# APPEAL FOR TRUE-UP FOR THE FY 2019-20 & ANNUAL PERFORMANCE REVIEW FOR THE FY 2020-21 &

REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2021-

22

&

DETERMINATION OF TARIFF FOR FY 2021-22

To

**ASSAM ELECTRICITY REGULATORY COMMISSION** 



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

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# 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, 2018 APGCL is now filing the Petition for Truingup for FY2019-20, Annual Performance review for the FY 2020-21 and Revised Aggregate Revenue Requirement and Determination of Tariff for FY2021-22 for the following plants
  - i. Namrup Thermal Power Station
  - ii. Lakwa Thermal Power Station
  - Karbi Langpi Hydro Electric Project
  - iv. Lakwa Replacement Power Plant
- 1.1.5. The various data formats and forms, as required by the Hon'ble Commission, are furnished in Annexure -9.

# APPEAL FOR TRUE-UP FOR THE FY 2019-20 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 2019-20

AND

IN THE MATTER OF Assam Power Generation Corporation Limited Bijulee Bhawan, Paltanbazar, Guwahati-781 001.

Petitioner

l, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November' 2020 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: 27<sup>th</sup> November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



### PRAYER FOR TRUE-UP

# BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FILINGNO |
|----------|
| CASENO   |

### IN THE MATTER OF:

Petition for Truing-up for FY 2019-20

### . 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.
- That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- That the APGCL is a generating company under the provisions laid down in Section 14 Proviso 5, read with Section 131 (2) of the Electricity Act 2003.
- iv. That the APGCL submitted petitions for Revised ARR and Determination of tariff for the FY 2020-21 to the AERC on 30/11/2019.
- That the AERC declared tariff for FY 2020-21 on 07/03/2020 with effectuation date from 01/04/2020.
- That the licensee is now submitting the Petition for True-up for the FY 2019-20 as per the relevant Regulations.

Place: Guwahati

Date: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), 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 23<sup>rd</sup> 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: Generation of NTPS was hampered due to the frequent shutdowns of the old units and auxiliaries of NTPS in the FY 2019-20. Due to the ongoing NRPP, APGCL is doing only regular repair & maintenance works at NTPS and not investing in capital intensive high cost O&M. This means, the units of NTPS are not being overhauled for past few years. This is contributing to the frequent breakdowns of the units and auxiliaries. NTPS lost 12.40 MU due to transmission/evacuation constraints in the FY 2019-20. As of now, NTPS is generating around 38 MW. There are two Transformers of capacity 20 MVA each to evacuate the power generated from NTPS. In view of upcoming NRPP, APGCL is in the view that no further investment in NTPS for evacuation of power will be made.
- 2.2.2. LTPS: The generation of LTPS also suffered due to low gas supply in the financial year 2019-20. LTPS received only 0.67 MMSCMD of gas on average in the FY 2019-20 against the contracted quantity of 0.9 MMSCMD. There were also some planned and force shut downs of the units in FY 19-20. At present, HRSG #2 & #3 is in running condition. HRSG #1 is under forced shut down since 9th Feb 2018 due to overheating because of high exhaust temperature. The Residual Life Assessment Study of HRSG #1 was done by M/s Wartsila from 19/04/2019 to 4/05/2019. The final RLA Study Report was submitted to APGCL in the last week of June 2019. Work Order was given to M/s Erector on 4th of Nov'19 for Restoration of the HRSG#1 based on the RLA Study conducted by M/s Wartsila (Under R&M 2019-20). Restoration work was completed on 24th Feb 2020 as per Work Order. The average generation of LWHRP is around 20MW (Depending upon the generations of the mother units.) LTPS is also suffering from higher auxiliary consumption due to power consumption by the compressors. The auxiliary consumption of LTPS as approved by the Hon'ble AERC is 5.5%, whereas the power consumption by the compressors is around 5.0 %.
- 2.2.3. <u>KLHEP</u>: KLHEP overachieved the gross generation target for the FY 2019-20 on by 8.5 MUs. The overall availability of the plant was also 85.03% against the approved availability of 85.00% in FY2019-20.
- 2.2.4. <u>LRPP</u>: LRPP managed to generate 504 MUs in FY2019-20 against the Hon'ble Commission's approved generation target of 520.82 MUs mainly on account of low gas supply. The plant's availability, auxiliary power consumption and Gross Station heat Rate were better than the targets set by Hon'ble Commission for FY2019-20

### 2.3. Annual accounts

2.3.1. The audited Annual accounts of APGCL for FY 2019-20, CAG Comments and Statutory Audit Report are attached as Annexure No. 1, Annexure No. 2 and Annexure No. 3 respectively as required under AERC Tariff Regulations, 2018

# 2.4. True-up of FY 2019-20

# 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 section 10 of Assam Electricity Regulatory Commission (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2018 which has been followed while preparing this True Up Petition.

# 2.6. Installed and Effective Capacity in FY2019-20

2.6.1. APGCL submits the following Installed & Effective Capacity for FY2019-20

| Station | Installed<br>Capacity<br>(MW) | No.<br>of<br>Units | Units<br>Decommissioned | Units Available for Generation & Capacity in MW           | Effective<br>Capacity |
|---------|-------------------------------|--------------------|-------------------------|---|-----------------------|
| NTPS    | 119.5                         | 6                  | 1                       | 2, 3(21MW), 4 (11<br>MW), 5 (24 MW), 6<br>(22.50 MW-WHRU) | 99.5                  |
| LTPS    | 142.2                         | 8                  | 1,2,3,4                 | 5,6,7(20 MW<br>Each),8 (37.20 MW-<br>WHRU)                | 97.2                  |
| KLHEP   | 100                           | 2                  | 0                       | 1 (50), 2(50)   | 100                   |
| LRPP    | 69.755                        | 7                  | 0                       | 1-7 (9.965 each)  | 69.755                |

# 3. Norms of operations

# 3.1. Regulatory provisions

- 3.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2018 Section 47 and 49 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 2019-20

3.2.1. The following table shows the operating performance parameters of Namrup thermal power station for FY 2019-20.

Table 2: Operating Performance for FY 2019-20 of NTPS

| NTPS                 | Approved as per order of March 2019 | Actual |
|----------------------|-------------------------------------|--------|
| Gross Energy in MU   | 173.73                              | 252.86 |
| Aux. Power Cons. (%) | 4.50%                               | 5.94%  |



| NTPS                                       | Approved as per order of March 2019 | Actual  |
|--|-------------------------------------|---------|
| Net Energy in MU                           | 165.91                              | 237.85  |
| Availability (%)                           | 50.00%                              | 33.93%  |
| PLF (%) for incentive                      | 50.00%                              | 28.50%  |
| Gross Station Heat Rate on GCV (kcal/ kWh) | 3900                                | 4583.58 |
| Wt. Avg. Price of Gas<br>(Rs./1000 SCM)    | 6076.99                             | 6390.70 |

3.2.2. The following table shows the operating performance parameters of gas based Lakwa thermal power station for FY 2019-20

Table 3: Operating Performance for FY 2019-20 of LTPS

| LTPS                                       | Approved as per order of March 2019            | Actual  |
|--|--|---------|
| Gross Energy in MU                         | 425.74   | 362.01  |
| Aux. Power Cons. (%)                       | 5.50%  | 10.39%  |
| Net Energy in MU                           | 402.32   | 324.39  |
| Availability (%)                           | 50.00%   | 53.92%  |
| PLF (%) for incentive                      | 50.00%   | 40.21%  |
| Gross Station Heat Rate on GCV (kcal/ kWh) | "3200 for Closed cycle<br>3900 for Open cycle" | 3397    |
| Wt. Avg. Price of Gas<br>(Rs./1000 SCM)    | 7758.11  | 8263.04 |

3.2.3. The following table shows the operating performance parameters of Karbi Langpi hydro electric power station for FY 2019-20.

Table 4: Operating Performance for FY 2019-20 of KLHEP

| KLHEP                | Approved as per order of March 2019 | Actual  |
|----------------------|-------------------------------------|---------|
| Gross Energy in MU   | 390.00                              | 398.528 |
| Aux. Power Cons. (%) | 0.50%                               | 0.42%   |
| Net Energy in MU     | 388.05                              | 396.85  |
| Availability (%)     | 85.00%                              | 85.03%  |
| PLF (%)              | 44.50%                              | 45.41%  |

3.2.4. The following table shows the operating performance parameters of Lakwa Replacement Power Project for FY 2019-20

Table 5: Operating Performance for FY 2019-20 of LRPP

| LRPP                                       | Approved as per order of March 2019 | Actual  |
|--|-------------------------------------|---------|
| Gross Energy in MU                         | 520.82                              | 504.20  |
| Aux. Power Cons. (%)                       | 3.50%                               | 2.92%   |
| Net Energy in MU                           | 502.59                              | 489.48  |
| Availability (%)                           | 85.00%                              | 88.63%  |
| PLF (%) for incentive                      | 90.00%                              | 82.78%  |
| Gross Station Heat Rate on GCV (kcal/ kWh) | 2150                                | 2144    |
| Wt. Avg. Price of Gas (Rs./1000 SCM)       | 7758.11                             | 8263.04 |

3.2.5. The performance parameter certificate showing plant wise availability, generation, auxiliary consumption etc. issued by SLDC is attached as Annexure No. 4.

# 3.3. Normative Annual Plant Availability Factor (NAPAF)

- 3.3.1. <u>NAPAF for NTPS</u>: As per Regulation 47.1 of the MYT Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2019-20 for NTPS.
- 3.3.2. We submit that NTPS faced Force Majeure conditions in the form of grid disturbance and auto transformer constraints. We submit that as per Tariff Regulations, 2018, Force Majeure is any event or circumstance, which is not within the reasonable control of, and is not due to an act of omission or commission of that party. As per the regulation, the shutdown or the interruption of the grid is also a Force Majeure condition.
- 3.3.3. We submit that in FY 2019-20 APGCL has lost the opportunity to generate 12.40 MU of electricity due to Grid unavailability and Grid disturbance. The month on month generation loss due to the two factors is shown below:

Table 6: Generation loss of NTPS due to Grid unavailability and Grid disturbance in FY 2019-20

| MU lost for NTPS in 2019-<br>20 | MU lost due to grid disturbance | MU lost due to Auto<br>transformer constraints |
|---------------------------------|---------------------------------|--|
| Apr-19                          | 0.13                            | 0.23   |
| May-19                          | 0.24                            | 0.02   |
| Jun-19                          | -                               | -  |
| Jul-19                          | 0.30                            | 0.03   |
| Aug-19                          | 0.26                            | -  |



| MU lost for NTPS in 2019-<br>20 | MU lost due to grid disturbance | MU lost due to Auto<br>transformer constraints |
|---------------------------------|---------------------------------|--|
| Sep-19                          | 0.17                            | -  |
| Oct-19                          | -                               | -  |
| Nov-19                          | -                               | -  |
| Dec-19                          | 0.01                            | 3.21   |
| Jan-20                          | 0.44                            | 4.96   |
| Feb-20                          | 0.33                            | 1.78   |
| Mar-20                          | 0.19                            | 0.09   |
| Total                           | 2.07                            | 10.32  |
| Grand total                     |                                 | 12.40  |

- 3.3.4. APGCL has lost 2.07 MU due to breakdown of various transmission lines and other grid disturbance from time to time as shown above.
- 3.3.5. APGCL has in total lost 10.32 MU in FY 2019-20 due to evacuation constraints faced due to issues with the auto transformers used for evacuation of power from NTPS.
- 3.3.6. Both of the above reasons for loss of generation are uncontrollable events for APGCL. The Tariff Regulations 2018 define the event pertaining to grid interruption as a Force Majeure Event as follows:

"Force Majeure Event" means, with respect to any party, any event or circumstance, which is not within the reasonable control of, and is not due to an act of omission or commission of, that party and which, by the exercise of reasonable care and diligence, could not have been prevented, and without limiting the generality of the foregoing, would include the following events:

- a. acts of God, including but not limited to lightning, storm, action of the elements, earthquakes, flood, torrential rains, drought and natural disaster;
- b. strikes, lockouts, go-slow, bandh or other industrial disturbances not instigated by any party;
- c. acts of public enemy, wars (declared or undeclared), blockades, insurrections, riots, revolution, sabotage, vandalism and civil disturbance;
- d. unavoidable accident, including but not limited to fire, explosion, radioactive contamination and toxic dangerous chemical contamination;
- e. any shutdown or interruption of the grid, which is required or directed by the State or Central Government or by the Commission or the Assam State Load Despatch Centre; and f. any shut down or interruption, which is required to avoid serious and immediate risks of a significant plant or equipment failure.
- 3.3.7. In view of the above, APGCL has claimed availability lost due to uncontrollable factors. The summary of the approved and actual availability claimed for FY 2019-20 are shown in the table below.



Table 7: Availability for 2019-20 of NTPS

| NTPS                             | Approved as per order of March 2019 | Availability<br>achieved | Availability lost due to uncontrollable factors | Total Availability claimed for FY 2019-20 |
|----------------------------------|-------------------------------------|--------------------------|---|---|
| Plant Availability<br>Factor (%) | 50.00%                              | 32.44%                   | 1.49%   | 33.93%                                    |

- 3.3.8. The certificate for Generation Loss of NTPS due to Grid Restrictions and Auto Transformer Constraints is attached in Annexure 5
- 3.3.9. <u>NAPAF for LTPS</u>: As per Regulation 47.1 of the MYT Regulations, 2015 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2019-20 for LTPS. The approved and actual numbers are shown in the table below.

Table 8: Availability for 2019-20 of LTPS

| LTPS                          | Approved as per order of March 2019 | Actual |
|-------------------------------|-------------------------------------|--------|
| Plant Availability Factor (%) | 50.00%                              | 53.92% |

3.3.10. <u>NAPAF for KLHEP</u>: Further, Regulation 49 specifies normative PAF for KLHEP as 85%. The approved and actual numbers are shown in the table below.

Table 9: Availability for 2019-20 of KLHEP

| KLHEP                         | Approved as per order of March 2019 | Actual |
|-------------------------------|-------------------------------------|--------|
| Plant Availability Factor (%) | 85.00%                              | 85.03% |

3.3.11. NAPAF for LRPP: As per Regulation 47.1 of the Tariff Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 85% for new plants The Hon'ble Commissioned had approved the same. The approved and estimated numbers are shown in the table below.

Table 10: Availability for 2019-20 of LRPP

| LRPP                          | Approved as per order of March 2019 | Actual |
|-------------------------------|-------------------------------------|--------|
| Plant Availability Factor (%) | 85.00%                              | 88.63% |



## 3.4. Normative Annual Plant Load Factor (NAPLF)

3.4.1. <u>NAPLF for NTPS and LTPS</u>: As per Regulation 47.2 of the MYT Regulations, 2018 the Normative Plant Load factor is 50% and 66% for FY 2019-20 for NTPS and LTPS respectively. The approved and actual numbers are shown in the table below.

Table 11: Plant Load Factor for 2019-20 of NTPS

| NTPS                  | Approved as per order of March 2019 | Actual |
|-----------------------|-------------------------------------|--------|
| Plant Load Factor (%) | 50.00%                              | 28.50% |

Table 12: Plant Load Factor for 2019-20 of LTPS

| LTPS                  | Approved as per order of March 2019 | Actual |
|-----------------------|-------------------------------------|--------|
| Plant Load Factor (%) | 66.00%                              | 40.21% |

3.4.2. <u>NAPLF for KLHEP</u>: Further, Regulation 49 of the MYT Regulations, 2018 specifies normative PLF for KLHEP as 44.5% for FY 2019-20. The approved and actual numbers are shown in the table below.

Table 13: Plant Load Factor for 2019-20 of KLHEP

| KLHEP                 | Approved as per order of March 2019 | Actual |
|-----------------------|-------------------------------------|--------|
| Plant Load Factor (%) | 44.50%                              | 45.41% |

3.4.3. <u>NAPLF for LRPP</u>: As per Regulation 47.2 of the Tariff Regulations, 2018 the Normative Plant Load factor, is 90% for new plants commissioned. The Hon'ble Commissioned had approved the same. The approved and estimated numbers are shown in the table below.

Table 14: Plant Load Factor for 2019-20 of LRPP

| LRPP                  | Approved as per order of March 2019 | Actual |
|-----------------------|-------------------------------------|--------|
| Plant Load Factor (%) | 90.00%                              | 82.78% |

### 3.5. Gross Station Heat Rate (SHR)

- 3.5.1. <u>SHR for NTPS</u>: As per Regulation 47.4 of the MYT Regulations, 2018 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2019-20 for NTPS in Partial combined cycle mode of operation.
- 3.5.2. We submit that the SHR of NTPS is higher than the approved SHR in FY 2019-20 due to part loading of units resulting due to lower gas supply and evacuation constraints and old nature of the plant equipments and machinery.
- 3.5.3. The approved and actual numbers are shown in the table below.

Table 15: SHR for 2019-20 of NTPS

| NTPS                         | Approved as per order of March 2019 | Actual  |
|------------------------------|-------------------------------------|---------|
| Station Heat Rate (kCal/kWh) | 3900                                | 4583.58 |

- 3.5.4. <u>SHR for LTPS</u>: As per Regulation 47.4 of the MYT Regulations, 2018 the Normative Station Heat Rate for FY 2019-20 for LTPS, is 3200 kCal/kWh in closed cycle mode of operation.
- 3.5.5. The actual SHR is higher than the approved SHR for LTPS for FY 2019-20 as shown below.

Table 16: SHR for 2019-20 of LTPS

| LTPS                         | Approved as per order of March 2019          | Actual |
|------------------------------|--|--------|
| Station Heat Rate (kCal/kWh) | 3200 for Closed cycle<br>3900 for Open cycle | 3397   |

- 3.5.6. <u>SHR for LRPP</u>: The Hon'ble Commission had approved the Gross Station Heat Rate for LRPP at 2,150 kCal/kWh in the Tariff Order dated March 01, 2019 for LRPP.
- 3.5.7. The actual SHR is lower than the approved SHR for LRPP for FY 2019-20 as shown below.

Table 17: SHR for 2019-20 of LRPP

| LRPP Approved as per Order of March 2019 |       | Actual |
|--|-------|--------|
| Station Heat Rate (kCal/kWh)             | 2,150 | 2144   |

3.5.8. APGCL prays to AERC to approve the actual SHR numbers.



# 3.6. Auxiliary Energy Consumption

- 3.6.1. <u>Auxiliary consumption for NTPS</u>: As per Regulation 47.3 of the MYT Regulations, 2018 the Normative Auxiliary energy consumption, is 4.50% for FY 2019-20 for NTPS.
- 3.6.2. We submit that the auxiliary consumption of NTPS is higher than the approved auxiliary consumption in FY 2019-20 due to part loading of units. In view of the above, APGCL prays to the Hon'ble Commission to approve the actual auxiliary consumption as it has increased due to uncontrollable factors.
- 3.6.3. The approved and actual numbers are shown in the table below.

Table 18: Auxiliary energy consumption for 2019-20 of NTPS

| NTPS                             | Approved as per order of March 2019 | Actual |
|----------------------------------|-------------------------------------|--------|
| Auxiliary energy consumption (%) | 4.50%                               | 5.94%  |

- 3.6.4. <u>Auxiliary consumption for LTPS</u>: As per Regulation 47.3 of the MYT Regulations, 2018 the Normative Auxiliary energy consumption, is 5.50% for FY 2019-20 for LTPS.
- 3.6.5. We submit that the Auxiliary consumption of LTPS is higher than the approved values due to low gas pressure in supply of gas. Due to low gas pressure in supply, the usage of gas compressors has increased resulting in high auxiliary consumption of LTPS. The auxiliary consumption of LTPS is also higher than the approved auxiliary consumption in FY 2019-20 due to part loading of units. Further the lower gas supply constraints simultaneous operations of all 3 GTs most of the time. As the WHRU is designed to run with 3 HRSGs, non-availability of one HRSG increases the percentage of APC as gross power generation reduces. However, same number of auxiliaries have to be run to operate the WHRU.
- 3.6.6. The approved and actual numbers are shown in the table below.

Table 19: Auxiliary energy consumption for 2019-20 of LTPS

| LTPS                             | Approved as per order of March 2019 | Actual |
|----------------------------------|-------------------------------------|--------|
| Auxiliary energy consumption (%) | 5.50%                               | 10.39% |

3.6.7. <u>Auxiliary consumption for KLHEP</u>: As per Regulation 49.1 of the MYT Regulations, 2018 the Normative Auxiliary energy consumption, is 0.5% for FY 2019-20 for KLHEP. The approved and actual numbers are shown in the table below.

