1528.00
48	N265DP35		920	38	LOCK NUT CARBON STEEL 5/8 IN 11 UNC	4	137.00	548.00
	806L1760G005		924		PIPING ARRG T, AIR EXTRACTION			
49	N5606P02006G22		924	72	Gasket 2" CL600	12	1518.00	18216.00
50	N14DP33052B7		924	73	BOLT HX HD 5/8"	10	360.00	3600.00
51	N265DP33B7		924	74	LOCK NUT	20	1753.00	35060.00
52	372A1159P109		924	84	Gasket 1-1/4" CL300	6	1540.00	9240.00
53	N14DP33044B7		924	85	BOLT HX HD 5/8"	10	474.00	4740.00
	137E5624G001		962		Piping Arr. Fuel Gas			
	372A1159P008		962	68	Gasket 1" CL300	28	2289.00	64092.00
55	372A1159P009		962	44	Gasket 1-1/4" CL300	15	2378.00	35670.00
56	372A1159P010		962	69	Gasket 1-1/2" CL300	15	4436.00	66540.00
57	N265DP33B7		962	59	Lock Nut 5/8"-11 UNC	20	1753.00	35060.00
58	N14DP33044B7		962	73	Hex HD Cap Screw 5/8"-11 UNC 2.75" LG	10	474.00	4740.00
59	N5606P03006G11		962	71	Gasket spiral wound 3" CL600	8	886.00	7088.00
60	N265DP35B7		962	58	Lock Nut 3/4"-10 UNC	20	2009.00	40180.00
61	N14DP35060B7		962	78	Hex HD Cap Screw 3/4"-10 UNC 3.75" LG	10	330.00	3300.00
62	N14DP33048B7		962	75	Hex HD Cap Screw 5/8"-11 UNC	12	517.00	6204.00
63	N14DP35064B7		962	79	Hex HD Cap Screw 3/4"-10 UNC 4" LG	10	872.00	8720.00
64	N5606P04003G11		962	72	Gasket spiral wound 4" CL300	5	1904.00	9520.00
65	N14DP35052B7		962	81	Hex HD Cap Screw 3/4"-10 UNC 3.25" LG	10	347.00	3470.00
66	N5606P02006G11		962	70	Gasket spiral wound 2" CL600	4	1002.00	4008.00
67	N14DP33052B7		962	74	Hex HD Cap Screw 5/8"-11 UNC 3.25" LG	10	360.00	3600.00
68	379A9760P101		962		FLEX HOSE GAS FUEL (PM1)	6	92123.00	552738.00
69	379A9760P103		962		FLEX HOSE GAS FUEL (PM2)	6	105150.00	630900.00
70	379A9760P105		962		FLEX HOSE GAS FUEL (PM3)	6	123258.00	739548.00
71	379A9760P108		962		FLEX HOSE GAS FUEL (QUATERNARY)	6	82444.00	494664.00
	119E3980G007	03511271014-07	705		CASE ARRG T TURBINE			



BHEL-GE Gas Turbine Services Pvt. Ltd.

72	324B7458P005		705	1/3	STUD, BODY BOUND	2	18102.00	36204.00
73	324B7449P008		705	1/4	TE STUD 1.75" - 8 X 10.5" LG	1	9637.00	9637.00
74	324B7451P013		705	1/5	TE STUD 2.25" - 8 X 14" LG	2	18830.00	37660.00
75	324B7450P009		705	1/6	TE STUD 2" - 8 X 11" LG	1	12255.00	12255.00
76	324B7456P004		705	1/7	STUD, BODY BOUND	1	13071.00	13071.00
77	324B7451P010		705	1/8	TE STUD 2.25" - 8 X 12.5" LG	1	12258.00	12258.00
78	N271TP52		705	1/9	ALLOY STEEL 12 PT NUT	4	2904.00	11616.00
79	N271TP54		705	1/10	ALLOY STEEL 12 PT NUT	2	3995.00	7990.00
80	N271TP56		705	1/11	ALLOY STEEL 12 PT NUT	8	5661.00	45288.00
	112E6003G001	03590471002-01	706		ASSY EXHAUST FRAME			
81	N733AP39056		706	1/1/3	ALY STL 12PT SCREW	8	LATER	LATER
82	N733AP39072		706	1/1/4	SCREW, 12 PT	10	LATER	LATER
83	N733AP39080		706	1/1/5	ALY STL 12PT SCREW	5	1341.00	6705.00
84	N272SP39		706	1/1/6	TWELVE PT LOCK NUT	10	23454.00	234540.00
85	324B7453P001		706	1/1/7	STUD, BODY BOUND	2	7626.00	15252.00
86	158A5636P052		706	1/1/10	DOWEL 1- OD X 2.5	2	6005.00	12010.00
87	324B7481P001	33590471026-01	706	2	ADAPTER, THERMOCOUPLE	2	111024.00	222048.00
88	156A1085P013	GT9751038138	706	3	CONNECTOR-TUBE-FEML-1/2X3/8-IN	2	3084.00	6168.00
89	357A1627P005	GT9755005056	706	4	CLAMP, LOOP 0.5"	2	604.00	1208.00
90	N22P21008	GT9751691052	706	6	HEX SCREW 1/4" 20UNC 13L	2	328.00	656.00
91	N733AP33080	GT9751688558	706	13	12 POINT BOLT 5/8" - 11UNC - 2A X 5.00	10	1985.00	19850.00
92	N271TP33	GT9751622018	706	14	NUT 12 POINT 5/8"-11UNC-2B	20	585.00	11700.00
93	N733AP33040	GT9751688540	706	15	12 POINT BOLT 5/8" - 11UNC - 2A X 2.50	2	547.00	1094.00
	141E7315G001		1604		BOLTING & DOWELING ARRGT			
	119E4930G003	03512371003-01	1604	1607	HARDWARE STATOR CASE 6FA+e			
94	324B7449P013		1604	1/10	TE STUD 1.75" - 8 X 13" LG	4	8093.00	32372.00
95	324B7449P033		1604	1/11	TE STUD 1.75" - 8 X 23" LG	1	25814.00	25814.00
96	N733AP39080		1604	1/12	ALY STL 12PT SCREW	4	1341.00	5364.00
97	N271TP39		1604	1/13	ALLOY STEEL 12 PT NUT	8	1297.00	10376.00
98	N271TP52		1604	1/14	ALLOY STEEL 12 PT NUT	10	2904.00	29040.00
99	N432P14		1604	1/16	ALLOY STEEL 12 PT NUT	10	947.00	9470.00
					GASKETS FOR DIFFERENT SIZE PIPNG			
100	N5606P04001G11		909	54	Gasket 4" CL150	10	2205.00	22050.00
101	N5606P04003G11		909	53	Gasket 4" CL300	10	1904.00	19040.00
102	N5606P05001G11		909	55	Gasket 5" CL150	10	6122.00	61220.00
103	N5606P05003G11		909		Gasket 5" CL300	10	2236.00	22360.00
104	N5606P06001G11		909		Gasket 6" CL150	10	1715.00	17150.00
105	N5606P06003G11		909	52	Gasket 6" CL300	10	1791.00	17910.00
106	N5606P08001G11		909	50	Gasket 8" CL150	10	4751.00	47510.00
107	N5606P08003G11		909	51	Gasket 8" CL300	10	5488.00	54880.00
	185D3539G001	13571471002-01	218		THERMOCOUPLE ARRGT, WHEEL STG#1			



BHEL-GE Gas Turbine Services Pvt. Ltd.

108	211A9110P001	43571461001-01	218	2	ADAPTER, THERMOCOUPLE	2	13462.00	26924.00
109	156A1085P010	GT9754192979	218	3	CONNECTOR TUBE FEMALE 3/8"X3/8"	2	2091.00	4182.00
110	242C7687G001	33571471002-01	218	4	TUBE, GUIDE, TC STG 1	2	77120.00	154240.00
111	357A1627P004	GT9755005048	218	5	CLAMP LOOP 9.65	4	144.00	576.00
112	N14TP21008	GT9751694230	218	6	HEX. HEAD BOLT 1/4" 20 UNC	4	1161.00	4644.00
113	286A6292P006	GT9751054060	218	7	RDCR PIPE SCRUD 0.5INX0.125IN	2	519.00	1038.00
					WHEELSPACE THERMOCOUPLES			
114	379A9705P030	GT9755323198		4	TTWS1FI-1 & TTWS1FI-2	2	65159.00	130318.00
115	379A9705P053	GT9755323201		5	TTWS1AO-1 & TTWS2AO-2	2	71308.00	142616.00
116	379A9705P056	GT9755323210		6	TTWS2AO-2	1	48760.00	48760.00
117	379A9705P012	GT9755323228		7	TTWS3AO-1	1	56739.00	56739.00
118	379A9705P050	GT9755323236		8	TTWS2AO-1	1	73809.00	73809.00
119	379A9705P010	GT9755323244		9	TTWS3AO-2	1	67197.00	67197.00
120		GT9754266379		10	CONN THERMOCOUPLE 1/8"	6	LATER	LATER
					EXHAUST THERMOCOUPLES			
121	381A6581P004	GT9755381015		1	EXHAUST THERMOCOUPLE	2	26804.00	53608.00
122	381A6581P006	GT9755381023		2	EXHAUST THERMOCOUPLE	2	73402.00	146804.00
123	381A6581P011	GT9755381031		3	EXHAUST THERMOCOUPLE	4	59841.00	239364.00
124	381A6581P016	GT9755381040		4	EXHAUST THERMOCOUPLE	1	53381.00	53381.00
					Subtotal for Supply of Hardware			
125			507		VALVE STOP RATIO 3 IN	1	LATER	LATER
126	172A6868P202		509		CONTROL GAS VALVE	1	4026105.00	4026105.00
127	172A6868P203		509		CONTROL GAS VALVE	1	3959323.00	3959323.00
128	172A6868P204		509		CONTROL GAS VALVE	1	3829894.00	3829894.00
129	172A6868P210		509		CONTROL GAS VALVE - HRV CG1500	1	5482367.00	5482367.00
130	381A7014P029		1019		VALVE, SOLENOID, TRIP, ATEX	1	1327089.00	1327089.00
131	381A7014P034		1019		VALVE, SOLENOID, TRIP, ATEX	1	1064201.00	1064201.00
132	395A3862P001		1071		SOLENOID VALVE 20CB	1	1163520.00	1163520.00
133		GT9751121035	0540		Servo Valve IGV actuator (GT9751121035)	1	LATER	LATER
134					LVDTs for VIGV	2	365000.00	730000.00
135	381A7058P004				Servo Valve SRV(312A3077P004)	1	364083.00	364083.00
136					Servo Pre-filter (315A2660Pxxx)	1	LATER	LATER
137	312A6077P003				Servo Valve for GCVs	4	364083.00	1456332.00
138	315A2660P001				Servo Pre-filter (315A2660P001)	1	91759.00	91759.00
139	311A5178Pxx				LVDTs for SRV(311A5178Pxxx)	2	455976.00	911952.00
140	311A5178Pxx				LVDTs for GCVs	8	210000.00	1680000.00
141			1053		CARTRIDGE FILTER BETA 40=75, Mauin Lube oil	48	LATER	LATER
142		GT9755224041			GAS PURGE VENT SOLENOID VALVE 20VG-2(GT9755224041)	1	LATER	LATER
143		GT9755323163			THERMOCOUPLE-INNER BARREL-1(GT9755323163)	1	LATER	LATER
144		GT9755323180			THERMOCOUPLE-INNER BARREL-2&3 (GT9755323180)	2	LATER	LATER
145	392A8991P002		218A		VELOCIMETRIC SENSOR - 20FT CABLE	1	261843.00	261843.00
146	392A8991P004		218A		VELOCIMETRIC SENSOR - 40FT CABLE	1	306681.00	306681.00

Total price (INR) For Hardware items	51,845,221.00
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For **BHEL-GE Gas Turbine Services Pvt. Ltd.**

Ravindra. Chinta
Dy. Manager-(Commercial)

Products and/or Services Terms and Conditions 2019

NOTICE: Sale of any Products and/or Services is expressly conditioned on Buyer's assent to these Terms and Conditions. Any acceptance of Seller's offer is expressly limited to acceptance of these Terms and Conditions and Seller expressly objects to any additional or different terms proposed by Buyer. No facility entry form shall modify these Terms and Conditions even if signed by Seller's representative. Any order to perform work and Seller's performance of work shall constitute Buyer's assent to these Terms and Conditions. Unless otherwise specified in the quotation, Seller's quotation expires 30 days from its date and may be modified or withdrawn by Seller before receipt of Buyer's conforming acceptance.

1. Definitions

"Buyer" means the entity to which Seller is providing Products and/or Services under the Contract.

"Contract" means either the contract agreement signed by both parties, or the purchase order signed by Buyer and accepted by Seller in writing, for the sale of Products and/or Services, together with these Terms and Conditions, Seller's final quotation, the agreed scope(s) of work, and Seller's order acknowledgement. In the event of any conflict, the Terms and Conditions shall take precedence over other documents included in the Contract.

"Contract Price" means the agreed price stated in the Contract for the sale of Products and/or Services, including adjustments (if any) in accordance with the Contract.

"Derivative Works" means: (a) any work based upon one or more pre-existing works, such as a revision, enhancement, modification, translation, abridgement, condensation, expansion, extension or any other form in which such pre-existing works may be published, recast, transformed, or adapted, and that if prepared without the authorization of the owner of the copyright or other intellectual property right to such pre-existing works, would constitute an infringement of such copyright or other intellectual property right, and/or (b) any compilation that incorporates such pre-existing works.

"Hazardous Materials" means any toxic or hazardous substance, hazardous material, dangerous or hazardous waste, dangerous good, radioactive material, petroleum or petroleum-derived products or by-products, or any other chemical, substance, material or emission, that is regulated, listed or controlled pursuant to any national, state, provincial, or local law, statute, ordinance, directive, regulation or other legal requirement of the United States ("U.S.") or the country of the Site.

"Insolvent/Bankrupt" means that a party is insolvent, makes an assignment for the benefit of its creditors, has an administrator, receiver, liquidator or trustee appointed for it or any of its assets, or files or has filed against it a proceeding under any bankruptcy, insolvency dissolution or liquidation laws.

"Products" means the equipment, parts, materials, supplies, software, and other goods Seller has agreed to supply to Buyer under the Contract.

"Seller" means the entity providing Products or performing Services under the Contract.

"Services" means the services Seller has agreed to perform for Buyer under the Contract.

"Site" means the premises where Products are used or Services are performed, not including Seller's premises from which it performs Services.

"Terms and Conditions" means these "Products and/or Services Terms and Conditions", including any relevant addenda pursuant to Article 18, together with any modifications or additional provisions specifically stated in Seller's final quotation or specifically agreed upon by Seller in writing.

"USD" means United States Dollars.

2. Payment

2.1 Buyer shall pay Seller for the Products and/or Services by paying all invoiced amounts by direct bank transfer in the currency specified by Seller in the Contract, without deduction, withholding or set-off for any payment or claim, within thirty (30) days from the invoice date. If the Contract Price is less than two hundred fifty thousand USD (\$250,000), Seller shall issue invoices upon shipment of Products and as Services are performed. If the Contract Price is two hundred fifty thousand USD (\$250,000) or more, progress payments shall be invoiced starting with twenty-five percent (25%) of the Contract Price for Products and/or Services upon the earlier of Contract signature or issuance of Seller's order acknowledgement and continuing such that the Contract Price for remaining Services is invoiced as they are performed and ninety percent (90%) of the Contract Price for Products is received before the earliest scheduled Product shipment ("Progress Payments"). For each calendar month, or fraction thereof, that payment is late, Buyer shall pay a late payment charge computed at the rate of 1.5% per month on the overdue balance, or the maximum rate permitted by law if it is less. If the price is set by the Contract in a currency other than USD, references to USD in this Section 2.1 shall mean the equivalent amount in the applicable currency.

2.2 As and if requested by Seller, Buyer shall at its expense establish and keep in force payment security in the form of an irrevocable, unconditional, sight letter of credit or bank guarantee allowing for pro-rata payments as Products are shipped and Services are performed, plus payment of cancellation and termination charges, and all other amounts due from Buyer under the Contract ("Payment Security"). The Payment Security shall be (a) in a form, and issued or confirmed by a bank acceptable to Seller, (b) payable at the counters of such acceptable bank or negotiating bank, (c) opened at least sixty (60) days prior to both the earliest scheduled shipment of Products and commencement of Services, and (d) remain in effect until the latest of ninety (90) days after the last scheduled Product shipment, completion of all Services and Seller's receipt of the final payment required under

the Contract. Buyer shall, at its expense, increase the amount(s), extend the validity period(s) and make other appropriate modifications to any Payment Security within ten (10) days of Seller's notification that such adjustment is necessary in connection with Buyer's obligations under the Contract.

2.3 Seller is not required to commence or continue its performance unless and until any required Payment Security is received, operative and in effect and all applicable Progress Payments have been received. For each day of delay in receiving any Progress Payments or acceptable Payment Security, Seller shall be entitled to an equitable extension of time to durations or periods of time (if any) expressly agreed to by the Parties in the written schedule for performance and/or completion of the Services or any parts thereof. If at any time Seller reasonably determines that Buyer's financial condition or payment history does not justify continuation of Seller's performance, Seller shall be entitled to require full or partial payment in advance or otherwise restructure payments, request additional forms of Payment Security, suspend its performance or terminate the Contract.

3. Taxes and Duties

Seller shall be responsible for all corporate taxes measured by net income due to performance of or payment for work under this Contract ("Seller Taxes"). Buyer shall be responsible for all taxes, duties, fees, or other charges of any nature (including, but not limited to, consumption, gross receipts, import, property, sales, stamp, turnover, use, or value-added taxes, and all items of withholding, deficiency, penalty, addition to tax, interest, or assessment related thereto, imposed by any governmental authority on Buyer or Seller or its subcontractors) in relation to the Contract or the performance of or payment for work under the Contract other than Seller Taxes ("Buyer Taxes"). The Contract Price does not include the amount of any Buyer Taxes. If Buyer deducts or withholds Buyer Taxes, Buyer shall pay additional amounts so that Seller receives the full Contract Price without reduction for Buyer Taxes. Buyer shall provide to Seller, within one month of payment, official receipts from the applicable governmental authority for deducted or withheld taxes.

4. Deliveries; Title Transfer; Risk of Loss; Storage

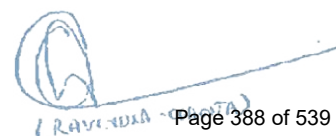
4.1 For shipments that do not involve export, including shipments from one European Union ("EU") country to another EU country, Seller shall deliver Products to Buyer FCA Seller's facility or warehouse (Incoterms 2010). For export shipments, Seller shall deliver Products to Buyer FCA Port of Export (Incoterms 2010). Buyer shall pay all delivery costs and charges or pay Seller's standard shipping charges plus up to twenty-five (25%) percent. Partial deliveries are permitted. Seller may deliver Products in advance of the delivery schedule. If Products delivered do not correspond in quantity, type or price to those itemized in the shipping invoice or documentation, Buyer shall so notify Seller within ten (10) days after receipt.

4.2 For shipments that do not involve export, title to Products shall pass to Buyer upon delivery in accordance with Section 4.1. For export shipments from a Seller facility or warehouse outside the U.S., title shall pass to Buyer upon delivery in accordance with Section 4.1. For shipments from the U.S. to another country, title shall pass to Buyer immediately after each item departs from the territorial land, seas and overlying airspace of the U.S. The 1982 United Nations Convention of the Law of the Sea shall apply to determine the U.S. territorial seas. For all other shipments, title to Products shall pass to Buyer the earlier of (i) the port of export immediately upon clearance of Products for export or (ii) immediately after each item departs from the territorial land, seas and overlying airspace of the sending country. When Buyer arranges the export or intercommunity shipment, Buyer will provide Seller evidence of exportation or intercommunity shipment acceptable to the relevant tax and customs authorities. Where Seller is responsible for importing, or directly or indirectly reimburses Buyer for import costs, Buyer agrees to have import arranged through the agency of one of Seller's approved global customs brokers, whereby Seller will provide required support for instructions. If Buyer arranges for any import of Parts, Buyer may not use any third party vendor for providing customs clearance services until Seller has approved such party prior to shipment of the Parts. Notwithstanding the foregoing, Seller grants only a non-exclusive license, and does not pass title, for any software provided by Seller under this Contract, and title to any leased equipment remains with Seller.

4.3 Risk of loss shall pass to Buyer upon delivery pursuant to Section 4.1, except that for export shipments from the U.S., risk of loss shall transfer to Buyer upon title passage.

4.4 If any Products to be delivered under this Contract or if any Buyer equipment repaired at Seller's facilities cannot be shipped to or received by Buyer when ready due to any cause attributable to Buyer or its other contractors, Seller may ship the Products and equipment to a storage facility, including storage at the place of manufacture or repair, or to an agreed freight forwarder. If Seller places Products or equipment into storage, the following apply: (i) title and risk of loss immediately pass to Buyer, if they have not already passed, and delivery shall be deemed to have occurred; (ii) any amounts otherwise payable to Seller upon delivery or shipment shall be due; (iii) all expenses and charges incurred by Seller related to the storage shall be payable by Buyer upon submission of Seller's invoices; and (iv) when conditions permit and upon payment of all amounts due, Seller shall make Products and repaired equipment available to Buyer for delivery.

4.5 If repair Services are to be performed on Buyer's equipment at Seller's facility, Buyer shall be responsible for, and shall retain risk of loss of, such equipment at all times, except that Seller shall be responsible for damage to the equipment while at Seller's facility to


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the extent such damage is caused by Seller's negligence.

4.6 Except as otherwise expressly agreed to by the Parties in writing, acceptance of Products shall be deemed to occur upon delivery; acceptance of Services shall be deemed to occur upon performance of the Services. Acceptance shall not be delayed by delays in provision of documentation or other non-conformances which do not prevent operation of Buyer's equipment, nor by requirements which the Contract contemplates may be carried out after acceptance.

5. Warranty

5.1 Seller warrants that Products shall be delivered free from defects in material, workmanship and title and that Services shall be performed in a competent, diligent manner in accordance with any mutually agreed specifications incorporated into the Contract.

5.2 The warranty for Products shall expire one (1) year from first use or eighteen (18) months from delivery, whichever occurs first, except that software is warranted for ninety (90) days from delivery; and the warranty for Services shall expire one (1) year after performance of the Service, except that software-related Services are warranted for ninety (90) days (as applicable, the "Warranty Period").

5.3 If Products and/or Services do not meet the above warranties, Buyer shall promptly notify Seller in writing prior to expiration of the applicable Warranty Period. Seller shall (i) at its option, repair or replace defective Products and (ii) re-perform defective Services. If despite Seller's reasonable efforts, a non-conforming Product cannot be repaired or replaced, or non-conforming Services cannot be re-performed, Seller shall refund or credit monies paid by Buyer for such non-conforming Products and/or Services. Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable Warranty Period. Seller's warranty obligations exclude the repair or replacement of any damaged parts or Products other than the initially failing part which caused the damage. Buyer shall obtain Seller's agreement on the specifications of any tests it plans to conduct to determine whether a non-conformance exists.

5.4 Buyer shall bear the costs of access for Seller's remedial warranty efforts (including removal and replacement of systems, structures or other parts of Buyer's facility), de-installation, decontamination, re-installation and transportation of defective Products to Seller and back to Buyer.

5.5 The warranties and remedies are conditioned upon (a) proper storage, installation, use, operation, and maintenance of Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of Products and/or Services only as authorized by Seller in writing. Failure to meet any such conditions renders the warranty null and void. Seller is not responsible for normal wear and tear.

5.6 This Article 5 provides the exclusive remedies for all claims based upon the failure of or defect in Products or Services, whether the claim is based in contract, negligence, statute, or any tortious/extra-contractual liability theory, strict liability or otherwise. The foregoing warranties in this Article 5 are exclusive and are in lieu of all other warranties, conditions and guarantees whether written, oral, implied or statutory. NO IMPLIED OR STATUTORY WARRANTY, OR WARRANTY OR CONDITION OF MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE APPLIES.

6. Confidentiality

6.1 Seller and Buyer (as to information disclosed, the "Disclosing Party") may each provide the other party (as to information received, the "Receiving Party") with Confidential Information in connection with this Contract. "Confidential Information" means information that is designated in writing as "confidential" or "proprietary" by Disclosing Party at the time of written disclosure. In addition, prices for Products and/or Services shall be considered Seller's Confidential Information.

6.2 Receiving Party agrees: (i) to use the Confidential Information only in connection with the Contract and use of Products and/or Services, (ii) to take reasonable measures to prevent disclosure of the Confidential Information to third parties, and (iii) not to disclose the Confidential Information to a competitor of Disclosing Party. Notwithstanding these restrictions, (a) Seller may disclose Confidential Information to its affiliates and subcontractors in connection with performance of the Contract, (b) a Receiving Party may disclose Confidential Information to its auditors, (c) Buyer may disclose Confidential Information to lenders as necessary for Buyer to secure or retain financing needed to perform its obligations under the Contract, and (d) a Receiving Party may disclose Confidential Information to any other third party with the prior written permission of Disclosing Party, and in each case, only so long as the Receiving Party obtains a non-disclosure commitment from any such subcontractors, auditors, lenders or other permitted third party that prohibits disclosure of the Confidential Information and provided further that the Receiving Party remains responsible for any unauthorized use or disclosure of the Confidential Information. Receiving Party shall upon request return to Disclosing Party or destroy all copies of Confidential Information except to the extent that a specific provision of the Contract entitles Receiving Party to retain an item of Confidential Information. Seller may also retain one archive copy of Buyer's Confidential Information.

6.3 The obligations under this Article 6 shall not apply to any portion of the Confidential Information that: (i) is or becomes generally available to the public other than as a result of disclosure by Receiving Party, its representatives or its affiliates; (ii) is or becomes available to Receiving Party on a non-confidential basis from a source other than Disclosing Party when the source is not, to the best of Receiving Party's knowledge, subject to a confidentiality obligation to Disclosing

Party; (iii) is independently developed by Receiving Party, its representatives or affiliates, without reference to the Confidential Information; (iv) is required to be disclosed by law or valid legal process provided that the Receiving Party intending to make disclosure in response to such requirements or process shall promptly notify the Disclosing Party in advance of such disclosure and reasonably cooperate in attempts to maintain the confidentiality of the Confidential Information.

6.4 Each Disclosing Party warrants that it has the right to disclose the information that it discloses. Neither Buyer nor Seller shall make any public announcement about the Contract without prior written approval of the other party. As to any individual item of Confidential Information, the restrictions under this Article 6 shall expire five (5) years after the date of disclosure. Trade secrets that are contained in or comprise Confidential Information are to be protected for the life of the trade secret. Article 6 does not supersede any separate confidentiality or nondisclosure agreement signed by the parties.

7. Intellectual Property

7.1 Seller shall defend and indemnify Buyer against any claim by a non-affiliated third party (a "Claim") alleging that Products and/or Services furnished under this Contract infringe a patent in effect in the U.S., an EU member state or the country of the Site (provided there is a corresponding patent issued by the U.S. or an EU member state), or any copyright or trademark registered in the country of the Site, provided that Buyer (a) promptly notifies Seller in writing of the Claim, (b) makes no admission of liability and does not take any position adverse to Seller, (c) gives Seller sole authority to control defense and settlement of the Claim, and (d) provides Seller with full disclosure and reasonable assistance as required to defend the Claim.

7.2 Section 7.1 shall not apply and Seller shall have no obligation or liability with respect to any Claim based upon (a) Products and/or Services that have been modified, or revised, (b) the combination of any Products and/or Services with other products and/or services when such combination is a basis of the alleged infringement, (c) failure of Buyer to implement any update provided by Seller that would have prevented the Claim, (d) unauthorized use of Products and/or Services, or (e) Products and/or Services made or performed to Buyer's specifications.

7.3 Should any Product and/or Service, or any portion thereof, become the subject of a Claim, Seller may at its option (a) procure for Buyer the right to continue using the Product and/or Service, or applicable portion thereof, (b) modify or replace it in whole or in part to make it non-infringing, or (c) failing (a) or (b), take back infringing Products and/or discontinue infringing Services and refund the price received by Seller attributable to the infringing Products and/or Services.

7.4 Article 7 states Seller's exclusive liability for intellectual property infringement by Products and/or Services.

7.5 Each party shall retain ownership of all Confidential Information and intellectual property it had prior to the Contract. All rights in and to software not expressly granted to Buyer are reserved by Seller. All new intellectual property conceived or created by Seller in the performance of this Contract, whether alone or with any contribution from Buyer, shall be owned exclusively by Seller. Buyer agrees to deliver assignment documentation as necessary to achieve that result.

7.6 Buyer will not itself, and will not allow any party (including Buyer Affiliates) to: (i) reverse engineer Products or Services (including any Seller monitoring or data analysis by Seller), (ii) prepare Derivative Works from, alter, modify, disassemble, reverse engineer, reverse assemble, de-compile, or otherwise attempt to reconstruct, discover or derive the object or source code of any software licensed to Buyer by Seller under this Contract (including any third party software); (iii) permit or otherwise grant any third-party access to Products, Services or software for such purpose, even if such third party is performing any corrections, bug fixes and updates.

7.7 Products furnished by Seller under this Contract shall not be installed, used, or made available for use in any equipment other than the equipment specified in the Contract at Buyer's Site. Buyer warrants that such equipment, and the Site, is under its ownership and control, and agrees to inform Seller forthwith should this cease to be the case at any time before expiry of the Warranty Period.

8. Indemnity

Each of Buyer and Seller (as an "Indemnifying Party") shall indemnify the other party (as an "Indemnified Party") from and against claims brought by a third party, on account of personal injury or damage to the third party's tangible property, to the extent caused by the negligence of the Indemnifying Party in connection with this Contract. In the event the injury or damage is caused by joint or concurrent negligence of Buyer and Seller, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of Seller's indemnity obligation, no part of the Products or Site is considered third party property.

9. Insurance

During the term of the Contract, Seller shall maintain for its protection the following insurance coverage: (i) Worker's Compensation, Employer's Liability and other statutory insurance required by law with respect to work related injuries or disease of employees of Seller in such form(s) and amount(s) as required by applicable laws; (ii) Automobile Liability insurance with a combined single limit of \$2,500,000.00; and (iii) Commercial General Liability or Public Liability insurance for bodily injury and property damage with a combined single limit of \$2,500,000.00. If required in the Contract, Seller shall provide a certificate of insurance reflecting such coverage.

10. Schedule and Excusable Events

10.1 Any durations or periods of time quoted on the schedule or otherwise agreed for performance, delivery and/or completion of the Services or delivery of Products shall be regarded as estimated only. In addition, delivery times are dependent upon prompt receipt by Seller of all information necessary to proceed with the work without


(Ravi Nara) Page 389 of 539

interruption. In the event Seller agrees in writing to guaranteed performance, delivery and/or completion times and specific sums as liquidated damages for late performance, delivery or completion, any such liability for damages shall only commence when the period of delay exceeds the guaranteed date or time by 14 (fourteen) calendar days and liquidated damages may be applied and be levied only from that 14th day onwards. Payment of liquidated damages shall be in full and final settlement of any and all liability of the Seller for delays under the Contract and shall be Buyer's sole and exclusive remedy for failing to achieve the performance, delivery and/or completion guarantee. The Seller's maximum aggregate liability for liquidated damages for delay shall in no circumstances exceed 5% (five per cent) of the total amount of the Contract Price paid to the Seller.