Table 20: Auxiliary energy consumption for 2019-20 of KLHEP

| KLHEP                            | Approved as per order of March 2019 | Actual |
|----------------------------------|-------------------------------------|--------|
| Auxiliary energy consumption (%) | 0.50%                               | 0.42%  |

- 3.6.8. <u>Auxiliary consumption for LRPP:</u> As per Regulation 47.3 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption, is 3.50% for gas engine based generating station in open cycle mode of operation with gas booster compressor.
- 3.6.9. The approved and actual numbers are shown in the below table

Table 21: Auxiliary energy consumption for 2019-20 of LRPP

| LRPP                             | Approved as per order of March 2019 | Actual |
|----------------------------------|-------------------------------------|--------|
| Auxiliary energy consumption (%) | 3.50%                               | 2.92%  |

3.6.10. APGCL prays to AERC to approve the actual auxiliary consumption numbers.

# 4. Fixed Cost of the Plant

### 4.1. Annual fixed cost for FY 2019-20

- 4.1.1. The fixed cost of APGCL's power plants has been approved by AERC via MYT order in Case No. 14 and 18 of 2018 dated 1<sup>st</sup> March 2019, subsequently via Revised ARR order in Case No. 10 of 2019 dated 7<sup>th</sup> March 2020.
- 4.1.2. As per regulation 42.1 of the AERC Tarff regulations, 2018 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, 2018. These components have been discussed plant wise in detail in the following sections of the petition.

# 4.2. Return on Equity (ROE)

- 4.2.1. The Hon'ble Commission in its regulation 33 of the AERC Regulations, 2018 has considered the pre-tax return on equity at 15.50% of equity capital.
- 4.2.2. The Petitioner has determined the Return on Equity (RoE) at a rate of 15.50% in accordance with the AERC Regulations, 2018. The Petitioner submits that there has been no addition in Equity in FY 2019-20 for NTPS, LTPS and KLHEP. However there has been equity addition in LRPP in FY2019-20. Further, it is submitted that the actual tax paid is being claimed separately.

### 4.2.3. Additional Capital Expenditure for LRPP

4.2.3.1. The Petitioner had incurred the following additional Capital Expenditure for LRPP in FY2019-20 post COD of the plant.

Table 22: Additional Capital Expenditure incurred in FY2019-20 Post COD for LRPP

| Particulars   | Approved Additional Capitalization as per Order of March 2019 | Expenditure<br>incurred in FY2018-<br>19 | Expenditure<br>incurred in FY2019-<br>20 |
|---|---|--|--|
| Expenditure Post COD in Rs. Crore                           | 22.34   | 12.21                                    | 10.73                                    |
| Grant Portion of the Additional Capitalization in Rs. Crore | 11.43   | 6.02                                     | 7.40                                     |

4.2.3.1. The above expenditure for FY2019-20 includes Foreign Exchange Risk Variation (in addition to FERV claimed in True Up for FY2018-19). As per regulation 28.1 (a) of MYT Regulation 2018, any loss or gain on account of Foreign exchange risk variation will form part of the capital cost for the plant. The loss on account of Foreign exchange risk variation is as shown below.

Table 23: FERV loss for LRPP in FY2019-20

| Particulars                  | Euro to INR<br>conversion<br>considered<br>during bidding | Euro payment<br>done in<br>FY2019-20 | INR amount considered during bidding @68.66 | Actual INR<br>amount<br>paid | FERV<br>loss in<br>FY2019-<br>20 |
|------------------------------|---|--------------------------------------|---|------------------------------|----------------------------------|
|                              | 1   | 2                                    | $3 = 2 \times 68.66$                        | 4                            | 5 = 4-3                          |
| FERV loss<br>in Rs.<br>Crore | 1 Euro = 68.66<br>INR                                     | Euro 10.01<br>Lakhs                  | INR 6.87 Crore                              | INR 7.85<br>crore            | 0.98<br>Crores                   |

- 4.2.3.2. We submit that the expenditure undertaken post COD of LRPP is within the original scope of work and these were either works deferred for execution or undischarged liabilities recognized to be payable at a future date. Hence, APGCL prays to the Hon'ble Commission to approve the additional capitalization planned in FY 2019-20
- 4.2.3.3. APGCL has considered the balance fund source of Additional Capital Expenditure in the normative allowed debt-equity ratio of 70:30 for FY2019-20 as approved by the Commission in its order of March 2019



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

Table 24: Computation of Plant wise Return in Equity for 2019-20

Rs. Cr

| Station | Particulars                             | Approved on                | T                       |
|---------|---|----------------------------|-------------------------|
| Station | Particulars                             | Approved as                | True up Petition for FY |
|         |   | per order of<br>March 2019 | 2019-20                 |
|         |   |                            |                         |
| NTPS    | Opening Equity                          | 55.00                      | 55.00                   |
|         | Closing Equity                          | 55.00                      | 55.00                   |
|         | Rate of Return                          | 15.50%                     | 15.50%                  |
|         | Return on Equity                        | 8.53                       |                         |
|         | Return on Equity for Effective Capacity | 3.10                       | 8.53                    |
| LTPS    | Opening Equity                          | 143.08                     | 143.08                  |
|         | Closing Equity                          | 143.08                     | 143.08                  |
|         | Rate of Return                          | 15.50%                     | 15.50%                  |
|         | Return on Equity                        | 22.18                      |                         |
|         | Return on Equity for Effective Capacity | 15.16                      | 22.18                   |
| KLHEP   | Opening Equity                          | 68.65                      | 68.65                   |
|         | Closing Equity                          | 68.65                      | 68.65                   |
|         | Rate of Return                          | 15.50%                     | 15.50%                  |
|         | Return on Equity                        | 10.64                      |                         |
|         | Return on Equity for Effective Capacity | 10.64                      | 10.64                   |
| LRPP    | Opening Equity                          | 16.1                       | 14.84                   |
|         | Closing Equity                          | 16.1                       | 15.73                   |
|         | Rate of Return                          | 15.50%                     | 15.50%                  |
|         | Return on Equity                        | 2.50                       |                         |
|         | Return on Equity for Effective          |                            | 2.37                    |
|         | Capacity                                | 2.50                       |                         |

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

# 4.3. Interest on Loan Capital

- 4.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 4.3.2. In view of the above, the Petitioner has computed the Interest on long term Loan on normative basis for FY 2019-20. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2019-20. The interest rate has been considered as the weighted average rate of actual interest rate applicable to APGCL at the beginning of FY 2019-20.
- 4.3.3. The finance charges are shown separately plant wise for FY 2019-20. The table below summarizes the interest on loan and finance charges considered for True-up of FY 2019-20.

Table 25: Computation of Plant wise Interest and finance charges for 2019-20

| Station | Particulars  | Approved as per order of March 2019 | True up Petition for FY 2019-20 |
|---------|--|-------------------------------------|---------------------------------|
| NTPS    | Net Normative Opening Loan                             | 0.25                                | 0.85                            |
|         | Addition of normative loan during the year             | 4.75                                | 1.40                            |
|         | Normative Repayment during the year                    | 1.74                                | 1.46                            |
|         | Net Normative Closing Loan                             | 3.27                                | 0.79                            |
|         | Avg. Normative Loan                                    | 1.76                                | 0.82                            |
|         | Interest Rate  | 10.30%                              | 10.04%                          |
|         | Interest on Loan Capital                               | 0.18                                | 0.08                            |
|         | Add: Bank Charges                                      | -                                   | 0.02                            |
|         | Net Interest on Loan Capital                           | 0.18                                |                                 |
|         | Net Interest on Loan Capital for Effective<br>Capacity | 0.07                                | 0.10                            |
| LTPS    | Net Normative Opening Loan                             | 0                                   | 0                               |
|         | Addition of normative loan during the year             | 16.1                                | 3.38                            |
|         | Normative Repayment during the year                    | 15.3                                | 11.15                           |
|         | Net Normative Closing Loan                             | 0.80                                | 0.00                            |
|         | Avg. Normative Loan                                    | 0.40                                | 0.00                            |
|         | Interest Rate  | 10.30%                              | 10.04%                          |
|         | Interest on Loan Capital                               | 0.04                                | -                               |
|         | Add: Bank Charges                                      | -                                   | 0.03                            |
|         | Net Interest on Loan Capital                           | 0.04                                | 0.03                            |

| Station | Particulars  | Approved as per order of March 2019 | True up Petition for FY 2019-20 |
|---------|--|-------------------------------------|---------------------------------|
|         | Net Interest on Loan Capital for Effective Capacity    | 0.03                                |                                 |
| KLHEP   | Net Normative Opening Loan                             | 219.7                               | 216.24                          |
|         | Addition of normative loan during the year             | 11.2                                | 0.13                            |
|         | Normative Repayment during the year                    | 21.63                               | 21.13                           |
|         | Net Normative Closing Loan                             | 209.28                              | 195.24                          |
|         | Avg. Normative Loan                                    | 214.49                              | 205.74                          |
|         | Interest Rate  | 10.30%                              | 10.04%                          |
|         | Interest on Loan Capital                               | 22.09                               | 20.65                           |
|         | Add: Bank Charges                                      | -                                   | 0.02                            |
|         | Net Interest on Loan Capital                           | 22.09                               |                                 |
|         | Net Interest on Loan Capital for Effective<br>Capacity | 22.09                               | 20.68                           |
| LRPP    | Net Normative Opening Loan                             | 34.8                                | 36.71                           |
|         | Addition of normative loan during the year             | 0                                   | 2.10                            |
|         | Normative Repayment during the year                    | 2.75                                | 2.60                            |
|         | Net Normative Closing Loan                             | 32.05                               | 36.21                           |
|         | Avg. Normative Loan                                    | 33.43                               | 36.46                           |
|         | Interest Rate  | 10.30%                              | 10.04%                          |
|         | Interest on Loan Capital                               | 3.44                                | 3.66                            |
|         | Add: Bank Charges                                      | -                                   | -                               |
|         | Net Interest on Loan Capital                           | 3.44                                |                                 |
|         | Net Interest on Loan Capital for Effective Capacity    | 3.44                                | 3.66                            |
|         | Total  | 25.76                               | 24.46                           |
|         | Total for Effective Capacity                           | 25.63                               | 24.46                           |

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

# 4.4. Depreciation

- 4.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has considered the principle as laid out in Regulation 32.
- 4.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the plant wise Depreciation considered for True-up of FY 2019-20

Table 26: Depreciation for 2019-20 of NTPS



| Particulars               | FY 2019-20 |
|---------------------------|------------|
| Opening GFA               | 190.49     |
| Addition during the year  | 1.40       |
| Closing                   | 191.89     |
| Average GFA               | 191.19     |
| Rate of Depreciation      | 0.82%      |
| Total Depreciation        | 1.56       |
| Grant                     | 13.16      |
| Additions during the year | 0.00       |
| Closing grant             | 13.16      |
| Average grant             | 13.16      |
| Rate of Depreciation      | 0.82%      |
| Depreciation on grants    | 0.11       |
| Net Depreciation          | 1.46       |

Table 27: Depreciation for 2019-20 of LTPS

Rs. Cr

| Particulars               | FY 2019-20 |  |
|---------------------------|------------|--|
| Opening GFA               | 482.53     |  |
| Addition during the year  | 3.38       |  |
| Closing                   | 485.91     |  |
| Average GFA               | 484.22     |  |
| Rate of Depreciation      | 2.66%      |  |
| Total Depreciation        | 12.89      |  |
| Grant                     | 65.50      |  |
| Additions during the year | 0.00       |  |
| Closing grant             | 65.50      |  |
| Average grant             | 65.50      |  |
| Rate of Depreciation      | 2.66%      |  |
| Depreciation on grants    | 1.74       |  |
| Net Depreciation          | 11.15      |  |

Table 28: Depreciation for 2019-20 of KLHEP

| Particulars              | FY 2019-20 |
|--------------------------|------------|
| Opening GFA              | 514.57     |
| Addition during the year | 0.13       |
| Closing                  | 514.70     |



| Average GFA               | 514.63 |
|---------------------------|--------|
| Rate of Depreciation      | 4.59%  |
| Total Depreciation        | 23.65  |
| Grant                     | 54.66  |
| Additions during the year | 0.00   |
| Closing grant             | 54.66  |
| Average grant             | 54.66  |
| Rate of Depreciation      | 4.59%  |
| Depreciation on grants    | 2.51   |
| Net Depreciation          | 21.13  |

Table 29: Depreciation for 2019-20 of LRPP

Rs. Cr

| Particulars               | FY 2019-20 |
|---------------------------|------------|
| Opening GFA               | 257.68     |
| Addition during the year  | 10.73      |
| Closing                   | 268.41     |
| Average GFA               | 263.04     |
| Rate of Depreciation      | 5.12%      |
| Total Depreciation        | 13.47      |
| Grant                     | 208.56     |
| Additions during the year | 7.40       |
| Closing grant             | 215.96     |
| Average grant             | 212.26     |
| Rate of Depreciation      | 5.12%      |
| Depreciation on grants    | 10.87      |
| Net Depreciation          | 2.60       |

Table 30: Summary of Depreciation claimed for FY 2019-20

| Station | Particulars                                   | Approved as per order of March 2019 | True up<br>Petition for<br>FY 2019-20 |
|---------|---|-------------------------------------|---------------------------------------|
| NTPS    | Depreciation                                  | 1.9                                 | 1.56                                  |
|         | Less: Depreciation on assets funded by Grants | 0.16                                | 0.11                                  |
|         | Net Depreciation                              | 1.74                                | 1 40                                  |
|         | Net Depreciation for Effective Capacity       | 0.63                                | 1.46                                  |



| Station | Particulars                                   | Approved as per order of March 2019 | True up<br>Petition for<br>FY 2019-20 |
|---------|---|-------------------------------------|---------------------------------------|
| LTPS    | Depreciation                                  | 17.83                               | 12.89                                 |
|         | Less: Depreciation on assets funded by Grants | 2.53                                | 1.74                                  |
|         | Net Depreciation                              | 15.30                               | 11.15                                 |
|         | Net Depreciation for Effective Capacity       | 10.46                               | 11.13                                 |
| KLHEP   | Depreciation                                  | 24.39                               | 23.65                                 |
|         | Less: Depreciation on assets funded by Grants | 2.76                                | 2.51                                  |
|         | Net Depreciation                              | 21.63                               | 21 12                                 |
|         | Net Depreciation for Effective Capacity       | 21.63                               | 21.13                                 |
| LRPP    | Depreciation                                  | 13.6                                | 13.47                                 |
|         | Less: Depreciation on assets funded by Grants | 10.85                               | 10.87                                 |
|         | Net Depreciation                              | 2.75                                | 2.60                                  |
|         | Net Depreciation for Effective Capacity       | 2.75                                | 2.60                                  |
|         |   |                                     |                                       |
|         | Total   | 41.42                               | 36.34                                 |
|         | Total for Effective Capacity                  | 35.47                               |                                       |

4.4.3. APGCL prays to the Hon'ble Commission to approve the plant wise Depreciation for FY 2019-20 as shown above.

# 4.5. Interest on Working Capital

- 4.5.1. As per Regulation 34 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.
- 4.5.2. 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. 7.00% + 3.00 % = 10.00%. The plant wise interest on working capital considered is shown in the table below:

Table 31: Summary of Interest on working capital claimed for FY 2019-20  $\it Rs.\ Cr$ 

| Station | Particulars             | Approved as per order of March 2019 | True up Petition for FY 2019-20 |
|---------|-------------------------|-------------------------------------|---------------------------------|
| NTPS    | Fuel Cost for one month | 4.23                                | 6.74                            |



| Station | Particulars                        | Approved as per order of March 2019 | True up Petition<br>for FY 2019-20 |
|---------|------------------------------------|-------------------------------------|------------------------------------|
|         | O&M Expenses for one month         | 1.57                                | 3.05                               |
|         | Maintenance Spares-30% of O&M      | 5.65                                | 10.97                              |
|         | Receivables for two months         | 12.21                               | 19.83                              |
|         | Total Working Capital Requirement  | 23.66                               | 40.58                              |
|         | Rate of interest                   | 11.50%                              | 10.00%                             |
|         | Interest on Working capital        | 2.72                                | 4.06                               |
|         | Fuel Cost for one month            | 9.65                                | 9.02                               |
|         | O&M Expenses for one month         | 3.22                                | 3.23                               |
|         | Maintenance Spares-30% of O&M      | 11.58                               | 11.61                              |
| LTPS    | Receivables for two months         | 31.23                               | 27.23                              |
|         | Total Working Capital Requirement  | 55.68                               | 51.09                              |
|         | Rate of interest                   | 11.50%                              | 10.00%                             |
|         | Interest on Working capital        | 6.40                                | 5.11                               |
|         | O&M Expenses for one month         | 2.37                                | 2.40                               |
|         | Maintenance Spares-30% of O&M      | 4.27                                | 8.64                               |
| KLHEP   | Receivables for two months         | 15.79                               | 11.57                              |
| KLIILF  | Total Working Capital Requirement  | 22.43                               | 22.61                              |
|         | Rate of interest                   | 11.50%                              | 10.00%                             |
|         | Interest on Working capital        | 2.58                                | 2.26                               |
|         | Fuel Cost for one month            | 7.91                                | 7.93                               |
|         | O&M Expenses for one month         | 1.67                                | 1.71                               |
| LRPP    | Maintenance Spares-30% of O&M      | 6.01                                | 6.14                               |
|         | Receivables for two months         | 21.32                               | 21.46                              |
|         | Total Work ing Capital Requirement | 36.91                               | 37.24                              |
|         | Rate of interest                   | 11.50%                              | 10.00%                             |
|         | Interest on Working capital        | 4.24                                | 3.72                               |
|         | Total interest on Working capital  | 15.95                               | 15.15                              |

4.5.3. APGCL prays to the Hon'ble Commission to approve the plant wise Interest on Working capital for FY 2019-20 as shown above.

#### 4.6. Operation and Maintenance Expenses (O&M Expenses)

- 4.6.1. As per Regulation of the Tariff Regulations, 2018 does not provide for separate approval of Employee expenses, A&G expenses and R&M expenses.
- 4.6.2. We submit that that the Hon'ble Commission has approved the Normative Operations & Maintenance for LTPS for FY 2019-20 at Rs. 56.49 Crore in the Order of March 2019 which was subsequently revised to Rs. 56.69 Crore in the Order of March 2020
- 4.6.3. However, the Hon'ble Commission while approving the O&M for LTPS in the Order of March 2020 as per effective capacity for FY 2019-20 (table 53 of the order) has approved Rs. 22.86 Crore whereas as per effective capacity it should be Rs. 38.75 (Effective Capacity of 97.2 MW against installed capacity of 142.2 MW) Crore. The Hon'ble Commission had reduced the O&M cost of LRPP from the approved O&M cost of LTPS.
- 4.6.4. APGCL humbly submits that it had awarded the R&M services of LRPP to M/s Wartsila and for which APGCL is bearing Rs. 1.29 Crores per quarter as R&M expenditure. Such cost is also borne by APGCL.
- 4.6.5. APGCL humbly submits that the following historical O&M Cost for LTPS as well as the current actual O&M cost incurred in FY19-20.

| (in   | Rs.  | Crore) |
|-------|------|--------|
| / 111 | IVD. | CIUIC  |

|                             | FY16-17 | FY17-18 | FY18-19 | FY19-20 | Average<br>O&M<br>Expenditure |
|-----------------------------|---------|---------|---------|---------|-------------------------------|
| LTPS Actual O&M Expenditure | 54.96   | 46.00   | 38.53   | 41.53   | 45.26                         |

- 4.6.6. As can be seen from the above table, the average actual O&M cost incurred for LTPS has been Rs. ~45.26 Crore in the last 4 years. The Hon'ble Commission's reduction of the O&M Cost of LRPP from the Normative O&M cost for LTPS as per Order of March 2020 would lead to difficulty on the operations & maintenance cost coverage of LTPS for APGCL.
- 4.6.7. APGCL humbly prays to the Commission to approve the Normative O&M cost as per Order of March 2020 at Rs. 56.69 Crore and reduce the cost for effective capacity considering the actual effective installed capacity of 97.2 MW only while keeping the actual O&M Cost for LRPP separate for allowance.
- 4.6.8. APGCL also humbly submits to the Hon'ble Commission that is it not claiming the same O&M expenses for LTPS as well as LRPP. APGCL is only claiming the actual expenditure incurred for each plant separately as shown below.
- 4.6.9. APGCL prays to the hon'ble commission to approve the O&M expenses for FY 2019-20 as shown in the table below.

Table 32: Operation and Maintenance claimed for FY 2019-20



| Station | Approved in<br>March 2019 | Approved considering Effective Installed Capacity in order of March 2019 | As per audited accounts for FY 2019-20 | Amount considered for True up Petition for FY 2019-20 (excluding Special R&M and ROP) |
|---------|---------------------------|--|--|---|
| NTPS    | 51.72                     | 18.83  | 39.04                                  | 36.56   |
| LTPS    | 56.49                     | 38.62  | 41.53                                  | 38.71   |
| KLHEP   | 28.44                     | 28.44  | 29.99                                  | 28.80   |
| LRPP    | 20.04                     | 20.04  | 20.98                                  | 20.48   |
| Total   | 156.69                    | 105.93   | 131.53                                 | 124.54  |

- 4.6.10. As per Regulation 2.1(50) of the Tariff Regulations, 2018, Operation and maintenance expense include manpower, repairs, spares, consumables, insurance and overheads but excludes fuel expenses and water charges.
- 4.6.11. In view of the above, APGCL has also provided Station-wise details of headwise O&M expenses claimed for FY 2019-20

Table 33: Station-wise details of head-wise O&M expenses claimed for FY 2019-20

| Station | <b>Employee Cost</b> | R&M   | A&G   | Total  |
|---------|----------------------|-------|-------|--------|
| NTPS    | 32.58                | 4.63  | 1.83  | 39.04  |
| LTPS    | 28.54                | 8.96  | 4.02  | 41.53  |
| KLHEP   | 22.87                | 3.96  | 3.16  | 29.99  |
| LRPP    | 13.30                | 6.64  | 1.04  | 20.98  |
| Total   | 97.30                | 24.19 | 10.05 | 131.53 |

4.6.12. The Petitioner submits that increase in Revision of Pay and Special R&M are being claimed separately as per the Tariff Regulations 2018.