10.2 Seller shall not be liable and shall not be considered in breach of any obligations to supply manpower, deliver Products or to perform, deliver or complete the Services or any parts thereof within specified durations or periods or by a specified time if it is delayed or prevented, directly or indirectly, by any cause beyond its reasonable control, or by armed conflict, acts or threats of terrorism, epidemics, strikes or other labor disturbances, or acts or omissions of any governmental authority or of the Buyer or Buyer's contractors or suppliers or for any period of suspension under Section 11.3. If any such cause or excusable event occurs, the schedule for Seller's performance shall be adjusted accordingly and dates or times stated in the schedule for performance and/or completion of the Services shall be extended by the amount of time lost by reason of the event plus such additional time as may be needed to overcome the effect of the event. If acts or omissions of the Buyer or its contractors or suppliers cause the delay, Seller shall also be entitled to an equitable price adjustment.

11. Termination and Suspension

11.1 Buyer may terminate the Contract (or the portion affected) for cause if Seller (i) becomes Insolvent/Bankrupt, or (ii) commits a material breach of the Contract which does not otherwise have a specified contractual remedy, provided that: (a) Buyer shall first provide Seller with detailed written notice of the breach and of Buyer's intention to terminate the Contract, and (b) Seller shall have failed, within 30 days after receipt of the notice, to commence and diligently pursue cure of the breach.

11.2 If Buyer terminates the Contract pursuant to Section 11.1, (i) Seller shall reimburse Buyer the difference between that portion of the Contract Price allocable to the terminated scope and the actual amounts reasonably incurred by Buyer to complete that scope, and (ii) Buyer shall pay to Seller (a) the portion of the Contract Price allocable to Products and/or Services completed, (b) lease fees incurred, and (c) amounts for Services performed before the effective date of termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set forth in the Contract (for work toward milestones not yet achieved and where there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at Seller's then-current standard time and material rates.

11.3 Seller may suspend or terminate the Contract (or any affected portion thereof) immediately for cause if Buyer (i) becomes Insolvent/Bankrupt, or (ii) materially breaches the Contract, including, but not limited to, failure or delay in Buyer providing Payment Security, making any payment when due, or fulfilling any payment conditions.

11.4 If the Contract (or any portion thereof) is terminated for any reason other than Seller's default under Section 11.1, Buyer shall pay Seller for all Products completed, lease fees incurred and Services performed before the effective date of termination, plus expenses reasonably incurred by Seller in connection with the termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set forth in the Contract (for work toward milestones not yet achieved and where there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at Seller's then-current standard time and material rates. All work in progress shall be paid for at Seller's standard time and material rates. In addition, Buyer shall pay Seller a cancellation charge equal to 80% of the Contract Price applicable to uncompleted made-to-order Products and/or Services and 15% of the Contract Price applicable to all other uncompleted Products and/or Services.

11.5 Either Buyer or Seller may terminate the Contract (or the portion affected) upon twenty (20) days advance notice if there is an excusable event (as described in Article 10) lasting longer than one hundred and twenty (120) days. In such case, Buyer shall pay to Seller amounts payable under Section 11.4, excluding the cancellation charge for uncompleted Products and/or Services.

11.6 Buyer shall pay all reasonable expenses incurred by Seller in connection with a suspension, including, but not limited to, expenses for repossession, fee collection, demobilization/remobilization, and costs of storage during suspension. The schedule for Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of any suspension.

12. Compliance with Laws, Codes and Standards

12.1 Seller shall comply with laws applicable to the manufacture of Products and its performance of Services. Buyer shall comply with laws applicable to the application, operation, use and disposal of the Products and Services.

12.2 Seller's obligations are conditioned upon Buyer's compliance with all U.S., EU and other applicable trade control laws and regulations. Buyer shall not trans-ship, re-export, divert or direct or otherwise make or allow any disposition of Products other than in and to the ultimate country of destination declared by Buyer and specified as the country of ultimate destination on Seller's invoice. Buyer hereby

certifies that the equipment, materials, services, technical data, software or other information or assistance furnished by Seller under this Contract will not be used in the design, development, production, stockpiling or use of chemical, biological, or nuclear weapons either by Buyer or by any entity acting on Buyer's behalf.

12.3 Notwithstanding any other provision, Buyer shall timely obtain, effectuate and maintain in force any required permit, license, exemption, filing, registration and other authorization, including, but not limited to, building and environmental permits, import licenses, environmental impact assessments, and foreign exchange authorizations, required for the lawful performance of Services at the Site or fulfillment of Buyer's obligations, except that Seller shall obtain any license or registration necessary for Seller to generally conduct business and visas or work permits, if any, necessary for Seller's personnel. Buyer shall provide reasonable assistance to Seller in obtaining such visas and work permits.

13. Environmental, Health and Safety Matters

13.1 Buyer shall maintain safe working conditions at the Site, including, without limitation, implementing appropriate procedures regarding Hazardous Materials, confined space entry, and energization and de-energization of power systems (electrical, mechanical and hydraulic) using safe and effective lock-out/tag-out ("LOTO") procedures including physical LOTO or a mutually agreed upon alternative method.

13.2 Buyer shall timely advise Seller in writing of all applicable Site-specific health, safety, security and environmental requirements and procedures. Without limiting Buyer's responsibilities under Article 13, Seller has the right but not the obligation to, from time to time, review and inspect applicable health, safety, security and environmental documentation, procedures and conditions at the Site.

13.3 If, in Seller's reasonable opinion, the health, safety, or security of personnel or the Site is, or is apt to be, imperiled by security risks, terrorist acts or threats, the presence of or threat of exposure to Hazardous Materials, or unsafe working conditions, Seller may, in addition to other rights or remedies available to it, evacuate some or all of its personnel from Site, suspend performance of all or any part of the Contract, and/or remotely perform or supervise work. Any such occurrence shall be considered an excusable event. Buyer shall reasonably assist in any such evacuation.

13.4 Operation of Buyer's equipment is the responsibility of Buyer. Buyer shall not require or permit Seller's personnel to operate Buyer's equipment at Site.

13.5 Buyer will make its Site medical facilities and resources available to Seller personnel who need medical attention.

13.6 Seller has no responsibility or liability for the pre-existing condition of Buyer's equipment or the Site. Prior to Seller starting any work at Site, Buyer will provide documentation that identifies the presence and condition of any Hazardous Materials existing in or about Buyer's equipment or the Site that Seller may encounter while performing under this Contract. Buyer shall disclose to Seller industrial hygiene and environmental monitoring data regarding conditions that may affect Seller's work or personnel at the Site. Buyer shall keep Seller informed of changes in any such conditions.

13.7 Seller shall notify Buyer if Seller becomes aware of: (i) conditions at the Site differing materially from those disclosed by Buyer, or (ii) previously unknown physical conditions at Site differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract. If any such conditions cause an increase in Seller's cost of, or the time required for, performance of any part of the work under the Contract, an equitable adjustment in price and schedule shall be made.

13.8 If Seller encounters Hazardous Materials in Buyer's equipment or at the Site that require special handling or disposal, Seller is not obligated to continue work affected by the hazardous conditions. In such an event, Buyer shall eliminate the hazardous conditions in accordance with applicable laws and regulations so that Seller's work under the Contract may safely proceed, and Seller shall be entitled to an equitable adjustment of the price and schedule to compensate for any increase in Seller's cost of, or time required for, performance of any part of the work. Buyer shall properly store, transport and dispose of all Hazardous Materials introduced, produced or generated in the course of Seller's work at the Site.

13.9 Buyer shall indemnify Seller for any and all claims, damages, losses, and expenses arising out of or relating to any Hazardous Materials which are or were (i) present in or about Buyer's equipment or the Site prior to the commencement of Seller's work, (ii) improperly handled or disposed of by Buyer or Buyer's employees, agents, contractors or subcontractors, or (iii) brought, generated, produced or released on Site by parties other than Seller.

14. Changes

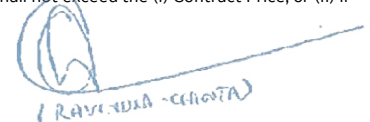
14.1 Each party may at any time propose changes in the schedule or scope of Products and/or Services. Seller is not obligated to proceed with any change until both parties agree upon such change in writing. The written change documentation will describe the changes in scope and schedule, and the resulting changes in price and other provisions, as agreed.

14.2 The scope, Contract Price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's Site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or regulations. Unless otherwise agreed by the parties, pricing for additional work arising from such changes shall be at Seller's time and material rates.

14.3 It shall be acceptable and not considered a change if Seller delivers a Product that bears a different, superseding or new part or version number compared to the part or version number listed in the Contract.

15. Limitations of Liability

15.1 To the maximum extent permitted by applicable law, the total liability of Seller for all claims arising from or related to the formation, performance or breach of this Contract, or provision of any Products and/or Services, shall not exceed the (i) Contract Price, or (ii) if



(RAVENHILL - CHOSTA)

Buyer places multiple order(s) under the Contract, the price of each particular order for all claims arising from or related to that order and ten thousand USD (US \$10,000) for all claims not part of any particular order.

15.2 Seller shall not be liable for loss of profit or revenues, loss of use of equipment or systems, interruption of business, cost of replacement power, cost of capital, downtime costs, increased operating costs, any special, consequential, incidental, indirect, or punitive damages, or claims of Buyer's customers for any of the foregoing types of damages, or for any cost, loss or liability Buyer may suffer under any agreement by which it sells or transmits electricity to its customer(s) or third parties.

15.3 All Seller liability shall end upon expiration of the applicable warranty period, provided that Buyer may continue to enforce a claim for which it has given notice prior to that date by commencing an action or arbitration, as applicable under this Contract, before expiration of any statute of limitations or other legal time limitation but in no event later than one year after expiration of such warranty period.

15.4 Seller shall not be liable for advice or assistance that is not required for the work scope under this Contract.

15.5 Buyer will not supply Products and/or Services to any third party, or use Products and/or Services other than at the Site owned by Buyer. In case of non-compliance, Buyer shall (i) indemnify and defend Seller from and against any and all claims by, and liability to, any third party to whom Products and/or Services are supplied, and (ii) require that the third party agree, for the benefit of and enforceable by Seller, to be bound by the provisions of Article 7 and all the limitations included in this Article 15.

15.6 For purposes of this Article 15, the term "Seller" means Seller, its affiliates, subcontractors and suppliers of any tier, and their respective employees. The limitations in this Article 15 shall apply regardless of whether a claim is based in contract, negligence, statute, indemnity, tortious/extra-contractual liability theory, strict liability or otherwise.

16. Governing Law and Dispute Resolution

16.1 This Contract shall be governed by and construed in accordance with the laws of (i) the State of New York if Buyer's place of business is in the U.S. or (ii) England and Wales, if the Buyer's place of business is outside the U.S., in either case without giving effect to any choice of law rules that would cause the application of laws of any other jurisdiction (the "Governing Law").

16.2 All disputes and, to the maximum extent permitted by applicable law, all non-contractual obligations arising in any way whatsoever out of or in connection with this Contract arising in connection with this Contract, including any question regarding its existence or validity, shall be resolved in accordance with this Article 16. If a dispute is not resolved by negotiations, either party may, by giving written notice, refer the dispute to a meeting of appropriate higher management, to be held within twenty (20) business days after the giving of notice. If the dispute is not resolved within thirty (30) business days after the giving of notice, or such later date as may be mutually agreed, either party may commence arbitration or court proceedings, depending upon the location of the Buyer, in accordance with one of the following:

(a) if the Buyer's pertinent place of business is in the U.S., legal action shall be commenced in federal court with jurisdiction applicable to, or state court located in, either New York, New York (and Buyer hereby consents to be subject to such New York federal and state jurisdiction) or the location of Buyer's principal place of business; or

(b) if the Buyer's pertinent place of business is outside the U.S., the dispute shall be submitted to and finally resolved under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules (the "Rules"). The seat of arbitration shall be in London, England. The arbitration shall be conducted in English. The decision of the arbitrators shall be final and binding upon the parties.

16.3 Notwithstanding the foregoing, each party shall have the right at any time, at its option and where legally available, to commence an action or proceeding in a court of competent jurisdiction, subject to the terms of this Contract, to seek a restraining order, injunction, or similar order (but not monetary damages), or to seek interim or conservatory measures.

17. Inspection and Factory Tests

Seller will apply its normal quality control procedures in manufacturing Products. Seller shall attempt to accommodate requests by Buyer to witness Seller's factory tests of Products, subject to appropriate access restrictions, if such witnessing can be arranged without delaying the work.

18. Software, Leased Equipment, Remote Diagnostic Services, PCB Services

If Seller provides any software to Buyer, the Software License Addendum shall apply. If Seller leases any of Seller's equipment or provides related Services to Buyer, including placing Seller's equipment at Buyer's site to provide remote Services, the Lease Addendum shall apply. If Seller provides remote diagnostic services to Buyer, the Remote Diagnostic Services Addendum shall apply. If Seller provides PCB Services to Buyer, the PCB Services Addendum shall apply. If there is any conflict between these Products and/or Services Terms and Conditions" and the terms of any addendum incorporated pursuant to this Article 18, the terms of the addendum shall take precedence with respect to the applicable scope.

19. General Clauses

19.1 Products and Services sold by Seller are not intended, in whole or in part, for application (and will not be used) in connection with or nearby any nuclear facility or activity, and Buyer warrants that it shall not use or permit others to use Products and/or Services for any such purposes, without the advance written consent of Seller.

19.2 Seller may assign or novate its rights and obligations under the Contract, in whole or in part, to any of its affiliates or may assign any of its accounts receivable under this Contract to any party without Buyer's consent. Buyer agrees to execute any documents that may be necessary to complete Seller's assignment or novation. Seller may subcontract portions of the work, so long as Seller remains responsible for it. The delegation or assignment by Buyer of any or all of its rights or obligations under the Contract without Seller's prior written consent (which consent shall not be unreasonably withheld) shall be void.

19.3 Buyer shall notify Seller immediately upon any change in ownership of more than fifty percent (50%) of Buyer's voting rights or of any controlling interest in Buyer. If Buyer fails to do so or Seller objects to the change, Seller may (a) terminate the Contract, (b) require Buyer to provide adequate assurance of performance (including but not limited to payment), and/or (c) put in place special controls regarding Seller's Confidential Information.

19.4 If any Contract provision is found to be void or unenforceable, the remainder of the Contract shall not be affected. The parties will endeavor to replace any such void or unenforceable provision with a new provision that achieves substantially the same practical and economic effect and is valid and enforceable.

19.5 The following Articles shall survive termination or cancellation of the Contract: 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 16, 18, 19 and 20.

19.6 The Contract represents the entire agreement between the parties. No oral or written representation or warranty not contained in this Contract shall be binding on either party. Buyer's and Seller's rights, remedies and obligations arising from or related to Products and/or Services sold under this Contract are limited to the rights, remedies and obligations stated in this Contract. No modification, amendment, rescission or waiver shall be binding on either party unless agreed in writing.

19.7 Except as provided in Article 15 (Limitations of Liability), this Contract is only for the benefit of the parties and not for any third parties.

19.8 This Contract may be signed in multiple counterparts that together shall constitute one agreement.

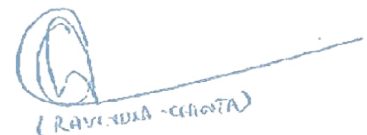
20. U.S. Government Contracts

20.1 This Article 20 applies only if the Contract is for the direct or indirect sale to any agency of the U.S. government and/or is funded in whole or in part by any agency of the U.S. government.

20.2 Buyer agrees that all Products and/or Services provided by Seller meet the definition of "commercial-off-the-shelf" ("COTS") or "commercial item" as those terms are defined in Federal Acquisition Regulation ("FAR") 2.101. To the extent the Buy American Act, Trade Agreements Act, or other domestic preference requirements are applicable to this Contract, the country of origin of Products is unknown unless otherwise specifically stated by Seller in this Contract. Buyer agrees any Services offered by Seller are exempt from the Service Contract Act of 1965 (FAR 52.222-41). Buyer represents and agrees that this Contract is not funded in whole or in part by American Recovery Reinvestment Act funds unless otherwise specifically stated in the Contract. The version of any applicable FAR clause listed in this Article 20 shall be the one in effect on the effective date of this Contract.

20.3 If Buyer is an agency of the U.S. Government, then as permitted by FAR 12.302, Buyer agrees that all paragraphs of FAR 52.212-4 (except those listed in 12.302(b)) are replaced with these Terms and Conditions. Buyer further agrees the subparagraphs of FAR 52.212-5 apply only to the extent applicable for sale of COTS and/or commercial items and as appropriate for the Contract Price.

20.4 If Buyer is procuring the Products and/or Services as a contractor, or subcontractor at any tier, on behalf of any agency of the U.S. Government, then Buyer agrees that FAR 52.212-5(e) or 52.244-6 (whichever is applicable) applies only to the extent applicable for sale of COTS and/or commercial items and as appropriate for the Contract Price.



A handwritten signature in blue ink, followed by a circular stamp containing the text "(RAVATIA - CHISTIA)".

**Annexure-21: Status of compliance of directive
by Commission w.r.t 2nd quarter for FY 2023-24**



ASSAM POWER GENERATION CORPORATION LIMITED

(A Govt. of Assam Undertaking)

No. APGCL/CGM (G)/AERC/2022/115/Pt-XII/ 72

Date: 17.11.2023

To,
The Secretary,
Assam Electricity Regulatory Commission,
ASEB Campus, Dwarandhar,
G. S. Road, Six Mile, Guwahati – 781022

Sub: Status Report for the 2nd Quarter of FY 2023-24 on compliance of the Directives of AERC issued in the Tariff Order dated 29-03-2023.

Sir,

With reference to the above, please find enclosed herewith the Status Report for the 2nd Quarter of FY 2023-24 on compliance of the Directives of Hon'ble Commission, issued in the Tariff Order dated 29-03-2023 for favour of your information and necessary action.

Yours faithfully,

(B. Bhuyan)
Managing Director, APGCL

Enclosure: As stated above

CC:

- 1) The Chief General Manager (Gen.), APGCL, Bijulee Bhawan: for favour of information.

Compliance of Directives issued in the Tariff Order for 2023-24		
Sl. No:	AERC's Directive	Status as on 30 th September, 2023
1	<p>Directive 1: Completion of Projects</p> <p>The Commission directs APGCL to complete the new and ongoing projects on time.</p> <p>The Commission also directs APGCL to set up their ongoing Solar Plants on Time.</p>	Noted. The status of ongoing projects is enclosed in Annexure-I .
2	<p>Directive 2: Procurement of Gas</p> <p>APGCL should continue to pursue with its gas suppliers/ transporter to obtain the contracted quantum of gas on a regular basis. The issue of gas should be pursued with the concerned ministry of GOI in consultation with the state Government.</p>	Correspondence with OIL (Oil India Ltd.) regarding the supply of contracted quantity as well as supply of additional gas for the new Projects has been made and requested to forward the proposal to MoPNG (Ministry of Petroleum and Natural Gas) for allocation etc. The copy of the letter is also marked to GoA (Govt. of Assam) and the same is enclosed at Annexure-II .
3	<p>Directive 3: Fixed Asset Register</p> <p>The Commission directs APGCL that Fixed Asset Register should be updated every year, and these should be duly certified by Chartered Accountant. APGCL is directed to maintain Fixed Asset Register at their end and submit to the Commission as and when asked during tariff proceedings.</p>	APGCL updates its FAR regularly and is ready to submit to the Hon'ble Commission whenever asked for.
4	<p>Directive 4: Energy Audit of LTPS and NTPS</p> <p>The Commission directs APGCL to conduct an energy Audit of LTPS and NTPS with the help of NIT Silchar.</p>	<p>Noted. A report was submitted along with 1st Quarter compliance of directives for FY 2022-23 as per the directives of the Hon'ble Commission which was submitted vide letter No. APGCL/CGM(G)/AERC/2020/115/Pt-XII/17 Dated 15/07/2022 and the same is again enclosed at Annexure-III.</p> <p>This was also noted by the Hon'ble commission in the minutes of the Monitoring committee meeting held on 19th July.2022.</p>

5	<p>Directive 5: Overhauling of Units</p> <p>Commission observes that the Overhauling of units are never completed on time as proposed by APGCL. The Commission directs APGCL to complete the overhauling of units as per scheduled otherwise the Commission may not allow the expenditure in future.</p>	<p>Noted. APGCL is putting all-out effort to complete the Special R&M works within the stipulated time period. The status of the same is enclosed at Annexure-IV. However, the overhauling is dependent on factors like Running hours, Commercial availability of parts of machinery etc., so sometimes it may differ from the stipulated time frame. APGCL has submitted the details justification of overhauling period to Hon'ble commission vide letter no. APGCL/CGM(G)/AERC/2022/115/Pt-XII/71 dated 06.11. 2023. Moreover, for hydro power plant, the time required to complete the overhauling of units from different utilities are annexed at Annexure-V.</p>
6	<p>Directives 6: Solar Storage/ Pump Storage</p> <p>The Commission directs APGCL to initiate action for installation of solar/pump storage facilities to suit the demand</p>	<p>APGCL has floated a tender of engagement of consultant for preparation of PFR (Pre-feasibility Report) and DPR of pump storage projects in Assam.</p>
7	<p>Directive 7: Board approval of Special R&M/Capital Projects/Schemes/Works</p> <p>The commission directs APGCL to submit approval of the board or any other competent authority for all Special R&M/ Capital Projects/Schemes/Works proposed to be undertaken by the petitioner. The commission also directs APGCL to approach the commission separately for its projects which were not included in the capital investment plan approved in the MYT order.</p>	<p>Noted. New Special R&M/ Capital Projects/Schemes/Works proposed will submit to the Hon'ble commission in the tariff petition for Revised ARR & determination of tariff for FY 2024-25.</p>

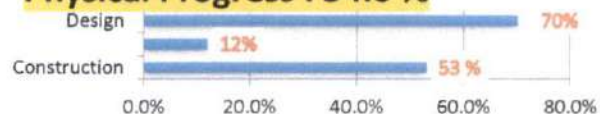


ASSAM POWER GENERATION
CORPORATION LIMITED

Physical and Financial Progress of 120 MW LKHEP

PACKAGE NAME	EXECUTING AGENCY	PACKAGE VALUE (INR CR)	PHY PROGRESS (%)	FIN PROGRESS (IN CR, %)
Pkg-1	BVG India Ltd.	29.55	14.3 %	3.8 %
Pkg-2	L&T Ltd.	1163	52.5 %	37.6 %
Pkg-3	Andritz Hydro Ltd.	306.70	41 %	12.2 %
Pkg-4	Salasar Techno Engg Ltd.	60.71	49.9 %	46.5 %
Pkg-5	AF Consultant.	58	81.3 %	80 %
Pkg-6	Feedback Infra (Ext. Monitoring)	13	51.7 %	51.7 %
Pkg-7	Accenture, CtrlS, Interlace & Airtel	42.20	64 %	53.7 %
R&R, Forest, Contingency & Misc.	--	454	65.5 %	65.5 %

Physical Progress : 54.0 %



* Financial Progress : 41.23 %



■ Expenditure Incurred : 877.16 Cr
■ INR
■ Under Process : 47.85 Cr

* Financial Progress is excluding Mob Advances paid. 156.6 Cr to Pkg-1,2,3,4,5. Re-imbursement is : \$100.75 million. Pending ~ \$5 million



ASSAM POWER GENERATION
CORPORATION LIMITED

Karbi Langpi Middle-II Hydro Power Project

PROJECT FACTS

Project Budget*	Rs. 417.32 Cr
Base Start Date	1 st Dec'2023 (Targeted)
Base End Date	30 th Nov' 2026 (Targeted)
Actual Start Date	Zero date will start from land acquisition date
Executing Agency	APGCL
Installed capacity	24 MW (3 x 8 MW)
Land requirement	22.66 Hectares
Location	West Karbi Anglong
Type	Run of the river
Total unit generation	112.30 MU
Completion time	36 months

* Cabinet approved the DPR for Rs 300 crore earlier. Increase is due to evacuation of power and increase in land compensation. **Revised Cabinet Memorandum will be submitted shortly.**

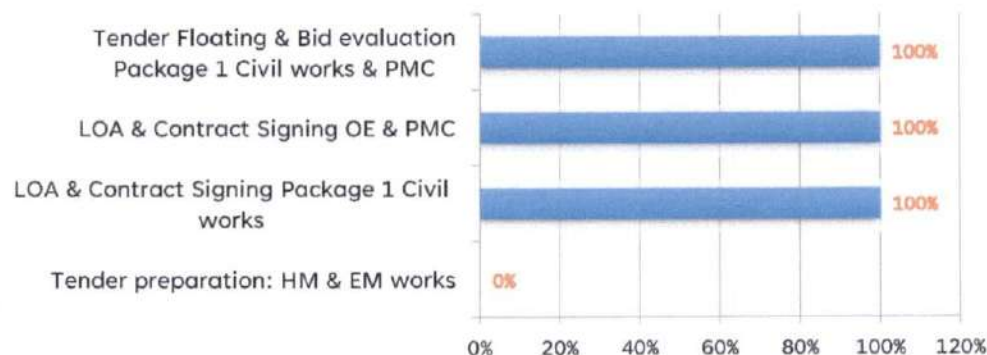
SUMMARY OF BALANCE WORKS -TENDER

LoA for OE&PMC issued on 18.07.2022 and signing of Contract Agreement carried out on 02.11.2022. with M/s. Tractebel Engg. Pvt. Ltd. Mobilization advance of Rs. 1.12 Cr. was paid on 09.02.2023.

LoA issued to M/s. Varks Engineers Pvt. Ltd. and signing of Contract Agreement was carried out on 10.03.2023. Mobilisation advance to be paid

Tender for HM & EM works Target: September' 2023.

TENDER PROGRESS





ASSAM POWER GENERATION
CORPORATION LIMITED

Project Status:

- ☐ Fund of Rs. 49 Cr is required from Govt. of Assam to start the project in this year. This is to be taken up under SD proposal of **Rs. 49.09 Cr.** for FY 2023-24 . This is required for land compensation and basic infrastructure cost.
- ☐ 2 nos. contract packages awarded but unable to proceed at site due to non-payment of land compensation to the project affected families.
- ☐ PWD Road from Amtereng to Rongjangphong has been in progress (11 km out of 23 km completed)
- ☐ For debt funding, 5(Five) Financial Institutions have participated against the EoI floated by APGCL On 03.08.2023. Amongst the participants, SBI quoted Lowest **Rate of Interest @ 8.25 % P.A.** and agreed for entire Project Finance.
- ☐ **No statutory approval pending.**
- ☐ **NPV of the project (@8.25% PA & equity by state):**



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam
CIN: U40101AS2003SGC007239
Tele: 0361-2739 546/502, FAX: 0361-2739 546/22
Website: www.apgcl.org

Annexure-II

No. APGCL/CGM(G)/Natural Gas/2016-17/128

Date: 08.08.2023

To,
The Resident Chief Engineer
Oil India Limited
Duliajan, Assam

Sub: Requirement of additional Gas for NRPP Phase-II (100 MW), Gas Engine Based Power Project (100 MW) in Namrup and for Existing LTPS and LRPP.

Ref: Your Letter No. RCE:03-221 Dtd. 13.07.2021

Dear Sir,

Kindly refer to the subject of your letter RCE:03-221, dated 13.07.2021 for allocation of additional gas to APGCL.

We would like to highlight the following regarding the additional gas requirement.

Sl. No.	Name Of the Plant	Contracted Gas (MMSCMD)	Additional Gas requirement (MMSCMD)	Remarks
1	NTPS/LRPP	0.66	0.84	For One unit of 100 MW Gas Turbine and One Unit of 100 MW Gas Engine
2	LTPS/LRPP	0.50	0.20	Existing plants are having Shortage of gas supply of 0.2 MMSCMD from ONGC fields through GAIL
Additional Gas Requirement			1.04	

1. APGCL has planned to install a new gas turbine along with a Gas Engine Project of capacity 100 MW each and for this arrangement an additional 0.84 MMSCMD gas will be required over and above the present commitment of 0.66 MMSCMD. With this additional quantity total commitment from OIL against NTPS will be 1.15 MMSCMD.

2. I may bring to your kind notice that, LTPS is suffering from short supply of gas for a quantum of 0.2 MMSCMD for last couple of years resulting in partial loading and forced shutdown of the units of LTPS.



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3. Considering the above, an increment of gas quantity of 0.20 MMSCMD will enable to generate at full load in both LTPS and LRRP thereby reaching the generation at optimum level.

In view of the above, it is kindly requested that your good office may forward the proposal to the Ministry of Petroleum and Natural Gas (MoPNG), GOI for allotment of the 1.04 MMSCMD gas at APM price to APGCL to facilitate maximum generation at competitive cost in the state of Assam.

Yours faithfully,

(B. Bhuyan)

Managing Director, APGCL

E-mail: bibhu.bhuyan@apgcl.org

Mob: 8638351532

Copy To :

1. P.S to The Principal Secretary, GoA, Power Department, Dispur-for favour of his kind perusal.
2. P.S. to the Chairman, APGCL, for favour of kind information.
3. The CGM(GMS), OIL India Limited, Duliajan, for favour of kind information.
4. R/F

A brief Analysis of the Auxiliary Power Consumption of LTPS as per the Report Submitted by the BEE Empaneled Energy Auditor and the Auxiliary Power Consumption of NTPS

1. Lakwa Thermal Power Station (LTPS)

The BEE empanelled Energy Auditor M/s Energy Consultancy Services (ECS), Bhubaneswar conducted the Energy Audit of LTPS in February 22 as per the Mandatory Energy Audit requirement by BEE. APGCL also obtained a separate Auxiliary Power Consumption (APC) Report along with the main Mandatory Energy Audit Report from ECS (**Annex-A**). The analysis was done with 2 nos of GT at running condition as the third gas compressor was under maintenance and the 3rd GT of LTPS was not in running condition. The Table below shows the breakup of the total APC of LTPS based on the data collected by the energy auditor.

Table-1: APC of LTPS with 2 GTs as per the Actual Operational Data Collected by Energy Auditor

Particulars	Designed/ Name Plate Data with 2 GTs	Measured With 2 GTs
Total Power Consumed by Gas Compressors in 24 HRS (MWH)	67.416	62.087
Total Unit Auxiliary Power Consumed in 24 HRS excluding GCs (MWH)	51.584	56.913
Total Unit Auxiliary Power Consumed in 24 HRS (MWH)		119
Power Generated in 24 HRS (MWH)		1395
Unit Auxiliary Power Consumption%		8.6%
Power Consumption by GCs%		4.5%
Contribution of GC to Total Auxiliary Consumption%		52.2%

As the ratings of the three Gas Compressors are identical, APGCL has calculated the approximate APC with three GCs and Three GTs in operation as given in the Table below:

Table-2: APC of LTPS with 3 GTs as per calculation

Particulars	Calculated With 3 GTs
Total Power Consumed by Gas Compressors in 24 HRS (MWH)	
Total Unit Auxiliary Power Consumed in 24 HRS excluding GCs (MWH)	70.370
Total Unit Auxiliary Power Consumed in 24 HRS (MWH)	164
Power Generated in 24 HRS (MWH)	2160

Unit Auxiliary Power Consumption%	7.6%
Power Consumption by GCs%	4.3%
Contribution of GC to Total Auxiliary Consumption%	57.0%

From the above two tables it can be seen that with actual data, the APC of LTPS is 8.6% with 2 GTs in operation and with calculated data APC of LTPS is 7.6%. The gas compressors contribute between 52% - 57% to this APC.