APGCL had to incur Rs. 6.99 Crores for Revision of Pay in FY2019-20 as per order of the Government of Assam. The Order for the Payment of Generation Allowance Arrear has been attached in Annexure 7

4.6.13. APGCL prays to the Hon'ble Commission to approve the plant wise O&M expenses for FY 2019-20 as shown above.

#### 4.7. Actual Tax Claim

- 4.7.1. As per regulation 35 of the Tariff Regulations 2018, income tax as will be reimbursed per actual income tax paid, based on the documentary evidence submitted at the time of truing up.
- 4.7.2. APGCL has determined the annual tax claim to be payable to Income Tax Department at Rs. 1.16 Crores. However the final tax payment will be done based on the amount determined under the tax audit which is expected to be completed by December 2020. In view of the above, the Petitioner has claimed the tax on income as shown in the table below. The tax on income has been apportioned plant wise based on the plant wise revenue from sale of power received in FY 2019-20. APGCL humbly submits that it will submit the actual tax claim based on the final tax audit assessment to the Commission as soon as it is available.

Table 34: Plant wise Tax on income claimed for FY 2019-20

Rs. Cr

| Station | Tax on income claimed for FY 2019-20 |
|---------|--------------------------------------|
| NTPS    | 0.21                                 |
| LTPS    | 0.41                                 |
| KLHEP   | 0.23                                 |
| LRPP    | 0.32                                 |
| Total   | 1.16                                 |

4.7.3. The Petitioner prays to the Hon'ble Commission to approve the plant wise tax on income for FY 2019-20 as shown in the table above.

#### 4.8. Impact of ROP (Revision of Pay)

4.8.1. APGCL had to incur Rs. 6.99 Crores for Revision of Pay in FY2019-20 as per order of the Government of Assam.

Table 35: Revision of pay and payment of arrears for FY 2019-20

| Station | Approved in Order for<br>March 2019 | Amount appeared in<br>Annual Accounts for<br>FY 2019-20 | Amount claimed for True-Up |
|---------|-------------------------------------|---|----------------------------|
| NTPS    | 0.00                                | 2.49  | 2.49                       |
| LTPS    | 0.00                                | 2.82  | 2.82                       |
| KLHEP   | 0.00                                | 1.19  | 1.19                       |
| LRPP    | 0.00                                | 0.50  | 0.50                       |
| Total   | 0.00                                | 6.99  | 6.99                       |



4.8.2. APGCL prays to the Hon'ble Commission to approve the plant wise ROP expenses for FY 2019-20 as shown above.

#### 4.9. Special R&M

- 4.9.1. As per regulation 29.5 (iii) of the Tariff Regulations 2018, special R&M expenditure is allowed for efficient operation of the stations.
- 4.9.2. APGCL's expenditure under Special R&M was done for the following.

| Work Name                                 | Total<br>Amount<br>Approved | Appeared in Annual Accounts FY 2019-20 | Claim in<br>FY 2019-<br>20 | Remarks  |
|---|-----------------------------|--|----------------------------|--|
| Overhauling of Unit-6 of NTPS             | 4.00                        | 0.00                                   | 0.00                       | The overhauling could not be undertaken in FY2019-20. The overhauling schedule will be revised post commissioning of NRPP.   |
| Overhauling LTPS - Unit<br>5 in FY2020-21 | 10.00                       | 0.00                                   | 0.00                       | with 20 MW BHEL, GE, Frame - V Gas Turbines to produce power in combined cycle since 2012. As the HRSG of the unit GT#5 is under shut down since 08/02/2018, for the purpose of maximizing generation, optimizing the utilization of limited available Natural Gas and to minimize heat rate and mainly to run the plant in combined Cycle Mode, Preference was given to Gas Turbines whose HRSG were in available condition. And so it was assumed that GT#7 will reach next MI running hours earlier than GT#5 though the MI of GT#7 was done around 8 months later on 03/12/2014 at running hours of 82889 hrs than GT#5. MI of GT#5 was completed on 24/02/2014 after at Running Hour of 80914.5 RH and so the MI of GT#5 was shifted to GT#7. In the above context the Major Overhauling work was interchanged from GT#5 to GT#7. GT#5 will get pereference in producing power only after |

| Work Name   | Total<br>Amount<br>Approved | Appeared in Annual Accounts FY 2019-20 | Claim in<br>FY 2019-<br>20 | Remarks  |
|---|-----------------------------|--|----------------------------|--|
|   |                             |  |                            | completion of restoration work of its HRSG.  Thus, APGCL is undertaking the Special R&M of Unit 7 in the first phase in FY21-22. |
| Capital Overhauling of<br>50MW Francis type Fuji<br>make Generator<br>Turbine Unit-II - KLHEP | 15.00                       | 0.00                                   | 0.00                       | The revised estimate for work to be undertaken in FY21-22 is INR 15.10 Cr.   |

- 4.9.3. Thus no Special R&M works could be undertaken in FY 2019-20.
- 4.9.4. In view of the above regulations, the approved and actual number for Special R&M for FY 2019-20 are shown in the table below.

Table 36: Plant wise Special R&M for FY 2019-20

| Station | Approved as per order of<br>March 2019 | Amount claimed for True-Up |
|---------|--|----------------------------|
| NTPS    | 4.00                                   | 0.00                       |
| LTPS    | 10.00                                  | 0.00                       |
| KLHEP   | 15.00                                  | 0.00                       |
| LRPP    | 0.00                                   | 0.00                       |
| Total   | 29.00                                  | 0.00                       |

4.9.5. APGCL prays to the Hon'ble Commission to approve the plant wise Special R&M for FY 2019-20 as shown in the table above.

#### 4.10. Capacity building

- 4.10.1. The Hon'ble Commission had approved expenses pertaining to Capacity Building of APGCL employees.
- 4.10.2. In FY2019-20 has incurred INR 33.78 Lakhs on Capacity Building. The list of capacity building activities undertaken in FY2019-20 is shown below:

| SI<br>No. | Title of the training course   | Name, designation & place of posting of the participants  | Period                         | Duration<br>(in days) | Organizer of the training course                                       |
|-----------|--|---|--------------------------------|-----------------------|--|
| 1         | Preventive Maintenance<br>of Transformer by<br>Teanformer Oil Analysis<br>and DGA                    | Sri Ranjit Das, AGM, APGCL (HQ); Sri P.J. Baishya, AGM, APGCL (HQ); Sri Tutmoni Dekaraja, DM, LTPS, APGCL, Maibella; Th. Sandeep Singha, DM, NTPS, APGCL, Namrup; Sri Ganitabh Arongia, JM, LTPS, APGCL, Maibella   | 19-07-2019                     | 1                     | Central Power Research Institute Regional Testing Laboratory, Guwahati |
| 2         | Challenges & Remedial<br>measures for retaining<br>Human Resources                                   | Sri Anal Kishore Bordoloi,<br>DM(HR), LTPS, APGCL,<br>Maibella; Sri Amar Kujur,<br>AM(HR), KLHEP, APGCL,<br>Lengery; Smti Purnima<br>Mahanta, AM (HR), APGCL<br>(HQ)  | 21/08/2019<br>to<br>23/08/2019 | 3                     | National Power<br>Training Institute<br>(NPTI), Faridabad              |
| 3         | Protection of Industrail<br>Power Systems  | Sri Anuj Kumar Das, AGM (PP), KLHEP, APGCL, Lengery; Sri Kalyan Boruah, DM, LTPS, APGCL, Maibella; Sri Amit Ranjan Lashkar, AM, LTPS, APGCL, Maibella; Sri Makhan Bora, JM, LTPS, APGCL, Maibella; Sri Biswaraj Dhar, JM, LTPS, APGCL, Maibella; Sri Jehova Lalthuoilen Inbudn, JM, KLHEP, APGCL, Lengery; Sri Nilkamal Singha, JM, LTPS, APGCL, Maibella | 21/10/2019<br>to<br>25/10/2019 | 5                     | NPTI, Power System<br>Training Institute<br>(PSTI), Bangalore          |
| 4         | Sediment Management<br>for ensuring the<br>sustainability of Reservoir<br>and Run-off River Projects | Sri Sarbajit Bhattacharyya, AM<br>(C), LKCD, APGCL, Lanka; Sri<br>Pranoy Sarma, AM (C),<br>MSHEP, APGCL, Karbi Anglong  | 25/09/2019<br>to<br>26/09/2019 | 2                     | Central Board of<br>Irrigation & Power<br>(CBIP), New Delhi            |
| 5         | International Workshop<br>on Hydrokinetic<br>Technology  | Sri Ratnajit Biswanath, CGM<br>(H&C), APGCL ; Sri Chandra<br>Kamal Bora, AGM (C) i/c,<br>NTPS, APGCL, Namrup  | 10/10/2019<br>to<br>11/10/2019 | 2                     | Indian Institute of<br>Technology (IIT),<br>Roorkee                    |
| 6         | Concept of commissioning of Solar Power Plants   | Sri Mridul Bora, DM, LTPS,<br>APGCL, Maibella; Sri Abhijit<br>Dutta, AM, NTPS,<br>APGCL,Namrup  | 16/09/2019<br>to<br>20/09/2019 | 2                     | REC Institute of<br>Power Management<br>and Training<br>(RECIPMT)      |
| 7         | Vibrations, Balancing,<br>Alignment and Condition<br>Monitoring of Rotating<br>Equipment             | Sri Prasanna Gogoi, AGM,<br>LTPS, APGCL, Maibella; Sri<br>Khonsing Teron, AGM, KLHEP,<br>APGCL, Lengery; Sri Sanjay<br>Mallik, AM, LTPS, APGCL,<br>Maibella   | 20/08/2019<br>to<br>23/08/2019 | 4                     | Engineering Staff<br>College of India<br>(ESCI), Hyderabad             |
| 8         | e- Procurement   | Smti Lipika Das, AGM (PP),<br>APGCL (HQ); Smti Destimona<br>Borah, AM (C), APGCL (HQ)   | 24/07/2019<br>to<br>26/07/2019 | 3                     | Administrative Staff<br>College of India<br>(ASCI), Hyderabad          |



| SI  | Title of the training  | Name, designation & place of  | Period                         | Duration  | Organizer of the   |
|-----|--|---|--------------------------------|-----------|--|
| No. | course   | posting of the participants   |                                | (in days) | training course  |
| 9   | Income Tax   | Sri AKS Zaman, AGM (F&A),<br>APGCL (HQ); Sri Ajoy Kr. Nath,<br>AO, APGCL (HQ)   | 12/12/2019<br>to<br>14/12/2019 | 3         | National Academy<br>of Human Resource<br>Development<br>(NAHRD)                                      |
| 10  | Recent changes under<br>GST for PSU & private<br>undertaking               | Sri Luit Saurav Mahanta, AO,<br>APGCL (HQ); Sri Simanta<br>Bordoloi, AO, APGCL (HQ)   | 05/12/2019<br>to<br>06/12/2019 | 2         | International<br>Business<br>Conference (IBC)  |
| 11  | Improving effectiveness<br>of Private Secretaries &<br>Personal Assistants | Sri Amal Mitra, OSD to the<br>MD, APGCL   | 26/11/2019<br>to<br>28/11/2019 | 3         | National Productivity Council, Under the Ministry of Commerce & Industry, Govt. f India, Bhubaneswar |
| 12  | Switch gear and<br>Transformer Maintenance                                 | Sri Pankaj Bikash Sarma, AGM, LTPS, APGCL, Maibella; Sri Madhurjya Ritu Das, DM, MSHEP, APGCL, Karbi Anglong; Sri Tutumoni Dekaraja, DM, KLHEP, APGCL, Lengery; Sri Saurav Das, DM, NTPS, APGCL, Namrup; Sri Longchap Kiri Phangcho, DM, LTPS, APGCL, Maibella; Sri munna Pathori, AM, NTPS, APGCL, Namrup; Sri Subhra Jyoti Borah, AM, NTPS, APGCL, Namrup; Sri Rajkumar Pegu, JM, LTPS, APGCL, Maibella; Sri Pronoy Bora, JM, LTPS, APGCL, Maibella; Sri Rajib Konwar, JM, KLHEP, APGCL, Lengery  | 11/11/2019<br>to<br>15/11/2019 | 5         | NPTI, PSTI,<br>Bangalore   |
| 13  | Renewable Energy   | Sri Kumud Ram Bora, DGM, NTPS, APGCL, Namrup; Sri Hridaya Nanda Bora, DGM, APGCL (HQ); Sri Akshay Talukdar, DGM, APGCL (HQ); Smti Ashrulima Borah, AGM, LTPS, APGCL, Maibella; Sri Rajib Rongpi, DM, KLHEP, APGCL, Lengery; Sri Victor Paul Choudhury, DM (C), NTPS, APGCL, Namrup; Sri Nihar Saikia, AM, LTPS, APGCL, maibella; Sri Jitumoni Deka, AM, LTPS, APGCL, Maibella; Sri Rohan Upadhyay, AM (C), LTPS, APGCL, Maibella; Sri Ramen Nath, AM, NTPS, APGCL, Namrup; Sri Apurba Jyoti Biswasi, AM (C), KLHEP, APGCL, Lengery; Sri Sarat Bora, AM, APGCL (HQ); Sri Rajkumar Pegu, JM, LTPS, APGCL, Maibella; Sri Poran | 24/09/2019<br>to<br>26/09/2019 | 3         | Indian Electrical & Electronics Manufacturers' Association (IEEMA)                                   |

| SI  | Title of the training                 | Name, designation & place of  | Period                         | Duration  | Organizer of the  |
|-----|---------------------------------------|---|--------------------------------|-----------|---|
| No. | course                                | posting of the participants Jyoti Borkoch, JM, LTPS, APGCL, Maibella; Sri Rupam Saikia, JM (C), NTPS, APGCL, Namrup; Sri Satyapriya Das, JM, KLHEP, APGCL, Lengery; Smti Rita Boro, AM, APGCL (HQ); Sri Dipanjal Das, JM (C), NTPS, APGCL, Namrup; Ngi Cheng Weingken, JM (C), NTPS, APGCL, Namrup; Sri Prema Bhadra Hasnu, JM, KLHEP, APGCL, Lengery |                                | (in days) | training course   |
| 14  | MDP on Transformational<br>Leadership | Sri Kumud Ram Bora, DGM,<br>NTPS, APGCL, Namrup; Smti<br>Lipika Das, AGM (PP), APGCL<br>(HQ)  | 06/06/2019<br>to<br>08/06/2019 | 3         | Xavier Institute of<br>Management and<br>Information<br>Technology (XIMIT),<br>Bamunimaidam |
| 15  | Cyber Security Awareness<br>Session   | Sri Animesh Saikia, DM,<br>APGCL (HQ)   | 24-06-2019                     | 1         | NHPC Limited  |

| SI  | Title of the training  | Name, designation & place of   | Period     | Duration  | Organizer of the    |
|-----|------------------------|--------------------------------|------------|-----------|---------------------|
| No. | course                 | posting of the participants    |            | (in days) | training course     |
| 16  | Micro/Mini/Normal/Macr | Sri Manash Pratim Bharadwaj,   | 07/08/2019 | 2         | Indian Electrical & |
|     | o Hydro Power Plant    | DM(C), KLHEP, APGCL,           | to         |           | Electronics         |
|     |                        | Lengery; Sri Victor Paul       | 08/08/2019 |           | Manufacturers'      |
|     |                        | Choudhury, DM(C), NTPS,        |            |           | Association (IEEMA  |
|     |                        | APGCL, Namrup; Sri Sharat      |            |           |                     |
|     |                        | Borah, DM (E), KLHEP, APGCL,   |            |           |                     |
|     |                        | Lengery; Sri Reswel Teron,     |            |           |                     |
|     |                        | DM (E), KLHEP, APGCL,          |            |           |                     |
|     |                        | Lengery; Sri Sobin Das,        |            |           |                     |
|     |                        | AM(C),NTPS, APGCL, Namrup;     |            |           |                     |
|     |                        | Sri Manokh Das, AM (C),LTPS,   |            |           |                     |
|     |                        | APGCL, Maibella; Sri Pranoy    |            |           |                     |
|     |                        | Sarma, AM(C),KLHEP, APGCL,     |            |           |                     |
|     |                        | Lengery; Sri Sanjay Rabha,     |            |           |                     |
|     |                        | AM(C),KLHEP, APGCL,            |            |           |                     |
|     |                        | Lengery; Sri Victor Bordoloi,  |            |           |                     |
|     |                        | AM(E),LTPS, APGCL, Maibella;   |            |           |                     |
|     |                        | Sri Victor Bordoloi, AM        |            |           |                     |
|     |                        | (E),LTPS, APGCL, Maibella; Sri |            |           |                     |
|     |                        | Tirtha Pratim Khound, AM       |            |           |                     |
|     |                        | (M), KLHEP, APGCL, Lengery;    |            |           |                     |
|     |                        | Sri Pankaj Shyam, JM (E),      |            |           |                     |
|     |                        | LTPS, APGCL, Maibella; Sri     |            |           |                     |
|     |                        | Dipanjal Das, JM (C),NTPS,     |            |           |                     |
|     |                        | APGCL, Namrup; Sri Ramu        |            |           |                     |
|     |                        | Hanse, JM(C),KLHEP, APGCL,     |            |           |                     |
|     |                        | Lengery; Sri Pranab Jyoti      |            |           |                     |
|     |                        | Dutta, JM(C), LTPS, APGCL,     |            |           |                     |
|     |                        | Maibella; Sri Riju Malakar, JM |            |           |                     |
|     |                        | (C), CTPS, APGCL, Chandrapur;  |            |           |                     |
|     |                        | Smti Geetika Hazarika,         |            |           |                     |
|     |                        | JM(C),APGCL (HQ); Sri Naba     |            |           |                     |
|     |                        | Jyoti Boruah, JM(C),NTPS,      |            |           |                     |
|     |                        | APGCL, Namrup; Sri Biju        |            |           |                     |
|     |                        | Difoesa, JM(C),LKHEP, APGCL,   |            |           |                     |
|     |                        | Lanka; Sri Krishna Singh,      |            |           |                     |
|     |                        | JM(C),BKV Investigation        |            |           |                     |
|     |                        | Division, APGCL, Jagiroad; Sri |            |           |                     |
|     |                        | Dhiraj Borthakur,              |            |           |                     |
|     |                        | JM(C),LKHEP, APGCL, Lanka      |            |           |                     |



| SI<br>No. | Title of the training course                   | Name, designation & place of posting of the participants  | Period     | Duration<br>(in days) | Organizer of the training course               |
|-----------|--|---|------------|-----------------------|--|
| 17        | Managing Workplace<br>Stress                   | Sri Akshay Talukdar, DGM, APGCL (HQ); Sri Ajanta Kr. Mahanta, AGM, APGCL (HQ); Sri Saurav Saikia, DGM (C),APGCL (HQ); Sri Ridib Baruah, AGM, APGCL (HQ); Sri Bikash Bharali, AGM, APGCL (HQ); Sri Khonsing Teron, AGM, KLHEP, APGCL, Lengery; Sri Ranjit Das, AGM, APGCL (HQ); Sri Pranab Jyoti Baishya, AGM, APGCL (HQ); Sri Jonardan Rongpi, DGM (C),KLHEP, APGCL, Lengery; Sri Angshuman Sonowal, AGM, LTPS, APGCL, Maibella; Sri Bigstone Hanse, AGM, KLHEP, APGCL, Lengery; Sri Himanshu Das, AGM, APGCL, KLHEP, Lengery; Sri Chandra Kamal Bora, DM(C),NTPS, APGCL, Namrup; Smti Banashri Choudhury, DM (IT), APGCL (HQ); Sri Anurag Gogoi, DM, LTPS, APGCL, Maibella; Sri Anup Bharali, DM, LTPS, APGCL, Maibella; Sri Anup Bharali, DM, LTPS, APGCL, Lanka; Sri Animesh Saikia, DM(C),APGCL (HQ); Sri Porah Jyoti Ligira, DM, LKHEP, APGCL, Lanka; Sri Longchap Kiri Phangcho, DM, LTPS, APGCL, Maibella; Sri Abhinandan Dutta, AM (C),LKHEP, APGCL, Lanka; Sri Abhinandan Dutta, AM (C),LKHEP, APGCL, Lanka; Sri Sandipan Borah, AM, NTPS, APGCL, Namrup; Sri Gunamoni Nath, AM, NTPS, APGCL, Namrup; Sri Abhijit Dutta, AM, NTPS, APGCL, Namrup | 24-02-2019 | 1`                    | Optimista,<br>Guwahati-28                      |
| 18        | Efficient operation and maintenance of Boilers | Sri Abhijit Saha, AGM, NTPS,<br>APGCL, Namrup; Sri<br>Biswajyoti Gohain, AGM,<br>NTPS, APGCL, Namrup; Sri<br>Krishanu Bikash Karmakar,<br>DM, NTPS, APGCL, Namrup;<br>Sri Hiron Phukan, DM, NTPS,<br>APGCL, Namrup  | 28-06-2019 | 1                     | National<br>Producxtivity<br>Council, Guwahati |



| SI<br>No. | Title of the training course   | Name, designation & place of posting of the participants  | Period                         | Duration (in days) | Organizer of the training course   |
|-----------|--|---|--------------------------------|--------------------|--|
| 19        | Safety Awareness<br>Generation Program   | Sri Biswajyoti Gohain, AGM,<br>NTPS, APGCL, Namrup; Sri<br>Rati Kanta Dey, AGM, NTPS,<br>APGCL, Namrup; Sri Prasanna<br>Gogoi, AGM, LTPS, APGCL,<br>Maibella; Sri Vikash Sharma,<br>DM, LTPS, APGCL, Maibella | 10-09-2019                     | 1                  | Regional Inspectorial Organization (RIO) NE, Central Electricity Authority (CEA) in association with IEEMA, BIS & ICAI |
| 20        | Sexual Harassment of<br>Women at Workplace<br>(Prevention and<br>Redressal) Act, 2013 for<br>Officials of Government<br>Departments, Members<br>of ICC and LCC | Smti Indrani Dewri, AGM,<br>APGCL (HQ); Smti Aklantika<br>Saikia, AGM , APGCL (HQ)  | 18/07/2019<br>to<br>19/07/2019 | 2                  | National Institute of<br>Public Cooperation<br>and Child<br>Development<br>(NIPCCD), Regional<br>Centre, Guwahati      |
| 21        | Regional workshop for<br>DCs of PET Cycle to and<br>PET Cycle 5  | Sri Pankaj Bikash Sarma,<br>AGM, LTPS, APGCL, Maibella ;<br>Sri Longchap Kiri Phangcho,<br>DM, LTPS, APGCL, Maibella;<br>Sri Rupjyoti Kalita, AM, NTPS,<br>APGCL, Namrup.                                     | 21-05-2019                     | 1                  | Bureau of Enegery<br>Efficiceny, New<br>Delhi with support<br>of SDA, Chandigarh                                       |

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

Table 37: Expenses under Capacity building

Rs. Cr

| Station | Approved as per order of<br>March 2019 | Amount claimed for APR |
|---------|--|------------------------|
| NTPS    | 0.10                                   | 0.11                   |
| LTPS    | 0.10                                   | 0.11                   |
| KLHEP   | 0.10                                   | 0.11                   |
| LRPP    | 0.00                                   | 0.00                   |
| Total   | 0.30                                   | 0.34                   |

4.10.4. APGCL prays to the Hon'ble Commission to approve the above mentioned capacity building expenses for FY2019-20.



#### 4.11. Non-Tariff income

- 4.11.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 4.11.2. In view of the above regulations, the details of non-tariff income for FY 2019-20 are shown in the table below

Table 38: Station-wise details of Non tariff income for FY 2019-20

Rs. Cr

| Station | Approved as per order of March 2019 | As per audited accounts for FY 2019-<br>20 | True up Petition for FY 2019-20 |
|---------|-------------------------------------|--|---------------------------------|
| NTPS    | 7.13                                | 15.44                                      | 15.44                           |
| LTPS    | 9.22                                | 25.37                                      | 25.37                           |
| KLHEP   | 5.75                                | 16.69                                      | 16.69                           |
| LRPP    | 0.00                                | 0.00                                       | 0.00                            |
| Total   | 22.10                               | 57.49                                      | 57.49                           |

4.11.3. APGCL prays to the Hon'ble Commission to approve the plant wise Non tariff income for FY 2019-20 as shown above.

#### 4.12. Total Fixed Cost

- 4.12.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 4.12.2. Based on the above, the Annual fixed charges for FY 2019-20 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 39: Annual Fixed charges for 2019-20 of NTPS

| Particulars                         | Approved as per order of March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |
|-------------------------------------|-------------------------------------|--|--------------------------------------|
| Operation & Maintenance Expenditure | 18.83                               | 39.04                                    | 36.56                                |
| Employee Expenses                   | 0                                   | 32.58                                    | 30.09                                |
| R&M Expenses                        | 0                                   | 4.63                                     | 4.63                                 |
| A&G Expenses                        | 0                                   | 1.83                                     | 1.83                                 |
| Interest & Finance Charges          | 0.07                                | 20.49                                    | 0.10                                 |
| Interest on working Capital         | 2.72                                | 0.00                                     | 4.06                                 |



| Particulars         | Approved as per order of March 2019 | Amount appeared in Annual Accounts 19- | Amount<br>claimed<br>for True-<br>Up |
|---------------------|-------------------------------------|--|--------------------------------------|
| Depreciation        | 0.63                                | 1.56                                   | 1.46                                 |
| Return on Equity    | 3.10                                | 0                                      | 8.53                                 |
| Income taxes        | -                                   | 0.21                                   | 0.21                                 |
| Impact of ROP       | 0.00                                | 2.49                                   | 2.49                                 |
| Special R&M         | 4.00                                | 0                                      | 0                                    |
| Capacity Building   | 0.10                                | 0.11                                   | 0.11                                 |
| Less: Other Income  | 7.13                                | 15.44                                  | 15.44                                |
| Total Fixed Charges | 22.32                               | 48.47                                  | 38.08                                |

Table 40: Annual Fixed charges for 2019-20 of LTPS

| Particulars                         | Approved as per order of March 2019 | Amount<br>appeared in<br>Annual<br>Accounts 19-<br>20 | Amount<br>claimed<br>for True-<br>Up |
|-------------------------------------|-------------------------------------|---|--------------------------------------|
| Operation & Maintenance Expenditure | 38.62                               | 41.53   | 38.71                                |
| Employee Expenses                   |                                     | 28.54   | 25.73                                |
| R&M Expenses                        |                                     | 8.96  | 8.96                                 |
| A&G Expenses                        |                                     | 4.02  | 4.02                                 |
| Interest & Finance Charges          | 0.03                                | 27.46   | 0.03                                 |
| Interest on working Capital         | 6.40                                | 0.00  | 5.11                                 |
| Depreciation                        | 10.46                               | 12.89   | 11.15                                |
| Return on Equity                    | 15.16                               | 0.00  | 22.18                                |
| Income taxes                        | -                                   | 0.41  | 0.41                                 |
| Impact of ROP                       | 0                                   | 2.82  | 2.82                                 |
| Special R&M                         | 10                                  | 0   | 0                                    |
| Capacity Building                   | 0.10                                | 0.11  | 0.11                                 |
| Less: Other Income                  | 9.22                                | 25.37   | 25.37                                |
| Total Fixed Charges                 | 71.55                               | 59.85   | 55.15                                |

Table 41: Annual Fixed charges for 2019-20 of KLHEP

| Particulars                         | Approved as per order of March 2019 | Amount<br>appeared in<br>Annual<br>Accounts 19-<br>20 | Amount<br>claimed<br>for True-<br>Up |
|-------------------------------------|-------------------------------------|---|--------------------------------------|
| Operation & Maintenance Expenditure | 28.44                               | 29.99   | 28.80                                |
| Employee Expenses                   |                                     | 22.87   | 21.68                                |
| R&M Expenses                        |                                     | 3.96  | 3.96                                 |
| A&G Expenses                        |                                     | 3.16  | 3.16                                 |
| Interest & Finance Charges          | 22.09                               | 12.37   | 20.68                                |
| Interest on working Capital         | 2.58                                | 0.00  | 2.26                                 |
| Depreciation                        | 21.63                               | 23.65   | 21.13                                |
| Return on Equity                    | 10.64                               | 0.00  | 10.64                                |
| Income taxes                        | -                                   | 0.23  | 0.23                                 |
| Impact of ROP                       | -                                   | 1.19  | 1.19                                 |
| Special R&M                         | 15.00                               | -   | -                                    |
| Capacity Building                   | 0.10                                | 0.11  | 0.11                                 |
| Less: Other Income                  | 5.75                                | 16.69   | 16.69                                |
| Total Fixed Charges                 | 94.73                               | 50.84   | 68.34                                |

Table 42: Annual Fixed charges for 2019-20 of LRPP Rs. Cr

| Particulars                         | Approved as per order of March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |
|-------------------------------------|-------------------------------------|--|--------------------------------------|
| Operation & Maintenance Expenditure | 20.04                               | 20.98                                    | 20.48                                |
| Employee Expenses                   |                                     | 13.30                                    | 12.80                                |
| R&M Expenses                        |                                     | 6.64                                     | 6.64                                 |
| A&G Expenses                        |                                     | 1.04                                     | 1.04                                 |
| Interest & Finance Charges          | 3.44                                | 2.61                                     | 3.66                                 |
| Interest on working Capital         | 4.24                                | 0.00                                     | 3.72                                 |
| Depreciation                        | 2.75                                | 13.47                                    | 2.60                                 |
| Return on Equity                    | 2.50                                | 0.00                                     | 2.37                                 |
| Income taxes                        | -                                   | 0.32                                     | 0.32                                 |

| Particulars         | Approved as per order of March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |
|---------------------|-------------------------------------|--|--------------------------------------|
| Impact of ROP       | 0                                   | 0.50                                     | 0.50                                 |
| Special R&M         | 0                                   | 0.00                                     | 0.00                                 |
| Capacity Building   |                                     |  |                                      |
| Less: Other Income  | 0.00                                | 0.00                                     | 0.00                                 |
| Total Fixed Charges | 32.97                               | 37.88                                    | 33.65                                |

4.12.3. The Petitioner prays to the Hon'ble Commission to approve the plant wise fixed costs for FY 2019-20 as discussed in the tables above.

## 5. Energy Charges

#### 5.1. Fuel Price and Calorific Value

5.1.1. As per Regulation 10 of the Tariff Regulations 2018, '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 for FY 2019-20

| Station | Wt. Avg. Gross Calorific Value of Gas (kcal/SCM) | Wt. Avg. Price of Gas<br>(Rs./1000 SCM) |
|---------|--|---|
| NTPS    | 9,157.63   | 6,390.70                                |
| LTPS    | 9,388.83   | 8,263.04                                |
| LRPP    | 9,388.83   | 8,263.04                                |

5.1.2. The Petitioner prays to the Hon'ble Commission to approve the actual Price of Gas and GCV for NTPS, LTPS and LRPP for FY 2019-20 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 actual total fuel cost incurred for FY 2019-20

Table 44: Fuel cost for NTPS for FY 2019-20

| Particulars       | Unit          | Approved as per order of March 2019 | FY 2019-20 Actual |
|-------------------|---------------|-------------------------------------|-------------------|
| Gross Generation  | MU            | 173.73                              | 252.86            |
| Heat Rate         | kcal/kWh      | 3900                                | 4583.58           |
| GCV of gas        | kcal/SCM      | 8893.61                             | 9157.63           |
| Overall Heat      | G. cal.       | 677547                              | 1159018.74        |
| Gas consumption   | M. SCM        | 76.18                               | 126.56            |
| Price of Gas      | Rs./ 1000 SCM | 6076.99                             | 6390.70           |
| Total cost of Gas | Rs. Crore     | 46.30                               | 80.88             |

Table 45: Fuel cost for LTPS for FY 2019-20

| Particulars      | Unit     | Approved as per order of March 2019 | FY 2019-20 Actual |
|------------------|----------|-------------------------------------|-------------------|
| Gross Generation | MU       | 425.74                              | 362.01            |
| Heat Rate        | kcal/kWh | 3200                                | 3396.60           |
| GCV of gas       | kcal/SCM | 9126.42                             | 9388.83           |
| Overall Heat     | G. cal.  | 1362368                             | 1229586.29        |



| Particulars       | Unit         | Approved as per order of March 2019 | FY 2019-20 Actual |
|-------------------|--------------|-------------------------------------|-------------------|
| Gas consumption   | M. SCM       | 149.28                              | 130.96            |
| Price of Gas      | Rs./1000 SCM | 7758.11                             | 8263.04           |
| Total cost of Gas | Rs. Crore    | 115.81                              | 108.21            |

Table 46: Fuel cost for LRPP for FY 2019-20

| Particulars       | Unit         | Approved as per order of March 2019 | FY 2019-20 Actual |
|-------------------|--------------|-------------------------------------|-------------------|
| Gross Generation  | MU           | 520.82                              | 504.20            |
| Heat Rate         | kcal/kWh     | 2150                                | 2143.87           |
| GCV of gas        | kcal/SCM     | 9126.42                             | 9388.83           |
| Overall Heat      | G. cal.      | 1119763                             | 1080936.57        |
| Gas consumption   | M. SCM       | 122.69                              | 115.13            |
| Price of Gas      | Rs./1000 SCM | 7758.11                             | 8263.04           |
| Total cost of Gas | Rs. Crore    | 95.19                               | 95.13             |

5.2.2. The Petitioner prays to the Hon'ble Commission to approve the actual Fuel cost Price for NTPS, LTPS and LRPP for FY 2019-20 as shown in the table above.

#### 5.3. Incentives

- 5.3.1. Secondary charge for KLHEP: As per regulation 53.6 of the Tariff Regulations 2018, 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 north east region.
- 5.3.2. The net generation of KLHEP in FY 2019-20 was higher than the design energy and hence Secondary Charge Incentive has been claimed for KLHEP as follows:

Table 47: Secondary Charge for KLHEP in FY2019-20

| SI.<br>No. | Station | Capacity<br>of<br>KLHEP | Design Energy<br>( net of Aux.<br>Consumption) | Actual<br>Energy<br>Sent out | Excess<br>over<br>D.E. | Ex-bus<br>energy<br>eligible for<br>incentive | Secondary<br>charge<br>(Rs. Cr) |
|------------|---------|-------------------------|--|------------------------------|------------------------|---|---------------------------------|
|            | 1       | 2                       | 3  | 4                            | 5                      | 6   | 7= 0.818 x<br>6/10              |
| 1          | KLHEP   | 100                     | 388.05   | 396.85                       | 8.80                   | 8.80  | 0.72                            |



- 5.3.3. APGCL submits that due to an error it has billed Rs. 56 Lakhs for Secondary Charge for KLHEP in FY2019-20 which is included in the Revenue. It will bill the remaining amount in FY20-21 to APDCL in the month of December 2020
- 5.3.4. As per regulation 53.2 of the Tariff Regulations 2018, <u>incentive payable to hydro power plants for achieving higher availability</u> than normative availability is inclusive of the Annual fixed cost.
- 5.3.5. As per the formula in the above regulation, incentive is payable to hydro power plants if actual availability is higher than normative availability. The same is being claimed as shown in the table below.

Table 48: Incentive claim for KLHEP for FY 2019-20

| SI. No | Station | Actual AFC<br>for FY 2019-<br>20 | Actual<br>availability<br>achieved for<br>365 days | Normative<br>availability | Incentive for Availability claimed as per actual AFC for 365 days (Rs. Cr) |
|--------|---------|----------------------------------|--|---------------------------|--|
|        | 1       | 2                                | 3  | 4                         | 5 = 1 x 0.5 x (3-4) /4   |
| 1      | KLHEP   | 68.34                            | 85.03%   | 85.00%                    | 0.01   |

- 5.3.6. APGCL submits that the above incentive is being claimed for KLHEP in FY 2019-20 as shown above.
- 5.3.7. The Petitioner prays to the Hon'ble Commission to approve the Secondary charge and Incentives for KLHEP for FY 2019-20 as shown in the tables above.

# 6. Summary of submissions for True-up of FY 2019-20

#### 6.1. Net Annual Revenue Requirement

6.1.1. The plant wise Net Annual Revenue Requirements for FY 2019-20 are as shown in the tables below.

Table 49: Net Annual Revenue Requirements for NTPS for FY 2019-20

|           | True-up for FY 2019                     | True-up for FY 2019-20 For NTPS           |  |                                      |  |  |  |  |
|-----------|---|---|--|--------------------------------------|--|--|--|--|
| SI.<br>No | Particulars                             | Approved as<br>per order of<br>March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |  |  |  |  |
| I         | POWER GENERATION (MU)                   |   |  |                                      |  |  |  |  |
|           | Gross Generation                        | 173.73                                    | 252.86                                   | 252.86                               |  |  |  |  |
|           | Net Generation                          | 165.91                                    | 237.85                                   | 237.85                               |  |  |  |  |
|           | Auxiliary Consumption Loss %            | 4.50%                                     | 5.94%                                    | 5.94%                                |  |  |  |  |
|           |   |   |  |                                      |  |  |  |  |
| ı         | Fixed Charges                           |   |  |                                      |  |  |  |  |
|           | Operation & Maintenance Expenditure     | 18.83                                     | 39.04                                    | 36.56                                |  |  |  |  |
|           | Employee Expenses                       | 0   | 32.58                                    | 30.09                                |  |  |  |  |
|           | R&M Expenses                            | 0   | 4.63                                     | 4.63                                 |  |  |  |  |
|           | A&G Expenses                            | 0   | 1.83                                     | 1.83                                 |  |  |  |  |
|           | Interest & Finance Charges              | 0.07                                      | 20.49                                    | 0.10                                 |  |  |  |  |
|           | Interest on working Capital             | 2.72                                      | 0.00                                     | 4.06                                 |  |  |  |  |
|           | Depreciation                            | 0.63                                      | 1.56                                     | 1.46                                 |  |  |  |  |
|           | Return on Equity                        | 3.10                                      | 0  | 8.53                                 |  |  |  |  |
|           | Income taxes                            | -   | 0.21                                     | 0.21                                 |  |  |  |  |
|           | Impact of ROP                           | 0.00                                      | 2.49                                     | 2.49                                 |  |  |  |  |
|           | Special R&M                             | 4.00                                      | 0  | 0                                    |  |  |  |  |
|           | Capacity Building                       | 0.10                                      | 0.11                                     | 0.11                                 |  |  |  |  |
|           | <u>Less</u> : Other Income              | 7.13                                      | 15.44                                    | 15.44                                |  |  |  |  |
| II        | Total Fixed Charges                     | 22.32                                     | 48.47                                    | 38.08                                |  |  |  |  |
| Ш         | Fuel Cost                               | 46.30                                     | 80.88                                    | 80.88                                |  |  |  |  |
| IV        | Total Revenue Requirement               | 68.62                                     | 129.35                                   | 118.96                               |  |  |  |  |
| V         | Incentive for generation for FY 2019-20 | 0   | 0  | 0                                    |  |  |  |  |
| VI        | Total Cost                              | 68.62                                     | 129.35                                   | 118.96                               |  |  |  |  |
| VII       | Revenue from Sale of Power              | 68.80                                     | 90.01                                    | 90.01                                |  |  |  |  |

|           | True-up for FY 2019-20 For NTPS |   |  |                                      |  |  |  |
|-----------|---------------------------------|---|--|--------------------------------------|--|--|--|
| SI.<br>No | Particulars                     | Approved as<br>per order of<br>March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |  |  |  |
| VIII      | Revenue Gap (+) / Surplus(-)    | -0.18                                     | 39.35                                    | 28.95                                |  |  |  |

Table 50: Net Annual Revenue Requirements for LTPS for FY 2019-20

|           | True-up for FY 2019-20 For LTPS         |                                     |  |                                      |  |  |
|-----------|---|-------------------------------------|--|--------------------------------------|--|--|
| SI.<br>No | Particulars                             | Approved as per order of March 2019 | Amount<br>appeared<br>in Annual<br>Accounts<br>19-20 | Amount<br>claimed<br>for True-<br>Up |  |  |
| ı         | POWER GENERATION (MU)                   |                                     |  |                                      |  |  |
|           | Gross Generation                        | 425.74                              | 362.01   | 362.01                               |  |  |
|           | Net Generation                          | 402.32                              | 324.39   | 324.39                               |  |  |
|           | Auxiliary Consumption Loss %            | 5.50%                               | 10.39%   | 10.39%                               |  |  |
|           |   |                                     |  |                                      |  |  |
| I         | Fixed Charges                           |                                     |  |                                      |  |  |
|           | Operation & Maintenance Expenditure     | 38.62                               | 41.53  | 38.71                                |  |  |
|           | Employee Expenses                       |                                     | 28.54  | 25.73                                |  |  |
|           | R&M Expenses                            |                                     | 8.96   | 8.96                                 |  |  |
|           | A&G Expenses                            |                                     | 4.02   | 4.02                                 |  |  |
|           | Interest & Finance Charges              | 0.03                                | 27.46  | 0.03                                 |  |  |
|           | Interest on working Capital             | 6.40                                | 0.00   | 5.11                                 |  |  |
|           | Depreciation                            | 10.46                               | 12.89  | 11.15                                |  |  |
|           | Return on Equity                        | 15.16                               | 0.00   | 22.18                                |  |  |
|           | Income taxes                            | 0.00                                | 0.41   | 0.41                                 |  |  |
|           | Impact of ROP                           | 0                                   | 2.82   | 2.82                                 |  |  |
|           | Special R&M                             | 10                                  | 0  | 0                                    |  |  |
|           | Capacity Building                       | 0.10                                | 0.11   | 0.11                                 |  |  |
|           | <u>Less</u> : Other Income              | 9.22                                | 25.37  | 25.37                                |  |  |
| II        | Total Fixed Charges                     | 71.55                               | 59.85  | 55.15                                |  |  |
| Ш         | Fuel Cost                               | 115.81                              | 108.21   | 108.21                               |  |  |
| IV        | Total Revenue Requirement               | 187.36                              | 168.06   | 163.36                               |  |  |
| V         | Incentive for generation for FY 2019-20 | 0.00                                | 0.00   | 0.00                                 |  |  |
| VI        | Total Cost                              | 187.36                              | 168.06   | 163.36                               |  |  |

| True-up for FY 2019-20 For LTPS |                              |   |  |                                      |  |  |
|---------------------------------|------------------------------|---|--|--------------------------------------|--|--|
| SI.<br>No                       | Particulars                  | Approved as<br>per order of<br>March 2019 | Amount<br>appeared<br>in Annual<br>Accounts<br>19-20 | Amount<br>claimed<br>for True-<br>Up |  |  |
| VII                             | Revenue from Sale of Power   | 187.36                                    | 174.52   | 174.52                               |  |  |
| VIII                            | Revenue Gap (+) / Surplus(-) | 0.00                                      | -6.45  | -11.16                               |  |  |