Now, had there been gas compressors with modern technology and lower power consumptions at LTPS, these compressors could have operated at 2.5% APC as per the norms for power consumption by gas compressors. The approximate calculated APC of LTPS considering 2.5% contribution by gas compressors to the Unit APC with 2 GTs as per measured data and 3 GTs as per calculated data is given in the table below:

Table-3: APC of LTPS considering 2.5% normative Power Consumption by Compressors

Particulars	Measured With 2 GTs	Calculated With 3 GTs
Unit Auxiliary Power Consumption excluding GCs%	4.1%	3.3%
Avg. Transformer Loss%	0.1%	0.1%
Normative GC%	2.5%	2.5%
Total Auxiliary Consumption with Normative GC (%)	6.7%	5.9%

From the above table, it can be seen that with 2.5% normative power consumption by Gas Compressors the APC of LTPS can be as low as 6.7% with two GTs and 5.9% with 3 GTs. There are other factors contributing to the APC of LTPS too, like part load operation, older auxiliaries etc. Further, it can also be mentioned that due to the lower capacity of the GTs of LTPS, its LTPS looks higher in percentage while comparing with turbines of higher capacities like 50 MWs or 100s of MWs etc. due to scalability of operations. This factor perhaps may also be kept in mind while analyzing the APC of LTPS.

In view of the above, it is felt that the APC of LTPS is within its operating conditions.

2. Namrup Thermal Power Station (NTPS):

The APC of NTPS for the FY 2021-22 and from Apr'22 - Jun'22 is given in the table below:

Table-4: APC of NTPS

Particulars	FY 2021-22	Apr'22-Jun'22
APC of NTPS (%)	5.7%	4.9%

From the above table it can be seen that APC of NTPS is nominally higher than the approved APC of 4.5%. However, the average monthly variation of this APC is between 4.27% to 7.90%. This variation is mainly due to the part loading of the units of NTPS. In view of this, it is felt that the APC of NTPS is within operating conditions.

**A Detail Report On Auxiliary Power
Consumed By Gas Compressor in
Combined Cycle Gas Turbine of
**Lakwa Thermal Power station
(APGCL)****

Charaideo, Maibela, Assam



Submitted By



ENERGY CONSULTANCY SERVICES

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LTPS is a unit of Assam Power Generation Corporation Ltd (APGCL). In 2004, APGCL came in existence after reform in power sector under electricity act 2003. Prior to this reform in power sector, generation, transmission and distribution of power was solely managed by Assam State Electricity Board (ASEB). But in due course of time as demand of electricity increased substantially in the State of Assam, ASEB was unbundled to diversify the management of board into three distinct sectors i.e. APGCL (generation), AEGCL (Transmission) & APDCL (distribution). One of the main reason for this unbundling was to improve the quality of service to the consumers and also to extend the supply of electricity to the for flung areas of Assam, which are still devoid of electricity power.

Foundation of Lakwa Thermal Power Station (LTPS) at Maibella was laid down in the district of Charaideo, Assam, on May 22, 1978 for installation and commission of 3X15 MW Gas Turbine under Phase-I program. LTPS was dedicated to nation with the commissioning of three gas turbine of total capacity 45 MW in 1981. The Gas turbines was supplied by Westinghouse Canada Ltd Canada, and M/S ONGC had agreed to supply natural gas to LTPS for generation of power. Fourth Gas turbine of same capacity was commissioned in 1986 and it was supplied by Mitsubishi Heavy Industries Japan after commitment of 0.17 MMSCMD additional gas supply from M/s ONGC was received.

LTPS further enhance their generation capacity by installing three additional BHEL/GE Gas Turbine Units of capacity 20 MW each in 1994 under APGCL program Phase II.. Later on, BHEL commissioned the waste heat recovery boiler (HRSG) and steam turbine of capacity 1X37.2 MW, by converting open cycle system to closed cycle system in 2012.

LTPS had always tried to perform well and outshine as a leading gas based power generation station in North East. In this endeavor to move ahead in time and improve itself, LTPS had successfully completed the installation and commissioning of a 69.755 MW (7X9.965 MW) Gas Engine based power plant in April 2018 under APGCL project LRPP (Lakwa Replacement Power Plant). This project was completed through an EPC contract between APGCL and M/S Wartsila Finland OY jointly with M/S Wartsila India Pvt Ltd which is a replacement of the old Phase -I power house of LTPS. This is a step towards incorporating newer state of the art of technology and thereby moving ahead towards a better future.

LTPS pride themselves with operating almost 23 years old Gas Turbine successfully and commissioning of state of art new technology based gas engine

LTPS is equipped with a wealth of construction and operations experience, and their human resource is committed to harness the huge power potential of the country with minimal impact on the environment.

The LTPS Project is fueled by Natural Gas from M/S GAIL & M/S Assam Gas Company Ltd (AGCL). The gas from the M/S OIL's off take point is transported through a pipeline laid, owned and maintained by M/S Assam Gas Company Ltd. The gas received at the Project, being at low pressure (4 - 5 kg/cm²), is compressed to desire pressure for two different consumers i.e. Phase-II Gas Turbines and LRPP Gas Engines. LTPS has three GTs, three waste heat recovery boiler, One STG and seven numbers Gas Engine of total capacity.

In Phase-II unit, Natural Gas is used as the main fuel. Gas turbine cycle comprises of Gas turbine, compressor and combustor. The compressor is the location where the air is decreased in volume and increased in pressure. Compressors come in several forms and use different methods to achieve compression. However, most industrial gas turbine uses an axial compressor. The term 'axial' is given to this type of compressor because in general air flows from the inlet to the outlet parallel to the compressor longitudinal axis. An advantage of this type of compressor is its continuous flow. This compressed air is sent for combustion with fuel in combustion chamber. The combusted flue gas is allowed to expand through a gas turbine, where the work is done by the gas turbine which is coupled with generator to generate electricity. The flue gas exits the gas turbine at a very high temperature. This high temperature flue gas is passed through Waste Heat Recovery Steam Generators (HRSG) where the heat is utilized to generate steam. This steam is used to generate power through steam cycle in a steam turbine.

PHASE II POWER GENERATION PROCESS DESCRIPTION

Gas Compressor Section

Natural gas is received from AGCL & GAIL at 3 - 6 kg/ cm² g and compressed it to 18 kg/cm² g in gas compressor station and fed to GTs.

Specifications Gas compressors-

Gas Compressor #6, #7, #8

Description	Value
Motor rating	1375 KW
Gas Compressor Type	4RDS2. Reciprocating
Gas Compressor Capacity	0.207mmscmd

Gas Compressor #9

Description	Value
Motor rating	1050 KW
Gas Compressor Type	4RDS2. Reciprocating
Gas Compressor Capacity	0.28mmscmd

Operation-

The natural gas is compressed in two stages. At first, in 1st stage cylinder, gas is compressed to 5 kg/cm² g, and then enters into the 2nd stage cylinder, where the it compressed to 18 kg/cm² g.

Gas Turbine Generator.

In a gas turbine generator (GTG), fresh air is compressed at about 7- 9 kg/ cm² g and mixes compressed NG in combustion chamber. Mixture of fuel & air is burnt in combustion chamber. Internal energy is converted into thermal energy in combustion chamber. A very high temperature & high pressure of flue gas moves through the gas turbine blades make them spin. The fast-spinning turbine drives a generator that converts kinetic energy into electricity.

Heat recovery steam generator.

Flue gas temperature after Gas Turbine remains very high (above 550⁰ C) and contains large amount of thermal energy. Waste heat recovery steam generator (HRSG) captured thermal energy from flue gas that would otherwise escape through the exhaust stack.

HRSG is source of superheated High Pressure & Low Pressure steam. Condensate from condenser & make DM water pass through economizer installed in HRSG and then superheated HP & LP steam generates. Both HP & LP steam send to STG.

Steam turbine.

STG is dual cycle steam turbine, HP & LP. LP & HP super heated steams from HRSG enter into Steam Turbine Generator (STG), where kinetic energy of steam converted to mechanical energy and finally converted in electrical energy. Exhaust of steam from STG is condensed in condenser and condensate sends back to boiler.

Power generated by GTGs and STGs is exported to grid.

Cooling tower

Cooling water is supplied to plant from Cooling Tower. The cooling tower is induced draught type, having nozzles to spray hot water coming out from condenser and coolers into the fill packs and drift eliminator to reduce the drift losses. The induced draught is created by electrical motor driven fan attached with gear reducer.

SL No	DESIGNED DATA / NAME PLATE DATA	MEASURED DATA
1	GAS COMPRESSOR UNIT #7, 1375KW, 3.3kV	1298.76 KW
2	WATER PUMP MOTOR FOR GC#7, 7.5KW, 415V	4.43 KW
3	COOLING FAN-1 FOR GC#7, 11KW, 415V	10.57 KW
4	COOLING FAN-2 FOR GC#7, 11KW, 415V	10.66 KW
5	TOTAL POWER CONSUMED BY UNIT #7 = 1404.5 KW	1324.42 KW
6	GAS COMPRESSOR UNIT #8, 1375KW, 3.3kV	1237.48 KW
7	WATER PUMP MOTOR FOR GC#8, 7.5KW, 415V	4.38 KW
8	COOLING FAN-1 FOR GC#8, 11KW, 415V	10.50 KW
9	COOLING FAN-2 FOR GC#8, 11KW, 415V	10.17 KW
10	TOTAL POWER CONSUMED BY UNIT #7 = 1404.5 KW	1262.53 KW
	LOG SHEET DATA	

11	AUXILIARY CONSUMED BY PHASE - II	69 MWH
12	AUXILIARY CONSUMED BY WHRP	50 MWH
13	POWER GENERATION BY 2 NOS OF GT	916 MWH
14	POWER GENERATION BY WHRP (WHEN 2 NOS OF GT ON OPERATION)	479 MWH

Power Consumed by Gas Compressor When 2 Nos of Gas Turbine is in Service (SL NO 5 + 6) As per designed data
= 1404.5 KW + 1404.5 KW
= 2809 KW

Power Consumed by Gas Compressor in 24 Hours When 2 Nos of Gas Turbine is in Service as per designed data
= 2809 KW X 24
= 67416 KWH
= 67.416 MWH

Power Consumed by Gas Compressor When 2 Nos of Gas Turbine is in Service (SL NO 5 + 6) As per Measured data
= 1324.42 KW + 1262.53 KW
= 2586.95 KW

Power Consumed by Gas Compressor in 24 Hours When 2 Nos of Gas Turbine is in Service as per Measured data
= 2586.95 X 24
= 62086.80 KWH
= 62.0868 MWH

AUXILIARY POWER CONSUMED BY GAS COMPRESSOR AS COMPARE TO POWER GENERATION AS PER MEASURED DATA

$$= \frac{\text{AUXILIARY CONSUMED BY PHASE - II} + \text{AUXILIARY CONSUMED BY WHRP}}{\text{POWER GENERATION BY 2 NOS OF GT} + \text{POWER GENERATION BY WHRP (WHEN 2 NOS OF GT ON OPERATION)}} \times 100\%$$

$$= \frac{69+50}{916+479} \times 100\%$$

$$= 8.53\%$$

AUXILIARY POWER CONSUMED BY GAS COMPRESSOR AS COMPARE TO TOTAL AUXILIARY POWER CONSUMPTION, AS PER MEASURED DATA

$$= \frac{\text{Power Consumed by Gas Compressor in 24 Hours When 2 Nos of Gas Turbine is in Service as per Measured data}}{\text{AUXILIARY CONSUMED BY PHASE - II} + \text{AUXILIARY CONSUMED BY WHRP}} \times 100\%$$

$$= \frac{62.0868}{69+50} \times 100\%$$

$$= 52.17\%$$

Certification

This is to declare that,

- a) *The data collection has been carried out diligently and truthfully;*
- b) *All data monitoring devices are in good working condition and have been calibrated or certified by approved agencies authorized and no tempering of such devices has occurred;*
- c) *All reasonable professional skill, care and diligence had been taken in preparing the energy audit report and the content thereof are a true representation of the facts;*
- d) *Adequate training provided to the personals involved in daily operations after implementation of recommendations; and*
- e) *The energy audit has been carried out in accordance with the Bureau of Energy Efficiency (Manner and intervals of time for the conduct of energy audit) Regulations, 2010*

Signature:



Name of the accredited energy auditor : **Amulya Kumar Mohini**

Accreditation details : **AEA-002**

Seal



Updated Status of the Overhauling of Units			
Sl.No.	Name of work	FY 2023-24 Approved by Commission (₹ In Crore)	Status
NTPS			
1	Procurement of Overseas spares for major overhauling of 2 nos. W301 Gas Turbine unit proposed to be carried out in 2023-24 used in GT #2 & #3	1.68	Work is under process. Delay is due to long procurement lead time.
2	Procurement of spares for major overhauling of WHT#6 proposed to be carried out in 2023-24	0.90	PO to be placed shortly. Delay is due to extension in tendering process.
LTPS			
3	Overhauling of LTPS Unit-7	15.00	Overhauling of GT unit#7 started on 12.03.2023 and was completed on 29.05.2023. Delay in overhauling work was due to rectification work of Bleed valve problem, Diesel engine failed to disengage, PMG supply trouble and High vibration in generator rear bearing problem.
4	Major Inspection works of Gas Turbine unit # 5	1.45	Tender under process
5	Overhauling of Generator and Exciter of GT unit # 5	1.00	Tender under process
6	Procurement of spares for Major inspection of Gas Turbine unit # 5.	23.60	Tender under process
KLHEP			
7	Capital Overhauling of 50 MW Francis type Fuji make Generator Turbine Unit-II -KLHEP	27.10	<p>The work was proposed in two FYs. Procurement of spares was proposed in one FY and execution of the work was proposed in the other FY. Accordingly, work was approved in the FY 2020-21 for ₹ 15.10 Cr for procurement of spares and in the FY 2022-23 for ₹ 12.00 Cr for execution of the work.</p> <p>Major Overhauling of Unit-2 was delayed due to a delay in the execution of Major Overhauling of Unit-1 of KLHEP (due to Covid-19 outbreak) and the issue of replacement of the runner of Unit-2. Major Overhauling Work of Unit-2 started on 13.01.2023 and completed on 05.08.2023</p>
8	Replacement of Runner of U#2	8.00	The replacement was done with refurbished runner as the delivery period of a new runner was very high. The refurbished runner for Unit-2 was received at site on 27.12.2022. Major Overhauling Work of Unit-2 started on 13.01.2023 and completed on 05.08.2023 including the work of replacement of the runner.

9	Landslide related works	12.00	The landslide related works of KLHEP is ongoing from FY 2021-22. The Hon'ble Commission has already approved ₹ 3.92 Cr for part completion of this work in the True-up of FY 2021-22 as Special R&M. Now, APGCL is claiming ₹ 4.83 Cr for this work in the True-up of FY 2022-23 as Special R&M. Balance amount will be claimed in the next True-up. Total Estimate for the work was ₹ 12.00 Cr and was submitted in the APR of FY 2021-22 due to emergency nature of the work as Special R&M for KLHEP and was also Considered by the Hon'ble Commission in the APR Order for FY 2021-22
LRPP			
10	36000 Running Hours Turbocharger maintenance	4.58	Work for Units 1,2,3,5,6 & 7 completed. Work for Unit 4 will be completed within the FY 2023-24. Overhauling of GEG#1 (22.04.2022 to 26.04.2022) Overhauling of GEG#2 (06.06.2022 to 12.06.2022) Overhauling of GEG#3 (23.02.2023 to 06.03.2023) Overhauling of GEG#5(16.08.2022 to 28.08.2022) Overhauling of GEG#6 (27.07.2023 to 03.08.2023) Overhauling of GEG#7 (19.09.2022 to 02.10.2022)
11	48,000 Running Hours Turbocharger Maintenance	7.77	PO has been issued to Wartsilla on 17.08.2023. Expected time of completion by March'24
12	Procurement of Special measuring instruments for Electrical Maintenance Works	1.60	Tender already floated, PO will be issued by end of November'23

Table 1: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2023-24

Sl No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Ramganga Power House	1	Hydro	66	16/06/2023	31/01/2024	230
2.	Upper Indravati HEP	4	Hydro	150	20/10/2023	27/05/2023	220
3.	Chiplima HEP	1	Hydro	24	15/05/2023	30/11/2023	200
4.	Upper Kolab HEP	2	Hydro	80	1/10/2023	31/03/2024	183
5.	Upper Indravati HEP	1	Hydro	150	1/6/2023	28/11/2023	181
6.	Bhakra Left & Right HPS	R-5	Hydro	157	3/10/2023	1/3/2024	151
7.	Chilla Power House	2	Hydro	36	15/01/2023	14/05/2023	120
8.	Chibro (Yamuna) HPS	4	Hydro	60	1/11/2023	28/02/2024	120
9.	Dehar HPS	3	Hydro	165	22/12/2023	31/03/2024	101
10.	Dehar HPS	2	Hydro	165	1/10/2023	8/1/2023	100
11.	Rihand HPS	1	Hydro	50	1/4/2023	30/06/2023	91
12.	Dehar HPS	1	Hydro	165	1/10/2023	29/12/2023	90
13.	Umiam Stage 3 (Kridaikulam)	II	Hydro	30	1/12/2023	10/2/2024	72*
14.	Umiam Stage 3 (Kridaikulam)	I	Hydro	30	1/10/2023	30/11/2023	61*
15.	Koyana Stage-IV	1	Hydro	250	1/8/2023	30/09/2023	61
16.	Umiam Stage - 4	II	Hydro	30	1/4/2023	31/05/2023	61
17.	Salal ST-1 & 2 HPS	II-3	Hydro	115	27/12/2023	24/02/2024	60
18.	Umiam Stage 3 (Kridaikulam)	I	Hydro	30	4/4/2023	31/05/2023	58*

* Runner repairing

Table 2: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2022-23

Sl No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Balimela HEP	3	Hydro	60	1/12/2021	31-03-2023	486
2.	Balimela HEP	4	Hydro	60	1/12/2021	31-03-2023	486
3.	Upper Indravati	4	Hydro	150	1/7/2022	28-02-2023	243
4.	Chiplima HEP	1	Hydro	24	1/11/2022	30-04-2023	181
5.	Upper Indravati	2	Hydro	150	1/1/2022	15-06-2022	166
6.	Nagarjunsagar RH	2	Hydro	30	1/2/2022	30-06-2022	150
7.	Priyadarsini Jurala-1	1	Hydro	39	1/3/2022	30-06-2022	122
8.	Pulichintala Unit - 1	1	Hydro	30	1/3/2022	30-06-2022	122
9.	Jaldhaka HEP	1	Hydro	9	1/12/2022	31-03-2023	121
10.	Jaldhaka HEP	2	Hydro	9	1/12/2022	31-03-2023	121
11.	Jaldhaka HEP	3	Hydro	9	1/12/2022	31-03-2023	121
12.	Jaldhaka HEP	4	Hydro	4	1/12/2022	31-03-2023	121
13.	Jaldhaka HEP	5	Hydro	4	1/12/2022	31-03-2023	121
14.	Dehar HPS	2	Hydro	165	22/12/2022	31/03/2023	100
15.	Dehar HPS	6	Hydro	165	1/10/2022	8/1/2023	100
16.	Lower Jurala-1	1	Hydro	40	1/3/2022	31-05-2022	92

SI No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
17.	Purulia PSP	1	Hydro	225	16-11-2022	15-02-2023	92
18.	Purulia PSP	2	Hydro	225	16-11-2022	15-02-2023	92
19.	Umiyam Stage 3	I	Hydro	9	1/10/2022	31-12-2022	92
20.	Nagarjunsagar-1	1	Hydro	110	1/4/2022	30-06-2022	91
21.	Nagarjunsagar LH-1	1	Hydro	30	1/4/2022	30-06-2022	91
22.	Panchet HEP	1	Hydro	40	1/1/2023	31-03-2023	90
23.	Rammam HEP Stg-2	4	Hydro	7.5	1/1/2023	31-03-2023	90
24.	Rammam HEP Stg-3	5	Hydro	7.5	1/1/2023	31-03-2023	90
25.	Rammam HEP Stg-4	6	Hydro	7.5	1/1/2023	31-03-2023	90
26.	Umiyam Stage - 4	II	Hydro	30	1/4/2022	15-06-2022	76
27.	Upper Sileru	1	Hydro	60	1/5/2022	30/06/2022	61
28.	Lower sileru	1	Hydro	115	1/5/2022	30-06-2022	61
29.	Srisaillam RB	3	Hydro	110	1/4/2022	31-05-2022	61
30.	Srisaillam RB	6	Hydro	110	1/5/2022	30-06-2022	61
31.	Nagarjunsagar RH	1	Hydro	30	1/5/2022	30-06-2022	61
32.	Nagarjunsagar RH	3	Hydro	30	1/5/2022	30-06-2022	61
33.	Nagarjunsagar Tail Pond HES	1	Hydro	25	1/5/2022	30-06-2022	61
34.	Nagarjunsagar Tail Pond HES	2	Hydro	25	1/5/2022	30-06-2022	61
35.	ADPH, Alamatti	1	Hydro	15	1/5/2022	30-06-2022	61
36.	Mettur Tunnel PH	1	Hydro	50	1/4/2022	31-05-2022	61
37.	Mettur Tunnel PH	2	Hydro	50	1/4/2022	31-05-2022	61
38.	Mettur Tunnel PH	3	Hydro	50	1/4/2022	31-05-2022	61
39.	Mettur Tunnel PH	4	Hydro	50	1/4/2022	31-05-2022	61
40.	Panchet HEP	2	Hydro	40	1/4/2022	31-05-2022	61
41.	Salal St-1 & 2 HPS	I-3	Hydro	115	11/1/2023	11/3/2023	60

Table 3: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2021-22

SI No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	RAMGANGA POWER HOUSE	1	Hydro	66	1-Jul-2021	31-May-2022	335
2.	BHAKRA LEFT & RIGHT HPS	R-5	Hydro	157	4-Oct-2021	1-Mar-2022	149
3.	DEHAR HPS	1	Hydro	165	21-Sep-2021	29-Dec-2021	100
4.	DEHAR HPS	5	Hydro	165	1-Mar-2021	8-Jun-2021	100
5.	DEHAR HPS	6	Hydro	165	1-Jan-2022	31-Mar-2022	90
6.	MANERI BHALI-II HPS DHARASU	1	Hydro	76	1-Nov-2021	1-Jan-2022	62
7.	MANERI BHALI-II HPS DHARASU	2	Hydro	76	16-Nov-2021	16-Jan-2022	62

SI No.	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
8.	MANERI BHALI-II HPS DHARASU	3	Hydro	76	25-Jan-2022	27-Mar-2022	62
9.	MANERI BHALI-II HPS DHARASU	4	Hydro	76	11-Jan-2022	13-Mar-2022	62
10.	GHANVI HPS	1	Hydro	11.25	1-Dec-2021	31-Jan-2022	62
11.	GHANVI-II HPS	1	Hydro	5	1-Dec-2021	31-Jan-2022	62
12.	BHAKRA LEFT & RIGHT HPS	R-2	Hydro	157	15-Oct-2021	14-Dec-2021	61
13.	SALAL ST-1&2 HPS	II-2	Hydro	115	15-Jan-2022	15-Mar-2022	60
14.	KHAULI HEP	1	Hydro	6	7-Nov-2021	31-Dec-2021	55

Table 4: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2020-21

SI No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	RAMGANGA POWER HOUSE	1	Hydro	66	1-07-20	28-02-21	243
2.	BHAKRA LEFT & RIGHT HPS	R-5	Hydro	157	1-11-20	31-03-21	151
3.	TANAKPUR HPS	3	Hydro	31.4	13-12-20	31-03-21	109
4.	DEHAR HPS	4	Hydro	165	1-10-20	8-01-21	100
5.	Periyar-4	4	Hydro	35	1-03-20	19-05-20	80
6.	Kunda-PH 5 Unit 1	1	Hydro	20	3-06-20	20-08-20	79
7.	DEHAR HPS	2	Hydro	165	1-04-20	17-06-20	78
8.	DEHAR HPS	5	Hydro	165	14-01-21	31-03-21	77
9.	Kunda-PH 3 Unit 3	3	Hydro	60	1-07-20	3-09-20	65
10.	BHAKRA LEFT & RIGHT HPS	R-2	Hydro	157	1-04-20	31-05-20	61
11.	RANGANADI	UNIT 3	Hydro	135	2/1/2019	2/21/2019	45
12.	Tuticorin-1	1	Hydro	210	17-08-20	30-09-20	45
13.	Tuticorin-3	3	Hydro	210	17-06-20	31-07-20	45
14.	Kunda-PH 6 Unit 1	1	Hydro	30	14-05-20	27-06-20	45
15.	Sarkarpathy	1	Hydro	30	1-04-20	15-05-20	45
16.	Sholayar-3	3	Hydro	25	1-04-20	15-05-20	45
17.	Suruli-1	1	Hydro	35	1-05-20	9-06-20	40
18.	Aliyar	1	Hydro	60	22-05-20	30-06-20	40

Table 5: Capital Maintenance/Overhauling Schedule for Hydro Stations as per CEA L.G.B.R Report for FY 2019-20

SI No	Station	Unit	Station Type	Capacity (MW)	Outage from	Outage To	Duration (Days)
1.	Pong	2	Hydro	66	1-11-18	31-08-19	304
2.	Ramganga	1	Hydro	66	15.06.19	09.02.20	240
3.	Kulhal	2	Hydro	10	15.11.19	14.03.20	121
4.	Pong	4	Hydro	66	1-12-19	3-03-20	94
5.	Ramganga	3	Hydro	66	01.04.19	30.01.19	91
6.	Dehar	2	Hydro	165	2-01-20	31-03-20	90
7.	Periyar-4	4	Hydro	35	1-03-19	19-05-19	80
8.	Salal(6x115)	6	Hydro	115	1-10-19	29-11-19	60
9.	Supa-1	1	Hydro	50	July 2019	Aug-19	60
10.	Supa-2	2	Hydro	50	July 2019	Aug-19	60
11.	Dhakrani	1	Hydro	11.25	01.04.19	29.05.19	59
12.	Nimmo Bazgo	1	Hydro	15	20-08-19	9-10-19	51

Annexure-22: Regulatory Formats

Regulatory Formats for NTPS

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Thermal Power Station

INDEX OF FORMATS

	Formats		PARTICULARS
1	Form	F1	Annual Revenue Requirement Summary
2	Form	F2a	Plant Characteristics-Thermal
3	Form	F2b	Plant Characteristics-Hydro
4	Form	F3a	Normative Parameters Considered for Tariff Computations-Thermal
5	Form	F3b	Normative Parameters Considered for Tariff Computations-Hydro
6	Form	F4	Generation Details and Variable Cost
7	Form	F5	Abstract of admitted Capital Cost for the existing Project
8	Form	F5a	Statement showing claimed capital cost
9	Form	F6	Details of Foreign Loans
10	Form	F7	Details of Foreign Equity
11	Form	F8	Capital Cost Estimates and Schedule of Commissioning for New projects
12	Form	F9a	Break-up of Capital Cost for Coal/ Lignite based projects
13	Form	F9b	Break-up of Capital Cost for Gas/ Liquid fuel based Projects
14	Form	F9c	Break-up of Capital Cost for Hydro projects
15	Form	F9d	Break-up of Capital Cost for Plant & Equipment of New Hydro projects
16	Form	F10	Break-up of Construction/ Supply/ Service packages
17	Form	F11	Draw Down Schedule for Calculation of IDC & Financing Charges
18	Form	F12	Financial Package Upto CoD
19	Form	F13	Details of Project Specific Loans
20	Form	F14a	Calculation of Weighted Average Rate of Interest on Actual Loans
21	Form	F14b	Calculation of Interest on Normative Loan
22	Form	F15	Details of Allocation of corporate loans to various projects
23	Form	F16	Statement of Additional Capitalisation after COD
24	Form	F16a	Details of Assets De-capitalized during the period
25	Form	F17	Financing of Additional Capitalisation
26	Form	F18	Statement of Capital Cost
27	Form	F19	Statement of Capital Works in Progress
28	Form	F20	R&M Expenses
29	Form	F21	Employee Expenses
30	Form	F22	Administration & General Expenses
31	Form	F23	Fixed Assets and Depreciation
32	Form	F24	Details computation of Interest on Loan
33	Form	F25	Return on Equity
34	Form	F26	Working Capital Requirements
35	Form	F27	Detailed Information in respect of fuel for computation of Energy Charges
36	Form	F28	Expenses Capitalised
37	Form	F29	Income Tax Provisions
38	Form	F30	Non-Tariff Income

Instructions for the Applicant

- 1) Electronic copy in the form of CD/ Floppy Disc shall also be furnished
- 2) These formats are indicative in nature and the utility may align the line items to its chart of accounts

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Namrup Thermal Power Station						
Annual Revenue Requirement Summary					Form No:	F1
					Rs Crore	
		Form	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
A	Generation					
1	Gross Generation (MU)	F4	192.85	192.85	138.23	113.88
2	Aux Consumption (%)	F4	5.68%	5.68%	6.74%	4.50%
3	Net Generation (MU)	F4	181.90	181.90	128.92	108.76
B	Capacity Charges (Annual Fixed Charges)					
1	O&M expenses (including Increase in AERC Tariff Fees)					
a	Employee Expenses	F21	10.19	19.36	15.48	15.43
b	R & M Expense	F20	3.45			
c	A&G Expense	F22	2.12			
2	Depreciation	F23	2.05	2.05	2.19	2.21
3	Interest on Loans	F14b	0.02	0.02	0.05	0.06
4	Return on Equity	F25		2.77	2.10	1.97
5	Interest on Working Capital	F26		5.28	3.42	2.92
6	Income Tax	F29	2.09	2.09	0.00	0.00
7	Cost of secondary fuel (only for coal based stations)	F4	0.00	0.00	0.00	0.00
8	Special allowance in lieu of R&M or separate compensation allowance		0.00	0.00	2.58	1.60
9	Capacity Building		0.02	0.02	0.00	0.00
10	Less: Other Income	F30	-5.96	-5.96	-7.13	-7.13
	Incentive for Generation		1.37	1.37		
	Total		15.37	27.02	18.68	17.06
C	Variable Charges (Energy Charges)					
	Energy Charges from Primary Fuel (Rs Cr) ^{C1, C2, C3, C4}	F4	165.98	135.78	82.55	66.43
	Energy Charges from Primary Fuel (Rs/ kWh)	F4	9.12	7.46	6.40	6.11
			9.97	8.95	7.85	7.68
	C1 - If multifuel is used simultaneously, energy charges to be given in respect of every fuel individually					
	C2 - Energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/ liquid fuel fired plants					
	C3 - Energy charge shall be worked out based on ex-bus energy scheduled to be sent out					
						Petitioner

Name of Company: Assam Power Generation Corporation Limited			
Name of Plant/ Station: Namrup Thermal Power Station			
Plant Characteristics-Thermal			F2a
Unit(s)/ Block(s) Parameters	Unit II	Unit III	Unit VI
Installed Capacity (MW)	17	15	9
Schedule COD as per Investment Approval			
Actual COD /Date of Taken Over (as applicable)	1965	1965	1985
Pit Head or Non Pit Head	Not applicable		
Name of the Boiler Manufacture	Not applicable		BHEL
Name of Turbine Generator Manufacture	Westinghouse, USA		BHEL
Main Steams Pressure at Turbine inlet (kg/Cm2) abs ¹ .	Not applicable		12
Main Steam Temperature at Turbine inlet (oC) ¹	Not applicable		330
Reheat Steam Pressure at Turbine inlet (kg/Cm2) ¹	N/A		
Reheat Steam Temperature at Turbine inlet (oC) ¹	N/A		
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	Not applicable		117
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	Not applicable		
Unit Gross electrical output under MCR /Rated condition (MW) ²	21	21	22.5
Unit Gross electrical output under VWO condition (MW) ²	21	21	22.5
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	3987	3987	NA
Conditions on which design turbine cycle heat rate guaranteed	NCV	NCV	
% MCR			
% Makeup Water Consumption	Not applicable		5
Design Capacity of Make up Water System	Not applicable		
Design Capacity of Inlet Cooling System			
Design Cooling Water Temperature (0C)			
Back Pressure			
Steam flow at super heater outlet under BMCR condition (tons/hr)	Not applicable		117
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)	Not applicable		22
Steam Temperature at super heater outlet under BMCR condition (0C)	Not applicable		375
Steam Temperature at Reheater outlet at BMCR condition (0C)	Not applicable		
Design / Guaranteed Boiler Efficiency (%) ⁴			85
Design Fuel with and without Blending of domestic/imported coal	Not applicable		
Type of Cooling Tower	Not applicable		
Type of cooling system ⁵	Not applicable		
Type of Boiler Feed Pump ⁶	Not applicable		
Fuel Details ⁷	Natural Gas		WHRU
-Primary Fuel	Natural Gas		WHRU
-Secondary Fuel			N/A
-Alternate Fuels			N/A
Special Features/ Site Specific Features ⁸	MAKEUP WATER SYSTEM		
Special Technological Features ⁹	N/A		
Environmental Regulation related features ¹⁰			
Any other special features			
1: At Turbine MCR condition.			
2: with 0% (Nil) make up and design Cooling water temperature			
3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.			
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put			
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling e			
6: Motor driven, Steam turbine driven etc.			
7: Coal or natural gas or Naptha or lignite etc.			
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc.			
9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.			
10: Environmental Regulation related features like FGD, ESP etc.,			
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer			
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations			
Note 3: The Terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical			

Name of Company: Assam Power Generation Corporation					
Name of Plant/ Station: Namrup Thermal Power Station					
Generation Details and Variable Cost				Form No:	F4
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
1	Installed Capacity	MW	36.91	27.74	26.00
2	Plant Load Factor	%	58.91%	55.48%	50.00%
3	Gross Generation	MU	192.85	138.23	113.88
4	Auxiliary Consumption	%	5.68%	6.74%	4.50%
5	Auxiliary Consumption	MU	10.958	9.315	5.125
6	Net Generation	MU	181.90	128.92	108.76
7	Station Heat Rate	kCal/ kWh	4020.76	3900.00	3900.00
Primary Fuel Consumption (Gas/ LNG/ Liquid)					
16	GCV of Gas/ LNG/ Liquid Fuel	kCal/ SCM	9220.72	9251.70	9251.70
17	Quantity of Gas/ LNG/ Liquid Fuel	MMSCM	84.10	58.27	48.01
18	Specific Fuel Consumption	SCM/ kWh	0.44	0.42	0.42
19	Rate of Gas/ LNG/ Liquid Fuel	Rs/ SCM	16.15	14.17	13.84
20	Cost of Gas/ LNG/ Liquid Fuel	Rs. Lakhs	13578.29	8255.42	6643.13
Primary Fuel Cost (Coal/ Lignite)					
Primary Fuel Cost (Coal/ Lignite)		Rs Lakhs			
Primary Fuel Cost (Gas/ LNG/ Liquid)		Rs Lakhs	13578.29	8255.42	6643.13
Secondary Fuel Cost		Rs Lakhs			
C Variable Charges (Energy Charges)					
Energy Charges from Primary Fuel (Coal/ Lignite)		Rs/ kWh			
Energy Charges from Primary Fuel (Gas/ LNG/ Liquid)		Rs/ kWh	7.46	6.40	6.11
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Thermal Power Station

Abstract of admitted Capital Cost for the existing Project

Form No: F5

	Particulars	Unit	Details
	Last date of order of Commission for the project as on 29.03.2023		
1	Capital Cost as admitted by AERC	Rs Lakhs	19192
2	Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	Rs Lakhs	NIL
3	Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	Rs Lakhs	NIL
4	Gross Normative Debt	Rs Lakhs	13434.4
5	Cumulative Repayment	Rs Lakhs	14763.00
6	Net Normative Debt	Rs Lakhs	0.00
7	Normative Equity	Rs Lakhs	5742.3
8	Cumulative Depreciation	Rs Lakhs	14763.00
9	Freehold land	Rs Lakhs	NIL

Petitioner

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Thermal Power Station

Statement showing claimed capital cost

Form No:

F5a

	Particulars	Unit	2022-23	2023-24	2024-25
1	Opening Capital Cost	Rs Lakhs	19089.59	19398.47	19854.12
2	Add: Addition during the year / period	Rs Lakhs	308.88	455.65	82.00
3	Less: Decapitalisation during the year / period	Rs Lakhs			
4	Less: Reversal during the year / period	Rs Lakhs			
5	Add: Discharges during the year / period	Rs Lakhs			
6	Closing Capital Cost	Rs Lakhs	19398.47	19854.12	19936.12
7	Average Capital Cost	Rs Lakhs	19244.03	19626.30	19895.12

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Thermal Power Station

Details of Project Specific Loans				Form No: F13		
Rs. Lakhs						
Particulars	R&M NTPS	Package 2	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans					
Currency ²	INR					
Amount of Loan sanctioned	0	Total GOA Loan till 31.03.2023 has been converted into Equity				
Amount of Gross Loan drawn upto 31.03.2023 COD ^{3,4,5,13,15}	0					
Interest Type ⁶	Fixed					
Fixed Interest Rate, if applicable	10%					
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given seperately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished seperately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Namrup Thermal Power Station				
Calculation of Weighted Average Rate of Interest on Actual Loans			Form No:	F14a
				Rs. Crores
	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
	Loan-1 from PFCL			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	420.34	371.97	332.70
	Add: Drawal(s) during the Year	0.00	0.00	0.00
	Less: Repayment (s) of Loans during the year	48.37	39.27	35.02
	Net loan - Closing	371.97	332.70	297.67
	Average Net Loan	396.15	352.33	315.19
	Rate of Interest on Loan on annual basis	10.05%	10.09%	10.10%
	Interest on loan	41.02	36.54	32.71
	Loan-2 Govt. of Assam			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	4.00	17.70	33.31
	Add: Drawal(s) during the Year	13.70	33.31	69.14
	Less: Repayment (s) of Loans during the year	0.00	17.70	3.33
	Net loan - Closing	17.70	33.31	99.12
	Average Net Loan	10.85	25.51	66.21
	Rate of Interest on Loan on annual basis	10.00%	10.00%	10.00%
	Interest on loan	0.40	2.55	6.62
	Total Loan			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	424.34	389.67	366.00
	Add: Drawal(s) during the Year	13.70	33.31	69.14
	Less: Repayment (s) of Loans during the year	48.37	56.98	38.35
	Net loan - Closing	389.67	366.00	396.79
	Average Net Loan	407.00	377.84	381.40
	Interest on loan including Bank Charge	41.44	39.10	39.33
	Weighted average Rate of Interest on Loans	10.18%	10.35%	10.31%
	Note:			
	1.In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.			
			Petitioner	

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Thermal Power Station					
Calculation of Interest on Normative Loan				Form No:	F14b
				Rs. Crores	
S. No.	Particulars	2022-23 Actual	2023-24 Estimated	2024-25 Projected	
1	Gross Normative loan – Opening				
2	Cumulative repayment of Normative loan upto previous year				
3	Net Normative loan – Opening	0.00	1.04	3.41	
4	Add: Increase due to addition during the year / period	3.09	4.56	0.82	
5	Less: Decrease due to de-capitalisation during the year / period				
6	Less: Decrease due to reversal during the year / period	2.05	2.19	2.21	
7	Add: Increase due to discharges during the year / period				
8	Net Normative loan - Closing	1.04	3.41	2.02	
9	Average Normative loan	0.52	2.22	2.71	
10	Weighted average rate of interest	10.18%	10.35%	10.31%	
	Interest on Loan	0.05	0.23	0.28	
	Bank Charges	0.02	0.00	0.00	
11	Interest on Loan with Bank Charges	0.07	0.23	0.28	
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Thermal Power Station

Details of Allocation of corporate loans to various projects

Form No: F15

Rs. Lakhs

Particulars	NTPS(R&M)		Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans	I PFC Loans				
Currency ²	INR	INR				
Amount of Loan sanctioned	No corporate loans were allocated for this project					
Amount of Gross Loan drawn upto 31.03.2022/ COD ^{3,4,5,13,15}						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸						
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Distribution of loan packages to various projects

Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual,

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment

¹⁵ In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Thermal Power Station

Statement of Additional Capitalisation after COD

Form No:

F16

Rs. Lakhs

No	Head of Work/ Equipment				Regulations under which claimed	Justification	Admitted Cost by Commission if any
		2022-23	2023-24	2024-25			
1	Land	-	-	-			
2	Building	-	-	-			
3	Hydraulic works	-	-	-			
4	Other civil works	13.09	-	-			
5	Plant & machinery- Gas	-	207.65	17.00			
6	Plant & machinery- Hydel	-	-	-			
7	Lines & cables	-	-	-			
8	Vehicle	-	-	-			
9	Furniture	34.31	-	-			
10	Other office equipment	261.48	248.00	65.00			
11	Roads on land belonging to others	-	-	-			
12	Capital spares at Generating Stations	-	-	-			

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Thermal Power Station

Date of Commercial Operation:

Financing of Additional Capitalisation

Form No:

F17

Rs. Crore

Financial Year (Starting from COD)			
	2022-23	2023-24	2024-25
Amount capitalised in Work/ Equipment			
Financing Details			
GOA Loan	3.09	4.56	0.82
Loan-2			
Total Loan²	3.09	4.56	0.82
Grant			
Equity			
Internal Resources			
Others			
Total	3.09	4.56	0.82

¹ Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.

² Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevant.

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Namrup Thermal Power Station				
R&M Expenses			Form No:	F20
				Rs. Crore
	Particulars	2022-23	2022-23	2023-24
		Actual	Claim	Estimated
1	Plant and Machinery	1.67	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Building	1.59		
3	Civil Works	0.03		
4	Hydraulic Works	0.00		
5	Lines, Cables Net Works etc.	0.00		
6	Vehicles	0.01		
7	Furniture and Fixtures	0.01		
8	Office Equipments	0.01		
9	Station Supplies	0.00		
	Lubricants & Consumable stores	0.14		
	Oil/Turbine Oil consumed in internal combustion	0.01		
	Any other items (Spl R&M)	0.00		
10	Other R&M Charges	0.00		
	Total	3.45		-
11	Any other items (Capitalisation)	0.00		
	Total	3.45		-
				Petitioner

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Thermal Power Station					
Administration & General Expenses			Form No:	F22	
			Rs. Crore		
	Particulars	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2023-24 Projected
1	Lease/ Rent	0.57	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Insurance	0.13			
3	Revenue Stamp Expenses Account	0.00			
4	Telephone, Postage, Telegram & Telex Charges	0.02			
5	Incentive & Award To Employees/Outsiders	0.00			
6	Consultancy Charges	0.04			
7	Technical Fees	0.00			
8	Other Professional Charges	0.05			
9	Conveyance And Travelling	0.11			
10	License and Registration Fees	0.00			
11	Vehicle Expenses	0.44			
12	Security / Service Charges Paid To Outside Agencies	0.00			
13	Fee And Subscriptions Books And Periodicals	0.01			
14	Fees paid to AERC	0.42			
15	Printing And Stationery	0.05			
16	Advertisement Expenses	0.02			
17	Contributions/Donations To Outside Institutes / Associations	0.09			
18	Electricity Charges To Offices	0.00			
19	Water Charges	0.00			
20	Entertainment Charges	0.02			
21	Miscellaneous Expenses	0.13			
22	Legal Charges	0.03			
23	Auditor's Fee	0.01			
24	Freight On Capital Equipments	0.00			
25	Purchase Related Advertisement Expenses	0.0004			
26	Vehicle Running Expenses Truck / Delivery Van	0.00			
27	Vehicle Hiring Expenses Truck / Delivery Van	0.00			
28	Other Freight	0.00			
29	Transit Insurance	0.00			
30	Octroi	0.00			
31	Incidental Stores Expenses	0.00			
32	Fabrication Charges	0.00			
33	CSR	0.00			
	Total A&G Expenes	2.12			
	Less: A&G Expenses Capitalised	0			
	Total A&G Expenes	2.12			
Petitioner					

Name of Company: Assam Power Generation Corporation Limited																															
Name of Plant/ Station: Namrup Thermal Power Station																															
Fixed Assets and Depreciation																													Form No: F23		
																													Rs. Crore		
Name of Asset	Depreciat ion rate ¹	2022-23 Actual										2023-24 Estimated										2024-25 Projected									
		Opening balance		Adjustment as on 01/04/2022		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2023		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2024		Addition during the year		Deletion during the year		Closing balance	
		Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr
1 Land	0.00%	9.18	-	-	-	-	-	-	-	9.18	-	9.18	-	-	-	-	-	-	-	9.18	-	9.18	-	-	-	-	-	-	-	9.18	-
2 Building	3.34%	10.98	9.77	-	-	-	0.00	-	-	10.98	9.77	10.98	9.77	-	-	-	0.00	-	-	10.98	9.78	10.98	9.78	-	-	-	0.00	-	-	10.98	9.78
3 Hydraulic works	5.28%	0.04	0.00	-	-	-	0.00	-	-	0.04	0.00	0.04	0.00	-	-	-	0.00	-	-	0.04	0.01	0.04	0.01	-	-	-	0.00	-	-	0.04	0.01
4 Other civil works	3.34%	26.23	11.33	-	-	-	0.13	0.37	-	26.37	11.69	26.37	11.69	-	-	-	0.37	-	-	26.37	12.06	26.37	12.06	-	-	-	0.37	-	-	26.37	12.42
5 Plant & machinery- Gas	5.28%	97.85	85.68	-	-	-	0.46	-	-	97.85	86.14	97.85	86.14	-	-	-	2.08	0.51	-	99.93	86.65	99.93	86.65	-	-	-	0.17	0.52	-	100.10	87.17
6 Plant & machinery- Hydel	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7 Lines & cables	5.28%	1.95	1.03	-	-	-	0.20	-	-	1.95	1.23	1.95	1.23	-	-	-	0.20	-	-	1.95	1.43	1.95	1.43	-	-	-	0.20	-	-	1.95	1.63
8 Vehicle	9.50%	0.40	0.45	-	-	-	0.01	-	-	0.40	0.46	0.40	0.46	-	-	-	0.01	-	-	0.40	0.47	0.40	0.47	-	-	-	0.01	-	-	0.40	0.47
9 Furniture	6.33%	1.10	0.77	-	-	-	0.34	0.06	-	1.45	0.82	1.45	0.82	-	-	-	0.06	-	-	1.45	0.88	1.45	0.88	-	-	-	0.06	-	-	1.45	0.93
10 Other office equipment	6.33%	1.70	1.04	-	-	-	2.61	0.96	-	4.32	2.01	4.32	2.01	-	-	-	2.48	1.04	-	6.80	3.05	6.80	3.05	-	-	-	0.65	1.06	-	7.45	4.11
11 Roads on land belonging to others	3.34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 Capital spares at Generating Stations	5.28%	41.46	103.43	-	-	-	-	-	-	41.46	103.43	41.46	103.43	-	-	-	-	-	-	41.46	103.43	41.46	103.43	-	-	-	-	-	-	41.46	103.43
	0.00%	190.90	213.50	-	-	3.09	2.05	-	-	193.98	215.56	193.98	215.56	-	-	4.56	2.19	-	-	198.54	217.74	198.54	217.74	-	-	0.82	2.21	-	-	199.36	219.95
Less: Depreciation on Grant																															
Total Grant in Capital Asset																															
Rate of Depreciation							1.07%										1.11%										1.11%				
Depreciation on 90% of the																															
Assets funded by																															
Grants/subsidies																															
Net Depreciation							2.05	-								2.19	-									2.21	-				
¹ Depreciation Rates as per AERC's Depreciation Rate Schedule																															
² Name of the the Assets should conform to the description of the assets mentioned in Depreciation schedule of AERC																															
Petitioner																															

Name of Company: Assam Power Generation Corporation Limited																			
Name of Plant/ Station: Namrup Thermal Power Station																			
Details computation of Interest on Loan																		Form No: F24	
																		Rs. Lakhs	
Loan Details	Loan Tenure (yrs)	2022-23						2023-24						2024-25					
		Actual						Estimated						Projected					
		Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance
A Secured Loans																			
LTPS(R&M)	15	9.71%	243.79	0.00	-121.90	17.76	121.90	9.71%	121.90	0.00	-121.90	5.92	0.00	9.71%	0.00	0.00	0.00	0.00	0.00
LWHRPP	15	9.58%	1516.30	0.00	-1213.04	87.16	303.26	9.58%	303.26	0.00	-303.26	14.53	0.00	9.58%	0.00	0.00	0.00	0.00	0.00
NRPP	15	10.38%	40273.64	0.00	-3502.06	3997.38	36771.58	10.38%	36771.58	0.00	-3502.06	3633.99	33269.53	10.38%	33269.53	0.00	-3502.06	3270.59	29767.47
Sub-total			42933.73	0.00	-4836.99	4162.30	37196.74		37196.74	0.00	-3927.21	3654.43	33269.53		33269.53	0.00	-3502.06	3270.59	29767.47
B Unsecured Loans																			
KLHEP	10	10.00%	26.20	99.46	0.00	2.62	125.66	10.00%	125.66	1182.90	-125.66	65.43	1182.90	10.00%	1182.90	3649.00	-118.29	294.83	4713.61
LTPS	10	10.00%	373.80	1116.00	0.00	37.38	1489.80	10.00%	1489.80	1692.40	-1489.80	159.11	1692.40	10.00%	1692.40	2013.60	-169.24	261.71	3541.76
NTPS	10	10.00%	0.00	128.00	0.00	0.00	128.00	10.00%	128.00	455.65	-128.00	29.18	455.65	10.00%	455.65	82.00	-45.57	47.39	492.09
MSHEP	10	10.00%	0.00	27.00	0.00	0.00	27.00	10.00%	27.00	0.00	-27.00	1.35	0.00	10.00%	0.00	0.00	0.00	0.00	0.00
LRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	874.07	0.00	43.70	874.07
NRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	290.14	0.00	14.51	290.14
Sub-total			400.00	1370.46	0.00	46.00	1770.46	10.00%	1770.46	3330.95	-1770.46	255.07	3330.95		3330.95	6913.81	-333.10	662.13	9911.66
Grand Total Of Interest & Finance Charges (A + B + C)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
Less: Interest & Finance Charges Capitalised			0	0	0	0	0		0	0	0	0	0		0	0	0	0	0
Net Total Of Interest & Finance Charges (D - E)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
																		Petitioner	

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Thermal Power Station					
Return on Equity			Form No:		F25
	Loan Details	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
1	Equity (Opening Balance)	Rs Crore	57.42	58.29	58.29
2	Add: Increase due to discharges during the year / period	Rs Crore	0.87	0.00	0.00
3	Less: Decrease due to de-capitalisation during the year / period	Rs Crore	0	0	0
4	Less: Decrease due to reversal during the year / period	Rs Crore	0	0	0
5	Equity (Closing Balance)	Rs Crore	58.29	58.29	58.29
6	Average Equity	Rs Crore	58	58	58
7	Rate of Return on Equity	%	15.50%	15.50%	15.50%
8	Return on Equity	Rs Crore	8.97	9.04	9.04
					Petitioner

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Thermal Power Station					
Working Capital Requirements			Form No: F26		
	Particulars	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
	For Open-cycle Gas Turbine/ Combined Cycle thermal generating stations				
1	Fuel expenses for 1 month *	Rs Crore	11.32	6.88	5.54
2	Liquid fuel stock for 15 days*	Rs Crore			
3	Maintenance spares @ 30% of O&M	Rs Crore	5.78	4.61	4.60
4	O&M expenses for 1 month	Rs Crore	1.60	1.28	1.28
5	Receivables equivalent to 2 months of capacity and energy charge^	Rs Crore	27.13	16.87	13.91
	Total Working Capital Requirement	Rs Crore	45.83	29.65	25.33
	Rate of Interest #	%	11.53%	11.53%	11.53%
	Interest on Normative Working Capital Requirement	Rs Crore	5.28	3.42	2.92
	* corresponding to target availability				
	^ calculated on target availability				
	# shall be equal to the interest rate equivalent to average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff plus 300 basis points.				
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Thermal Power Station

Income Tax Provisions		Form No:		F29
				(Rs Crore)
		2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Income Tax on the Retun on Equity			
2	As Per Return Filed For The Year	2.09	0.00	0.00
3	As Assessed For The Year			
4	Credit/Debit Of Assessment Year(s) (Give Details)			
	Total	2.09	0.00	0.00
Note: 'Income Tax Provisions' details which could not be provided by the Generation Company at the time of this filing shall be furnished as and when they become due/ available.				

Name of Company: Assam Power Generation Corporation Limited Name of Plant/ Station: Namrup Thermal Power Station				
Non-Tariff Income			Form No: F30	
			(Rs Crore)	
S. No.	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
A	Income from Investment, Fixed & Call Deposits			
	Income from Investments:			
	Interest on securities			
	Interest on fixed deposits			
	Income on other investments			
	Interest from Banks			
	Interest on (any other items)			
	Sub-Total			
B	Other Non-Tariff Income			
	Interest on Loans and Advances to staff			
	Interest on Loans and Advances to Licensee			
	Interest on Loans and Advances to Lessors			
	Interest on Loans and Advances to Suppliers/ Contractors			
	Income from trading			
	Gain on sale of Fixed Assets			
	Income/Fees /Collections against staff welfare activities:			
	Miscellaneous Receipts:			
	Delayed Payment charges from Beneficiaries			
	Net profit from UI charges			
	Penalty for contractor/ supplier for delay etc			
	Misc Charges			
	Sub-Total			
	Grand Total	-5.96	-7.13	-7.13

Namrup Thermal Power Station	2023-24 (from Oct 2023 onwards)	2024-25 (Projected)	Remarks
A. Gas supplied by OIL Duliaian (APM)			
1.00 Basic Price (for G.C.V. 100000) /1000 SCM	12812.74	12812.74	
2.00 Basic Price after adjustment with CV	11854.35	11854.35	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	166.48	166.48	
Total	12020.83	12020.83	
5.00 VAT @ 14.5% on above	1743.02	1743.02	
Total (A)	13763.85	13763.85	
B. T.C. for Transportation of the Oil Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 1.81 / MMBTU	66.45	66.45	
2.00 Fuel surcharge/ 1000 SCM			
Total	66.45	66.45	
2.00 GST @ 12%	7.97	7.97	
Total (B)	74.43	74.43	
C. Landed price of gas supplied to NTPS & NRPP (A+B) / 1000 SCM	13838.27	13838.27	
Lakwa Thermal Power Station			
	2023-24	2024-25 (Projected)	Remarks
A. Gas supply by GAIL (APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	12812.74	12812.74	
2.00 10% Royalty /1000 SCM	Included	Included	
Total	12812.74	12812.74	
3.00 Basic Price after adjustment with CV	13165.09	13165.09	
4.00 Marketing Margin (for NCV 10000) /1000 SCM @ Rs. 5.04 / MMBTU	200.00	200.00	
5.00 Marketing Margin after adjustment with CV	185.82	185.82	
6.00 Monthly Metering charge(Rs./ 1000 SCM)	26.17	26.96	Yearly escalation 3% on TC as per agreement
7.00 Sales Tax @ 14.5 % on above	1939.68	1939.79	
Landed price of gas supply to LTPS by GAIL / 1000 SCMA)	15290.58	15290.70	
B. Gas supplied by OIL Duliaian (Non APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	21354.56	21354.56	
2.00 Basic Price after adjustment with CV	19744.43	19744.43	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	166.66	166.66	
Total	19911.09	19911.09	
5.00 VAT @ 14.5 % on above	2887.11	2887.11	
price of gas supply to LTPS & LRPP by OIL (B)	22798.20	22798.20	
C. T.C for Transportation of Oil Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 1.81 / MMBTU	66.41	66.41	TC @ As per PNGB Order (i.e 1.81 /MMBTU)
2.00 GST @ 12% on TC	7.97	7.97	
Total T.C. (C)	74.38	74.38	
D. Landed price of gas supply to LTPS/LRPP by OIL (B+C)/ 1000 SCM	22872.58	22872.58	
B. Gas supplied by AGCL (Non APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	22011.63	22011.63	
2.00 Basic Price after adjustment with CV	22104.08	22104.08	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	182.12	182.12	
Total	22286.20	22286.20	
5.00 VAT @ 14.5 % on above	3231.50	3231.50	
gas price to LTPS Supply by AGCL	25517.69	25517.69	
C. T.C for Transportation of AGCL Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 320 / TSCM	320.00	320.00	TC @ As per MOM
2.00 GST @ 12% on TC			
Total T.C. (C)	320.00	320.00	
D. Landed price of gas supply to LTPS/LRPP by AGCL (B+C)/ 1000 SCM	25837.69	25837.69	

		Estimated	Projected
OIL GAS for NTPS / NRPP		2023-24	2024-25
APM Natural Gas Subsidized from nominated field	Unit	3.90	3.90
APM Natural Gas Non Subsidized from nominated field	Rs / MMBTU	6.50	6.50
Natural Gas Non Subsidized from non nominated field	Rs / MMBTU	8.60	8.60
Conversion factor	Factor	39.68	39.68
\$ exchange rate for the month of September of Financial Year in Rs as obtained from RBI website			
Avg. GCV till September of Financial Year - Oil Gas for NTPS	Rs per Dollar	82.79	82.79
Avg. NCV till September of Financial year - Oil Gas for NTPS	kcal / scm	9252	9252
	kcal / scm	8324	8324
Transmission Charge for Oil GAS - NTPS			
	Rs / MMBTU on GCV basis	1.81	1.81

		Estimated	Projected
LTPS		2023-24	2024-25
GAIL Gas for LTPS	Unit	10275	10275
Avg. GCV till September of Financial Year	kcal / scm	9291	9291
Avg. NCV till September of Financial year	Rs / scm	5.04	5.04
Marketing Margin	Rs / 1000 scm	26.17	26.96
Monthly Metering charge(Rs / 1000 SCM)	Rs / 1000 scm	1.81	1.81
Transmission Charge for Oil GAS - LTPS	Rs / MMBTU on GCV basis	320.00	320.00
Transmission Charge for AGCL GAS - LTPS			
GAIL Gas MMSCM received till September of the financial year in MMSCM	MMSCM	27.96	27.96
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	22.72	22.72
Other Source Gas MMSCM received till September of the financial year in MMSCM	MMSCM	11.19	11.19
Avg. GCV till September of Financial Year	kcal / scm	10042	10042
Avg. NCV till September of Financial year	kcal / scm	9106	9106

		Estimated	Projected
LRPP		2023-24	2024-25
Oil Gas for LRPP	Unit	9246	9246
Avg. GCV till September of Financial Year	kcal / scm	8333	8333
Avg. NCV till September of Financial year	Rs / 1000 scm	5.04	5.04
Marketing Margin	MMSCM	58.09	58.09
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	58.09	58.09
Total		58.09	58.09

Actual Consumption till H1 of FY 2023-24

	GAIL	Oil	AGCL	Total
LTPS	27.96	22.72	11.19	61.87
LRPP		0	58.09	58.09
Gas price Estimated Rs/Tscm	15290.58	22872.58	25837.69	
W GCV	10275.00	9246.00	10042.00	
W NCV	9291.00	8333.00	9106.00	
Weighted Average Price LTPS Rs/Tscm	15983			
W GCV LTPS Kcal/Scm		9855		
W NCV LTPS Kcal/Scm		8906		
Weighted Average Price LRPP Rs/Tscm	22873			
W GCV LRPP Kcal/Scm		9246		
W NCV LRPP Kcal/Scm		8333		

Regulatory Formats for LTPS

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Thermal Power Station

INDEX OF FORMATS

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30	Form	F22	Administration & General Expenses
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36	Form	F28	Expenses Capitalised
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38	Form	F30	Non-Tariff Income

Instructions for the Applicant

- 1) Electronic copy in the form of CD/ Floppy Disc shall also be furnished
- 2) These formats are indicative in nature and the utility may align the line items to its chart of accounts

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Lakwa Thermal Power Station						
Annual Revenue Requirement Summary					Form No:	F1
						Rs Crore
		Form	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
A	Generation					
1	Gross Generation (MU)	F4	540.52	540.52	453.33	425.74
2	Aux Consumption (%)	F4	7.72%	7.72%	6.57%	5.50%
3	Net Generation (MU)	F4	498.82	498.82	423.57	402.32
B	Capacity Charges (Annual Fixed Charges)					
1	O&M expenses (including Increase in AERC Tariff Fees)					
a	Employee Expenses	F21	28.75	46.65	49.58	52.70
b	R & M Expense	F20	10.93			
c	A&G Expense	F22	3.64			
2	Depreciation	F23	14.26	14.26	14.72	15.25
3	Interest on Loans	F14b	0.22	0.22	0.45	0.70
4	Return on Equity	F25		15.86	15.96	15.96
5	Interest on Working Capital	F26		14.97	13.17	12.57
6	Income Tax	F29	6.38	6.38	0.00	0.00
7	Cost of secondary fuel (only for coal based stations)	F4	0.00			
8	Special allowance in lieu of R&M or separate compensation allowance		0.98	0.98	40.07	31.00
9	Capacity Building		0.05	0.05	0.00	0.00
10	Less: Other Income	F30	-14.61	-14.61	-9.22	-9.22
	Total		50.60	84.76	124.74	118.97
C	Variable Charges (Energy Charges)					
	Energy Charges from Primary Fuel (Rs Cr) ^{C1, C2, C3, C4}	F4	293.10	391.77	298.18	276.27
	Energy Charges from Primary Fuel (Rs/ kWh)	F4	5.88	7.85	7.04	6.87
			6.89	9.55	9.98	9.82
	C1 - If multifuel is used simultaneously, energy charges to be given in respect of every fuel individually					
	C2 - Energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/ liquid fuel fired plants					
	C3 - Energy charge shall be worked out based on ex-bus energy scheduled to be sent out					
						Petitioner