Table 51: Net Annual Revenue Requirements for KLHEP for FY 2019-20

Rs. Cr

|           | True-up for FY 2019-20 for KLHEP          |                                     |   |                                  |  |  |  |
|-----------|---|-------------------------------------|---|----------------------------------|--|--|--|
| SI.<br>No | Particulars                               | Approved as per order of March 2019 | Amount<br>appeared in<br>Annual<br>Accounts 19-<br>20 | Amount<br>claimed for<br>True-Up |  |  |  |
| I         | POWER GENERATION (MU)                     |                                     |   |                                  |  |  |  |
|           | Gross Generation                          | 390.00                              | 398.53  | 398.53                           |  |  |  |
|           | Net Generation                            | 388.05                              | 396.85  | 396.85                           |  |  |  |
|           | Auxiliary Consumption Loss<br>%           | 0.5%                                | 0.4%  | 0.42%                            |  |  |  |
|           |   |                                     |   |                                  |  |  |  |
| I         | Fixed Charges                             |                                     |   |                                  |  |  |  |
|           | Operation & Maintenance<br>Expenditure    | 28.44                               | 29.99   | 28.80                            |  |  |  |
|           | Employee Expenses                         |                                     | 22.87   | 21.68                            |  |  |  |
|           | R&M Expenses                              |                                     | 3.96  | 3.96                             |  |  |  |
|           | A&G Expenses                              |                                     | 3.16  | 3.16                             |  |  |  |
|           | Interest & Finance Charges                | 22.09                               | 12.37   | 20.68                            |  |  |  |
|           | Interest on working Capital               | 2.58                                | 0.00  | 2.26                             |  |  |  |
|           | Depreciation                              | 21.63                               | 23.65   | 21.13                            |  |  |  |
|           | Return on Equity                          | 10.64                               | 0.00  | 10.64                            |  |  |  |
|           | Income taxes                              | 0.00                                | 0.23  | 0.23                             |  |  |  |
|           | Impact of ROP                             | -                                   | 1.19  | 1.19                             |  |  |  |
|           | Special R&M                               | 15.00                               | -   | -                                |  |  |  |
|           | Capacity Building                         | 0.10                                | 0.11  | 0.11                             |  |  |  |
|           | Less: Other Income                        | 5.75                                | 16.69   | 16.69                            |  |  |  |
| III       | Total Fixed Charges Fuel Cost             | 94.73                               | 50.84   | 68.34                            |  |  |  |
| IV        | Total Revenue Requirement                 | 94.73                               | 50.84   | 68.34                            |  |  |  |
| V         | Incentive for generation for FY           |                                     | 50.84   | 00.34                            |  |  |  |
|           | 2019-20                                   | 0.00                                | 0.00  | 0.01                             |  |  |  |
| VI        | Incentive for Secondary Energy generation | 0.00                                | 0.00  | 0.72                             |  |  |  |
| VII       | Total Cost                                | 94.73                               | 50.84   | 69.08                            |  |  |  |
| VIII      | Revenue from Sale of Power                | 94.73                               | 96.49   | 96.49                            |  |  |  |
| IX        | Revenue Gap (+) / Surplus(-)              | 0.00                                | -45.64  | -27.41                           |  |  |  |

Table 52: Net Annual Revenue Requirements for LRPP for FY 2019-20 Rs. Cr

|           | True-up for FY 2019-20 For LRPP         |                                     |  |                                      |  |  |  |
|-----------|---|-------------------------------------|--|--------------------------------------|--|--|--|
| SI.<br>No | Particulars                             | Approved as per order of March 2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |  |  |  |
| ı         | POWER GENERATION (MU)                   |                                     |  |                                      |  |  |  |
|           | Gross Generation                        | 520.82                              | 504.20                                   | 504.20                               |  |  |  |
|           | Net Generation                          | 502.59                              | 489.48                                   | 489.48                               |  |  |  |
|           | Auxiliary Consumption Loss %            | 3.50%                               | 2.92%                                    | 2.92%                                |  |  |  |
|           |   |                                     |  |                                      |  |  |  |
| I         | Fixed Charges                           |                                     |  |                                      |  |  |  |
|           | Operation & Maintenance Expenditure     | 20.04                               | 20.98                                    | 20.48                                |  |  |  |
|           | Employee Expenses                       |                                     | 13.30                                    | 12.80                                |  |  |  |
|           | R&M Expenses                            |                                     | 6.64                                     | 6.64                                 |  |  |  |
|           | A&G Expenses                            |                                     | 1.04                                     | 1.04                                 |  |  |  |
|           | Interest & Finance Charges              | 3.44                                | 2.61                                     | 3.66                                 |  |  |  |
|           | Interest on working Capital             | 4.24                                | 0.00                                     | 3.72                                 |  |  |  |
|           | Depreciation                            | 2.75                                | 13.47                                    | 2.60                                 |  |  |  |
|           | Return on Equity                        | 2.50                                | 0.00                                     | 2.37                                 |  |  |  |
|           | Income taxes                            | 0.00                                | 0.32                                     | 0.32                                 |  |  |  |
|           | Impact of ROP                           | 0                                   | 0.50                                     | 0.50                                 |  |  |  |
|           | Special R&M                             | 0                                   | 0.00                                     | 0.00                                 |  |  |  |
|           | Capacity Building                       |                                     |  |                                      |  |  |  |
|           | <u>Less</u> : Other Income              | 0.00                                | 0.00                                     | 0.00                                 |  |  |  |
| II        | Total Fixed Charges                     | 32.97                               | 37.88                                    | 33.65                                |  |  |  |
| Ш         | Fuel Cost                               | 95.19                               | 95.13                                    | 95.13                                |  |  |  |
| IV        | Total Revenue Requirement               | 128.16                              | 133.01                                   | 128.78                               |  |  |  |
| V         | Incentive for generation for FY 2019-20 | 0.00                                | 0.00                                     | 0.00                                 |  |  |  |
| VI        | Total Cost                              | 128.16                              | 133.01                                   | 128.78                               |  |  |  |
| VII       | Revenue from Sale of Power              | 128.16                              | 134.42                                   | 134.42                               |  |  |  |
| VIII      | Revenue Gap (+) / Surplus(-)            | 0.00                                | -1.41                                    | -5.64                                |  |  |  |

#### 6.2. Summary

6.2.1. The summary of the True-up for FY 2019-20 For APGCL is as shown below.

Table 53: True-up for FY 2019-20 for AGPCL (in Crores)

|        | True-up for FY 2019-20                         | for APGCI                                       |  |                                      |
|--------|--|---|--|--------------------------------------|
| SI. No | Particulars                                    | Approved<br>as per<br>order of<br>March<br>2019 | Amount appeared in Annual Accounts 19-20 | Amount<br>claimed<br>for True-<br>Up |
| ı      | POWER GENERATION (MU)                          |   |  |                                      |
|        | Gross Generation                               | 1510.29   | 1517.60                                  | 1517.60                              |
|        | Net Generation                                 | 1458.88   | 1448.57                                  | 1448.57                              |
|        | Auxiliary Consumption Loss %                   | 3.40%   | 4.55%                                    | 4.55%                                |
|        |  |   |  |                                      |
| ı      | Fixed Charges                                  |   |  |                                      |
|        | Operation & Maintenance Expenditure            | 105.93  | 131.53                                   | 124.54                               |
|        | Employee Expenses                              |   | 97.30                                    | 90.31                                |
|        | R&M Expenses                                   |   | 24.19                                    | 24.19                                |
|        | A&G Expenses                                   |   | 10.05                                    | 10.05                                |
|        | Interest & Finance Charges                     | 25.63   | 62.93                                    | 24.46                                |
|        | Interest on working Capital                    | 15.95   | 0.00                                     | 15.15                                |
|        | Depreciation                                   | 35.47   | 51.58                                    | 36.34                                |
|        | Return on Equity                               | 31.40   | 0.00                                     | 43.72                                |
|        | Income taxes                                   | 0.00  | 1.16                                     | 1.16                                 |
|        | Impact of ROP                                  | 0.00  | 6.99                                     | 6.99                                 |
|        | Special R&M                                    | 29.00   | 0.00                                     | 0.00                                 |
|        | Capacity Building                              | 0.30  | 0.34                                     | 0.34                                 |
|        | Less: Other Income                             | 22.10   | 57.49                                    | 57.49                                |
| II     | Total Fixed Charges                            | 221.58  | 197.04                                   | 195.21                               |
| III    | Fuel Cost                                      | 257.30  | 284.23                                   | 284.23                               |
| IV     | Total Revenue Requirement                      | 478.88  | 481.27                                   | 479.44                               |
| V      | Incentive for generation for FY 2019-20        | 0.00  | 0.00                                     | 0.01                                 |
| VI     | Add: Incentive for Secondary Energy generation | 0.00  | 0.00                                     | 0.72                                 |
| VII    | Total Cost                                     | 478.88  | 481.27                                   | 480.18                               |
| VIII   | Revenue from Sale of Power                     | 479.05  | 495.44                                   | 495.44                               |
| Х      | Revenue Gap (+) / Surplus(-)                   | -0.17   | -14.17                                   | -15.26                               |

6.2.2. The Petitioner prays to the Hon'ble Commission to approve the plant wise Net Annual Revenue Requirement for FY 2019-20 as discussed in the tables above.



#### 6.3. Revenue from sale of power

6.3.1. The plant wise Revenue from Sale of Power for FY 2019-20 are as shown in the tables below.

Table 54: Plant wise Revenue from Sale of Power for FY 2019-20

Rs. Cr

| Particulars | Fixed/Capaci<br>ty charges | Variable<br>charges | Total Revenue appeared in Accounts FY 2019-20 | Approved as per order of March 2019 | Total Revenue claimed in True up for FY 2019-20 |
|-------------|----------------------------|---------------------|---|-------------------------------------|---|
| NTPS        | 22.31                      | 67.70               | 90.01   | 68.80                               | 90.01   |
| LTPS        | 71.56                      | 102.96              | 174.52  | 187.36                              | 174.52  |
| LRPP        | 33.06                      | 101.36              | 134.42  | 128.16                              | 134.42  |
| KLHEP       | 47.51                      | 48.98               | 96.49   | 94.73                               | 96.49   |
| MSHEP       | 0.00                       | 6.24                | 6.24  | 0.00                                | 0.00  |
| Total       | 174.44                     | 327.24              | 501.67  | 479.05                              | 495.44  |

- 6.3.2. The above claimed revenue does not include Rs. 2.31 Crore submitted as a Debit Note to AGCL for exceeding maintenance schedule as per agreement. As the matter is under review with AGCL, APGCL hasn't claimed Rs 2.31 Crore for determination of cumulative revenue gap towards True Up for FY2019-20.
- 6.3.3. The Petitioner prays to the Hon'ble Commission to approve the plant wise Sale of Power for FY 2019-20 as discussed in the table above.

#### 6.4. Adjustment of Revenue Gap / Surplus

6.4.1. The plant wise Revenue Gap / Surplus and also for APGCL has a whole are shown in the table below.

Table 55: Revenue Gap / Surplus amount for APGCL for FY 2019-20

|                              | NTPS   | LTPS   | KLHEP       | LRPP    | APGCL as a whole |
|------------------------------|--------|--------|-------------|---------|------------------|
| <b>Particulars</b>           |        | Amount | claimed for | True-Up |                  |
| Total Cost                   | 118.96 | 163.36 | 69.08       | 128.78  | 480.18           |
| Revenue from Sale of Power   | 90.01  | 174.52 | 96.49       | 134.42  | 495.44           |
| Revenue Gap (+) / Surplus(-) | 28.95  | -11.16 | -27.41      | -5.64   | -15.26           |



- 6.4.2. As the Hon'ble Commission has not provided for Carrying Cost on Revenue Gap or Surplus in the MYT Regulations, 2018, APGCL has not claimed any carrying cost for the above.
- 6.4.3. 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 56: Total True-up Claim for APGCL for FY 2019-20

| True-up Claim           | FY 2019-20 |
|-------------------------|------------|
| Revenue Gap for 2019-20 | -15.26     |
| Total True-up Claim     | -15.26     |

- 6.4.4. We submit that the CAG Comments on Accounts for FY2019-20 has been attached in Annexure 2.
- 6.4.5. The Petitioner prays to the Hon'ble Commission to approve the Total True-up Claim including carrying cost for FY 2019-20 as discussed in the table above

# TO FY 2021-22 for NTPS, LTPS and KLHEP To ASSAM ELECTRICITY REGULATORY COMMISSION



Prepared by

ASSAM POWER GENERATION CORPORATION LTD

Bijulee Bhawan, Paltanbazar

Guwahati – 781 001

# 7. Revised Capital Investment Plan for FY 2020-21 to FY 2021-22 for NTPS, LTPS and KLHEP

#### 7.1. Regulatory provisions

7.1.1. The Hon'ble Commission in its Tariff regulations 2018 has stated the following on Capital Investment Plan for generating companies for the control period from FY 2019-20 to FY 2021-22. 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, 2015.

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."

| 6. | 2  | <br> |  |
|----|----|------|--|
| 6. | 3  | <br> |  |
|    | 4  |      |  |
|    | 5  |      |  |
|    | 6  |      |  |
|    | 7  |      |  |
|    | 8  |      |  |
|    | 9  |      |  |
|    | 10 |      |  |
|    | 11 |      |  |

6.12 In the normal course, the Commission shall not revisit the approved capital investment plan during the control period. However, during the annual performance review and true-up, the Commission shall monitor the year wise progress of the actual capital expenditure incurred by the generating company or the licensee vis-à-vis the approved capital expenditure and in case of significant difference between the actual expenditure viz-a-viz the approved expenditure, the Commission may true up the capital expenditure, subject to prudence check, as a part of annual true up exercise or without an application to this effect by the generation company/licensee. The generating company and the licensee shall submit the scheme-wise actual capital expenditure incurred along with the annual performance review and true-up filing.

6.13 In case during execution of the project, the Capital Expenditure is estimated to cross 110% of the approved limit, the Licensee or company will need to take prior approval of the Commission before moving ahead with that expenditure.

6.14 In case during the annual performance review, large variations are observed in the actual cumulative capital expenditure incurred up to the current year starting from first year of the control period as against the approved capital expenditure, the Commission may revisit the costs incidental to the actual capital expenditure in the current year and remaining years of the control period.

Provided that the actual capital expenditure incurred shall be only for the schemes as per the approved capital investment plan.

Provided that if the actual capital expenditure incurred is more than the approved capital expenditure (whether at the time of MYT Order or separate approval before investment), the Commission may take appropriate decision at the time true-up of the cost incidental to such variations.

7.1.2. In accordance with the regulatory requirements, APGCL is submitting a revised Capital Expenditure Plan for APGCL for the Control Period FY 2020-21 to FY 2021-22 for approval from the Hon'ble Commission.

## 8. Capital Expenditure – Existing Projects

#### 8.1. Capital Expenditure Plan of Existing Projects

8.1.1. 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 Namrup Thermal Power Project

8.2.1. The following capital expensiture Plan is proposed for Namrup Thermal Power Station for the Period FY 2020-21 to 2021-22:

Table 57: R&M plan proposed for Namrup TPS for FY 2020-21 to FY 2021-22

| SI.<br>No. | Approved Schemes  | As per<br>Order<br>of<br>March<br>2020 | As per<br>Order of<br>March<br>2019 | Revis           | sed Capital Ex     | penditure Plan                   |
|------------|---|--|-------------------------------------|-----------------|--------------------|----------------------------------|
|            |   | in Rs.<br>Lacs                         | in Rs.<br>Lacs                      | in R            | s. Lacs            | Remarks                          |
|            |   | FY20-21                                | FY21-22                             | Revised FY20-21 | Revised<br>FY21-22 |                                  |
| Α          | Electro-mechanical works of NTPS  |  |                                     |                 |                    |                                  |
| 1          | Re-wiring of the quarters.  |  | 9.0                                 |                 | 9.0                |                                  |
| 2          | High mast (30 m height, 400 W)  |  | 24.0                                |                 | 24.0               |                                  |
| 3          | LED Street light  |  | 3.8                                 |                 | 3.8                |                                  |
| 4          | C.W. Pump for colony water supply. (60 HP)  |  | 8.0                                 |                 | 8.0                |                                  |
| 5          | Procurement of one CW Pump- motor set of Unit-6   |  | 63.0                                |                 | 63.0               |                                  |
| 6          | Procurement of one Air dryer for Unit-6   |  | 15.0                                |                 | 15.0               |                                  |
| 7          | 407 Mini truck for electrical maintenance of colony & Dillighat.  |  | 10.0                                |                 | 10.0               |                                  |
| В.         | CIVIL Works in NTPS   |  |                                     |                 |                    |                                  |
| 1          | Repairing of connecting road between Dihing and Disang Path, NTPS   | 10.0                                   |                                     | 4.8             |                    | Revised Estimate                 |
| 2          | Repairing of Dikhou Path at NTPS.   | 9.8                                    |                                     | 9.2             |                    | Revised Estimate                 |
| 3          | Repairing of residential quarter of Type-III, Type-C, Type-IV at NTPS (Phase-II), TypeIII 5 nos., Type-C 3 nos., Type-IV 4 nos.       |  | 18.0                                |                 | 18.0               |                                  |
| 4          | Construction of road from Qtr No. Type-IV 130 to 137 at NTPS.   |  | 7.6                                 |                 | 7.6                |                                  |
| 5          | Repairing of quarter Type C (4 Nos.) and Type IV (21 Nos.) at NTPS  |  |                                     | 48.3            |                    | The proposed capex is for safety |
| 6          | Repairing of Dihing Path at NTPS  |  |                                     | 9.2             |                    | purpose as well as for smooth &  |
| 7          | Repairing of road (right side) from gate no. 01 at Main power house, NTPS   |  |                                     | 2.2             |                    | efficient<br>operations          |
| 8          | Repairing of civil colony road along Qtr.<br>No. Type IV-31 to Type IV-37, IV-41 to IV-<br>43, IV-22 to IV-19, IV-14 to IV-18 at NTPS |  |                                     | 10.0            |                    | ·                                |

| SI.<br>No. | Approved Schemes   | As per<br>Order<br>of<br>March<br>2020<br>in Rs.<br>Lacs<br>FY20-21 | As per<br>Order of<br>March<br>2019<br>in Rs.<br>Lacs<br>FY21-22 |      | sed Capital Ex<br>s. Lacs<br>Revised<br>FY21-22 | spenditure Plan<br>Remarks |
|------------|--|---|--|------|---|----------------------------|
| 9          | Repairing of waste heat colony road along Qtr. No. Type IV-129 towards IV-137, Type IV-127 to IV-128 at NTPS |   |  | 4.7  |   |                            |
| 10         | Repairing of connecting road between<br>Bhogdoi and Digaru Path at NTPS                                      |   |  | 5.9  |   |                            |
|            |  | 19.7  | 158.4  | 94.3 | 158.4   |                            |

#### 8.3. Revised Capital Expenditure Plan of Lakwa Thermal Power Project

8.3.1. The following Revised Capital Expenditure Plan is proposed for Lakwa Thermal Power Station for the Period FY 2020-21 to FY2021-22:

Table 58: R&M plan proposed for Lakwa TPS for FY 2019-20 to FY 2021-22

| SI.<br>No. | Approved Schemes  | As per Order<br>of March<br>2020 | As per<br>Order<br>of<br>March<br>2019 |                 |                 | expenditure Plan   |  |
|------------|---|----------------------------------|--|-----------------|-----------------|--|--|
|            |   | in Rs. Lacs                      | in Rs.<br>Lacs                         | in Rs           | . Lacs          | Remarks  |  |
|            |   | FY20-21                          | FY21-22                                | Revised FY20-21 | Revised FY21-22 |  |  |
| Α          | Electro-mechanical works of   |                                  |  |                 |                 |  |  |
|            | LTPS  |                                  |  |                 |                 |  |  |
| 1          | Procurement of field instruments of Gas Turbine units of LTPS                                       | 60.00                            | 60.00                                  |                 | 60.00           |  |  |
| 2          | Procurement of field instruments of<br>Gas Turbine units of LTPS of Gas<br>Compressor units of LTPS | 50.00                            | 50.00                                  |                 | 50.00           |  |  |
| 3          | Procurement of Inlet Air Filter for GT's  | 24.20                            | 26.62                                  |                 | 26.62           |  |  |
| 4          | Gas chromatography with mitering at LTPS  | 200.00                           |  | 323.60          |                 | Combined works<br>for Placement of<br>Gas<br>Chromatography<br>and Overhauling<br>of Gas<br>Compressor GC #7 |  |
| 5          | AVR for GT#6  | 60.00                            |  | 90.00           |                 | Replacement of<br>AVR for GT # 6<br>and Vacuum<br>Circuit Breaker,<br>LA, CT and PT for<br>WHRP.             |  |
| 6          | Overhauling of Gas Compressor #6 & #7   | 300.00                           |  |                 | 300.00          | Only for GC #6   |  |
| 7          | Overhauling of Diesel Engine of GT #5,<br>#6 & #7   | 62.00                            |  | 51.00           |                 | Revised Estimate   |  |
| 8          | Field packs of Cooling Tower of WHRP  | 100.00                           |  | 120.00          |                 | Revised Estimate   |  |
| В.         | CIVIL Works in LTPS   |                                  |  |                 |                 |  |  |
| 1          | Renovation of boundary wall of LTPS colony (Residential)  | 20.00                            | 10.00                                  |                 | 10.00           |  |  |
| 2          | Renovation of boundary wall of LTPS plant area.   | 20.00                            | 20.00                                  |                 | 20.00           |  |  |
| 3          | Repairing of residential quarter inside LTPS colony   | 20.00                            | 20.00                                  |                 | 20.00           |  |  |

| SI.<br>No. | Approved Schemes   | As per Order<br>of March<br>2020 | As per<br>Order<br>of           | Revis              | ed Capital E       | xpenditure Plan                                     |
|------------|--|----------------------------------|---------------------------------|--------------------|--------------------|---|
|            |  | in Rs. Lacs                      | March<br>2019<br>in Rs.<br>Lacs | in Rs              | . Lacs             | Remarks   |
|            |  | FY20-21                          | FY21-22                         | Revised<br>FY20-21 | Revised<br>FY21-22 |   |
| 4          | Construction of one no. of Type III/IV residential milt storied building at LTPS residential area.   | 170.00                           | 180.00                          |                    | 180.00             |   |
| 5          | Procurement of Gym equipment.  | 5.00                             | 5.00                            |                    | 5.00               |   |
| 6          | Demolishing and reconstruction of main boundary wall along Dhodar Ali road at LTPS, Maibella   |                                  |                                 | 6.62               |                    | The proposed capex is for safety purpose as well as |
| 7          | Demolishing and reconstruction of power plant boundary wall at LTPS, Maibella  |                                  |                                 | 8.67               |                    | for smooth &<br>efficient<br>operations             |
| 8          | Construction of LTPS main entrance gate  |                                  |                                 | 8.29               |                    |   |
| 9          | Construction of cover slab for master drain at LTPS, Maibella  |                                  |                                 | 8.30               |                    |   |
| 10         | Renovation of children's park and construction of brick drain along with cover slab near children's park at LTPS, Maibella                         |                                  |                                 | 17.99              |                    |   |
| 11         | Roof treatment at switchyard control building, Roof treatment at CNI phase 2 building and Roof treatment at Type-IV RCC building at LTPS, Maibella |                                  |                                 | 4.29               |                    |   |
| 12         | Construction of paver block road near of SBI Bank of LTPS, Maibella  |                                  |                                 | 5.57               |                    |   |
| 13         | Repairing of Quarter No. Type III (2<br>Nos.), IV (5 Nos.) / V (9 Nos.) / VI (8<br>Nos.), Old Colony at LTPS                                       |                                  |                                 | 24.43              |                    |   |
| 14         | Repairing of Quarter No. Type IV (4<br>Nos.) / VI (2 Nos.), New Colony at LTPS   |                                  |                                 | 4.87               |                    |   |
| 15         | Repairing of link cable office building at LTPS, Maibella  |                                  |                                 | 2.66               |                    |   |
| 16         | Construction of paver block road from<br>T-III RCC to auditorium at LTPS,<br>Maibella  |                                  |                                 | 4.82               |                    |   |
| 17         | Construction of player's dressing room at LTPS, Maibella   |                                  |                                 | 4.10               |                    |   |
|            |  | 1091.20                          | 371.62                          | 685.21             | 671.62             |   |



#### 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 2020-21 to 2021-22

Table 59: R&M plan proposed for KLHEP for FY 2020-21 to FY 2021-22

| SI.<br>No. | Approved Schemes  | As per<br>Order of<br>March 2020 | As per<br>Order of<br>March 2019 | Revised            | d Capital Exp      | oenditure Plan   |
|------------|---|----------------------------------|----------------------------------|--------------------|--------------------|--|
|            |   | in Rs. Lacs                      | in Rs. Lacs                      | in Rs.             | Lacs               | Remarks  |
|            |   |                                  |                                  |                    |                    |  |
|            |   | FY20-21                          | FY21-22                          | Revised<br>FY20-21 | Revised<br>FY21-22 |  |
| Α          | Electro-mechanical works of KLHEP   |                                  |                                  |                    |                    |  |
| 2          | Replacement of LT Panels of KLHEP   | 170.30                           |                                  | 170.40             |                    |  |
| 3          | Procurement of 220 KV switchgear materials for replacement of existing old system. (CT, transformer, isolators etc.)          | 902.13                           |                                  | 902.13             |                    |  |
| 5          | Procurement of new crane with loading capacity of 20 Ton Capacity for the O&M works of KLHEP and MSHEP                        | 148.64                           |                                  | 148.64             |                    |  |
| 6          | Procurement of new 3-phase, 750 KVA, 100/0.43KV transformer required for the running 50 MW unit auxiliairies of 2x50 MW KLHEP | 16.00                            |                                  | 16.00              |                    |  |
| 7          | Procurement of spare for Crane<br>Loading Capacity 15 Tones   |                                  | 30.00                            |                    | 30.00              |  |
| 8          | Procurement of UAT (Spare)  |                                  | 20.00                            |                    | 20.00              |  |
| 9          | Upgradation of Transformer capacity and substation at KLHEP Lengery colony  |                                  | 70.00                            |                    | 70.00              |  |
| 11         | Capital Overhauling of 1.50MW<br>Francis type Gugler make Generator<br>Turbine. (Unit I, II & III)                            |                                  |                                  | 255.00             |                    | Required for smooth & efficient operations for the plant. Work is already underway and rotor has been sent to Kolkata for refurbishment. |
| В.         | CIVIL Works in KLHEP  |                                  |                                  |                    |                    |  |
| 6          | Construction of Engineers Hostel<br>(Assam Type) near Power House for<br>O&M personnel, KLHEP                                 |                                  | 40.00                            |                    | 40.00              |  |

| SI.<br>No. | Approved Schemes   | As per<br>Order of<br>March 2020<br>in Rs. Lacs |         | Revised Capital Exp |                    | penditure Plan<br>Remarks  |
|------------|--|---|---------|---------------------|--------------------|--|
|            |  | FY20-21   | FY21-22 | Revised<br>FY20-21  | Revised<br>FY21-22 |  |
| 7          | Renovation of Bachelor's Hostel at<br>KLHEP  |   | 10.00   |                     | 10.00              |  |
| 8          | Painting of radial gates, Stop-log<br>gate, Intake gate, Gantry crane and<br>Catwalk at Hatidubi dam of 2x50 MW<br>KLHEP, APGCL                |   |         | 55.77               |                    | The proposed<br>capex is for<br>safety purpose<br>as well as for |
| 9          | Renovation & repairing and painting<br>of GM office complex,KLHEP,<br>Medical, Auditorium and MSHEP<br>Complex, Lengery, West Karbi<br>Anglong |   |         | 43.90               |                    | smooth &<br>efficient<br>operations                              |
|            |  | 1237.07   | 170.00  | 1591.85             | 170.00             |  |

# 9. Asset valuation and ERP implementation

#### 9.1. Asset valuation

- 9.1.1. The Hon'ble Commission had approved the Asset Valuation Expenses for APGCL in its order dated 7<sup>th</sup> March 2020.
- 9.1.2. The work for Asset Valuation is under way and is expected to be paid out in entirety in FY2020-21 in line with the contract signed with the valuation agency.
- 9.1.3. The approved and projected cost has been shown below in the table:

Table 60: Financial impact of Asset valuation

Rs. Cr

|                 | Approved by Commission (in Crores) in the Order of March 2020 |           |                        |        |      |       |              | Revised Estimated |       |  |
|-----------------|---|-----------|------------------------|--------|------|-------|--------------|-------------------|-------|--|
|                 |   | FY 2019-2 | 2019-2020 FY 2020-2021 |        |      | F'    | FY 2020-2021 |                   |       |  |
| Asset valuation | Equity  | Loan      | Grant                  | Equity | Loan | Grant | Equity       | Loan              | Grant |  |
|                 |   | 0.13      | 1.16                   |        | 0.30 | 2.70  |              | 0.10              | 0.86  |  |



#### 9.2. ERP implementation and consultancy

- 9.2.1. The Commission had approved the ERP Implementation and Consultancy costs for FY2019-20 to FY2020-21 in its order dated 7<sup>th</sup> March 2020
- 9.2.2. As part of the ongoing ERP implementation, the works have been divided into 4 lots.
- 9.2.3. At present, Lot 1 implementation is carried out by M/s Accenture Solutions Pvt. Ltd. The contract was signed on 31st July 2019 for Lot 1 at contract price at INR 27.50 Crore and actual implementation work at APGCL site began on 14.10.2019.
- 9.2.4. The actual cost of the remaining lots will be known only after signing of the contracts for the same and they will be claimed during True Up for the respective years.
- 9.2.5. We had earlier considered the ERP consultancy to be completed within FY2018-19. However the ERP Consultancy contract is currently under review as the implementation is ongoing. The cost for ERP consultancy work would be shared in True Up of FY2020-21.
- 9.2.6. The revised total financial impact is shown in the table below:

Table 61: Financial impact of Asset valuation and ERP implementation

Rs. Cr

|                                    | Approved by the Commission in the order of March 2020 |      |       | Revised Estimate |      |       |            |      |       |
|------------------------------------|---|------|-------|------------------|------|-------|------------|------|-------|
| ERP implementation and consultancy | FY 2020-2021  |      |       | FY 2020-2021     |      |       | FY 2021-22 |      |       |
|                                    | Equity  | Loan | Grant | Equity           | Loan | Grant | Equity     | Loan | Grant |
|                                    |   | 0.34 | 3.71  |                  | 1.48 | 13.29 |            | 1.10 | 9.88  |

9.2.7. The financial impact of ERP implementation and Asset valuation are shown in the table below.

Table 62: Financial impact of ERP implementation and Asset Valuation plant wise



| Asset valuation,      |        | FY 2020-21 |       |        | FY 2021-22 |       |
|-----------------------|--------|------------|-------|--------|------------|-------|
| ERP<br>Implementation | Equity | Loan       | Grant | Equity | Loan       | Grant |
| NTPS                  | -      | 1.47       | 4.75  | -      | 1.90       | 2.80  |
| LTPS                  | -      | 7.37       | 4.64  | -      | 7.10       | 3.49  |
| KLHEP                 | -      | 16.45      | 4.77  | -      | 2.10       | 3.59  |
| Total                 | -      | 25.29      | 14.16 | -      | 11.10      | 9.88  |

1.1.1The financial impact of ERP implementation and Asset valuation services are capitalized station wise in the FY2020-21 and FY2021-22 as shown above.

# 10. SUMMARY OF THE REVISED CAPITAL EXPENDITURE PLAN

## 10.1. Proposed Capex

10.1.1. As per the proposals given in the above sections for existing projects, total proposed year wise revised capital expenditure during the period from 2020-21 to 2021-22 of APGCL is as given below:

Table 63: Summary of capital expenditure plan for FY 2020-21 to FY2021-22 Rs. Cr

|  | FY2020-21 (in Crores) |       |       | FY2021-22 (in Crores) |       |       |
|--|-----------------------|-------|-------|-----------------------|-------|-------|
| Existing Projects  | Equity                | Loan  | Grant | Equity                | Loan  | Grant |
|  |                       |       |       |                       |       |       |
| NTPS   | 0.00                  | 0.94  | 0.00  | 0.00                  | 1.58  | 0.00  |
| LTPS   | 0.00                  | 6.85  | 0.00  | 0.00                  | 6.72  | 0.00  |
| KLHEP  | 0.00                  | 15.92 | 0.00  | 0.00                  | 1.70  | 0.00  |
|  |                       |       |       |                       |       |       |
| Other Projects   |                       |       |       |                       |       |       |
| Asset Valuation  |                       | 0.10  | 0.86  |                       |       |       |
| ERP Implementation and Infrastructure Development of APGCL |                       | 1.48  | 13.29 |                       | 1.10  | 9.88  |
| Total  | 0.00                  | 25.29 | 14.16 | 0.00                  | 11.10 | 9.88  |

# APPEAL FOR ANNUAL PERFORMANCE REVIEW FOR FY 2020-21

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 2020-21

AND

IN THE MATTER OF

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

Petitioner

l, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November'2020 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: 27<sup>th</sup> November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



#### PRAYER - ANNUAL PERFORMANCE REVIEW

# BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FILINGNO |  |
|----------|--|
| CASENO   |  |

### IN THE MATTER OF:

Petition for Annual Performance Review of the FY 2020-21

#### 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.
- That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- That the APGCL is a generating company under the provisions laid down in Section 14 Provision 5, read with Section 131 (2) of the Electricity Act 2003.
- That the APGCL submitted petitions for APR for the FY 2019-20 to the AERC on 30/11/2019.
- That the AERC, after completion of the due process, issued Tariff Order for the FY 2020-21 on 07/03/2020 with effectuation date from 01/04/2020.
- That APGCL is now submitting the Petition for APR for the FY 2020-21.

Place: Guwahati

Date: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



# 11. Present status of NTPS, LTPS, KLHEP and LRPP

Table 64: Present Status of NTPS Units

| Unit No.                         | Installed<br>Capacity<br>(MW) | Maximum Operating Capacity (MW) | Present Status   |
|----------------------------------|-------------------------------|---------------------------------|--|
| 2 (GT)                           | 21                            | 16                              | The maximum operating capacity of the units has been affected by vibration problems and generation has come down to 16 MW and 18 MW respectively.  |
| 3 (GT)                           | 21                            | 18                              | Further, there is cooling problem in the generator transformer of Unit-3, which is affecting its maximum operating capacity.  Other than the technical problems, the units are facing erratic gas supply problem as well.                |
| 4 (GT)                           | 11                            | Decommissioned                  | Unit 4 and Unit 5 have been decommissioned w.e.f. 20th August 2020   |
| 5 (ST)                           | 24                            |                                 |  |
| 6<br>(WHRU<br>with GTs 2<br>& 3) | 22.5                          | 10                              | The unit can be run at average operating load of 10 MW depending on the load on the mother units. This unit cannot be run at full load due to technical problems.  Unit # 6 is under shutdown from 10-11-2020 for Generator Earth Fault. |

Table 65: Present Status of LTPS Units

| Unit No. |  | Installed<br>Capacity<br>(MW) | Maximum Operating Capacity (MW) | Present Status   |
|----------|--|-------------------------------|---------------------------------|--|
| Ph-II    | 5 (GT)                                 | 20                            | 20                              | The Unit is in operating condition and generates power depending on the availability of gas.   |
|          | 6 (GT)                                 | 20                            | 20                              | Unit #6 was in operating condition till 12th of Nov. Under S/D by MMD-II for HGPI work by BGGTS Pvt. Ltd. For 20 (twenty) days.                |
|          | 7 (GT)                                 | 20                            | 20                              | The Unit is in operating condition and generates power depending on the availability of gas.   |
| Ph-III   | 8<br>(WHRU<br>with<br>GTs 5,<br>6 & 7) | 37.2                          | 20                              | Unit #8 is in operating condition and generates power depending upon the generation of the mother units. All the three HRSGs are in operation. |

Table 66: Present Status of KLHEP Units

| Unit<br>No. | Installed<br>Capacity<br>(MW) | Present Status  |
|-------------|-------------------------------|---|
| 1           | 50                            | Unit#1 is under Major Overhauling. Dismantling and re-erection has been completed, only testing and commissioning has to be carried out as soon as the tunnel is impounded with water. Initially the overhauling was delayed due to Covid Pandemic situation. |
| 2           | 50                            | Unit#2 is in standstill due to landslide.   |

Table 67: Present Status of LRPP Unit

| Unit No. | Installed<br>Capacity<br>(MW) | Remarks  |
|----------|-------------------------------|--|
| 1        | 9.965                         |  |
| 2        | 9.965                         |  |
| 3        | 9.965                         | All the units except #6, are running as per availability of gas.                                     |
| 4        | 9.965                         | 16K Maintenance of Six units completed. The 16K Maintenance of Unit#6 has been started on 6/11/2020. |
| 5        | 9.965                         |  |
| 6        | 9.965                         |  |
| 7        | 9.965                         |  |

## 12. Annual Performance Review of FY 2020-21

#### 12.1. Regulatory provisions

12.1.1. 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, 2018. 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 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.

Provided that the Petition for Truing Up shall be accompanied by Audited Annual Accounts, duly certified by the Statutory Auditor and CAG.

Provided that the information sought by the Commission shall be submitted in the formats as prescribed by the Commission.

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).....

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 10of this regulation.

# 13. Norms of operations

#### 13.1. Regulatory provisions

- 13.1.1. The Hon'ble Commission had set norms of operations under Regulation 46 of Tariff Regulations 2018.
- 13.1.2. The 6 months actual and 6 months estimated performance vis-a-vis norms of operations set is discussed below:

## 13.2. Installed and Effective Capacity in FY2020-21

13.2.1. APGCL submits the following Installed & Effective Capacity for FY2020-21

Table 68: Installed & Effective Capacity for FY2020-21

| Statio<br>n | Installe<br>d<br>Capacit<br>y<br>(MW) | No.<br>of<br>Unit<br>s | Units<br>Decommissio<br>ned                          | Units Available for Generation & Capacity in MW | Effective Capacity   |
|-------------|---------------------------------------|------------------------|--|---|--|
| NTPS        | 119.5                                 | 6                      | 1<br>4,5 (w.e.f.<br>20 <sup>th</sup> August<br>2020) | 2, 3(21MW), 6<br>(22.50 MW-<br>WHRU)            | 99.5 MW (1st<br>April 2020 – 20th<br>August 2020)<br>64.5 MW (21st<br>August 2020 –<br>31st March 2021)<br>Total Weighted<br>Average Effective<br>Installed Capacity<br>= 78.12 MW |
| LTPS        | 142.2                                 | 8                      | 1,2,3,4  | 5,6,7(20 MW<br>Each),8 (37.20<br>MW-WHRU)       | 97.2 MW  |
| KLHEP       | 100                                   | 2                      | 0  | 1 (50), 2(50)                                   | 100 MW   |
| LRPP        | 69.755                                | 7                      | 0  | 1-7 (9.965 each)                                | 69.755 MW  |

## 13.3. Snapshot of plant wise performance for FY 2020-21

- 13.3.1. The Commissioning of NRPP has been delayed and is now expected to be commissioned by 1<sup>st</sup> April 2021.
- 13.3.2. The following table shows the operating performance parameters of Namrup thermal power station for FY 2020-21



Table 69: Operating Performance for FY 2020-21 of NTPS

| NTPS                                       | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct - March<br>(estimated) | Estimated<br>total |
|--|-------------------------------------|-------------------------|----------------------------|--------------------|
| Gross Energy in MU                         | 173.73                              | 88.92                   | 84.81                      | 173.73             |
| Aux. Power Cons. (%)                       | 4.50%                               | 6.53%                   | 4.50%                      | 5.54%              |
| Net Energy in MU                           | 165.91                              | 83.11                   | 80.99                      | 164.10             |
| Availability (%)                           | 50.00%                              | 26.29%                  | 50.00%                     | 38.14%             |
| PLF (%) for incentive                      | 50.00%                              | 21.62%                  | 50.00%                     | 35.81%             |
| Gross Station Heat Rate on GCV (kcal/ kWh) | 3900                                | 5317                    | 3900                       | 4608               |
| Wt. Avg. Price of Gas<br>(Rs./1000 SCM)    | 6257.52                             | 4757.43                 | 3535.02                    | 4146.22            |

13.3.3. The following table shows the operating performance parameters of Lakwa thermal power station for FY 2020-21.

Table 70: Operating Performance for FY 2020-21 of LTPS

| LTPS + WHRU                                | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated<br>) | Estimated<br>total |
|--|-------------------------------------|-------------------------|-----------------------------------|--------------------|
| Gross Energy in MU                         | 425.74                              | 183.63                  | 212.28                            | 395.92             |
| Aux. Power Cons. (%)                       | 5.50%                               | 9.22%                   | 5.50%                             | 7.23%              |
| Net Energy in MU                           | 402.32                              | 166.70                  | 200.61                            | 367.31             |
| Availability (%)                           | 50.00%                              | 46.62%                  | 50.00%                            | 48.31%             |
| PLF (%) for incentive                      | 66.00%                              | 41.32%                  | 50.00%                            | 45.66%             |
| Gross Station Heat Rate on GCV (kcal/ kWh) | 3200                                | 2762                    | 3200                              | 2981               |
| Wt. Avg. Price of Gas (Rs./1000 SCM)       | 8553.56                             | 6645.79                 | 4921.91                           | 5783.85            |

13.3.4. The following table shows the operating performance parameters of Karbi Langpi hydro electric power station for FY 2020-21.

Table 71: Operating Performance for FY 2020-21 of KLHEP

| KLHEP              | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|--------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Gross Energy in MU | 390.00                              | 147.28                  | 193.83                        | 341.11          |



| KLHEP                 | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|-----------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Aux. Power Cons. (%)  | 0.50%                               | 0.19%                   | 0.50%                         | 0.37%           |
| Net Energy in MU      | 388.05                              | 147.00                  | 192.86                        | 339.85          |
| Availability (%)      | 85.00%                              | 40.91%                  | 62.85%                        | 51.88%          |
| PLF (%) for incentive | 44.50%                              | 33.64%                  | 38.99%                        | 36.31%          |

13.3.5. The following table shows the operating performance parameters of LRPP power station for FY2020-21.

Table 72: Operating Performance for FY 2020-21 of LRPP

| LRPP                                       | Approved<br>as per<br>Order of<br>March 2020 | April - Sep<br>(actual) | Oct - March<br>(estimated) | Estimated<br>total |
|--|--|-------------------------|----------------------------|--------------------|
| Gross Energy in MU                         | 519.40                                       | 228.06                  | 291.34                     | 519.40             |
| Aux. Power Cons. (%)                       | 3.50%  | 2.18%                   | 3.50%                      | 2.92%              |
| Net Energy in MU                           | 501.22                                       | 223.08                  | 281.15                     | 504.22             |
| Availability (%)                           | 85.00%                                       | 83.28%                  | 85.00%                     | 84.14%             |
| PLF (%)                                    | 90.00%                                       | 75.46%                  | 90.00%                     | 82.73%             |
| Gross Station Heat Rate on GCV (kcal/ kWh) | 2150   | 2156                    | 2150                       | 2153               |
| Wt. Avg. Price of Gas (Rs./1000 SCM)       | 8853.56                                      | 6642.19                 | 4921.91                    | 5784               |

### **13.4.** Normative Annual Plant Availability Factor (NAPAF)

- 13.4.1. As per Regulation 47.1 of the MYT Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2019-20 for NTPS. However due to the problem of low gas supply and frequent forced shutdown of the aged units/auxiliaries, normative Plant Availability factor may not be achieved. Further APGCL has decommissioned Unit 4 and Unit 5 on account of higher cost of generation from these plants effective from 20<sup>th</sup> August 2020 as per CEA intimation. The letter by CEA is attached in Annexure 8
- 13.4.2. In view of the above, APGCL prays to the Hon'ble Commission to approve the revised estimated availability for FY 2020-21 as shown in the table below

Table 73: Availability for 2020-21 of NTPS

| NTPS                             | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Availability<br>Factor (%) | 50.00%                              | 26.29%                  | 50.00%                        | 38.14%          |



13.4.3. As per Regulation 47.1 of the MYT Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY 2020-21 for LTPS. It is expected that the normative numbers may not be achieved due to lower availability in the first 6 months of FY2020-21. The approved and estimated numbers are shown in the table below.

Table 74: Availability for 2020-21 of LTPS

| LTPS                             | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Availability<br>Factor (%) | 50.00%                              | 46.62%                  | 50.00%                        | 48.31%          |

13.4.4. Further, Regulation 49, of MYT Regulations, 2018 specifies normative PAF for KLHEP as 85% for FY 2020-21. Due to delay in planned maintenance of KLHEP Unit 1, the normative availability may not be achieved for the year. Due to the Covid 19 related restrictions, the planned maintenance of KLHEP Unit 1 was delayed and is expected to be completed by December 2020 with planned resumption of generation at full capacity from 15<sup>th</sup> January 2021. Further Unit 2 is also under shutdown due to landslide. The approved and estimated numbers are shown in the table below.

Table 75: Availability for 2020-21 of KLHEP

| KLHEP                            | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Availability<br>Factor (%) | 85.00%                              | 40.91%                  | 62.85%                        | 51.88%          |

13.4.5. The Hon'ble Commission had approved NAPAF of 85% for LRPP for FY 2020-21 in its order of March 2020. The approved and projected numbers are shown in the table below.

Table 76: Availability for 2020-21 of LRPP

| LRPP                             | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Availability<br>Factor (%) | 85.00%                              | 83.28%                  | 85.00%                        | 84.14%          |

APGCL prays to the Hon'ble Commission to approve the estimated NAPAF for the plants as shown above for recovery of fixed charges for FY2020-21.



#### 13.5. Normative Annual Plant Load Factor (NAPLF)

13.5.1. As per Regulation 47.1 of the Tariff Regulations, 2018 the Normative Plant Load factor for NTPS is 50% for FY 2020-21. The Hon'ble Commission had also approved the same for NTPS in its order March 2020. However, due to the lower gas supply, grid constraint and issues of aging and frequent forced shut downs the plant has not been able to achieve normative PLF. The actual and projected numbers are shown in the table below.

Table 77: Plant Load Factor for 2020-21 of NTPS

| NTPS                  | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|-----------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Load Factor (%) | 50.00%                              | 21.62%                  | 50.00%                        | 35.81%          |

13.5.2. As per Regulation 47.1 of the Tariff Regulations, 2018 the Normative Plant Load factor for LTPS is 66% for FY 2020-21 The Hon'ble Commission had also approved the same for LTPS in its order of March 2020. However, as there is shortage of gas, PLF is considered same as that as normative Availability for October-March. The actual and projected numbers are shown in the table below.

Table 78: Plant Load Factor for 2020-21 of LTPS

| LTPS                  | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|-----------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Load Factor (%) | 66.00%                              | 41.32%                  | 50.00%                        | 45.66%          |

13.5.3. As per Regulation 49.1 of the Tariff Regulations, 2018, normative PLF for KLHEP as 44.5%. The Hon'ble Commission had also approved the same for FY2020-21 in its order of March 2020. However due to the planned maintenance of KLHEP Unit 1 and shutdown of Unit 2 due to landslide, the normative plant load factor may not be achieved during the year due to uncontrollable factors. The approved and estimated numbers are shown in the table below.

Table 79: Plant Load Factor for 2020-21 of KLHEP

| KLHEP                 | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|-----------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Load Factor (%) | 44.50%                              | 33.64%                  | 38.99%                        | 36.31%          |

13.5.4. The Hon'ble Commission had approved 90% as PLF for incentive for LRPP for FY2020-21 in its order of March 2020. It had considered generation projection at PLF of 85% for FY2020-21. APGCL has projected the PLF at normative availability but will try to achieve the approved Plant Load Factor during the year. The actual and estimated numbers are shown in the table below.

Table 80: Plant Load Factor for 2020-21 of LRPP

| LRPP                  | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|-----------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Load Factor (%) | 90.00%                              | 75.46%                  | 90.00%                        | 82.73%          |

#### 13.6. Gross Station Heat Rate (SHR)

- 13.6.1. As per Regulation 47.4, of the Tariff Regulations, 2018 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2020-21 for NTPS in Partial combined cycle mode of operation.
- 13.6.2. We submit that the SHR of NTPS is estimated to be higher than the approved SHR in FY 2020-21 due to part loading of units, lower gas supply and evacuation constraints and old nature of the plant equipments and machinery. In view of the above, APGCL prays to the Hon'ble Commission to approve the estimated SHR as it is increased due to uncontrollable factors.
- 13.6.3. The approved and estimated numbers are shown in the table below.

Table 81: SHR for 2020-21 of NTPS

| NTPS                            | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|---------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Station Heat Rate<br>(kCal/kWh) | 3900                                | 5317                    | 3900                          | 4608            |

13.6.4. As per Regulation 47.4, of the Tariff Regulations, 2018 the Normative Station Heat Rate, is 3200 kCal/kWh for FY 2020-21 for LTPS in Partial 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 82: SHR for 2020-21 of LTPS

| LTPS                         | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Station Heat Rate (kCal/kWh) | 3200                                | 2762                    | 3200                          | 2981            |



13.6.5. The Hon'ble Commission had approved SHR of 2,150 kCal/kWh for LRPP for FY2020-21 in its order of March 2020. The approved and estimated numbers are shown below:

Table 83: SHR for 2020-21 of LRPP

| LRPP                         | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Station Heat Rate (kCal/kWh) | 2150                                | 2156                    | 2150                          | 2153            |

#### 13.7. Auxiliary Energy Consumption

- 13.7.1. As per Regulation 47.3 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption is 4.50% for FY 2020-21 for NTPS. We submit that the auxiliary consumption of NTPS is estimated to be higher than the approved auxiliary consumption in FY 2020-21 due to part loading of units. In view of the above, APGCL prays to the Hon'ble Commission to approve the estimated auxiliary consumption as it is expected to increase due to uncontrollable factors.
- 13.7.2. The approved and estimated numbers are shown in the table below.

Table 84: Auxiliary energy consumption for 2020-21 of NTPS

| NTPS                             | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Auxiliary energy consumption (%) | 4.50%                               | 6.53%                   | 4.50%                         | 5.54%           |

- 13.7.3. As per Regulation 47.3 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption, is 5.50% for FY 2020-21 for LTPS. The same has been approved by the Hon'ble Commission in its order of March 2020. The actual and projected numbers are shown in the table below.
- 13.7.4. We submit that the Auxiliary consumption of LTPS is expected to be higher than the approved values due to low gas pressure in supply of gas, the usage of gas compressors increases resulting in high auxiliary consumption of LTPS. As gas pressure in supply of gas is an uncontrollable factor for APGCL, we pray to the Hon'ble Commission to approve the estimated auxiliary consumption for FY 2020-21
- 13.7.5. The approved and estimated numbers are shown in the table below.

Table 85: Auxiliary energy consumption for 2020-21 of LTPS

| LTPS | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|------|-------------------------------------|-------------------------|-------------------------------|-----------------|
|------|-------------------------------------|-------------------------|-------------------------------|-----------------|



| Auxiliary energy | 5.50% | 9.22%  | 5.50% | 7.23%  |
|------------------|-------|--------|-------|--------|
| consumption (%)  | 3.30% | 9.22/0 | 3.30% | 7.23/0 |

13.7.6. As per Regulation 49.1 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption, is 0.50% for KLHEP. The same has been approved by the Hon'ble Commission in its order of March 2020. The approved and actual numbers are shown in the table below.

Table 86: Auxiliary energy consumption for 2020-21 of KLHEP

| KLHEP                            | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Auxiliary energy consumption (%) | 0.50%                               | 0.19%                   | 0.50%                         | 0.37%           |

13.7.7. The Hon'ble Commission had approved Auxiliary Consumption of 3.5% for LRPP for FY2020-21 in its order of March 2020. The approved and actual numbers are shown in the table below:

Table 87: Auxiliary energy consumption for 2020-21 of LRPP

| LRPP                             | Approved as per Order of March 2020 | April - Sep<br>(actual) | Oct -<br>March<br>(estimated) | Estimated total |
|----------------------------------|-------------------------------------|-------------------------|-------------------------------|-----------------|
| Plant Availability<br>Factor (%) | 3.50%                               | 2.18%                   | 3.50%                         | 2.92%           |

13.7.8. The performance parameter certificate showing plant wise availability, generation, auxiliary consumption etc. issued by SLDC is are attached as Annexure No. 6

#### 14. Fixed Cost of the Plant

#### 14.1. Annual fixed cost for FY 2020-21

- 14.1.1. The fixed cost of APGCL's power plants has been approved by AERC via order in Case No. 10 of 2019 dated 7<sup>th</sup> March 2020 for NTPS, LTPS, LRPP and KLHEP
- 14.1.2. As per regulation 42.1 of the AERC Tarff regulations, 2018 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
- 14.1.3. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2018. These components have been discussed in detail in the following sections of the petition.

# 14.2. Return on Equity (ROE)

- 14.2.1. The Hon'ble Commission in its regulation 33 of Tariff Regulations 2018 has considered the pre-tax return on equity at 15.5% of equity capital.
- 14.2.2. The Petitioner has determined the Return on Equity (RoE) at a rate of 15.5% in accordance with the AERC Regulations, 2018. The Petitioner submits that there has been no addition in Equity in FY 2020-21 for NTPS, LTPS, KLHEP and LRPP.
- 14.2.3. The plant wise Return on Equity approved and claimed for FY2020-21 has been shown in the table below:

Table 88: Computation of Plant wise Return in Equity for 2020-21

| Station | Particulars      | Approved as per order of March 2020 | APR Petition<br>for FY 2020-21<br>on effective<br>capacity |
|---------|------------------|-------------------------------------|--|
|         | Opening Equity   | 55.00                               | 55.00  |
| NTPS    | Closing Equity   | 55.00                               | 55.00  |
| MIPS    | Rate of Return   | 15.50%                              | 15.50%   |
|         | Return on Equity | 8.53                                | 8.53   |



| Station | Particulars                             | Approved as per order of March 2020 | APR Petition<br>for FY 2020-21<br>on effective<br>capacity |
|---------|---|-------------------------------------|--|
|         | Return on Equity for Effective Capacity | 3.1                                 | 5.57   |
|         | Opening Equity                          | 143.08                              | 143.08   |
|         | Closing Equity                          | 143.08                              | 143.08   |
| LTPS    | Rate of Return                          | 15.50%                              | 15.50%   |
|         | Return on Equity                        | 22.18                               | 22.18  |
|         | Return on Equity for Effective Capacity | 15.16                               | 15.16  |
|         | Opening Equity                          | 68.65                               | 68.65  |
|         | Closing Equity                          | 68.65                               | 68.65  |
| KLHEP   | Rate of Return                          | 15.50%                              | 15.50%   |
|         | Return on Equity                        | 10.64                               | 10.64  |
|         | Return on Equity for Effective Capacity | 10.64                               | 10.64  |
|         | Opening Equity                          | 15.31                               | 15.73  |
| 1000    | Closing Equity                          | 15.31                               | 15.73  |
| LRPP    | Rate of Return                          | 15.50%                              | 15.50%   |
|         | Return on Equity                        | 2.37                                | 2.44   |
|         | Return on Equity for Effective Capacity | 2.37                                | 2.44   |

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

## 14.3. Interest on Loan Capital

- 14.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 14.3.2. In view of the above, the Petitioner has computed the Interest on long term Loan on normative basis for FY 2020-21. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2020-21. The interest rate has been considered as the expected weighted average rate of interest for FY 2020-21.
- 14.3.3. The finance charges are shown separately plant wise for FY 2020-21. The table below summarizes the interest on loan and finance charges considered for Annual Performance Review of FY 2020-21.

Table 89: Computation of Plant wise Interest and finance charges for 2020-21

| Station | Particulars   | Approved as per order of March 2020 | APR Petition<br>for FY 2020-21 |
|---------|---|-------------------------------------|--------------------------------|
|         | Net Normative Opening Loan                          | 4.04                                | 0.79                           |
|         | Addition of normative loan during the year          | 3.04                                | 1.47                           |
|         | Normative Repayment during the year                 | 1.87                                | 1.45                           |
|         | Net Normative Closing Loan                          | 5.21                                | 0.81                           |
|         | Avg. Normative Loan                                 | 4.625                               | 0.80                           |
|         | Interest Rate                                       | 10.34%                              | 10.15%                         |
| NTPS    | Interest on Loan Capital                            | 0.48                                | 0.08                           |
|         | Add: Bank Charges                                   | -                                   | -                              |
|         | Net Interest on Loan Capital                        | 0.48                                | 0.08                           |
|         | Net Interest on Loan Capital for Effective          |                                     |                                |
|         | Capacity  | 0.17                                | 0.05                           |
|         | Net Normative Opening Loan                          | 0                                   | 0.00                           |
|         | Addition of normative loan during the year          | 20.91                               | 7.37                           |
|         | Normative Repayment during the year                 | 15.97                               | 11.26                          |
|         | Net Normative Closing Loan                          | 4.94                                | 0.00                           |
|         | Avg. Normative Loan                                 | 2.47                                | -                              |
|         | Interest Rate                                       | 10.34%                              | 10.15%                         |
| LTPS    | Interest on Loan Capital                            | 0.26                                | -                              |
|         | Add: Bank Charges                                   | -                                   | -                              |
|         | Net Interest on Loan Capital                        | 0.26                                | -                              |
|         | Net Interest on Loan Capital for Effective Capacity | 0.17                                | -                              |
|         | Net Normative Opening Loan                          | 204.2                               | 195.24                         |
|         | Addition of normative loan during the year          | 20.9                                | 16.45                          |
|         | Normative Repayment during the year                 | 22.19                               | 20.55                          |
|         | Net Normative Closing Loan                          | 202.91                              | 191.14                         |
| KLHEP   | Avg. Normative Loan                                 | 203.555                             | 193.19                         |
|         | Interest Rate                                       | 10.34%                              | 10.15%                         |
|         | Interest on Loan Capital                            | 21.05                               | 19.62                          |

| Station | Particulars   | Approved as per order of March 2020 | APR Petition<br>for FY 2020-21 |
|---------|---|-------------------------------------|--------------------------------|
|         | Add: Bank Charges                                   | -                                   | -                              |
|         | Net Interest on Loan Capital                        | 21.05                               | 19.62                          |
|         | Net Interest on Loan Capital for Effective Capacity | 21.05                               | 19.62                          |
|         | Net Normative Opening Loan                          | 30.66                               | 36.21                          |
|         | Addition of normative loan during the year          | 0                                   | 0.00                           |
|         | Normative Repayment during the year                 | 2.34                                | 2.63                           |
|         | Net Normative Closing Loan                          | 28.32                               | 33.57                          |
|         | Avg. Normative Loan                                 | 29.49                               | 34.89                          |
|         | Interest Rate                                       | 10.34%                              | 10.15%                         |
| LRPP    | Interest on Loan Capital                            | 3.05                                | 3.54                           |
|         | Add: Bank Charges                                   | -                                   | -                              |
|         | Net Interest on Loan Capital                        | 3.05                                | 3.54                           |
|         | Net Interest on Loan Capital for Effective Capacity | 3.05                                | 3.54                           |
|         | Total  Total for Effective Capacity                 | 24.83<br>24.44                      | 23.24<br>23.21                 |

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

### 14.4. Depreciation

- 14.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has provided the principles for determination of depreciation.
- 14.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the plant wise Depreciation considered for Annual Performance Review of FY 2020-21

Table 90: Depreciation for 2020-21 of NTPS

Rs. Cr

| Particulars               | FY 2020-21 |
|---------------------------|------------|
| Opening GFA               | 189.75     |
| Addition during the year  | 0.94       |
| Closing                   | 190.69     |
| Average GFA               | 190.22     |
| Rate of Depreciation      | 0.83%      |
| Total Depreciation        | 1.58       |
| Grant                     | 13.16      |
| Additions during the year | 4.75       |
| Closing grant             | 17.91      |
| Average grant             | 15.53      |
| Rate of Depreciation      | 0.83%      |
| Depreciation on grants    | 0.13       |
| Net Depreciation          | 1.45       |

Table 91: Depreciation for 2020-21 of LTPS

| Particulars               | FY 2020-21 |
|---------------------------|------------|
| Opening GFA               | 485.91     |
| Addition during the year  | 6.85       |
| Closing                   | 492.76     |
| Average GFA               | 489.33     |
| Rate of Depreciation      | 2.67%      |
| Total Depreciation        | 13.07      |
| Grant                     | 65.50      |
| Additions during the year | 4.64       |
| Closing grant             | 70.14      |
| Average grant             | 67.82      |
| Rate of Depreciation      | 2.67%      |
| Depreciation on grants    | 1.81       |
| Net Depreciation          | 11.26      |

Table 92: Depreciation for 2020-21 of KLHEP

Rs. Cr

| Particulars               | FY 2020-21 |
|---------------------------|------------|
| Opening GFA               | 514.70     |
| Addition during the year  | 15.92      |
| Closing                   | 530.62     |
| Average GFA               | 522.66     |
| Rate of Depreciation      | 4.41%      |
| Total Depreciation        | 23.07      |
| Grant                     | 54.66      |
| Additions during the year | 4.77       |
| Closing grant             | 59.43      |
| Average grant             | 57.05      |
| Rate of Depreciation      | 4.41%      |
| Depreciation on grants    | 2.52       |
| Net Depreciation          | 20.55      |

Table 93: Depreciation for 2020-21 of LRPP

| Particulars               | FY 2020-21 |
|---------------------------|------------|
| Opening GFA               | 268.41     |
| Addition during the year  | 0.00       |
| Closing                   | 268.41     |
| Average GFA               | 268.41     |
| Rate of Depreciation      | 5.02%      |
| Total Depreciation        | 13.47      |
| Grant                     | 215.96     |
| Additions during the year | 0.00       |
| Closing grant             | 215.96     |
| Average grant             | 215.96     |
| Rate of Depreciation      | 5.02%      |
| Depreciation on grants    | 10.84      |
| Net Depreciation          | 2.63       |

Table 94: Summary of Depreciation claimed for FY 2020-21 Rs. Cr

| Station         | Particulars                                    | Approved as per Order of March 2020 | APR Petition for FY 2020-21 |  |
|-----------------|--|-------------------------------------|-----------------------------|--|
|                 | Depreciation                                   | 2.08                                | 1.58                        |  |
| NTPS            | Less: Depreciation on assets funded by Grants  | 0.2                                 | 0.13                        |  |
|                 | Net Depreciation                               | 1.87                                | 1.45                        |  |
|                 | Net Depreciation for Effective Capacity        | 0.68                                | 0.95                        |  |
|                 | Depreciation                                   | 18.46                               | 13.07                       |  |
| LTPS            | Less: Depreciation on assets funded by Grants  | 2.5                                 | 1.81                        |  |
|                 | Net Depreciation                               | 15.97                               | 11.26                       |  |
|                 | Net Depreciation for Effective Capacity        | 10.92                               | 7.70                        |  |
|                 | Depreciation                                   | 24.83                               | 23.07                       |  |
| KLHEP           | Less: Depreciation on assets funded by Grants  | 2.64                                | 2.52                        |  |
|                 | Net Depreciation                               | 22.19                               | 20.55                       |  |
|                 | Net Depreciation for Effective Capacity        | 22.19                               | 20.55                       |  |
|                 | Depreciation                                   | 12.23                               | 13.47                       |  |
| LRPP            | Less: Depreciation on assets funded by Grants  | 9.89                                | 10.84                       |  |
|                 | Net Depreciation                               | 2.34                                | 2.63                        |  |
|                 | <b>Net Depreciation for Effective Capacity</b> |                                     |                             |  |
| Tota            | l Depreciation claimed                         | 42.37                               | 35.89                       |  |
| Total Depreciat | ion on Effective Capacity Claimed              | 36.13                               | 31.83                       |  |

14.4.3. APGCL prays to the Hon'ble Commission to approve the plant wise Depreciation for FY FY2020-21 as shown above.

#### 14.5. Interest on Working Capital

- 14.5.1. As per Regulation 36 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.
- 14.5.2. 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 7.00% + 3.00 % = 10.00%.