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Lakwa Thermal Power Station				
Plant Characteristics-Thermal			Form No:	F2a
Unit(s)/ Block(s) Parameters	Unit V	Unit VI	Unit VII	Unit VIII
Installed Capacity (MW)	20	20	20	37.2
Schedule COD as per Investment Approval				30/06/2008
Actual COD /Date of Taken Over (as applicable)	3/1/1994	26/07/1994	24/05/1999	17/01/2012
Pit Head or Non Pit Head	N/A	N/A	N/A	N/A
Name of the Boiler Manufacture	N/A	N/A	N/A	BHEL,TRICHI
Name of Turbine Generator Manufacture	BHEL HYD	BHEL HYD	BHEL HYD	BHEL HYDERABAD
Main Steams Pressure at Turbine inlet (kg/Cm2) abs ¹ .	N/A	N/A	N/A	HP-60 Kg/CM ² LP-4.5 Kg/CM ²
Main Steam Temperature at Turbine inlet (oC) ¹	N/A	N/A	N/A	HP-460 ^o C LP-200 ^o C
Reheat Steam Pressure at Turbine inlet (kg/Cm2) ¹	N/A	N/A	N/A	N/A
Reheat Steam Temperature at Turbine inlet (oC) ¹	N/A	N/A	N/A	N/A
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	N/A	N/A	N/A	HP-122.84 TPH LP-31.64 TPH
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	N/A	N/A	N/A	HP-122.84 TPH LP-31.64 TPH
Unit Gross electrical output under MCR /Rated condition (MW) ²	20	20	20	37.2
Unit Gross electrical output under VWO condition (MW) ²	20	20	20	N/A
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	3292	3292	3292	N/A
Conditions on which design turbine cycle heat rate guaranteed	NCV	NCV	NCV	
% MCR	N/A	N/A	N/A	100%
% Makeup Water Consumption	N/A	N/A	N/A	2.72%
Design Capacity of Make up Water System	N/A	N/A	N/A	256 m ³ /hr
Design Capacity of Inlet Cooling System	N/A	N/A	N/A	8700 TPH
Design Cooling Water Temperature (oC)	N/A	N/A	N/A	32 ^o C
Back Pressure	N/A	N/A	N/A	0.098 Kg/cm ² (ABS)
Steam flow at super heater outlet under BMCR condition (tons/hr)	N/A	N/A	N/A	HP-123.6 TPH LP-33 TPH
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)	N/A	N/A	N/A	HP-63 Kg/CM ² LP-5 Kg/CM ²
Steam Temperature at super heater outlet under BMCR condition (oC)	N/A	N/A	N/A	HP-463 ^o C LP-202 ^o C
Steam Temperature at Reheater outlet at BMCR condition (oC)	N/A	N/A	N/A	N/A
Design / Guaranteed Boiler Efficiency (%) ⁴	N/A	N/A	N/A	78.16%
Design Fuel with and without Blending of domestic/imported coal	N/A	N/A	N/A	N/A
Type of Cooling Tower	N/A	N/A	N/A	Mechanical Draft Cooling Tower
Type of cooling system ⁵	N/A	N/A	N/A	Induced draft cooling
Type of Boiler Feed Pump ⁶	N/A	N/A	N/A	Motor driver
Fuel Details ⁷				
-Primary Fuel	Natural gas	Natural gas	Natural gas	Flue gas of GT #5,#6,#7 of LTPS
-Secondary Fuel	N/A	N/A	N/A	N/A
-Alternate Fuels	N/A	N/A	N/A	N/A
Special Features/ Site Specific Features ⁸	N/A	N/A	N/A	Intake Water pump house
Special Technological Features ⁹	N/A	N/A	N/A	N/A
Environmental Regulation related features ¹⁰	N/A	N/A	N/A	N/A
Any other special features				
1: At Turbine MCR condition.				
2: with 0% (Nil) make up and design Cooling water temperature				
3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.				
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put				
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.				
6: Motor driven, Steam turbine driven etc.				
7: Coal or natural gas or Naptha or lignite etc.				
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify				
9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.				
10: Environmental Regulation related features like FGD, ESP etc.,				
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted.				
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations.				
Note 3: The Terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards for Construction of				
				Petitioner

Name of Company: Assam Power Generation Corporation					
Name of Plant/ Station: Lakwa Thermal Power Station					
Generation Details and Variable Cost				Form No:	F4
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
1	Installed Capacity	MW	97.20	97.20	97.20
2	Plant Load Factor	%	61.99%	60.57%	66.00%
3	Gross Generation	MU	540.52	453.33	425.74
4	Auxiliary Consumption	%	7.72%	6.57%	5.50%
5	Auxiliary Consumption	MU	41.70	29.76	23.415
6	Net Generation	MU	498.82	423.57	402.32
7	Station Heat Rate	kCal/ kWh	3200	3200	3200
	Primary Fuel Consumption (Gas/ LNG/ Liquid)				
16	GCV of Gas/ LNG/ Liquid Fuel	kCal/ SCM	9853.02	9854.15	9854.15
17	Quantity of Gas/ LNG/ Liquid Fuel	MMSCM	175.55	147.21	138.25
18	Specific Fuel Consumption	SCM/ kWh	0.32	0.32	0.32
19	Rate of Gas/ LNG/ Liquid Fuel	Rs/ SCM	22.32	20.26	19.98
20	Cost of Gas/ LNG/ Liquid Fuel	Rs. Lakhs	39177.37	29818.35	27626.75
	Primary Fuel Cost (Coal/ Lignite)	Rs Lakhs			
	Primary Fuel Cost (Gas/ LNG/ Liquid)	Rs Lakhs	39177.37	29818.35	27626.75
	Secondary Fuel Cost	Rs Lakhs			
C	Variable Charges (Energy Charges)				
	Energy Charges from Primary Fuel (Coal/ Lignite)	Rs/ kWh			
	Energy Charges from Primary Fuel (Gas/ LNG/ Liquid)	Rs/ kWh	7.85	7.04	6.87
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Lakwa Thermal Power Station

Abstract of admitted Capital Cost for the existing Project

Form No: F5

	Particulars	Unit	Details
	Last date of order of Commission for the project as on 29.03.2023		
1	Capital Cost as admitted by AERC	Rs Lakhs	49811
2	Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	Rs Lakhs	NIL
3	Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	Rs Lakhs	NIL
4	Gross Normative Debt	Rs Lakhs	34867.7
5	Cumulative Repayment	Rs Lakhs	33570.00
6	Net Normative Debt	Rs Lakhs	1297.70
7	Normative Equity	Rs Lakhs	14868.6
8	Cumulative Depreciation	Rs Lakhs	33570.00
9	Freehold land	Rs Lakhs	NIL

Petitioner

Name of Company: Assam Power Generation Corporation

Name of Plant/ Station: Lakwa Thermal Power Station

Statement showing claimed capital cost

Form No:

F5a

Rs. Lakhs

	Particulars	Unit	2022-23	2023-24	2024-25
1	Opening Capital Cost	Rs Lakhs	50308.25	52266.88	53959.28
2	Add: Addition during the year / period	Rs Lakhs	1958.62	1692.40	2018.60
3	Less: Decapitalisation during the year / period	Rs Lakhs	0.00		
4	Less: Reversal during the year / period	Rs Lakhs			
5	Add: Discharges during the year / period	Rs Lakhs			
6	Closing Capital Cost	Rs Lakhs	52266.88	53959.28	55977.88
7	Average Capital Cost	Rs Lakhs	51287.57	53113.08	54968.58

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Thermal Power Station

Details of Project Specific Loans			Form No: F13			
Rs. Lakhs						
Particulars	LTPS	LTPS	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans	PFC loan				
Currency ²	INR	INR				
Amount of Loan sanctioned	0.00	1760.09	Total GOA Loan till 31.03.2023 has been converted into Equity			
Amount of Gross Loan drawn upto 31.03.2023 COD ^{3,4,5,13,15}	0.00	425.16				
Interest Type ⁶	Fixed	Floating				
Fixed Interest Rate, if applicable	10%	13%				
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given seperately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Lakwa Thermal Power Station				
Calculation of Weighted Average Rate of Interest on Actual Loans			Form No:	F14a
				Rs. Crores
	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
	Loan-1 from PFCL			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	420.34	371.97	332.70
	Add: Drawal(s) during the Year	0.00	0.00	0.00
	Less: Repayment (s) of Loans during the year	48.37	39.27	35.02
	Net loan - Closing	371.97	332.70	297.67
	Average Net Loan	396.15	352.33	315.19
	Rate of Interest on Loan on annual basis	10.05%	10.09%	10.10%
	Interest on loan	41.02	36.54	32.71
	Loan-2 Govt. of Assam			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	4.00	17.70	33.31
	Add: Drawal(s) during the Year	13.70	33.31	69.14
	Less: Repayment (s) of Loans during the year	0.00	17.70	3.33
	Net loan - Closing	17.70	33.31	99.12
	Average Net Loan	10.85	25.51	66.21
	Rate of Interest on Loan on annual basis	10.00%	10.00%	10.00%
	Interest on loan	0.40	2.55	6.62
	Total Loan			
	Gross loan - Opening			
	Cumulative repayments of Loans upto previous year			
	Net loan - Opening	424.34	389.67	366.00
	Add: Drawal(s) during the Year	13.70	33.31	69.14
	Less: Repayment (s) of Loans during the year	48.37	56.98	38.35
	Net loan - Closing	389.67	366.00	396.79
	Average Net Loan	407.00	377.84	381.40
	Interest on loan including Bank Charge	41.44	39.10	39.33
	Weighted average Rate of Interest on Loans	10.18%	10.35%	10.31%
	Note:			
	1.In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.			
			Petitioner	

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Lakwa Thermal Power Station				
Calculation of Interest on Normative Loan			Form No:	F14b
				Rs. Crores
S. No	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Gross Normative loan – Opening			
2	Cumulative repayment of Normative loan upto previous year			
3	Net Normative loan – Opening	0.00	5.32	7.53
4	Add: Increase due to addition during the year / period	19.59	16.92	20.19
5	Less: Decrease due to de-capitalisation during the year / period			
6	Less: Decrease due to reversal during the year / period	14.26	14.72	15.25
7	Add: Increase due to discharges during the year / period			
8	Net Normative loan - Closing	5.32	7.53	12.46
9	Average Normative loan	2.66	6.42	9.99
10	Weighted average rate of interest	10.18%	10.35%	10.31%
	Interest on Loan	0.27	0.66	1.03
	Bank Charges	0.05	0.00	0.00
11	Interest on Loan with Bank Charges	0.32	0.66	1.03
			Petitioner	

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Thermal Power Station

Details of Allocation of corporate loans to various projects

Form No: F15

Rs. Lakhs

Particulars	LTPS(R&M)	LTPS(R&M)	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans	I PFC Loans				
Currency ²	INR	INR				
Amount of Loan sanctioned	No corporate loans were allocated for this project					
Amount of Gross Loan drawn upto 31.03.2022/ COD ^{3,4,5,13,15}						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸						
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						
Distribution of loan packages to various projects						
Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual,

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Thermal Power Station

Statement of Additional Capitalisation after COD

Form No:

F16

Rs. Lakhs

No	Head of Work/ Equipment				Regulations under which claimed	Justification	Admitted Cost by Commission if any
		2022-23	2023-24	2024-25			
1	Land	-	-	-			
2	Building	-	76.58	65.00			
3	Hydraulic works	-	-	-			
4	Other civil works	21.43	149.82	15.00			
5	Plant & machinery- Gas	1,349.92	911.00	1,793.60			
6	Plant & machinery- Hydel	-	-	-			
7	Lines & cables	-	-	-			
8	Vehicle	-	-	-			
9	Furniture	0.72	-	-			
10	Other office equipment	586.55	555.00	145.00			
11	Roads on land belonging to others	-	-	-			
12	Capital spares at Generating Stations	-	-	-			

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Thermal Power Station

Date of Commercial Operation:

Financing of Additional Capitalisation **Form No:** F17

Rs. Crore

Financial Year (Starting from COD)			
	2022-23	2023-24	2024-25
Amount capitalised in Work/ Equipment			
Financing Details			
GOA Loan	19.59	16.92	20.19
Loan-2			
Total Loan²	19.59	16.92	20.19
Grant			
Equity			
Internal Resources			
Others			
Total	19.59	16.92	20.19

¹ Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent f

² Loan details for meeting the additional capitalisation requirement should be given as

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Thermal Power Station					
Administration & General Expenses			Form No:		F22
					Rs. Crore
	Particulars	2022-23	2022-23	2023-24	2024-25
		Actual	Claim	Estimated	Projected
1	Lease/ Rent	0.28	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Insurance	1.09			
3	Revenue Stamp Expenses Account	0.00			
4	Telephone, Postage, Telegram & Telex Charges	0.02			
5	Incentive & Award To Employees/Outsiders	0.00			
6	Consultancy Charges	0.11			
7	Technical Fees	0.00			
8	Other Professional Charges	0.13			
9	Conveyance And Travelling	0.18			
10	License and Registration Fees	0.00			
11	Vehicle Expenses	0.66			
12	Security / Service Charges Paid To Outside Agencies	0.00			
13	Fee And Subscriptions Books And Periodicals	0.01			
14	Fees paid to AERC	0.42			
15	Printing And Stationery	0.06			
16	Advertisement Expenses	0.06			
17	Contributions/Donations To Outside Institutes / Associations	0.25			
18	Electricity Charges To Offices	0.00			
19	Water Charges	0.00			
20	Entertainment Charges	0.12			
21	Miscellaneous Expenses	0.17			
22	Legal Charges	0.07			
23	Auditor's Fee	0.01			
24	Freight On Capital Equipments	0.00			
25	Purchase Related Advertisement Expenses	0.00			
26	Vehicle Running Expenses Truck / Delivery Van	0.00			
27	Vehicle Hiring Expenses Truck / Delivery Van	0.00			
28	Other Freight	0.00			
29	Transit Insurance	0.00			
30	Octroi	0.00			
31	Incidental Stores Expenses	0.00			
32	Fabrication Charges	0.00			
33	CSR	0.00			
	Total A&G Expenses	3.64	0.00	0.00	0.00
	Less: A&G Expenses Capitalised			5.00	
	Total A&G Expenses	3.64	0.00	-5.00	0.00
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited																												Form No:		F23				
Name of Plant/ Station: Lakwa Thermal Power Station																																		
Fixed Assets and Depreciation																																		
Name of Asset		Depreciation rate ¹	2022-23										2023-24										2024-25											
			Actual										Estimated										Projected											
			Opening balance		Adjustment as on		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2023		Addition during		Deletion during		Closing balance		Opening balance		Adjustment as on 01/04/2024		Addition during the		Deletion during the		Closing balance			
			Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr		
1	Land	0.00%	-	4.75	-	-	-	-	-	-	4.75	-	-	-	-	-	-	-	-	-	-	4.75	-	-	-	-	-	-	-	-	4.75			
2	Building	3.34%	33.58	16.13	-	-	-	0.67	-	-	33.58	16.80	33.58	16.80	-	-	0.77	0.68	-	-	34.34	17.48	34.34	17.48	-	-	-	0.65	0.69	-	-	34.99	18.17	
3	Hydraulic works	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	Other civil works	3.34%	41.34	13.31	-	-	-	0.21	1.13	-	-	41.55	14.44	41.55	14.44	-	-	1.50	1.16	-	-	43.05	15.60	43.05	15.60	-	-	0.15	1.16	-	-	43.20	16.76	
5	Plant & machinery- Gas	5.28%	294.33	296.98	-	-	-	13.50	12.14	-	-	307.83	219.12	307.83	219.12	-	-	9.11	12.38	-	-	316.94	231.50	316.94	231.50	-	-	17.94	12.85	-	-	334.88	244.35	
6	Plant & machinery- Hydel	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
7	Lines & cables	5.28%	9.29	4.62	-	-	-	0.28	-	-	9.29	4.89	9.29	4.89	-	-	0.28	-	-	-	9.29	5.17	9.29	5.17	-	-	-	0.28	-	-	-	9.29	5.45	
8	Vehicle	9.50%	0.20	0.22	-	-	-	-	-	-	0.20	0.22	0.20	0.22	-	-	-	-	-	-	0.20	0.22	0.20	0.22	-	-	-	-	-	-	0.20	0.22		
9	Furniture	6.33%	0.63	0.41	-	-	-	0.01	0.02	-	-	0.64	0.44	0.64	0.44	-	-	0.02	-	-	0.64	0.46	0.64	0.46	-	-	-	0.02	-	-	0.64	0.49		
10	Other office equipment	6.33%	0.39	0.20	-	-	-	5.87	0.02	-	-	6.26	0.22	6.26	0.22	-	-	5.55	0.20	-	-	11.81	0.41	11.81	0.41	-	-	-	1.45	0.24	-	-	13.26	0.68
11	Roads on land belonging to others	3.34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12	Capital spares at Generating Stations	5.28%	118.57	103.43	-	-	-	-	-	-	118.57	103.43	118.57	103.43	-	-	-	-	-	-	118.57	103.43	118.57	103.43	-	-	-	-	-	-	118.57	103.43		
		0.00%	503.08	345.29	-	-	-	19.59	14.26	-	-	522.67	359.56	522.67	359.56	-	-	16.92	14.72	-	-	539.59	374.28	539.59	374.28	-	-	-	20.19	15.25	-	-	559.78	389.53
Less: Depreciation on Grant																																		
Total Grant in Capital Asset																																		
Rate of Depreciation																																		
Depreciation on 90% of the Assets funded by Grants/subsidies																																		
Net Depreciation																																		
¹ Depreciation Rates as per AERC's Depreciation Rate Schedule																																		
² Name of the Assets should conform to the description of the assets mentioned in Depreciation schedule of AERC																																		
Petitioner																																		

Name of Company: Assam Power Generation Corporation Limited																				
Name of Plant/ Station: Lakwa Thermal Power Station																				
Details computation of Interest on Loan																		Form No: F24		
Rs. Lakhs																				
	Loan Details	Loan Tenure (yrs)	2022-23 Actual					2023-24 Estimated					2024-25 Projected							
			Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance
A Secured Loans																				
	LTPS(R&M)	15	9.71%	243.79	0.00	-121.90	17.76	121.90	9.71%	121.90	0.00	-121.90	5.92	0.00	9.71%	0.00	0.00	0.00	0.00	0.00
	LWHRPP	15	9.58%	1516.30	0.00	-1213.04	87.16	303.26	9.58%	303.26	0.00	-303.26	14.53	0.00	9.58%	0.00	0.00	0.00	0.00	0.00
	NRPP	15	10.38%	40273.64	0.00	-3502.06	3997.38	36771.58	10.38%	36771.58	0.00	-3502.06	3633.99	33269.53	10.38%	33269.53	0.00	-3502.06	3270.59	29767.47
	Sub-total			42033.73	0.00	-4836.99	4102.30	37196.74		37196.74	0.00	-3927.21	3654.43	33269.53		33269.53	0.00	-3502.06	3270.59	29767.47
B Unsecured Loans																				
	KLHEP	10	10.00%	26.20	99.46	0.00	2.62	125.66	10.00%	125.66	1182.90	-125.66	65.43	1182.90	10.00%	1182.90	3649.00	-118.29	294.83	4713.61
	LTPS	10	10.00%	373.80	1116.00	0.00	37.38	1489.80	10.00%	1489.80	1692.40	-1489.80	159.11	1692.40	10.00%	1692.40	2018.60	-169.24	261.71	3541.76
	NTPS	10	10.00%	0.00	128.00	0.00	0.00	128.00	10.00%	128.00	455.65	-128.00	29.18	455.65	10.00%	455.65	82.00	-45.57	47.39	492.09
	MSHEP	10	10.00%	0.00	27.00	0.00	0.00	27.00	10.00%	27.00	0.00	-27.00	1.35	0.00	10.00%	0.00	0.00	0.00	0.00	0.00
	LRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	874.07	0.00	43.70	874.07
	NRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	290.14	0.00	14.51	290.14
	Sub-total			400.00	1370.46	0.00	40.00	1770.46	10.00%	1770.46	3330.95	-1770.46	255.07	3330.95		3330.95	6913.81	-333.10	662.13	9911.66
	Grand Total Of Interest & Finance Charges (A + B + C)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
	Less: Interest & Finance Charges Capitalised			0	0	0	0	0		0	0	0	0	0		0	0	0	0	0
	Net Total Of Interest & Finance Charges (D - E)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
Petitioner																				

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Thermal Power Station					
Return on Equity			Form No: F25		
	Loan Details	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
1	Equity (Opening Balance)	Rs Crore	148.69	150.64	150.64
2	Add: Increase due to discharges during the year / period	Rs Crore	1.95	0.00	0.00
3	Less: Decrease due to de-capitalisation during the year / period	Rs Crore	0	0	0
4	Less: Decrease due to reversal during the year / period	Rs Crore	0	0	0
5	Equity (Closing Balance)	Rs Crore	150.64	150.64	150.64
6	Average Equity	Rs Crore	150	151	151
7	Rate of Return on Equity	%	15.50%	15.50%	15.50%
8	Return on Equity	Rs Crore	23.20	23.35	23.35
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Thermal Power Station					
Working Capital Requirements				Form No:	F26
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
	For Open-cycle Gas Turbine/ Combined Cycle thermal generating stations				
1	Fuel expenses for 1 month *	Rs Crore	32.65	24.85	23.02
2	Liquid fuel stock for 15 days*	Rs Crore			
3	Maintenance spares @ 30% of O&M	Rs Crore	13.96	14.84	15.78
4	O&M expenses for 1 month	Rs Crore	3.88	4.12	4.38
5	Receivables equivalent to 2 months of capacity and energy charge^	Rs Crore	79.42	70.49	65.87
	Total Working Capital Requirement	Rs Crore	129.91	114.30	109.06
	Rate of Interest #	%	11.53%	11.53%	11.53%
	Interest on Normative Working Capital Requirement	Rs Crore	14.97	13.17	12.57
	* corresponding to target availability				
	^ calculated on target availability				
	# shall be equal to the interest rate equivalent to average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff plus 300 basis points.				
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Lakwa Thermal Power Station

Income Tax Provisions		Form No: F29		
				(Rs Crore)
		2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Income Tax on the Return on Equity			
2	As Per Return Filed For The Year	6.38	0.00	0.00
3	As Assessed For The Year			
4	Credit/Debit Of Assessment Year(s) (Give Details)			
	Total	6.38	0.00	0.00
Note: 'Income Tax Provisions' details which could not be provided by the Generation Company at the time of this filing shall be furnished as and when they become due/ available.				

Name of Company: Assam Power Generation Corporation Limited Name of Plant/ Station: Lakwa Thermal Power Station				
Non-Tariff Income			Form No: F30	
			(Rs Crore)	
S. No.	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
A	Income from Investment, Fixed & Call Deposits			
	Income from Investments:			
	Interest on securities			
	Interest on fixed deposits			
	Income on other investments			
	Interest from Banks			
	Interest on (any other items)			
	Sub-Total			
B	Other Non-Tariff Income			
	Interest on Loans and Advances to staff			
	Interest on Loans and Advances to Licensee			
	Interest on Loans and Advances to Lessors			
	Interest on Loans and Advances to Suppliers/ Contractors	-14.61	-9.22	-9.22
	Income from trading			
	Gain on sale of Fixed Assets			
	Income/Fees /Collections against staff welfare activities:			
	Miscellaneous Receipts:			
	Delayed Payment charges from Beneficiaries			
	Net profit from UI charges			
	Penalty for contractor/ supplier for delay etc			
	Misc Charges			
	Sub-Total			
	Grand Total	-14.61	-9.22	-9.22

Namrup Thermal Power Station	2023-24 (from Oct 2023 onwards)	2024-25 (Projected)	Remarks
A. Gas supplied by OIL Duliaian (APM)			
1.00 Basic Price (for G.C.V. 100000) /1000 SCM	12812.74	12812.74	
2.00 Basic Price after adjustment with CV	11854.35	11854.35	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	166.48	166.48	
Total	12020.83	12020.83	
5.00 VAT @ 14.5% on above	1743.02	1743.02	
Total (A)	13763.85	13763.85	
B. T.C. for Transportation of the Oil Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 1.81 / MMBTU	66.45	66.45	
2.00 Fuel surcharge/ 1000 SCM			
Total	66.45	66.45	
2.00 GST @ 12%	7.97	7.97	
Total (B)	74.43	74.43	
C. Landed price of gas supplied to NTPS & NRPP (A+B) / 1000 SCM	13838.27	13838.27	
Lakwa Thermal Power Station			
	2023-24	2024-25 (Projected)	Remarks
A. Gas supply by GAIL (APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	12812.74	12812.74	
2.00 10% Royalty /1000 SCM	Included	Included	
Total	12812.74	12812.74	
3.00 Basic Price after adjustment with CV	13165.09	13165.09	
4.00 Marketing Margin (for NCV 10000) /1000 SCM @ Rs. 5.04 / MMBTU	200.00	200.00	
5.00 Marketing Margin after adjustment with CV	185.82	185.82	
6.00 Monthly Metering charge(Rs / 1000 SCM)	26.17	26.96	Yearly escalation 3% on TC as per agreement
7.00 Sales Tax @ 14.5 % on above	1939.68	1939.79	
Landed price of gas supply to LTPS by GAIL / 1000 SCMA)	15290.58	15290.70	
B. Gas supplied by OIL Duliaian (Non APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	21354.56	21354.56	
2.00 Basic Price after adjustment with CV	19744.43	19744.43	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	166.66	166.66	
Total	19911.09	19911.09	
5.00 VAT @ 14.5 % on above	2887.11	2887.11	
price of gas supply to LTPS & LRPP by OIL (B)	22798.20	22798.20	
C. T.C for Transportation of Oil Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 1.81 / MMBTU	66.41	66.41	TC @ As per PNGB Order (i.e 1.81 /MMBTU)
2.00 GST @ 12% on TC	7.97	7.97	
Total T.C. (C)	74.38	74.38	
D. Landed price of gas supply to LTPS/LRPP by OIL (B+C) / 1000 SCM	22872.58	22872.58	
B. Gas supplied by AGCL (Non APM)			
1.00 Basic Price (for G.C.V. 100000) / 1000 SCM	22011.63	22011.63	
2.00 Basic Price after adjustment with CV	22104.08	22104.08	
3.00 Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00 Marketing Margin after adjustment with CV	182.12	182.12	
Total	22286.20	22286.20	
5.00 VAT @ 14.5 % on above	3211.50	3211.50	
gas price to LTPS Supply by AGCL	25517.69	25517.69	
C. T.C for Transportation of AGCL Gas by AGCL			
1.00 T.C / 1000 SCM @ Rs. 320 / TSCM	320.00	320.00	TC @ As per MOM
2.00 GST @ 12% on TC			
Total T.C. (C)	320.00	320.00	
D. Landed price of gas supply to LTPS/LRPP by AGCL (B+C) / 1000 SCM	25837.69	25837.69	

		Estimated	Projected
OIL GAS for NTPS / NRPP		2023-24	2024-25
APM Natural Gas Subsidized from nominated field	Unit	3.90	3.90
APM Natural Gas Non Subsidized from nominated field	Rs / MMBTU	6.50	6.50
Natural Gas Non Subsidized from non nominated field	Rs / MMBTU	8.60	8.60
Conversion factor	Factor	39.68	39.68
\$ exchange rate for the month of September of Financial Year in Rs as obtained from RBI website			
Avg. GCV till September of Financial Year - Oil Gas for NTPS	Rs per Dollar	82.79	82.79
Avg. NCV till September of Financial Year - Oil Gas for NTPS	kcal / scm	9252	9252
	kcal / scm	8324	8324
Transmission Charge for Oil GAS - NTPS		Rs / MMBTU on GCV basis	1.81
			1.81

		Estimated	Projected
LTPS		2023-24	2024-25
GAIL Gas for LTPS	Unit	10275	10275
Avg. GCV till September of Financial Year	kcal / scm	9291	9291
Avg. NCV till September of Financial year	Rs / 1000 scm	5.04	5.04
Monthly Metering charge(Rs / 1000 SCM)	Rs/ 1000 scm	26.17	26.96
Transmission Charge for Oil GAS - LTPS	Rs / MMBTU on GCV basis	1.81	1.81
Transmission Charge for AGCL GAS - LTPS		Rs/ 1000 scm	320.00
GAIL Gas MMSM received till September of the financial year in MMSM	MMSM	27.96	27.96
Oil Gas MMSM received till September of the financial year in MMSM	MMSM	22.72	22.72
Other Source Gas MMSM received till September of the financial year in MMSM	MMSM	11.19	11.19
Avg. GCV till September of Financial Year	kcal / scm	10042	10042
Avg. NCV till September of Financial year	kcal / scm	9106	9106

		Estimated	Projected
LRPP		2023-24	2024-25
OIL Gas for LRPP	Unit	8333	8333
Avg. GCV till September of Financial Year	kcal / scm	9246	9246
Avg. NCV till September of Financial year	kcal / scm	8333	8333
Marketing Margin	Rs / 1000 scm	5.04	5.04
Oil Gas MMSM received till September of the financial year in MMSM	MMSM	58.09	58.09
Total		58.09	58.09

Actual Consumption till H1 of FY 2023-24

	GAIL	Oil	AGCL	Total
LTPS	27.96	22.72	11.19	61.87
LRPP		0	58.09	58.09
Gas price Estimated Rs/Tscm	15290.58	22872.58	25837.69	
W GCV	10275.00	9246.00	10042.00	
W NCV	9291.00	8333.00	9106.00	
Weighted Average Price LTPS Rs/Tscm	15983			
W GCV LTPS Kcal/Scm		9855		
W NCV LTPS Kcal/Scm		8906		
Weighted Average Price LRPP Rs/Tscm	22873			
W GCV LRPP Kcal/Scm		9246		
W NCV LRPP Kcal/Scm		8333		

Regulatory Formats for KLHEP

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: KLHEP

INDEX OF FORMATS

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13	Form	F9b	Break-up of Capital Cost for Gas/ Liquid fuel based Projects
14	Form	F9c	Break-up of Capital Cost for Hydro projects
15	Form	F9d	Break-up of Capital Cost for Plant & Equipment of New Hydro projects
16	Form	F10	Break-up of Construction/ Supply/ Service packages
17	Form	F11	Draw Down Schedule for Calculation of IDC & Financing Charges
18	Form	F12	Financial Package Upto CoD
19	Form	F13	Details of Project Specific Loans
20	Form	F14a	Calculation of Weighted Average Rate of Interest on Actual Loans
21	Form	F14b	Calculation of Interest on Normative Loan
22	Form	F15	Details of Allocation of corporate loans to various projects
23	Form	F16	Statement of Additional Capitalisation after COD
24	Form	F16a	Details of Assets De-capitalized during the period
25	Form	F17	Financing of Additional Capitalisation
26	Form	F18	Statement of Capital Cost
27	Form	F19	Statement of Capital Works in Progress
28	Form	F20	R&M Expenses
29	Form	F21	Employee Expenses
30	Form	F22	Administration & General Expenses
31	Form	F23	Fixed Assets and Depreciation
32	Form	F24	Details computation of Interest on Loan
33	Form	F25	Return on Equity
34	Form	F26	Working Capital Requirements
35	Form	F27	Detailed Information in respect of fuel for computation of Energy Charges
36	Form	F28	Expenses Capitalised
37	Form	F29	Income Tax Provisions
38	Form	F30	Non-Tariff Income

Instructions for the Applicant

- 1) Electronic copy in the form of CD/ Floppy Disc shall also be furnished
- 2) These formats are indicative in nature and the utility may align the line items to its chart of accounts

[illegible]

Name of Company: Assam Power Generatio

Name of Plant/ Station: KLHEP

Plant Charateristics-Hydro

Form No:

F2b

SL NO	DESCRIPTION	UNIT	2022-23	2023-24	2024-25
1	Installed Capacity	MW	100.00	100.00	100.00
2	Free Power to Home State	%			
3	Date of Commercial Operation	-			
	Unit – I	-	06-04-2007		
	Unit – II	-	06-04-2007		
	Unit – III				
	...				
4	Type of Station	-			
	Surface/Underground	-	Semi underground		
	Purely ROR/Pondage/Storage	-	ROR with Pondage		
	Peaking/Non Peaking	-	Both (Peaking in lean season)		
	No. of hours Peaking	-	5 hrs		
	Overload Capacity (MW) 7& period	-	3% continuous		
5	Type of Excitation	-			
	Rotating exciters on Generator	-			
	Static excitation	-			
6	Design Energy (Annual)	Gwh	390.00	390.00	390.00
7	Auxiliary consumption including Transformation losses	%	0.50%	0.50%	0.50%
8	Normative Plant Availability Factor (NAPAF)	%	85%	85%	85%
9.1	Maintenance spares for WC	Rs. Lakh			
9.2	Receivable for WC	Rs. Lakh			
9.3	Base rate on return on equity	%			
9.4	Tax rate	%			
9.5	SBI base rate+350 basis point as on_	%			

SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of Company: Assam Power Generation Corp

0

Name of Plant/ Station: KLHEP

0

1. Location	
State /Distt.	Karbi Anglong District of Assam
River	Borpani
2. Diversion Tunnel	
Size, Shape	Intake Type Shaft with vertical gate intake structure provided with trash rack El. Of invert: 301.5 M
Length	4430 M
3. Dam	
Type	Concrete Gravity dam
Maximum dam height	58.50 M upto Spillway crest
4. Spillway	
Type	Oggee Shape Spillway with trejectory bucket
Crest level of Spillway	EL 300.00 M
5. Reservoir	
Full Reservoir Level (FRL)	316.50 M
Minimum Draw Down Level(MDDL)	308.0 M
Live Storage (MCM)	313.8 M
6. De-silting Arrangement	
Type	
Number and Size	
Particle size to be removed (mm)	
7. Head Race Tunnel	
Size and Type	Horse shoe shaped
Length	4430 M
Design Discharge (Cumecs)	
8. Surge Shaft	
Type	Simple with upper and lower expansion chamber
Diameter	8.00 M
Height	46.0m
9. Penstock/ Pressure Shafts	
Type	Circular, fabricated steel pipes
Diameter & Length	2.60 M, Penstock 1 Length=526.70 M Penstock 2 Length=514.20 M
10. Power House	
Type	Semi- underground Indoor type
Installed Capacity (No of Units x MW)	2X50 MW
Peaking Capacity during lean period (MW)	
Type of Turbine	vertical Shaft SingleRunner Single Flow Francis Turbine
Rated Head (M)	217.0 M
Rated Discharge (Cumecs)	57.00 Cumec
11. Tail Race Tunnel	
Diameter, Shape	
Length	
Minimum tail water level	58 M
12. Switch yard	
Type of Switch gear	Outdoor type
No. Of generator bays	2
No. Of Bus Coupler bays	1
No. Of line Bays	2

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: KLHEP

Abstract of admitted Capital Cost for the existing Project Form No: F5

	Particulars	Unit	Details
	Last date of order of Commission for the project as on 29.03.2023		
1	Capital Cost as admitted by AERC	Rs Lakhs	50548
2	Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	Rs Lakhs	NIL
3	Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	Rs Lakhs	NIL
4	Gross Normative Debt	Rs Lakhs	35383.6
5	Cumulative Repayment	Rs Lakhs	24824.00
6	Net Normative Debt	Rs Lakhs	10559.60
7	Normative Equity	Rs Lakhs	15442.2
8	Cumulative Depreciation	Rs Lakhs	24824.00
9	Freehold land	Rs Lakhs	NIL

Petitioner

Name of Company: Assam Power Generation Corporation

Name of Plant/ Station: KLHEP

Statement showing claimed capital cost

Form No:

F5a

	Particulars	Unit	2022-23	2023-24	2024-25
1	Opening Capital Cost	Rs Lakhs	50546.96	51148.74	52331.64
2	Add: Addition during the year / period	Rs Lakhs	601.78	1182.90	3649.00
3	Less: Decapitalisation during the year / period	Rs Lakhs			
4	Less: Reversal during the year / period	Rs Lakhs			
5	Add: Discharges during the year / period	Rs Lakhs			
6	Closing Capital Cost	Rs Lakhs	51148.74	52331.64	55980.64
7	Average Capital Cost	Rs Lakhs	50847.85	51740.19	54156.14

Petitioner

Name of Company: Assam Power Generat

Name of Plant/ Station: KLHEP

Details of Project Specific Loans

Form No:

F13

Rs. Lakhs

Particulars	KLHEP	KLHEP	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans	PFC				
Currency ²	INR					
Amount of Loan sanctioned	0.00	0.00	Cumulative Loan of GOA till 31.03.2023 has been converted into Equity			
Amount of Gross Loan drawn upto 31.03.2023 COD ^{3,4,5,13,15}	0.00	0.00				
Interest Type ⁶	Fixed	Floating				
Fixed Interest Rate, if applicable	10%	12%				
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given separately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

¹⁵ In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation			
Name of Plant/ Station: KLHEP			
Calculation of Weighted Average Rate of Interest on Actual Loans			Form No: F14a
			Rs. Crores
Particulars	2022-23	2023-24	2024-25
	Actual	Estimated	Projected
Loan-1 from PFCL			
Gross loan - Opening			
Cumulative repayments of Loans upto previous year			
Net loan - Opening	420.34	371.97	332.70
Add: Drawal(s) during the Year	0.00	0.00	0.00
Less: Repayment (s) of Loans during the year	48.37	39.27	35.02
Net loan - Closing	371.97	332.70	297.67
Average Net Loan	396.15	352.33	315.19
Rate of Interest on Loan on annual basis	10.05%	10.09%	10.10%
Interest on loan	41.02	36.54	32.71
Loan-2 Govt. of Assam			
Gross loan - Opening			
Cumulative repayments of Loans upto previous year			
Net loan - Opening	4.00	17.70	33.31
Add: Drawal(s) during the Year	13.70	33.31	69.14
Less: Repayment (s) of Loans during the year	0.00	17.70	3.33
Net loan - Closing	17.70	33.31	99.12
Average Net Loan	10.85	25.51	66.21
Rate of Interest on Loan on annual basis	10.00%	10.00%	10.00%
Interest on loan	0.40	2.55	6.62
Total Loan			
Gross loan - Opening			
Cumulative repayments of Loans upto previous year			
Net loan - Opening	424.34	389.67	366.00
Add: Drawal(s) during the Year	13.70	33.31	69.14
Less: Repayment (s) of Loans during the year	48.37	56.98	38.35
Net loan - Closing	389.67	366.00	396.79
Average Net Loan	407.00	377.84	381.40
Interest on loan including Bank Charge	41.44	39.10	39.33
Weighted average Rate of Interest on Loans	10.18%	10.35%	10.31%
Note:			
1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.			
			Petitioner

Name of Company: Assam Power Generation C				
Name of Plant/ Station: KLHEP				
Calculation of Interest on Normative Loan			Form No:	F14b
			Rs. Crores	
S. No.	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Gross Normative loan – Opening			
2	Cumulative repayment of Normative loan upto previous year			
3	Net Normative loan – Opening	123.72	107.60	96.69
4	Add: Increase due to addition during the year / period	6.02	11.58	36.49
5	Less: Decrease due to de-capitalisation during the year / period			
6	Less: Decrease due to reversal during the year / period	22.14	22.48	23.43
7	Add: Increase due to discharges during the year / period			
8	Net Normative loan - Closing	107.60	96.69	109.75
9	Average Normative loan	115.66	102.14	103.22
10	Weighted average rate of interest	10.18%	10.35%	10.31%
	Interest on Loan	11.78	10.57	10.64
	Bank Charges	0.05	0.00	0.00
11	Interest on Loan with Bank Charges	11.82	10.57	10.64
			Petitioner	

Name of Company: Assam Power Gene

Name of Plant/ Station: KLHEP

Details of Allocation of corporate loans to various projects

Form No: F15

Rs. Lakhs

Particulars	LTPS(R&M)	LTPS(R&M)	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans	I PFC Loans				
Currency ²	INR	INR				
Amount of Loan sanctioned	No corporate loans were allocated for this project					
Amount of Gross Loan drawn upto 31.03.2022/ COD ^{3,4,5,13,15}						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸						
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Distribution of loan packages to various projects

Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinaced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Name of Company: Assam Power Generation C

Name of Plant/ Station: KLHEP

Statement of Additional Capitalisation after COD

Form No:

F16

Rs. Lakhs

No	Head of Work/ Equipment				Regulations under which claimed	Justification	Admitted Cost by Commission if any
		2022-23	2023-24	2024-25			
1	Land	-	-	-			
2	Building	-	-	-			
3	Hydraulic works	-	125.00	165.00			
4	Other civil works	-	-	250.00			
5	Plant & machinery- Gas	-	-	-			
6	Plant & machinery- Hydel	1.12	486.90	3,085.00			
7	Lines & cables	-	-	-			
8	Vehicle	-	-	-			
9	Furniture	-	-	-			
10	Other office equipment	600.66	571.00	149.00			
11	Roads on land belonging to others	-	-	-			
12	Capital spares at Generating Stations	-	-	-			

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

Petitioner

Name of Company: Assam Power Generation

Name of Plant/ Station: KLHEP

Date of Commercial Operation:

Financing of Additional Capitalisation

Form No:

F17

Rs. Crore

Financial Year (Starting from COD)			
	2022-23	2023-24	2024-25
Amount capitalised in Work/ Equipment			
Financing Details			
GOA Loan	6.02	11.58	36.49
Loan-2			
Total Loan ²	6.02	11.58	36.49
Grant			
Equity			
Internal Resources			
Others			
Total	6.02	11.58	36.49

¹ Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.

² Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevant.

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: KLHEP				
Administration & General Expenses			Form No:	F22
				Rs. Crore
	Particulars	2022-23 Actual	2022-23 Claim	2023-24 Estimated
1	Lease/ Rent	0.02	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Insurance	0.92		
3	Revenue Stamp Expenses Account	0.00		
4	Telephone, Postage, Telegram & Telex Charges	0.02		
5	Incentive & Award To Employees/Outsiders	0.00		
6	Consultancy Charges	0.10		
7	Technical Fees	0.00		
8	Other Professional Charges	0.14		
9	Conveyance And Travelling	0.41		
10	License and Registration Fees	0.00		
11	Vehicle Expenses	0.98		
12	Security / Service Charges Paid To Outside Agencies	0.00		
13	Fee And Subscriptions Books And Periodicals	0.01		
14	Fees paid to AERC	0.17		
15	Printing And Stationery	0.06		
16	Advertisement Expenses	0.06		
17	Contributions/Donations To Outside Institutes / Associations	0.33		
18	Electricity Charges To Offices	0.00		
19	Water Charges	0.00		
20	Entertainment Charges	0.04		
21	Miscellaneous Expenses	0.20		
22	Legal Charges	0.07		
23	Auditor's Fee	0.01		
24	Freight On Capital Equipments	0.00		
25	Purchase Related Advertisement Expenses	0.00		
26	Vehicle Running Expenses Truck / Delivery Van	0.00		
27	Vehicle Hiring Expenses Truck / Delivery Van	0.00		
28	Other Freight	0.00		
29	Transit Insurance	0.00		
30	Octroi	0.00		
31	Incidental Stores Expenses	0.00		
32	Fabrication Charges	0.00		
33	CSR	0.00		
	Total A&G Expenses	3.55		
	Less: A&G Expenses Capitalised	0.00		
	Total A&G Expenses	3.55		
				Petitioner

Name of Company: Assam Power Generation Corporation Limited																																
Name of Plant/ Station: KLHEP																																
Fixed Assets and Depreciation																																
																												Form No: F23				
Rs. Crore																																
Name of Asset	Depreciat ion rate ¹	2022-23										2023-24										2024-25										
		Actual										Estimated										Projected										
		Opening balance		Adjustment as on		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2023		Addition during		Deletion during		Closing balance		Opening balance		Adjustment as on 01/04/2024		Addition during the		Deletion during the		Closing balance		
		Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	
1 Land	0.00%	4.40	-	-	-	-	-	-	-	4.40	-	4.40	-	-	-	-	-	-	-	4.40	-	4.40	-	-	-	-	-	-	-	4.40	-	
2 Building	3.34%	16.72	3.52	-	-	-	0.56	-	-	16.72	4.08	16.72	4.08	-	-	0.56	-	-	16.72	4.65	16.72	4.65	-	-	-	0.56	-	-	16.72	5.21		
3 Hydraulic works	5.28%	161.15	88.32	-	-	-	8.51	-	-	161.15	96.83	161.15	96.83	-	-	1.25	8.54	-	-	162.40	105.37	162.40	105.37	-	-	-	1.65	8.59	-	164.05	113.95	
4 Other civil works	3.34%	99.42	35.69	-	-	-	3.33	-	-	99.42	39.02	99.42	39.02	-	-	-	3.33	-	-	99.42	42.35	99.42	42.35	-	-	-	2.50	3.37	-	101.92	45.72	
5 Plant & machinery- Gas	5.28%	-	(0.06)	-	-	-	-	-	-	-	(0.06)	-	(0.06)	-	-	-	-	-	-	-	(0.06)	-	(0.06)	-	-	-	-	-	-	-	(0.06)	
6 Plant & machinery- Hydel	5.28%	172.47	92.75	-	-	0.01	9.19	-	-	172.48	101.94	172.48	101.94	-	-	4.87	9.32	-	-	177.35	111.26	177.35	111.26	-	-	-	30.85	10.13	-	208.20	121.39	
7 Lines & cables	5.28%	31.71	18.73	-	-	-	0.53	-	-	31.71	19.26	31.71	19.26	-	-	-	0.53	-	-	31.71	19.78	31.71	19.78	-	-	-	0.53	-	-	31.71	20.31	
8 Vehicle	9.50%	0.29	0.24	-	-	-	0.00	-	-	0.29	0.24	0.29	0.24	-	-	-	0.00	-	-	0.29	0.24	0.29	0.24	-	-	-	-	0.00	-	0.29	0.24	
9 Furniture	6.33%	0.12	0.03	-	-	-	0.01	-	-	0.12	0.03	0.12	0.03	-	-	-	0.01	-	-	0.12	0.04	0.12	0.04	-	-	-	-	0.01	-	0.12	0.05	
10 Other office equipment	6.33%	0.14	0.06	-	-	6.01	0.01	-	-	6.15	0.07	6.15	0.07	-	-	5.71	0.19	-	-	11.86	0.27	11.86	0.27	-	-	-	1.49	0.24	-	13.35	0.51	
11 Roads on land belonging to others	3.34%	0.28	0.08	-	-	-	-	-	-	0.28	0.08	0.28	0.08	-	-	-	-	-	-	0.28	0.08	0.28	0.08	-	-	-	-	-	-	0.28	0.08	
12 Capital spares at Generating Stations	5.28%	18.76	16.88	-	-	-	-	-	-	18.76	16.88	18.76	16.88	-	-	-	-	-	-	18.76	16.88	18.76	16.88	-	-	-	-	-	-	18.76	16.88	
	0.00%	506.47	256.23	-	-	6.02	22.14	-	-	511.49	278.37	511.49	278.37	-	-	11.83	22.48	-	-	523.32	300.85	523.32	300.85	-	-	-	36.49	23.43	-	559.81	324.28	
Less: Depreciation on Grant																																
Total Grant in Capital Asset																																
Rate of Depreciation							4.35%										4.35%											4.33%				
Depreciation on 90% of the Assets funded by Grants/subsidies							-										-										-					
Net Depreciation							22.14	-									22.48	-									23.43	-				
¹ Depreciation Rates as per AERC's Depreciation Rate Schedule																																
² Name of the the Assets should conform to the description of the assets mentioned in Depreciation schedule of AERC																																
Petitioner																																

Name of Company: Assam Power Generation Corporation Limited																			
Name of Plant/ Station: KLHEP																			
Details computation of Interest on Loan																			Form No: F24
																			Rs. Lakhs
	Loan Tenure (yrs)	2022-23 Actual						2023-24 Estimated						2024-25 Projected					
		Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance
A Secured Loans																			
LTPS(R&M)	15	9.71%	243.79	0.00	-121.90	17.76	121.90	9.71%	121.90	0.00	-121.90	5.92	0.00	9.71%	0.00	0.00	0.00	0.00	0.00
LWHRPP	15	9.58%	1516.30	0.00	-1213.04	87.16	303.26	9.58%	303.26	0.00	-303.26	14.53	0.00	9.58%	0.00	0.00	0.00	0.00	0.00
NRPP	15	10.38%	40273.64	0.00	-3502.06	3997.38	36771.58	10.38%	36771.58	0.00	-3502.06	3633.99	33269.53	10.38%	33269.53	0.00	-3502.06	3270.59	29767.47
Sub-total			42033.73	0.00	-4836.99	4102.30	37196.74		37196.74	0.00	-3927.21	3654.43	33269.53		33269.53	0.00	-3502.06	3270.59	29767.47
B Unsecured Loans																			
KLHEP	10	10.00%	26.20	99.46	0.00	2.62	125.66	10.00%	125.66	1182.90	-125.66	65.43	1182.90	10.00%	1182.90	3649.00	-118.29	294.83	4713.61
LTPS	10	10.00%	373.80	1116.00	0.00	37.38	1489.80	10.00%	1489.80	1692.40	-1489.80	159.11	1692.40	10.00%	1692.40	2018.60	-169.24	261.71	3541.76
NTPS	10	10.00%	0.00	128.00	0.00	0.00	128.00	10.00%	128.00	455.65	-128.00	29.18	455.65	10.00%	455.65	82.00	-45.57	47.39	492.09
MSHEP	10	10.00%	0.00	27.00	0.00	0.00	27.00	10.00%	27.00	0.00	-27.00	1.35	0.00	10.00%	0.00	0.00	0.00	0.00	0.00
LRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	874.07	0.00	43.70	874.07
NRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	290.14	0.00	14.51	290.14
Sub-total			400.00	1370.46	0.00	40.00	1770.46	10.00%	1770.46	3330.95	-1770.46	255.07	3330.95		3330.95	6913.81	-333.10	662.13	9911.66
Grand Total Of Interest & Finance Charges (A + B + C)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
Less: Interest & Finance Charges Capitalised			0	0	0	0	0		0	0	0	0	0		0	0	0	0	0
Net Total Of Interest & Finance Charges (D - E)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
Petitioner																			

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: KLHEP					
Return on Equity			Form No: F25		
	Loan Details	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
1	Equity (Opening Balance)	Rs Crore	154.42	156.43	156.68
2	Add: Increase due to discharges during the year / period	Rs Crore	2.01	0.25	0.00
3	Less: Decrease due to de-capitalisation during the year / period	Rs Crore	0	0	0
4	Less: Decrease due to reversal during the year / period	Rs Crore	0	0	0
5	Equity (Closing Balance)	Rs Crore	156.43	156.68	156.68
6	Average Equity	Rs Crore	155	157	157
7	Rate of Return on Equity	%	15.50%	15.50%	15.50%
8	Return on Equity	Rs Crore	24.09	24.27	24.29
			Petitioner		

Name of Company: Assam Power Generation Corp					
Name of Plant/ Station: KLHEP					
Working Capital Requirements			Form No: F26		
	Particulars	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
	For Hydro Generating stations				
1	O&M expenses for 1 month	Rs Crore	2.86	3.04	3.23
2	Maintenance spares @ 15% of O&M	Rs Crore	10.28	10.93	11.62
3	Receivables equivalent to 2 months of annual fixed charge	Rs Crore	19.91	18.49	15.81
	Total Working Capital Requirement	Rs Lakhs	33.05	32.46	30.66
	Rate of Interest #	%	11.53%	11.53%	11.53%
	Interest on Normative Working Capital Requirement	Rs Crore	3.81	3.74	3.53
	* corresponding to target availability				
	^ calculated on target availability				
	# shall be equal to the interest rate equivalent to average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff plus 300 basis points.				
			Petitioner		

Name of Company: Assam Power Generation Corporation L
Name of Plant/ Station: KLHEP

Income Tax Provisions			Form No: F29	
				(Rs Crore)
		2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Income Tax on the Retun on Equity			
2	As Per Return Filed For The Year	1.51	0.00	0.00
3	As Assessed For The Year			
4	Credit/Debit Of Assessment Year(s) (Give Details)			
	Total	1.51	0.00	0.00
Note: 'Income Tax Provisions' details which could not be provided by the Generation Company at the time of this filing shall be furnished as and when they become due/ available.				

Name of Company: Assam Power Generation Corporation L				
Name of Plant/ Station: KLHEP				
Non-Tariff Income			Form No:	F30
			(Rs Crore)	
S. No.	Particulars	2022-23 Actual	2023-24 Estimated	2024-25 Projected
A	Income from Investment, Fixed & Call Deposits			
	Income from Investments:			
	Interest on securities			
	Interest on fixed deposits			
	Income on other investments			
	Interest from Banks			
	Interest on (any other items)			
	Sub-Total			
B	Other Non-Tariff Income			
	Interest on Loans and Advances to staff			
	Interest on Loans and Advances to Licensee			
	Interest on Loans and Advances to Lessors			
	Interest on Loans and Advances to Suppliers/ Contractors	-13.86	-5.75	-5.75
	Income from trading			
	Gain on sale of Fixed Assets			
	Income/Fees /Collections against staff welfare activities:			
	Miscellaneous Receipts:			
	Delayed Payment charges from Beneficiaries			
	Net profit from UI charges			
	Penalty for contractor/ supplier for delay etc			
	Misc Charges			
	Sub-Total			
	Grand Total	-13.86	-5.75	-5.75

Regulatory Formats for LRPP

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

INDEX OF FORMATS

	Formats		PARTICULARS
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2	Form	F2a	Plant Characteristics-Thermal
3	Form	F2b	Plant Characteristics-Hydro
4	Form	F3a	Normative Parameters Considered for Tariff Computations-Thermal
5	Form	F3b	Normative Parameters Considered for Tariff Computations-Hydro
6	Form	F4	Generation Details and Variable Cost
7	Form	F5	Abstract of admitted Capital Cost for the existing Project
8	Form	F5a	Statement showing claimed capital cost
9	Form	F6	Details of Foreign Loans
10	Form	F7	Details of Foreign Equity
11	Form	F8	Capital Cost Estimates and Schedule of Commissioning for New projects
12	Form	F9a	Break-up of Capital Cost for Coal/ Lignite based projects
13	Form	F9b	Break-up of Capital Cost for Gas/ Liquid fuel based Projects
14	Form	F9c	Break-up of Capital Cost for Hydro projects
15	Form	F9d	Break-up of Capital Cost for Plant & Equipment of New Hydro projects
16	Form	F10	Break-up of Construction/ Supply/ Service packages
17	Form	F11	Draw Down Schedule for Calculation of IDC & Financing Charges
18	Form	F12	Financial Package Upto CoD
19	Form	F13	Details of Project Specific Loans
20	Form	F14a	Calculation of Weighted Average Rate of Interest on Actual Loans
21	Form	F14b	Calculation of Interest on Normative Loan
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23	Form	F16	Statement of Additional Capitalisation after COD
24	Form	F16a	Details of Assets De-capitalized during the period
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26	Form	F18	Statement of Capital Cost
27	Form	F19	Statement of Capital Works in Progress
28	Form	F20	R&M Expenses
29	Form	F21	Employee Expenses
30	Form	F22	Administration & General Expenses
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32	Form	F24	Details computation of Interest on Loan
33	Form	F25	Return on Equity
34	Form	F26	Working Capital Requirements
35	Form	F27	Detailed Information in respect of fuel for computation of Energy Charges
36	Form	F28	Expenses Capitalised
37	Form	F29	Income Tax Provisions
38	Form	F30	Non-Tariff Income

Instructions for the Applicant

- 1) Electronic copy in the form of CD/ Floppy Disc shall also be furnished
- 2) These formats are indicative in nature and the utility may align the line items to its chart of accounts

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Lakwa Replacement Power Plant						
Annual Revenue Requirement Summary					Form No:	F1
					Rs Crore	
		Form	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
A	Generation					
1	Gross Generation (MU)	F4	505.41	505.41	509.94	519.40
2	Aux Consumption (%)	F4	1.58%	3.5%	3.5%	3.5%
3	Net Generation (MU)	F4	497.40	487.72	492.09	501.22
B	Capacity Charges (Annual Fixed Charges)					
1	O&M expenses (including Increase in AERC Tariff Fees)					
a	Employee Expenses	F21	10.66	30.37	32.29	34.31
b	R & M Expense	F20	14.75			
c	A&G Expense	F22	3.22			
2	Depreciation	F23	13.67	13.67	13.79	14.02
3	Interest on Loans	F14b	2.32	2.32	1.43	0.63
4	Return on Equity	F25		12.61	12.71	12.71
5	Interest on Working Capital	F26		11.54	11.37	11.52
6	Income Tax	F29	5.26	5.26	0.00	0.00
7	Cost of secondary fuel (only for coal based stations)	F4				
8	Special allowance in lieu of R&M or separate compensation allowance		8.90	8.90	33.19	33.75
9	Capacity Building		0.04	0.04	0.00	0.00
10	Less: Other Income	F30	0.00	0.00	0.00	0.00
	Total		58.83	84.71	104.78	106.95
C	Variable Charges (Energy Charges)					
	Energy Charges from Primary Fuel (Rs Cr) ^{C1, C2, C3, C4}	F4	295.05	297.64	275.44	276.24
	Energy Charges from Primary Fuel (Rs/ kWh)	F4	5.93	6.10	5.60	5.51
			7.11	7.84	7.73	7.65
C1 - If multifuel is used simultaneously, energy charges to be given in respect of every fuel individually						
C2 - Energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/ liquid fuel fired plants						
C3 - Energy charge shall be worked out based on ex-bus energy scheduled to be sent out						
Petitioner						

Name of Company: Assam Power Generation Corporation Limited							
Name of Plant/ Station: Lakwa Replacement Power Plant							
Form No : F2a							
Unit(s)/ Block(s) Parameters	Unit I	Unit II	Unit III	Unit IV	Unit V	Unit VI	Unit VII
Installed Capacity (MW)	9.965	9.965	9.965	9.965	9.965	9.965	9.965
Schedule COD as per Investment Approval							
Actual COD /Date of Taken Over (as applicable)	4/26/2018						
Pit Head or Non Pit Head	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Name of the Boiler Manufacture	WARTSILA, FINLAND OY						
Name of Turbine Generator Manufacture	ABB						
Main Steams Pressure at Turbine inlet (kg/Cm2) abs ¹ .	N/A						
Main Steam Temperature at Turbine inlet (oC) ¹	N/A						
Reheat Steam Pressure at Turbine Inlet (kg/Cm2) ¹	N/A						
Reheat Steam Temperature at Turbine inlet (oC) ¹	N/A						
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	N/A						
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	N/A						
Unit Gross electrical output under MCR /Rated condition (MW) ²	9.97	9.97	9.97	9.97	9.97	9.97	9.97
Unit Gross electrical output under VWO condition (MW) ²	9.97	9.97	9.97	9.97	9.97	9.97	9.97
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	1873	1873	1873	1873	1873	1873	1873
Conditions on which design turbine cycle heat rate guaranteed	NCV	NCV	NCV	NCV	NCV	NCV	NCV
% MCR							
% Makeup Water Consumption	N/A						
Design Capacity of Make up Water System	N/A						
Design Capacity of Inlet Cooling System	N/A						
Design Cooling Water Temperature (0C)	N/A						
Back Pressure	N/A						
Steam flow at super heater outlet under BMCR condition (tons/hr)	N/A						
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)	N/A						
Steam Temperature at super heater outlet under BMCR condition (0C)	N/A						
Steam Temperature at Reheater outlet at BMCR condition (0C)	N/A						
Design / Guaranteed Boiler Efficiency (%) ⁴	N/A						
Design Fuel with and without Blending of domestic/imported coal	N/A						
Type of Cooling Tower	N/A						
Type of cooling system ⁵	N/A						
Type of Boiler Feed Pump ⁶	N/A						
Fuel Details ⁷							
-Primary Fuel	Natural gas						
-Secondary Fuel	N/A						
-Alternate Fuels	N/A						
Special Features/ Site Specific Features ⁸	MAKEUP WATER SYSTEM						
Special Technological Features ⁹	N/A						
Environmental Regulation related features ¹⁰							
Any other special features							
1: At Turbine MCR condition. 2: with 0% (Nil) make up and design Cooling water temperature 3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature. 4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put 5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc. 6: Motor driven, Steam turbine driven etc. 7: Coal or natural gas or Naptha or lignite etc. 8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. 9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc. 10: Environmental Regulation related features like FGD, ESP etc., Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations. Note 3: The Terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA Technical Standards							

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Abstract of admitted Capital Cost for the existing Project

Form No:

F5

	Particulars	Unit	Details
	Last date of order of Commission for the project as on 29.03.2023		
1	Capital Cost as admitted by AERC	Rs Lakhs	26792
2	Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	Rs Lakhs	NIL
3	Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	Rs Lakhs	NIL
4	Gross Normative Debt	Rs Lakhs	18754.4
5	Cumulative Repayment	Rs Lakhs	4362.00
6	Net Normative Debt	Rs Lakhs	14392.40
7	Normative Equity	Rs Lakhs	8062.5
8	Cumulative Depreciation	Rs Lakhs	4362.00
9	Freehold land	Rs Lakhs	NIL

Petitioner

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Lakwa Replacement Power Plant

Statement showing claimed capital cost

Form No:

F5a

	Particulars	Unit	2022-23	2023-24	2024-25
1	Opening Capital Cost	Rs Lakhs	26757.46	27321.63	27696.63
2	Add: Addition during the year / period	Rs Lakhs	564.17	375.00	874.07
3	Less: Decapitalisation during the year / period	Rs Lakhs			
4	Less: Reversal during the year / period	Rs Lakhs			
5	Add: Discharges during the year / period	Rs Lakhs			
6	Closing Capital Cost	Rs Lakhs	27321.63	27696.63	28570.69
7	Average Capital Cost	Rs Lakhs	27039.54	27509.13	28133.66

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Details of Project Specific Loans				Form No: F13		Rs. Lakhs
Particulars	LRPP	Package 2	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	I GOA -Loans					
Currency ²	INR					
Amount of Loan sanctioned	0	Total GOA Loan till 31.03.2023 has been converted into Equity				
Amount of Gross Loan drawn upto 31.03.2023 COD ^{3,4,5,13,15}	0					
Interest Type ⁶	Fixed					
Fixed Interest Rate, if applicable	10%					
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given seperately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given seperately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Lakwa Replacement Power Plant						
Calculation of Weighted Average Rate of Interest on Actual Loans					Form No:	F14a
					Rs. Crores	
	Particulars	2022-23 Actual	2023-24 Estimated	2024-25 Projected		
	Loan-1 from PFCL					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	420.34	371.97	332.70		
	Add: Drawal(s) during the Year	0.00	0.00	0.00		
	Less: Repayment (s) of Loans during the year	48.37	39.27	35.02		
	Net loan - Closing	371.97	332.70	297.67		
	Average Net Loan	396.15	352.33	315.19		
	Rate of Interest on Loan on annual basis	10.05%	10.09%	10.10%		
	Interest on loan	41.02	36.54	32.71		
	Loan-2 Govt. of Assam					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	4.00	17.70	33.31		
	Add: Drawal(s) during the Year	13.70	33.31	69.14		
	Less: Repayment (s) of Loans during the year	0.00	17.70	3.33		
	Net loan - Closing	17.70	33.31	99.12		
	Average Net Loan	10.85	25.51	66.21		
	Rate of Interest on Loan on annual basis	10.00%	10.00%	10.00%		
	Interest on loan	0.40	2.55	6.62		
	Total Loan					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	424.34	389.67	366.00		
	Add: Drawal(s) during the Year	13.70	33.31	69.14		
	Less: Repayment (s) of Loans during the year	48.37	56.98	38.35		
	Net loan - Closing	389.67	366.00	396.79		
	Average Net Loan	407.00	377.84	381.40		
	Interest on loan including Bank Charge	41.44	39.10	39.33		
	Weighted average Rate of Interest on Loans	10.18%	10.35%	10.31%		
	Note:					
	1.In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.					
					Petitioner	

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Lakwa Replacement Power Plant				
Calculation of Interest on Normative Loan			Form No:	F14b
			Rs. Crores	
S. No.	Particulars	2022-23 Actual	2023-24 Estimated	2024-25 Projected
1	Gross Normative loan – Opening			
2	Cumulative repayment of Normative loan upto previous year			
3	Net Normative loan – Opening	26.83	18.80	8.76
4	Add: Increase due to addition during the year / period	5.64	3.75	8.74
5	Less: Decrease due to de-capitalisation during the year / period			
6	Less: Decrease due to reversal during the year / period	13.67	13.79	14.02
7	Add: Increase due to discharges during the year / period			
8	Net Normative loan - Closing	18.80	8.76	3.48
9	Average Normative loan	22.82	13.78	6.12
10	Weighted average rate of interest	10.18%	10.35%	10.31%
	Interest on Loan	2.32	1.43	0.63
	Bank Charges	0.00	0.00	0.00
11	Interest on Loan with Bank Charges	2.32	1.43	0.63
			Petitioner	

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Details of Allocation of corporate loans to various projects

Form No:

F15

Rs. Lakhs

Particulars	II GOA -Loans (Source_ADB)	Package 2	Package 3	Package 4	Package 5	Package 6
Source of Loan ¹	II GOA -Loans (Source_ADB)					
Currency ²	INR					
Amount of Loan sanctioned	No corporate loans were allocated for this project					
Amount of Gross Loan drawn upto 31.03.2023/ COD ^{3,4,5,13,15}						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸						
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						

Distribution of loan packages to various projects

Name of the Projects						Total
Project 1						
Project 2						
Project 3 and so on						

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

¹⁵ In case of Foreign loan, date of each drawl & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

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Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Statement of Additional Capitalisation after COD

Form No:

F16

Rs. Lakhs

No	Head of Work/ Equipment				Regulations under which claimed	Justification	Admitted Cost by Commission if any
		2022-23	2023-24	2024-25			
1	Land	-	-	-			
2	Building	131.86	-	-			
3	Hydraulic works	-	-	-			
4	Other civil works	9.16	-	45.00			
5	Plant & machinery- Gas	-	-	725.07			
6	Plant & machinery- Hydel	-	-	-			
7	Lines & cables	-	-	-			
8	Vehicle	-	-	-			
9	Furniture	4.37	-	-			
10	Other office equipment	418.78	375.00	104.00			
11	Roads on land belonging to others	-	-	-			
12	Capital spares at Generating Stations	-	-	-			

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Date of Commercial Operation:

Financing of Additional Capitalisation Form No: F17

Rs. Crore

Financial Year (Starting from COD)			
	2022-23	2023-24	2024-25
Amount capitalised in Work/ Equipment			
Financing Details			
GOA Loan	5.64	3.75	8.74
Loan-2			
Total Loan ²	5.64	3.75	8.74
Grant			
Equity			
Internal Resources			
Others			
Total	5.64	3.75	8.74

¹ Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent years.

² Loan details for meeting the additional capitalisation requirement should be given.

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
R&M Expenses			Form No:	F20	
			Rs. Crore		
	Particulars	2022-23	2022-23	2023-24	2024-25
		Actual	Claim	Estimated	Projected
1	Plant and Machinery	10.14	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Building	1.44			
3	Civil Works	0.12			
4	Hydraulic Works	0.01			
5	Lines, Cables Net Works etc.	0.00			
6	Vehicles	0.00			
7	Furniture and Fixtures	0.04			
8	Office Equipments	0.02			
9	Station Supplies	0.00			
	Lubricants & Consumable stores	3.00			
	Oil/Turbine Oil consumed in internal co	0.00			
	Any other items (Spl R&M)	0.00			
10	Other R&M Charges	0.00			
	Total	14.75	-	-	-
11	Any other items (Capitalisation)	0			
	Total	14.75	-	-	-
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
Employee Expenses			Form No:		F21
					Rs. Crore
	Particulars	2022-23	2022-23	2023-24	2024-25
		Actual	Claim	Estimated	Projected
1	Salaries	4.95	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Additional Pay	0.00			
3	Dearness Allowance (DA)	1.49			
4	Other Allowances & Relief	0.66			
5	Addl. Pay & C.Off Encashment	0.00			
6	Interim Relief / Wage Revision	0.00			
7	Honorarium/Overtime	0.06			
8	Bonus/ Exgratia To Employees	0.00			
9	Medical Expenses Reimbursement	0.00			
10	Travelling Allowance(Conveyance Allowance)	0.00			
11	Leave Travel Assistance	0.01			
12	Earned Leave Encashment	0.61			
13	Payment Under Workman's Compensation And Gratuity	0.02			
14	Subsidised Electricity To Employees	0.00			
15	Any Other Item	0.00			
16	Staff Welfare Expenses	0.03			
	Capacity Building Expenses	0.04			
17	Apprentice And Other Training Expenses	0.00			
18	Contribution To Terminal Benefits	2.82			
19	Provident Fund Contribution	0.00			
20	Provision for PF Fund	0.00			
21	Any Other Items (ROP_	0.00			
	Total Employee Costs	10.66			
22	Less: Employee expenses capitalised	0			
	Net Employee expenses (D)-(E)	10.66			

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
Administration & General Expenses			Form No:	F22	
					Rs. Crore
	Particulars	2022-23	2022-23	2023-24	2024-25
		Actual	Claim	Estimated	Projected
1	Lease/ Rent	0.03	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Insurance	0.18			
3	Revenue Stamp Expenses Account	0.00			
4	Telephone, Postage, Telegram & Telex Charges	0.02			
5	Incentive & Award To Employees/Outsiders	0.00			
6	Consultancy Charges	0.18			
7	Technical Fees	0.00			
8	Other Professional Charges	0.22			
9	Conveyance And Travelling	0.19			
10	License and Registration Fees	0.00			
11	Vehicle Expenses	0.74			
12	Security / Service Charges Paid To Outside Agencies	0.00			
13	Fee And Subscriptions Books And Periodicals	0.01			
14	Fees paid to AERC	0.42			
15	Printing And Stationery	0.07			
16	Advertisement Expenses	0.10			
17	Contributions/Donations To Outside Institutes / Associations	0.43			
18	Electricity Charges To Offices	0.00			
19	Water Charges	0.00			
20	Entertainment Charges	0.07			
21	Miscellaneous Expenses	0.41			
22	Legal Charges	0.12			
23	Auditor's Fee	0.02			
24	Freight On Capital Equipments	0.00			
25	Purchase Related Advertisement Expenses	0.00			
26	Vehicle Running Expenses Truck / Delivery Van	0.00			
27	Vehicle Hiring Expenses Truck / Delivery Van	0.00			
28	Other Freight	0.00			
29	Transit Insurance	0.00			
30	Octroi	0.00			
31	Incidental Stores Expenses	0.00			
32	Fabrication Charges	0.00			
33	CSR	0.00			
	Total A&G Expenes	3.22	0.00	0.00	0.00
	Less: A&G Expenses Capitalised	0		5.00	
	Total A&G Expenes	3.22	0.00	-5.00	0.00

Name of Company: Assam Power Generation Corporation Limited																														Form No:		F23				
Name of Plant/ Station: Lakwa Replacement Power Plant																																				
Fixed Assets and Depreciation																																				
Sl. No.	Name of Asset	Depreciation rate ¹	2022-23										2023-24										2024-25										Rs. Crore			
			Actual										Estimated										Projected													
			Opening balance		Adjustment as on		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2023		Addition during		Deletion during		Closing balance		Opening balance		Adjustment as on 01/04/2024		Addition during the		Deletion during the		Closing balance					
			Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr		
			1	Land	0.00%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Building	3.34%	-	-	-	-	-	1.32	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	Hydraulic works	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Other civil works	3.34%	24.36	2.44	-	-	-	0.09	0.81	-	-	-	-	24.46	3.25	24.46	3.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	Plant & machinery- Gas	5.28%	243.21	38.41	-	-	-	-	12.84	-	-	-	-	243.21	51.25	243.21	51.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	Plant & machinery- Hydel	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	Lines & cables	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	Vehicle	9.50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Furniture	6.33%	-	-	-	-	-	0.04	0.00	-	-	-	-	0.04	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	Office equipment	6.33%	-	-	-	-	-	4.19	-	-	-	-	4.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	Roads on land belonging to others	3.34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	Capital spares at Generating Stations	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		0.00%	267.57	40.84	-	-	-	5.64	13.67	-	-	-	-	273.22	54.51	273.22	54.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Less: Depreciation on Grant																																			
	Total Grant in Capital Asset																																			
	Rate of Depreciation							5.06%										5.01%											4.98%							
	Depreciation on 90% of the Assets funded by Grants/subsidies																																			
	Net Depreciation							13.67	-					13.79	-													14.02	-							
¹ Depreciation Rates as per AERC's Depreciation Rate Schedule																																				
² Name of the the Assets should conform to the description of the assets mentioned in Depreciation schedule of AERC																																				
Petitioner																																				

Name of Company: Assam Power Generation Corporation Limited																				
Name of Plant/ Station: Lakwa Replacement Power Plant																				
Details computation of Interest on Loan																			Form No:	F24
																				Rs. Lakhs
Loan Details	Loan Tenure (yrs)	2022-23						2023-24						2024-25						
		Actual						Estimated						Projected						
		Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	
A Secured Loans																				
LTPS(R&M)	15	9.71%	243.79	0.00	-121.90	17.76	121.90	9.71%	121.90	0.00	-121.90	5.92	0.00	9.71%	0.00	0.00	0.00	0.00	0.00	
LWHRPP	15	9.58%	1516.30	0.00	-1213.04	87.16	303.26	9.58%	303.26	0.00	-303.26	14.53	0.00	9.58%	0.00	0.00	0.00	0.00	0.00	
NRPP	15	10.38%	40273.64	0.00	-3502.06	3997.38	36771.58	10.38%	36771.58	0.00	-3502.06	3633.99	33269.53	10.38%	33269.53	0.00	-3502.06	3270.59	29767.47	
Sub-total			42033.73	0.00	-4836.99	4102.30	37196.74		37196.74	0.00	-3927.21	3654.43	33269.53		33269.53	0.00	-3502.06	3270.59	29767.47	
B Unsecured Loans																				
KLHEP	10	10.00%	26.20	99.46	0.00	2.62	125.66	10.00%	125.66	1182.90	-125.66	65.43	1182.90	10.00%	1182.90	3649.00	-118.29	294.83	4713.61	
LTPS	10	10.00%	373.80	1116.00	0.00	37.38	1489.80	10.00%	1489.80	1692.40	-1489.80	159.11	1692.40	10.00%	1692.40	2018.60	-169.24	261.71	3541.76	
NTPS	10	10.00%	0.00	128.00	0.00	0.00	128.00	10.00%	128.00	455.65	-128.00	29.18	455.65	10.00%	455.65	82.00	-45.57	47.39	492.09	
MSHEP	10	10.00%	0.00	27.00	0.00	0.00	27.00	10.00%	27.00	0.00	-27.00	1.35	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	
LRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	874.07	0.00	43.70	874.07	
NRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	290.14	0.00	14.51	290.14	
Sub-total			400.00	1370.46	0.00	40.00	1770.46	10.00%	1770.46	3330.95	-1770.46	255.07	3330.95		3330.95	6913.81	-333.10	662.13	9911.66	
D Grand Total Of Interest & Finance Charges (A + B + C)																				
		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14	
E Less: Interest & Finance Charges Capitalised																				
			0	0	0	0	0		0	0	0	0	0		0	0	0	0	0	
Net Total Of Interest & Finance Charges (D - E)																				
		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14	
																				Petitioner

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
Return on Equity			Form No:	F25	
	Loan Details	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
1	Equity (Opening Balance)	Rs Crore	80.63	82.03	82.03
2	Add: Increase due to discharges during the year / period	Rs Crore	1.40	0.00	0.00
3	Less: Decrease due to de-capitalisation during the year / period	Rs Crore	0	0	0
4	Less: Decrease due to reversal during the year / period	Rs Crore	0	0	0
5	Equity (Closing Balance)	Rs Crore	82.03	82.03	82.03
6	Average Equity	Rs Crore	81	82	82
7	Rate of Return on Equity	%	15.50%	15.50%	15.50%
8	Return on Equity	Rs Crore	12.61	12.71	12.71
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
Working Capital Requirements				Form No:	F26
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
	For Open-cycle Gas Turbine/ Combined Cycle thermal generating stations				
1	Fuel expenses for 1 month *	Rs Crore	24.80	22.95	23.02
2	Liquid fuel stock for 15 days*	Rs Crore			
3	Maintenance spares @ 30% of O&M	Rs Crore	9.08	9.66	10.26
4	O&M expenses for 1 month	Rs Crore	2.52	2.68	2.85
5	Receivables equivalent to 2 months of capacity and energy charge^	Rs Crore	63.73	63.37	63.86
	Total Working Capital Requirement	Rs Crore	100.13	98.66	100.00
	Rate of Interest #	%	11.53%	11.53%	11.53%
	Interest on Normative Working Capital Requirement	Rs Crore	11.54	11.37	11.52
	* corresponding to target availability				
	^ calculated on target availability				
	# shall be equal to the interest rate equivalent to average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff plus 300 basis points.				
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Lakwa Replacement Power Plant					
Detailed Information in respect of fuel for computation of Energy Charges			Form No:	F27	
	Particulars	Unit	Preceeding 3rd Month*	Preceeding 2nd Month*	Preceeding 1st Month*
1	Quantity of Coal/ Lignite supplied by Coal/ Lignite Company	MMT	Gas Price sheets included separately (Sheet:Gas Price)		
2	Adjustment (+/-) in quantity supplied made by Coal/ Lignite Company	MMT			
3	Coal supplied by Coal/ Lignite Company (1+2)	MMT			
4	Normative Transit & Handling Losses (For Coal/ Lignite Projects)	MMT			
5	Net coal / Lignite Supplied (3-4)	MMT			
6	Amount charged by the Coal /Lignite Company	Rs Lakhs			
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs Lakhs			
8	Total amount Charged (6+7)	Rs Lakhs			
9	Transportation charges by rail/ship/road transport	Rs Lakhs			
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs Lakhs			
11	Demurrage Charges, if any	Rs Lakhs			
12	Cost of diesel in transporting coal through MGR system, if applicable	Rs Lakhs			
13	Total Transportation Charges (9+/-10-11+12)	Rs Lakhs			
14	Total amount Charged for coal/lignite supplied including Transportation (8+13)	Rs Lakhs			
15	Landed cost of coal/ Lignite	Rs./MT			
16	Blending Ratio (Domestic/Imported)				
17	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT			
18	GCV of Domestic Coal as per bill of Coal Company				
19	GCV of Imported Coal as per bill Coal Company				
20	Weighted average GCV of coal/ Lignite as Billed	kCal/ kg			
21	GCV of Domestic Coal as received at Station				
22	GCV of Imported Coal as received at Station				
23	Weighted average GCV of coal/ Lignite as Received	kCal/ kg			
* From COD of 1/4/2016 as the case may be					
Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants					
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Lakwa Replacement Power Plant

Income Tax Provisions			Form No: F29	
				(Rs Crore)
		2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Income Tax on the Return on Equity			
2	As Per Return Filed For The Year	5.26	0.00	0.00
3	As Assessed For The Year			
4	Credit/Debit Of Assessment Year(s) (Give Details)			
	Total	5.26	0.00	0.00
Note: 'Income Tax Provisions' details which could not be provided by the Generation Company at the time of this filing shall be furnished as and when they become due/ available.				

Name of Company: Assam Power Generation Corporation Limited Name of Plant/ Station: Lakwa Replacement Power Plant				
Non-Tariff Income		Form No: F30		
				(Rs Crore)
S. No.	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
A	Income from Investment, Fixed & Call Deposits			
	Income from Investments:			
	Interest on securities			
	Interest on fixed deposits			
	Income on other investments			
	Interest from Banks			
	Interest on (any other items)			
	Sub-Total			
B	Other Non-Tariff Income			
	Interest on Loans and Advances to staff			
	Interest on Loans and Advances to Licensee			
	Interest on Loans and Advances to Lessors			
	Interest on Loans and Advances to Suppliers/ Contractors			
	Income from trading			
	Gain on sale of Fixed Assets			
	Income/Fees /Collections against staff welfare activities:			
	Miscellaneous Receipts:			
	Delayed Payment charges from Beneficiaries			
	Net profit from UI charges			
	Penalty for contractor/ supplier for delay etc			
	Misc Charges			
	Sub-Total			
	Grand Total	0.00	0.00	0.00

Namrup Thermal Power Station		2023-24 (from Oct 2023 onwards)	2024-25 (Projected)	Remarks
A. Gas supplied by OIL Duliaian (APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	12812.74	12812.74	
2.00	Basic Price after adjustment with CV	11854.35	11854.35	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	166.66	166.66	
	Total	12020.83	12020.83	
5.00	VAT @ 14.5% on above	1743.02	1743.02	
	Total (A)	13763.85	13763.85	
B. T.C. for Transportation of the Oil Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 1.81 / MMBTU	66.45	66.45	
2.00	Fuel surcharge/ 1000 SCM			
	Total	66.45	66.45	
2.00	GST @ 12%	7.97	7.97	
	Total (B)	74.43	74.43	
	C. Landed price of gas supplied to NTPS & NRPP (A+B)/ 1000 SCM	13838.27	13838.27	
Lakwa Thermal Power Station		2023-24	2024-25 (Projected)	Remarks
A. Gas supply by GAIL (APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	12812.74	12812.74	
2.00	10% Royalty /1000 SCM	Included	Included	
	Total	12812.74	12812.74	
3.00	Basic Price after adjustment with CV	13165.09	13165.09	
4.00	Marketing Margin (for NCV 10000) /1000 SCM @ Rs. 5.04 / MMBTU	200.00	200.00	
5.00	Marketing Margin after adjustment with CV	185.82	185.82	
6.00	Monthly Metering charge(Rs./ 1000 SCM)	26.17	26.96	Yearly escalation 3% on TC as per agreement
7.00	Sales Tax @ 14.5 % on above	1939.68	1939.79	
	Landed price of gas supply to LTPS by GAIL / 1000 SCMA)	15290.58	15290.70	
B. Gas supplied by OIL Duliaian (Non APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	21354.56	21354.56	
2.00	Basic Price after adjustment with CV	19744.43	19744.43	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	166.66	166.66	
	Total	19911.09	19911.09	
5.00	VAT @ 14.5 % on above	2887.11	2887.11	
	price of gas supply to LTPS & LRPP by OIL (B)	22798.20	22798.20	
C. T.C for Transportation of Oil Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 1.81 / MMBTU	66.41	66.41	TC @ As per PNGB Order (i.e 1.81 /MMBTU)
2.00	GST @ 12% on TC	7.97	7.97	
	Total T.C. (C)	74.38	74.38	
	D. Landed price of gas supply to LTPS/LRPP by OIL (B+C)/ 1000 SCM	22872.58	22872.58	
B. Gas supplied by AGCL (Non APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	22011.63	22011.63	
2.00	Basic Price after adjustment with CV	22104.08	22104.08	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	182.12	182.12	
	Total	22286.20	22286.20	
5.00	VAT @ 14.5 % on above	3231.50	3231.50	
	Gas price to LTPS Supply by AGCL	25517.69	25517.69	
C. T.C for Transportation of AGCL Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 320 / TSCM	320.00	320.00	TC @ As per MCOM
2.00	GST @ 12% on TC			
	Total T.C. (C)	320.00	320.00	
	D. Landed price of gas supply to LTPS/LRPP by AGCL (B+C)/ 1000 SCM	25837.69	25837.69	

OIL GAS for NTPS / NRPP		Estimated	Projected
Unit		2023-24	2024-25
APM Natural Gas Subsidized from nominated field	Rs / MMBTU	3.90	3.90
APM Natural Gas Non Subsidized from nominated field	Rs / MMBTU	6.50	6.50
Natural Gas Non Subsidized from non nominated field	Rs / MMBTU	8.60	8.60
Conversion factor	Factor	39.68	39.68
\$ exchange rate for the month of September of Financial Year in Rs as obtained from RBI website	Rs per Dollar	82.79	82.79
Avg. GCV till September of Financial Year - Oil Gas for NTPS	kcal / scm	9252	9252
Avg. NCV till September of Financial Year - Oil Gas for NTPS	kcal / scm	8324	8324
Transmission Charge for Oil GAS - NTPS	Rs / MMBTU on GCV basis	1.81	1.81

LTPS		Estimated	Projected
Unit		2023-24	2024-25
GAIL Gas for LTPS	kcal / scm	10275	10275
Avg. GCV till September of Financial Year	kcal / scm	9291	9291
Avg. NCV till September of Financial Year	Rs / 1000 scm	5.04	5.04
Monthly Metering charge(Rs. / 1000 SCM)	Rs/ 1000 scm	26.17	26.96
Transmission Charge for Oil GAS - LTPS	Rs / MMBTU on GCV basis	1.81	1.81
Transmission Charge for AGCL GAS - LTPS	Rs/ 1000 scm	320.00	320.00
GAIL Gas MMSCM received till September of the financial year in MMSCM	MMSCM	27.96	27.96
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	22.72	22.72
Other Source Gas MMSCM received till September of the financial year in MMSCM	MMSCM	11.19	11.19
Avg. GCV till September of Financial Year	kcal / scm	10042	10042
Avg. NCV till September of Financial Year	kcal / scm	9106	9106

LRPP		Estimated	Projected
Unit		2023-24	2024-25
OIL Gas for LRPP	kcal / scm	9246	9246
Avg. GCV till September of Financial Year	kcal / scm	8333	8333
Avg. NCV till September of Financial Year	Rs / 1000 scm	5.04	5.04
Marketing Margin	MMSCM	58.09	58.09
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	58.09	58.09
Total		58.09	58.09

Actual Consumption till H1 of FY 2023-24

	GAIL	OIL	AGCL	Total
LTPS	27.96	22.72	11.19	61.87
LRPP		0	0.00	58.09
Gas price Estimated Rs/Tscm	15290.58	22872.58	25837.69	
W GCV	10275.00	9246.00	10042.00	
W NCV	9291.00	8333.00	9106.00	
Weighted Average Price LTPS Rs/Tscm	92883			
W GCV LTPS Kcal/Scm		9855		
W NCV LTPS Kcal/Scm		8906		
Weighted Average Price LRPP Rs/Tscm	22872			
W GCV LRPP Kcal/Scm		9246		
W NCV LRPP Kcal/Scm		8333		

Regulatory Formats for NRPP

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Replacement Power Plant

INDEX OF FORMATS

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Instructions for the Applicant

- 1) Electronic copy in the form of CD/ Floppy Disc shall also be furnished
- 2) These formats are indicative in nature and the utility may align the line items to its chart of accounts

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Namrup Replacement Power Plant						
Annual Revenue Requirement Summary					Form No:	F1
		Form	2022-23 Actual	2022-23 Claim	2023-24 Estimated	Rs Crore 2024-25 Projected
A	Generation					
1	Gross Generation (MU)	F4	442.23	442.23	536.00	732.69
2	Aux Consumption (%)	F4	3.35%	5.00%	5.00%	5.00%
3	Net Generation (MU)	F4	427.41	420.11	509.20	696.05
B	Capacity Charges (Annual Fixed Charges)					
1	O&M expenses (including Increase in AERC Tariff Fees)					
a	Employee Expenses	F21	23.74	41.66	44.28	47.07
b	R & M Expense	F20	14.13			
c	A&G Expense	F22	3.78			
2	Depreciation	F23	42.08	42.08	42.08	42.16
3	Interest on Loans	F14b	47.91	47.91	44.34	39.99
4	Return on Equity	F25		33.90	33.90	33.90
5	Interest on Working Capital	F26		12.11	10.12	13.27
6	Income Tax	F29	4.24	4.24	0.00	0.00
7	Cost of secondary fuel (only for coal based stations)	F4	0.00			
8	Special allowance in lieu of R&M or separate compensation allowance		12.76	12.76	5.74	79.19
9	Capacity Building		0.05	0.05	0.00	0.00
10	Less: Other Income	F30	0.00	0.00	0.00	0.00
	Total		148.69	194.70	180.46	255.58
C	Variable Charges (Energy Charges)					
	Energy Charges from Primary Fuel (Rs Cr) ^{C1, C2, C3, C4}	F4	220.03	226.66	163.17	217.87
	Energy Charges from Primary Fuel (Rs/ kWh)	F4	5.15	5.40	3.20	3.13
			8.63	10.03	6.75	6.80
	C1 - If multifuel is used simultaneously, energy charges to be given in respect of every fuel individually					
	C2 - Energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/ liquid fuel fired plants					
	C3 - Energy charge shall be worked out based on ex-bus energy scheduled to be sent out					
						Petitioner

Name of Company: Assam Power Generation Corporation Limited			
Name of Plant/ Station: Namrup Replacement Power Plant			
Plant Characteristics-Thermal		F2a	
Unit(s)/ Block(s) Parameters	Unit I	Unit II	
Installed Capacity (MW)	62.25	36.15	
Schedule COD as per Investment Approval			
Actual COD /Date of Taken Over (as applicable)	2021	2021	
Pit Head or Non Pit Head	Not applicable		
Name of the Boiler Manufacture	BHEL		
Name of Turbine Generator Manufacture	BHEL		
Main Steams Pressure at Turbine inlet (kg/Cm2) abs ¹ .	Not applicable		
Main Steam Temperature at Turbine inlet (oC) ¹	Not applicable		
Reheat Steam Pressure at Turbine inlet (kg/Cm2) ¹	N/A		
Reheat Steam Temperature at Turbine inlet (oC) ¹	N/A		
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²	Not applicable		
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²	Not applicable		
Unit Gross electrical output under MCR /Rated condition (MW) ²	62.25	36.15	
Unit Gross electrical output under VWO condition (MW) ²	20	21	
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³	2635 - Not Guantaneed - Open Cycle Mode	1988 - Guaranteed	
Conditions on which design turbine cycle heat rate guaranteed	NCV	NCV	
% MCR	Not applicable		
% Makeup Water Consumption			
Design Capacity of Make up Water System			
Design Capacity of Inlet Cooling System			
Design Cooling Water Temperature (0C)			
Back Pressure			
Steam flow at super heater outlet under BMCR condition (tons/hr)			
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm2)			
Steam Temperature at super heater outlet under BMCR condition (0C)			
Steam Temperature at Reheater outlet at BMCR condition (0C)			
Design / Guaranteed Boiler Efficiency (%) ⁴			
Design Fuel with and without Blending of domestic/imported coal			
Type of Cooling Tower			
Type of cooling system ⁵			
Type of Boiler Feed Pump ⁶			
Fuel Details ⁷	N/A		
-Primary Fuel			
-Secondary Fuel			
-Alternate Fuels			
Special Features/ Site Specific Features ⁸			
Special Technological Features ⁹			
Environmental Regulation related features ¹⁰			
Any other special features			
1: At Turbine MCR condition.			
2: with 0% (Nil) make up and design Cooling water temperature			
3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.			
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put			
5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.			
6: Motor driven, Steam turbine driven etc.			
7: Coal or natural gas or Naptha or lignite etc.			
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features			
9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.			
10: Environmental Regulation related features like FGD, ESP etc.,			
Note 1: In case of deviation from specified conditions in Regulation, correction curve of manufacturer may also be submitted.			
Note 2: Heat Balance Diagram has to be submitted along with above information in case of new stations.			
Note 3: The terms – MCR, BMCR, HHV, Performance coal, are as defined in CEA technical standards for Construction of Electric Plants and Electric Lines Regulations – 2010 notified by the Central Electricity Authority			

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Generation Details and Variable Cost			Form No:	F4	
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
1	Installed Capacity	MW	98.40	98.40	98.40
2	Plant Load Factor	%	52.19%	78.01%	85.00%
3	Gross Generation	MU	442.23	536.00	732.69
4	Auxiliary Consumption	%	5.00%	5.00%	5.00%
5	Auxiliary Consumption	MU	22.11	26.80	36.634
6	Net Generation	MU	420.11	509.20	696.05
7	Station Heat Rate	kCal/ kWh	2927	1988	1988
	Primary Fuel Consumption (Gas/ LNG/ Liquid)				
16	GCV of Gas/ LNG/ Liquid Fuel	kCal/ SCM	9220.72	9251.70	9251.70
17	Quantity of Gas/ LNG/ Liquid Fuel	MMSCM	140.38	115.18	157.44
18	Specific Fuel Consumption	SCM/ kWh	0.32	0.21	0.21
19	Rate of Gas/ LNG/ Liquid Fuel	Rs/ SCM	16.15	14.17	13.84
20	Cost of Gas/ LNG/ Liquid Fuel	Rs. Lakhs	22665.91	16317.49	21786.88
	Primary Fuel Cost (Coal/ Lignite)	Rs Lakhs			
	Primary Fuel Cost (Gas/ LNG/ Liquid)	Rs Lakhs	22665.91	16317.49	21786.88
	Secondary Fuel Cost	Rs Lakhs			
C	Variable Charges (Energy Charges)				
	Energy Charges from Primary Fuel (Coal/ Lignite)	Rs/ kWh			
	Energy Charges from Primary Fuel (Gas/ LNG/ Liquid)	Rs/ kWh	5.40	3.20	3.13
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Abstract of admitted Capital Cost for the existing Project

Form No:

F5

	Particulars	Unit	Details
	Last date of order of Commission for the project as on 29.03.2023		
1	Capital Cost as admitted by AERC	Rs Lakhs	72896
2	Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)	Rs Lakhs	NIL
3	Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)	Rs Lakhs	NIL
4	Gross Normative Debt	Rs Lakhs	51027.2
5	Cumulative Repayment	Rs Lakhs	1875.00
6	Net Normative Debt	Rs Lakhs	49152.20
7	Normative Equity	Rs Lakhs	21868.8
8	Cumulative Depreciation	Rs Lakhs	1875.00
9	Freehold land	Rs Lakhs	NIL

Petitioner

Name of Company: Assam Power Generation Corporation Limited
Name of Plant/ Station: Namrup Replacement Power Plant

Statement showing claimed capital cost **Form No: F5a**
Rs. Lakhs

	Particulars	Unit	2022-23	2023-24	2024-25
1	Opening Capital Cost	Rs Lakhs	72896.00	72908.67	72908.67
2	Add: Addition during the year / period	Rs Lakhs	12.67	0.00	290.14
3	Less: Decapitalisation during the year / period	Rs Lakhs	0.00	0.00	0.00
4	Less: Reversal during the year / period	Rs Lakhs	0.00	0.00	0.00
5	Add: Discharges during the year / period	Rs Lakhs	0.00	0.00	0.00
6	Closing Capital Cost	Rs Lakhs	72908.67	72908.67	73198.81
7	Average Capital Cost	Rs Lakhs	72902.34	72908.67	73053.74

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Details of Project Specific Loans	Form No:	F13
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Particulars	NRPP		Rs. Crore
Source of Loan ¹	I PFC Loans		
Currency ²	INR		
Amount of Loan sanctioned	403		
Amount of Gross Loan drawn upto 31.03.2023 COD ^{3,4,5,13,15} - including repayments	367.72		
Interest Type ⁶	Floating		
Fixed Interest Rate, if applicable	12.18%		
Base Rate, if Floating Interest ⁷			
Margin, if Floating Interest ⁸	Yes/No		
Are there any Caps/Floor ⁹			
If above is yes,specify caps/floor			
Moratorium Period ¹⁰			
Moratorium effective from			
Repayment Period ¹¹			
Repayment effective from			
Repayment Frequency ¹²			
Repayment Instalment ^{13,14}			
Base Exchange Rate ¹⁶			
Are foreign currency loan hedged?			
If above is yes,specify details ¹⁷			

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB,

² Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given seperately in the same form.

⁵ If the Tariff in the petition is claimed seperately for various units, details in the Form is to be given

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists,

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data

¹⁵ In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment o

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

Petitioner

Name of Company: Assam Power Generation Corporation Limited						
Name of Plant/ Station: Namrup Replacement Power Plant						
Calculation of Weighted Average Rate of Interest on Actual Loans					Form No:	F14a
					Rs. Crores	
	Particulars	2022-23 Actual	2023-24 Estimated	2024-25 Projected		
	Loan-1 from PFCL					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	420.34	371.97	332.70		
	Add: Drawal(s) during the Year	0.00	0.00	0.00		
	Less: Repayment (s) of Loans during the year	48.37	39.27	35.02		
	Net loan - Closing	371.97	332.70	297.67		
	Average Net Loan	396.15	352.33	315.19		
	Rate of Interest on Loan on annual basis	10.05%	10.09%	10.10%		
	Interest on loan	41.02	36.54	32.71		
	Loan-2 Govt. of Assam					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	4.00	17.70	33.31		
	Add: Drawal(s) during the Year	13.70	33.31	69.14		
	Less: Repayment (s) of Loans during the year	0.00	17.70	3.33		
	Net loan - Closing	17.70	33.31	99.12		
	Average Net Loan	10.85	25.51	66.21		
	Rate of Interest on Loan on annual basis	10.00%	10.00%	10.00%		
	Interest on loan	0.40	2.55	6.62		
	Total Loan					
	Gross loan - Opening					
	Cumulative repayments of Loans upto previous year					
	Net loan - Opening	424.34	389.67	366.00		
	Add: Drawal(s) during the Year	13.70	33.31	69.14		
	Less: Repayment (s) of Loans during the year	48.37	56.98	38.35		
	Net loan - Closing	389.67	366.00	396.79		
	Average Net Loan	407.00	377.84	381.40		
	Interest on loan including Bank Charge	41.44	39.10	39.33		
	Weighted average Rate of Interest on Loans	10.18%	10.35%	10.31%		
	Note:					
	1.In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.					
					Petitioner	

Name of Company: Assam Power Generation Corporation Limited				
Name of Plant/ Station: Namrup Replacement Power Plant				
Calculation of Interest on Normative Loan			Form No:	F14b
				Rs. Crores
S. No.	Particulars	2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Gross Normative loan – Opening			
2	Cumulative repayment of Normative loan upto previous year			
3	Net Normative loan – Opening	491.52	449.56	407.48
4	Add: Increase due to addition during the year / period	0.13	0.00	2.90
5	Less: Decrease due to de-capitalisation during the year / period			
6	Less: Decrease due to reversal during the year / period	42.08	42.08	42.16
7	Add: Increase due to discharges during the year / period			
8	Net Normative loan - Closing	449.56	407.48	368.22
9	Average Normative loan	470.54	428.52	387.85
10	Weighted average rate of interest	10.18%	10.35%	10.31%
	Interest on Loan	47.91	44.34	39.99
	Bank Charges	0.00	0.00	0.00
11	Interest on Loan with Bank Charges	47.91	44.34	39.99

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Details of Allocation of corporate loans to various projects	Form No:	F15
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Rs. Crore

Particulars	NRPP		
Source of Loan ¹	I PFC Loans		
Currency ²	INR		
Amount of Loan sanctioned	No corporate loans were allocated for this project		
Amount of Gross Loan drawn upto 31.03.2023/ COD ^{3,4,5,13,15} - incl. repayments			
Interest Type ⁶			
Fixed Interest Rate, if applicable			
Base Rate, if Floating Interest ⁷			
Margin, if Floating Interest ⁸			
Are there any Caps/Floor ⁹			
If above is yes,specify caps/floor			
Moratorium Period ¹⁰			
Moratorium effective from			
Repayment Period ¹¹			
Repayment effective from			
Repayment Frequency ¹²			
Repayment Instalment ^{13,14}			
Base Exchange Rate ¹⁶			
Are foreign currency loan hedged?			
If above is yes,specify details ¹⁷			

Distribution of loan packages to various projects			
Name of the Projects			Total
Project 1			
Project 2			
Project 3 and so on			

Note:

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI,

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the

¹⁵ In case of Foreign loan, date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for

¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

¹⁸ In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

¹⁹ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

²⁰ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Statement of Additional Capitalisation after COD

Form No:

F16

Rs. Lakhs

No	Head of Work/ Equipment				Regulations under which claimed	Justification	Admitted Cost by Commission if any
		2022-23	2023-24	2024-25			
1	Land	-	-	-			
2	Building	-	-	-			
3	Hydraulic works	-	-	-			
4	Other civil works	-	-	-			
5	Plant & machinery- Gas	1.36	-	290.14			
6	Plant & machinery- Hydel	-	-	-			
7	Lines & cables	-	-	-			
8	Vehicle	-	-	-			
9	Furniture	7.05	-	-			
10	Other office equipment	4.26	-	-			
11	Roads on land belonging to others	-	-	-			
12	Capital spares at Generating Stations	-	-	-			

Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

Petitioner

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Date of Commercial Operation:

Financing of Additional Capitalisation

Form No:

F17

Rs. Crore

Financial Year (Starting from COD)			
	2022-23	2023-24	2024-25
Amount capitalised in Work/ Equipment			
Financing Details			
GOA Loan	0.13	0.00	2.90
Loan-2			
Total Loan²	0.13	0.00	2.90
Grant			
Equity			
Internal Resources			
Others			
Total	0.13	0.00	2.90

¹ Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. the subsequent financial years respectively.

² Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevant.

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Employee Expenses			Form No:		F21
					Rs. Crore
	Particulars	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
1	Salaries	12.64	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Additional Pay	0.00			
3	Dearness Allowance (DA)	4.29			
4	Other Allowances & Relief	1.98			
5	Addl. Pay & C.Off Encashment	0.00			
6	Interim Relief / Wage Revision	0.00			
7	Honorarium/Overtime	0.47			
8	Bonus/ Exgratia To Employees	0.01			
9	Medical Expenses Reimbursement	0.02			
10	Travelling Allowance(Conveyance Allowance)	0.00			
11	Leave Travel Assistance	0.01			
12	Earned Leave Encashment	0.57			
13	Payment Under Workman's Compensation And Gratuity	0.03			
14	Subsidised Electricity To Employees	0.00			
15	Any Other Item	0.00			
16	Staff Welfare Expenses	0.04			
	Capacity Building Expenses	0.05			
17	Apprentice And Other Training Expenses	0.00			
18	Contribution To Terminal Benefits	3.68			
19	Provident Fund Contribution	0.00			
20	Provision for PF Fund	0.00			
21	Any Other Items (ROP)	0.00			
	Total Employee Costs	23.74			
22	Less: Employee expenses capitalised	0.00			
	Net Employee expenses (D)-(E)	23.74			
</					

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
R&M Expenses			Form No:	F20	
			Rs. Crore		
	Particulars	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
1	Plant and Machinery	13.47	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Building	0.21			
3	Civil Works	0.00			
4	Hydraulic Works	0.00			
5	Lines, Cables Net Works etc.	0.00			
6	Vehicles	0.00			
7	Furniture and Fixtures	0.00			
8	Office Equipments	0.01			
9	Station Supplies	0.00			
	Lubricants & Consumable stores	0.44			
	Oil/Turbine Oil consumed in internal combustion	0.01			
	Any other items (Spl R&M)	0.00			
10	Other R&M Charges	0.00			
	Total	14.13	-	-	-
11	Any other items (Capitalisation)	0			
	Total	14.13	-	-	-
				Petitioner	

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Administration & General Expenses				Form No:	F22
					Rs. Crore
	Particulars	2022-23 Actual	2022-23 Claim	2023-24 Estimated	2024-25 Projected
1	Lease/ Rent	0.01	APGCL has claimed normative approved O&M expenses at actual effective capacity for FY 2022-23. Detailed computation has been shown in the Excel True Up_2022-23_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2023-24. Detailed computation has been shown in the Excel APR_FY 2023-24_Working Sheet_vfinal.xlsx - Sheet "O&M"	APGCL has claimed the revised projected O&M expenses at estimated effective capacity for FY 2024-25. Detailed computation has been shown in the Excel Revised ARR_FY 2024-25_Working Sheet_vfinal.xlsx - Sheet "O&M"
2	Insurance	3.02			
3	Revenue Stamp Expenses Account	0.00			
4	Telephone, Postage, Telegram & Telex Charges	0.01			
5	Incentive & Award To Employees/Outsiders	0.00			
6	Consultancy Charges	0.00			
7	Technical Fees	0.00			
8	Other Professional Charges	0.11			
9	Conveyance And Travelling	0.04			
10	License and Registration Fees	0.00			
11	Vehicle Expenses	0.10			
12	Security / Service Charges Paid To Outside Agencies	0.00			
13	Fee And Subscriptions Books And Periodicals	0.00			
14	Fees paid to AERC	0.48			
15	Printing And Stationery	0.01			
16	Advertisement Expenses	0.00			
17	Contributions/Donations To Outside Institutes / Associations	0.00			
18	Electricity Charges To Offices	0.00			
19	Water Charges	0.00			
20	Entertainment Charges	0.00			
21	Miscellaneous Expenses	0.01			
22	Legal Charges	0.00			
23	Auditor's Fee	0.00			
24	Freight On Capital Equipments	0.00			
25	Purchase Related Advertisement Expenses	0.00			
26	Vehicle Running Expenses Truck / Delivery Van	0.00			
27	Vehicle Hiring Expenses Truck / Delivery Van	0.00			
28	Other Freight	0.00			
29	Transit Insurance	0.00			
30	Octroi	0.00			
31	Incidental Stores Expenses	0.00			
32	Fabrication Charges	0.00			
33	CSR	0.00			
	Total A&G Expenes	3.78	0.00	0.00	0.00
	Less: A&G Expenses Capitalised				
	Total A&G Expenes	3.78	0.00	0.00	0.00
				Petitioner	Page 531 of 539

Name of Company: Assam Power Generation Corporation Limited																															
Name of Plant/ Station: Namrup Replacement Power Plant																															
Fixed Assets and Depreciation																											Form No: F23				
Name of Asset	Depreciat ion rate ¹	2022-23										2023-24										2024-25						Rs. Crore			
		Actual										Estimated										Projected									
		Opening balance		Adjustment as on		Addition during the year		Deletion during the year		Closing balance		Opening balance		Adjustment as on 01/04/2023		Addition during		Deletion during		Closing balance		Opening balance		Adjustment as on 01/04/2024		Addition during the		Deletion during the		Closing balance	
		Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr	Asset	Depr
1 Land	0.00%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2 Building	3.34%	149.83	3.96	-	-	-	-	-	-	149.83	10.15	149.83	10.15	-	-	-	6.19	-	-	149.83	16.34	149.83	16.34	-	-	-	6.19	-	-	149.83	22.53
3 Hydraulic works	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4 Other civil works	3.34%	81.31	2.15	-	-	-	-	-	-	81.31	5.51	81.31	5.51	-	-	-	3.36	-	-	81.31	8.87	81.31	8.87	-	-	-	-	-	3.36	81.31	12.23
5 Plant & machinery- Gas	5.28%	478.87	12.64	-	-	-	0.01	-	-	478.88	45.15	478.88	45.15	-	-	-	32.51	-	-	478.88	77.66	478.88	77.66	-	-	2.90	-	32.59	-	481.79	110.26
6 Plant & machinery- Hydel	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7 Lines & cables	5.28%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8 Vehicle	9.50%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9 Furniture	6.33%	0.08	0.00	-	-	-	0.07	-	0.01	-	0.15	0.01	0.15	0.01	-	-	0.01	-	-	0.15	0.02	0.15	0.02	-	-	-	-	0.01	-	0.15	0.03
10 Other office equipment	6.33%	0.06	0.00	-	-	-	0.04	-	0.01	-	0.10	0.01	0.10	0.01	-	-	0.01	-	-	0.10	0.02	0.10	0.02	-	-	-	-	0.01	-	0.10	0.03
11 Roads on land belonging to others	3.34%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 Capital spares at Generating Stations	5.28%	18.81	-	-	-	-	-	-	-	18.81	-	18.81	-	-	-	-	-	-	-	18.81	-	18.81	-	-	-	-	-	-	-	18.81	-
	0.00%	728.96	18.75	-	-	-	0.13	-	42.08	-	729.09	60.83	729.09	60.83	-	-	-	42.08	-	729.09	102.92	729.09	102.92	-	-	2.90	-	42.16	-	731.99	145.08
Less: Depreciation on Grant																															
Total Grant in Capital Asset																															
Rate of Depreciation							5.77%																								
Depreciation on 90% of the Assets funded by Grants/subsidies																															
Net Depreciation							42.08																								
¹ Depreciation Rates as per AERC's Depreciation Rate Schedule																															
² Name of the the Assets should conform to the description of the assets mentioned in Depreciation schedule of AERC																															
																											Petitioner				

Name of Company: Assam Power Generation Corporation Limited																				
Name of Plant/ Station: Namrup Replacement Power Plant																				
Details computation of Interest on Loan																			Form No:	F24
																				Rs. Lakhs
	Loan Details	Loan Tenure (yrs)	2022-23						2023-24						2024-25					
			Actual						Estimated						Projected					
			Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance	Rate of Interest	Opening Balance	Amount received	Principal repayment	Interest Due	Closing Balance
A	Secured Loans																			
	LTPS(R&M)	15	9.71%	243.79	0.00	-121.90	17.76	121.90	9.71%	121.90	0.00	-121.90	5.92	0.00	9.71%	0.00	0.00	0.00	0.00	0.00
	LWHRPP	15	9.58%	1516.30	0.00	-1213.04	87.16	303.26	9.58%	303.26	0.00	-303.26	14.53	0.00	9.58%	0.00	0.00	0.00	0.00	0.00
	NRPP	15	10.38%	40273.64	0.00	-3502.06	3997.38	36771.58	10.38%	36771.58	0.00	-3502.06	3633.99	33269.53	10.38%	33269.53	0.00	-3502.06	3270.59	29767.47
	Sub-total			42033.73	0.00	-4836.99	4102.30	37196.74		37196.74	0.00	-3927.21	3654.43	33269.53		33269.53	0.00	-3502.06	3270.59	29767.47
B	Unsecured Loans																			
	KLHEP	10	10.00%	26.20	99.46	0.00	2.62	125.66	10.00%	125.66	1182.90	-125.66	65.43	1182.90	10.00%	1182.90	3649.00	-118.29	294.83	4713.61
	LTPS	10	10.00%	373.80	1116.00	0.00	37.38	1489.80	10.00%	1489.80	1692.40	-1489.80	159.11	1692.40	10.00%	1692.40	2018.60	-169.24	261.71	3541.76
	NTPS	10	10.00%	0.00	128.00	0.00	0.00	128.00	10.00%	128.00	455.65	-128.00	29.18	455.65	10.00%	455.65	82.00	-45.57	47.39	492.09
	MSHEP	10	10.00%	0.00	27.00	0.00	0.00	27.00	10.00%	27.00	0.00	-27.00	1.35	0.00	10.00%	0.00	0.00	0.00	0.00	0.00
	LRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	874.07	0.00	43.70	874.07
	NRPP	10	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	0.00	0.00	0.00	0.00	10.00%	0.00	290.14	0.00	14.51	290.14
	Sub-total			400.00	1370.46	0.00	40.00	1770.46	10.00%	1770.46	3330.95	-1770.46	255.07	3330.95		3330.95	6913.81	-333.10	662.13	9911.66
	Grand Total Of Interest & Finance Charges (A + B + C)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
D	Less: Interest & Finance Charges Capitalised			0	0	0	0	0		0	0	0	0	0		0	0	0	0	0
E	Net Total Of Interest & Finance Charges (D - E)		10.18%	42433.73	1370.46	-4836.99	4142.30	38967.20	10.35%	38967.20	3330.95	-5697.67	3909.50	36600.48	10.31%	36600.48	6913.81	-3835.15	3932.72	39679.14
																				Petitioner

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Return on Equity			Form No: F25		
	Loan Details	Unit	2022-23	2023-24	2024-25
			Actual	Estimated	Projected
1	Equity (Opening Balance)	Rs Crore	218.69	218.69	218.69
2	Add: Increase due to discharges during the year / period	Rs Crore	0.00	0.00	0.00
3	Less: Decrease due to de-capitalisation during the year / period	Rs Crore	0	0	0
4	Less: Decrease due to reversal during the year / period	Rs Crore	0	0	0
5	Equity (Closing Balance)	Rs Crore	218.69	218.69	218.69
6	Average Equity	Rs Crore	219	219	219
7	Rate of Return on Equity	%	15.50%	15.50%	15.50%
8	Return on Equity	Rs Crore	33.90	33.90	33.90
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Working Capital Requirements				Form No: F26	
	Particulars	Unit	2022-23 Actual	2023-24 Estimated	2024-25 Projected
	For Open-cycle Gas Turbine/ Combined Cycle thermal generating stations				
1	Fuel expenses for 1 month *	Rs Crore	18.89	13.60	18.16
2	Liquid fuel stock for 15 days*	Rs Crore			
3	Maintenance spares @ 30% of O&M	Rs Crore	12.50	13.28	14.12
4	O&M expenses for 1 month	Rs Crore	3.47	3.69	3.92
5	Receivables equivalent to 2 months of capacity and energy charge^	Rs Crore	70.23	57.27	78.91
	Total Working Capital Requirement	Rs Crore	105.08	87.85	115.11
	Rate of Interest #	%	11.53%	11.53%	11.53%
	Interest on Normative Working Capital Requirement	Rs Crore	12.11	10.12	13.27
	* corresponding to target availability				
	^ calculated on target availability				
	# shall be equal to the interest rate equivalent to average State Bank of India MCLR (One Year Tenor) prevalent during the last available six months for the determination of tariff plus 300 basis points.				
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited					
Name of Plant/ Station: Namrup Replacement Power Plant					
Detailed Information in respect of fuel for computation of Energy Charges			Form No:		F27
	Particulars	Unit	Preceeding 3rd Month*	Preceeding 2nd Month*	Preceeding 1st Month*
1	Quantity of Coal/ Lignite supplied by Coal/ Lignite Company	MMT	Gas Price sheets included separately (Sheet:Gas Price)		
2	Adjustment (+/-) in quantity supplied made by Coal/ Lignite Company	MMT			
3	Coal supplied by Coal/ Lignite Company (1+2)	MMT			
4	Normative Transit & Handling Losses (For Coal/ Lignite Projects)	MMT			
5	Net coal / Lignite Supplied (3-4)	MMT			
6	Amount charged by the Coal /Lignite Company	Rs Lakhs			
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	Rs Lakhs			
8	Total amount Charged (6+7)	Rs Lakhs			
9	Transportation charges by rail/ship/road transport	Rs Lakhs			
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	Rs Lakhs			
11	Demurrage Charges, if any	Rs Lakhs			
12	Cost of diesel in transporting coal through MGR system, if applicable	Rs Lakhs			
13	Total Transportation Charges (9+/-10-11+12)	Rs Lakhs			
14	Total amount Charged for coal/lignite supplied including Transportation (8+13)	Rs Lakhs			
15	Landed cost of coal/ Lignite	Rs./MT			
16	Blending Ratio (Domestic/Imported)				
17	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT			
18	GCV of Domestic Coal as per bill of Coal Company				
19	GCV of Imported Coal as per bill Coal Company				
20	Weighted average GCV of coal/ Lignite as Billed	kCal/ kg			
21	GCV of Domestic Coal as received at Station				
22	GCV of Imported Coal as received at Station				
23	Weighted average GCV of coal/ Lignite as Received	kCal/ kg			
* From COD of 1/4/2016 as the case may be					
Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants					
			Petitioner		

Name of Company: Assam Power Generation Corporation Limited

Name of Plant/ Station: Namrup Replacement Power Plant

Income Tax Provisions			Form No:	F29
				(Rs Crore)
		2022-23	2023-24	2024-25
		Actual	Estimated	Projected
1	Income Tax on the Return on Equity			
2	As Per Return Filed For The Year	4.24	0.00	0.00
3	As Assessed For The Year			
4	Credit/Debit Of Assessment Year(s) (Give Details)			
	Total	4.24	0.00	0.00
Note:	'Income Tax Provisions' details which could not be provided by the Generation Company at the time of this filing shall be furnished as and when they become due/ available.			

Name of Company: Assam Power Generation Corporation Lin Name of Plant/ Station: Namrup Replacement Power Plant				
Non-Tariff Income			Form No: F30	
			(Rs Crore)	
S. No.	Particulars	2021-22	2022-23	2023-24
		Actual	Estimated	Projected
A	Income from Investment, Fixed & Call Deposits			
	Income from Investments:			
	Interest on securities			
	Interest on fixed deposits			
	Income on other investments			
	Interest from Banks			
	Interest on (any other items)			
	Sub-Total			
B	Other Non-Tariff Income			
	Interest on Loans and Advances to staff			
	Interest on Loans and Advances to Licensee			
	Interest on Loans and Advances to Lessors			
	Interest on Loans and Advances to Suppliers/ Contractors			
	Income from trading			
	Gain on sale of Fixed Assets			
	Income/Fees /Collections against staff welfare activities:			
	Miscellaneous Receipts:			
	Delayed Payment charges from Beneficiaries			
	Net profit from UI charges			
	Penalty for contractor/ supplier for delay etc			
	Misc Charges			
	Sub-Total			
	Grand Total	0.00	0.00	0.00

Namrup Thermal Power Station		2023-24 (from Oct 2023 onwards)	2024-25 (Projected)	Remarks
A. Gas supplied by OIL Duliaian (APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	12812.74	12812.74	
2.00	Basic Price after adjustment with CV	11854.35	11854.35	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	166.66	166.66	
	Total	12020.83	12020.83	
5.00	VAT @ 14.5% on above	1743.02	1743.02	
	Total (A)	13763.85	13763.85	
B. T.C. for Transportation of the Oil Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 1.81 / MMBTU	66.45	66.45	
2.00	Fuel surcharge/ 1000 SCM			
	Total	66.45	66.45	
2.00	GST @ 12%	7.97	7.97	
	Total (B)	74.43	74.43	
	C. Landed price of gas supplied to NTPS & NRPP (A+B)/ 1000 SCM	13838.27	13838.27	
Lakwa Thermal Power Station		2023-24	2024-25 (Projected)	Remarks
A. Gas supply by GAIL (APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	12812.74	12812.74	
2.00	10% Royalty /1000 SCM	Included	Included	
	Total	12812.74	12812.74	
3.00	Basic Price after adjustment with CV	13165.09	13165.09	
4.00	Marketing Margin (for NCV 10000) /1000 SCM @ Rs. 5.04 / MMBTU	200.00	200.00	
5.00	Marketing Margin after adjustment with CV	185.82	185.82	
6.00	Monthly Metering charge(Rs./ 1000 SCM)	26.17	26.96	Yearly escalation 3% on TC as per agreement
7.00	Sales Tax @ 14.5 % on above	1939.68	1939.79	
	Landed price of gas supply to LTPS by GAIL / 1000 SCMA)	15290.58	15290.70	
B. Gas supplied by OIL Duliaian (Non APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	21354.56	21354.56	
2.00	Basic Price after adjustment with CV	19744.43	19744.43	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	166.66	166.66	
	Total	19911.09	19911.09	
5.00	VAT @ 14.5 % on above	2887.11	2887.11	
	price of gas supply to LTPS & LRPP by OIL (B)	22798.20	22798.20	
C. T.C for Transportation of Oil Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 1.81 / MMBTU	66.41	66.41	TC @ As per PNGB Order (i.e 1.81 /MMBTU)
2.00	GST @ 12% on TC	7.97	7.97	
	Total T.C. (C)	74.38	74.38	
	D. Landed price of gas supply to LTPS/LRPP by OIL (B+C)/ 1000 SCM	22872.58	22872.58	
B. Gas supplied by AGCL (Non APM)				
1.00	Basic Price (for G.C.V. 10000)/ 1000 SCM	22011.63	22011.63	
2.00	Basic Price after adjustment with CV	22104.08	22104.08	
3.00	Marketing Margin (for NCV 10000) /1000 SCM	200.00	200.00	
4.00	Marketing Margin after adjustment with CV	182.12	182.12	
	Total	22286.20	22286.20	
5.00	VAT @ 14.5 % on above	3211.50	3211.50	
	Gas price to LTPS Supply by AGCL	25517.69	25517.69	
C. T.C for Transportation of AGCL Gas by AGCL				
1.00	T.C./ 1000 SCM @ Rs. 320 / TSCM	320.00	320.00	TC @ As per MCOM
2.00	GST @ 12% on TC			
	Total T.C. (C)	320.00	320.00	
	D. Landed price of gas supply to LTPS/LRPP by AGCL (B+C)/ 1000 SCM	25837.69	25837.69	

		Estimated	Projected
OIL GAS for NTPS / NRPP		2023-24	2024-25
APM Natural Gas Subsidized from nominated field	Unit	3.90	3.90
APM Natural Gas Non Subsidized from nominated field	Rs / MMBTU	6.50	6.50
Natural Gas Non Subsidized from non nominated field	Rs / MMBTU	8.60	8.60
Conversion factor	Factor	39.68	39.68
\$ exchange rate for the month of September of Financial Year in Rs as obtained from RBI website		Rs per Dollar	82.79
Avg. GCV till September of Financial Year - Oil Gas for NTPS	kcal / scm	9252	9252
Avg. NCV till September of Financial Year - Oil Gas for NTPS	kcal / scm	8324	8324
Transmission Charge for Oil GAS - NTPS		Rs / MMBTU on GCV basis	1.81

		Estimated	Projected
LTPS		2023-24	2024-25
GAIL Gas for LTPS	Unit	10275	10275
Avg. GCV till September of Financial Year	kcal / scm	9291	9291
Avg. NCV till September of Financial Year	Rs / 1000 scm	5.04	5.04
Monthly Metering charge(Rs. / 1000 SCM)	Rs/ 1000 scm	26.17	26.96
Transmission Charge for Oil GAS - LTPS	Rs / MMBTU on GCV basis	1.81	1.81
Transmission Charge for AGCL GAS - LTPS		Rs/ 1000 scm	320.00
GAIL Gas MMSCM received till September of the financial year in MMSCM	MMSCM	27.96	27.96
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	22.72	22.72
Other Source Gas MMSCM received till September of the financial year in MMSCM	MMSCM	11.19	11.19
Avg. GCV till September of Financial Year	kcal / scm	10042	10042
Avg. NCV till September of Financial Year	kcal / scm	9106	9106

		Estimated	Projected
LRPP		2023-24	2024-25
OIL Gas for LRPP	Unit	9246	9246
Avg. GCV till September of Financial Year	kcal / scm	8333	8333
Avg. NCV till September of Financial Year	Rs / 1000 scm	5.04	5.04
Monthly Metering charge(Rs. / 1000 SCM)	Rs/ 1000 scm	58.09	58.09
Transmission Charge for Oil GAS - LRPP	Rs / MMBTU on GCV basis	1.81	1.81
Transmission Charge for AGCL GAS - LRPP		Rs/ 1000 scm	320.00
GAIL Gas MMSCM received till September of the financial year in MMSCM	MMSCM	27.96	27.96
Oil Gas MMSCM received till September of the financial year in MMSCM	MMSCM	22.72	22.72
Other Source Gas MMSCM received till September of the financial year in MMSCM	MMSCM	11.19	11.19
Avg. GCV till September of Financial Year	kcal / scm	10042	10042
Avg. NCV till September of Financial Year	kcal / scm	9106	9106

Actual Consumption till H1 of FY 2023-24

	GAIL	OIL	AGCL	Total
LTPS	27.96	22.72	11.19	61.87
LRPP	0	58.09	0.00	58.09
Gas price Estimated Rs/Tscm	15290.58	22872.58	25837.69	
W GCV	10275.00	9246.00	10042.00	
W NCV	9291.00	8333.00	9106.00	
Weighted Average Price LTPS Rs/Tscm	15290.58			
W GCV LTPS Kcal/Scm	9291			
W NCV LTPS Kcal/Scm	9291			
Weighted Average Price LRPP Rs/Tscm	22872			
W GCV LRPP Kcal/Scm	9246			
W NCV LRPP Kcal/Scm	8333			