Table 95: Summary of Interest on working capital claimed for FY 2020-21 Rs. Cr

| Station | Particulars                        | Approved as per order of March 2020 | APR Petition<br>for FY 2020-<br>21 |
|---------|------------------------------------|-------------------------------------|------------------------------------|
|         | Fuel Cost for one month            | 4.24                                | 3.11                               |
|         | O&M Expenses for one month         | 1.67                                | 3.01                               |
|         | Maintenance Spares-30% of O&M      | 6.02                                | 10.82                              |
| NTPS    | Receivables for two months         | 11.76                               | 12.67                              |
|         | Total Working Capital Requirement  | 23.70                               | 29.61                              |
|         | Rate of interest                   | 11.22%                              | 10.00%                             |
|         | Interest on Working capital        | 2.66                                | 2.96                               |
|         | Fuel Cost for one month            | 10.41                               | 5.94                               |
| LTPS    | O&M Expenses for one month         | 2.03                                | 3.11                               |
|         | Maintenance Spares-30% of O&M      | 7.29                                | 11.18                              |
|         | Receivables for two months         | 30.84                               | 21.09                              |
|         | Total Work ing Capital Requirement | 50.56                               | 41.31                              |
|         | Rate of interest                   | 11.22%                              | 10.00%                             |
|         | Interest on Working capital        | 5.67                                | 4.13                               |
|         | O&M Expenses for one month         | 2.53                                | 2.53                               |
|         | Maintenance Spares-30% of O&M      | 4.55                                | 9.10                               |
| KLHEP   | Receivables for two months         | 16.04                               | 12.99                              |
| KLMEP   | Total Work ing Capital Requirement | 23.12                               | 24.62                              |
|         | Rate of interest                   | 11.22%                              | 10.00%                             |
|         | Interest on Working capital        | 2.59                                | 2.46                               |
|         | Fuel Cost for one month            | 8.53                                | 5.62                               |
|         | O&M Expenses for one month         | 1.78                                | 1.78                               |
| LRPP    | Maintenance Spares-30% of O&M      | 6.39                                | 6.39                               |
|         | Receivables for two months         | 22.64                               | 16.75                              |
|         | Total Work ing Capital Requirement | 39.34                               | 30.53                              |

| Station | Particulars                 | Approved as per order of March 2020 | APR Petition<br>for FY 2020-<br>21 |
|---------|-----------------------------|-------------------------------------|------------------------------------|
|         | Rate of interest            | 11.22%                              | 10.00%                             |
|         | Interest on Working capital | 4.41                                | 3.05                               |
| Total   | interest on Working capital | 15.34                               | 12.61                              |

14.5.3. APGCL prays to the Hon'ble Commission to approve the plant wise Interest on Working capital for FY 2020-21 as shown above.

#### 14.6. Operation and Maintenance Expenses (O&M Expenses)

- 14.6.1. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 14.6.2. We submit that the Hon'ble Commission has approved the Normative Operations & Maintenance for LTPS for FY 2020-21 at Rs. 60.26 Crore in the Order of March 2020.
- 14.6.3. However, the Hon'ble Commission while approving the O&M for LTPS in the Order of March 2020 as per effective capacity for FY 2020-21 has approved Rs. 24.31 Crore whereas as per effective capacity it should be Rs. 41.20 (Effective Capacity of 97.2 MW against installed capacity of 142.2 MW) Crore. The Hon'ble Commission had reduced the O&M cost of LRPP from the approved O&M cost of LTPS.
- 14.6.4. APGCL humbly submits that it had awarded the R&M services of LRPP to M/s Wartsila and for which APGCL is bearing Rs. 1.29 Crores per quarter as R&M expenditure. Such cost is also borne by APGCL.
- 14.6.5. APGCL humbly submits that the following historical O&M Cost for LTPS as well as the current actual O&M cost incurred in FY19-20.

(in Rs. Crore)

|                             | FY16-17 | FY17-18 | FY18-19 | FY19-20 | Average<br>O&M<br>Expenditure |
|-----------------------------|---------|---------|---------|---------|-------------------------------|
| LTPS Actual O&M Expenditure | 54.96   | 46.00   | 38.53   | 41.53   | 45.26                         |



- 14.6.6. As can be seen from the above table, the average actual O&M cost incurred for LTPS has been Rs. ~45.26 Crore in the last 4 years. The Hon'ble Commission's reduction of the O&M Cost of LRPP from the Normative O&M cost for LTPS as per Order of March 2020 would lead to difficulty on the operations & maintenance cost coverage of LTPS for APGCL.
- 14.6.7. APGCL humbly prays to the Commission to approve the Normative O&M cost as per Order of March 2020 at Rs. 60.26 Crore and reduce the cost for effective capacity considering the actual effective installed capacity of 97.2 MW only while keeping the actual O&M Cost for LRPP separate for allowance.
- 14.6.8. APGCL also humbly submits to the Hon'ble Commission that is it not claiming the same O&M expenses for LTPS as well as LRPP. APGCL is only claiming the actual expenditure incurred for each plant separately as shown below.
- 14.6.9. APGCL is praying to the Hon'ble Commission to approve the O&M expenses at normative level for FY2020-21 considering the effective capacity of the plants in FY2020-21 as below:

| Station | Approved in<br>order of<br>March 2020 | Approved considering Effective Installed Capacity in order of March 2020 | Effective Capacity considered in APR | Amount considered for Annual Performance Review Petition for FY 2020-21 on effective capacity |
|---------|---------------------------------------|--|--------------------------------------|---|
| 1       | 2                                     | 3  | 4                                    | 5 = 2 / Installed<br>Capacity * 4   |
| NTPS    | 55.17                                 | 20.08  | 78.12                                | 36.06   |
|         |                                       |  |                                      |   |
| LTPS    | 60.26                                 | 24.31  | 97.20                                | 37.26   |
| KLHEP   | 30.34                                 | 30.34  | 100.00                               | 30.34   |
| LRPP    | 21.30                                 | 21.30  | 69.76                                | 21.30   |
| Total   | 167.07                                | 96.03  |                                      | 124.96  |

Table 96: O&M Expenses for FY2020-21

14.6.10. APGCL prays to the Hon'ble Commission to approve the plant wise O&M expenses for FY 2020-21 as shown above.

## 14.7. Impact of AERC (Payment of Fees etc.) Regulations, 2020



- 14.7.1. 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.
- 14.7.2. The tentative impact of the increase in the filing fees has been shown below:

| Station | 20                         | 015 Regulation | on            | 202                        |                 | 020 Regulation |                            | Increase in Filing F  |               |
|---------|----------------------------|----------------|---------------|----------------------------|-----------------|----------------|----------------------------|-----------------------|---------------|
|         | Tariff Determin ation Fees | APR Fees       | Total<br>Fees | Tariff Determin ation Fees | True Up<br>Fees | Total<br>Fees  | Tariff Determin ation Fees | True Up /<br>APR Fees | Total<br>Fees |
| NTPS    | 0.20                       | 0.10           | 0.30          | 0.25                       | 0.15            | 0.40           | 0.05                       | 0.05                  | 0.10          |
| LTPS    | 0.20                       | 0.10           | 0.30          | 0.25                       | 0.15            | 0.40           | 0.05                       | 0.05                  | 0.10          |
| KLHEP   | 0.10                       | 0.05           | 0.15          | 0.10                       | 0.05            | 0.15           | 0.00                       | 0.00                  | 0.00          |
| LRPP    | 0.20                       | 0.10           | 0.30          | 0.25                       | 0.15            | 0.40           | 0.05                       | 0.05                  | 0.10          |
| Total   | 0.70                       | 0.35           | 1.05          | 0.85                       | 0.50            | 1.35           | 0.15                       | 0.15                  | 0.30          |

14.7.3. Considering the increase in the plant wise filing fees as shown above, APGCL humbly prays to the Commission to allow it to claim in the increase in the fees at actuals in FY2020-21

#### 14.8. Incentives

14.8.1. Incentives for FY 2020-21 will be claimed during True-up of FY 2020-21

#### 14.9. Special R&M

14.9.1. The Hon'ble Commission in its order dated 1<sup>st</sup> March 2019 and 7<sup>th</sup> March 2020, had approved Special R&M for NTPS, LTPS and KLHEP. The status of the approved and actual special R&M being conducted in FY2020-21 has been shown in the table below:

| Work Name  | Total<br>Amount<br>Approved | Appeared in<br>Annual<br>Accounts<br>FY 2020-21 | Claim in FY 2020-21 | Remarks  |
|--|-----------------------------|---|---------------------|--|
| Capital Overhauling<br>of 50MW Francis<br>type Fuji make<br>Generator Turbine<br>Unit-II - KLHEP | 15.10                       | 0.00  | 0.00                | Due to the delay in the overhauling of KLHEP Unit 1, the Overhauling of Unit 2 will be undertaken in FY2021-22 with the revised schedule to be provided in the APR for FY2021-22. However the order for the Work is expected to be given in FY20-21. |
| Overhauling of<br>LTPS Unit -7 in<br>FY2021-22   | 13.00                       | 0.00  | 0.00                | The overhauling has been shifted to FY2021-22  |



| Work Name                              | Total<br>Amount<br>Approved | Appeared in<br>Annual<br>Accounts<br>FY 2020-21 | Claim in FY<br>2020-21 | Remarks   |
|--|-----------------------------|---|------------------------|---|
| Major Overhauling<br>of KLHEP - Unit 1 | 0.00                        | 15.00   | 0.00                   | Overhauling of Unit 1 to be completed in FY20-21 by December 2020 with plant running at full capacity from January 15 2021. Although the amount is present in the Annual Accounts till October 2020, the amount has been received from GoA (Rs. 26.9 Crore)  Due to the delay in the overhauling of KLHEP Unit 1, the Overhauling of Unit 2 will be undertaken in FY2021-22 with the revised schedule to be provided in the APR for FY2021-22. However the order for the Work is expected to be given in FY20-21. |

Table 97: Plant wise Special R&M for FY 2020-21

| Station | Approved as per order of<br>March 2020 | Amount claimed for APR |
|---------|--|------------------------|
| NTPS    | 0.00                                   | 0.00                   |
| LTPS    | 13.00                                  | 0.00                   |
| KLHEP   | 15.10                                  | 0.00                   |
| LRPP    | 0.00                                   | 0.00                   |
| Total   | 28.10                                  | 0.00                   |

14.9.2. APGCL prays to the Hon'ble Commission to approve the above mentioned Special R&M activities for FY2020-21

#### 14.10. Capacity building

- 14.10.1. The Hon'ble Commission had approved expenses pertaining to Capacity Building of APGCL employees.
- 14.10.2. APGCL is claiming the normative Capacity Building expenses for FY2020-21 and shall provide the detailed capacity building activities undertaken in FY2020-21 during true up for the year.
- 14.10.3. The approved and claimed expenses have been shown in the table below:

Table 98: Expenses under Capacity building

Rs. Cr

| Station | Approved as per order of<br>March 2020 | Amount claimed for APR |
|---------|--|------------------------|
| NTPS    | 0.10                                   | 0.10                   |
| LTPS    | 0.10                                   | 0.10                   |
| KLHEP   | 0.10                                   | 0.10                   |
| LRPP    | 0.00                                   | 0.00                   |
| Total   | 0.30                                   | 0.30                   |

14.10.4. APGCL prays to the Hon'ble Commission to approve the above mentioned capacity building expenses for FY2020-21.

#### 14.11. Non Tariff Income

- 14.11.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 14.11.2. The Non-tariff income has been estimated at normatively approved numbers by Hon'ble Commission in its order of March 2020. The same will be claimed at actuals during truing up for FY2020-21
- 14.11.3. The details of non-tariff income for FY 2020-21 are shown in the table below:

Table 99: Station-wise details of Non tariff income for FY 2020-21

| Station | Approved as per order of March 2020 | Annual Performance Review Petition for FY 2020-21 |
|---------|-------------------------------------|---|
| NTPS    | 7.13                                | 7.13  |



| LTPS  | 9.22  | 9.22  |
|-------|-------|-------|
| KLHEP | 5.75  | 5.75  |
| LRPP  | 0.00  | 0.00  |
| Total | 22.09 | 22.09 |

14.11.4. APGCL prays to the Hon'ble Commission to approve the plant wise Non tariff income for FY 2020-21 as shown above.

#### 14.12. Total Fixed Cost

- 14.12.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 14.12.2. Based on the above, the Annual fixed charges for FY 2020-21 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 100: Annual Fixed charges for 2020-21 of NTPS Rs. Cr

| Particulars                         | Approved as per order of March 2020 | Amount claimed for APR |
|-------------------------------------|-------------------------------------|------------------------|
| Operation & Maintenance Expenditure | 20.08                               | 36.06                  |
| Increase in AERC Tariff Filing Fees | 0                                   | 0.10                   |
| Interest & Finance Charges          | 0.17                                | 0.05                   |
| Interest on working Capital         | 2.66                                | 2.96                   |
| Depreciation                        | 0.68                                | 0.95                   |
| Return on Equity                    | 3.1                                 | 5.57                   |
| Special R&M                         | 0.00                                | 0.00                   |
| Capacity Building                   | 0.10                                | 0.10                   |
| Less: Other Income                  | 7.13                                | 7.13                   |
| Total Fixed Charges                 | 19.67                               | 38.67                  |

Table 101: Annual Fixed charges for 2020-21 of LTPS

| Particulars                         | Approved as per order of March 2020 | Amount claimed for APR |
|-------------------------------------|-------------------------------------|------------------------|
| Operation & Maintenance Expenditure | 24.31                               | 37.26                  |
| Increase in AERC Tariff Filing Fees | 0                                   | 0.10                   |
| Interest & Finance Charges          | 0.17                                | 0.00                   |
| Interest on working Capital         | 5.67                                | 4.13                   |



| Particulars         | Approved as per order of March 2020 | Amount claimed for APR |
|---------------------|-------------------------------------|------------------------|
| Depreciation        | 10.92                               | 7.70                   |
| Return on Equity    | 15.16                               | 15.16                  |
| Special R&M         | 13.00                               | 0.00                   |
| Capacity Building   | 0.10                                | 0.10                   |
| Less: Other Income  | 9.22                                | 9.22                   |
| Total Fixed Charges | 60.12                               | 55.23                  |

Table 102: Annual Fixed charges for 2020-21 of KLHEP

Rs. Cr

| Particulars                         | Approved as per order of March 2020 | Amount claimed for APR |
|-------------------------------------|-------------------------------------|------------------------|
| Operation & Maintenance Expenditure | 30.34                               | 30.34                  |
| Increase in AERC Tariff Filing Fees | 0.00                                | 0.00                   |
| Interest & Finance Charges          | 21.05                               | 19.62                  |
| Interest on working Capital         | 2.59                                | 2.46                   |
| Depreciation                        | 22.19                               | 20.55                  |
| Return on Equity                    | 10.64                               | 10.64                  |
| Special R&M                         | 15.10                               | 0.00                   |
| Capacity Building                   | 0.10                                | 0.10                   |
| Less: Other Income                  | 5.75                                | 5.75                   |
| Total Fixed Charges                 | 96.27                               | 77.96                  |

Table 103: Annual Fixed charges for 2019-20 of LRPP

| Particulars                         | Approved as per order of March 2020 | Amount claimed for APR |
|-------------------------------------|-------------------------------------|------------------------|
| Operation & Maintenance Expenditure | 21.30                               | 21.30                  |
| Increase in AERC Tariff Filing Fees | 0.00                                | 0.10                   |
| Interest & Finance Charges          | 3.05                                | 3.54                   |
| Interest on working Capital         | 4.41                                | 3.05                   |
| Depreciation                        | 2.34                                | 2.63                   |
| Return on Equity                    | 2.37                                | 2.44                   |
| Special R&M                         | 0.00                                | 0.00                   |
| Capacity Building                   | -                                   | -                      |



| Particulars                | Approved as per order of March 2020 | Amount claimed for |
|----------------------------|-------------------------------------|--------------------|
| <u>Less</u> : Other Income | 0.00                                | <b>APR</b> 0.00    |
| Total Fixed Charges        | 33.47                               | 33.07              |

14.12.3. The Petitioner prays to the Hon'ble Commission to approve the plant wise fixed costs for FY 2020-21 as discussed in the tables above.

# 15. Energy Charges

#### 15.1. Fuel Price and Calorific Value

15.1.1. As per Regulation 11 of the Tariff Regulations 2018, '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 104: Actual Plant wise | GCV and Price for FY 2020-21 |
|------------------------------|------------------------------|
|                              |                              |

| Station | Wt. Avg. Gross<br>Calorific Value<br>of Gas<br>(kcal/SCM) | Wt. Avg. Price of<br>Gas (Rs./1000<br>SCM) | Wt. Avg. Price of<br>Gas (Rs./1000<br>SCM) | Wt. Avg. Price of<br>Gas (Rs./1000<br>SCM) |
|---------|---|--|--|--|
|         |   | April - Sept<br>(actual)                   | Oct -March (estimated)                     |  |
| NTPS    | 9,147   | 4,757                                      | 3,535                                      | 4,146                                      |
| LTPS    | 9,419   | 6,646                                      | 4,922                                      | 5,784                                      |
| LRPP    | 9,419   | 6,642                                      | 4,922                                      | 5,782                                      |

15.1.2. The estimated for October 2020 has been considered to project the price from Oct-March. The Petitioner prays to the Hon'ble Commission to approve the Price of Gas and GCV for NTPS, LTPS and LRPP for FY 2020-21 as shown in the table above.

#### 15.2. Fuel cost

15.2.1. The Commission, in the Tariff Orders of March 2020 had approved the Fuel Cost for FY FY2020-21 for NTPS, LTPS and LRPP. 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 2020-21. The average price of fuel and GSHR for April to September has been considered for the month of October – March.

Table 105: Fuel cost for NTPS for FY 2020-21

| Particulars      | Unit         | Approved<br>as per<br>order of<br>March<br>2020 | April - Sep<br>(actual) | Oct -March<br>(estimated) | FY 2020-21 estimated |
|------------------|--------------|---|-------------------------|---------------------------|----------------------|
| Gross Generation | MU           | 173.73  | 88.92                   | 84.81                     | 173.73               |
| Heat Rate        | kcal/kWh     | 3900.00   | 5316.84                 | 3900.00                   | 4608.42              |
| GCV of gas       | kcal/SCM     | 9132.69   | 9147.27                 | 9147.27                   | 9147.27              |
| Overall Heat     | G. cal.      | 677547.00                                       | 472773.11               | 330759.00                 | 800620.51            |
| Gas consumption  | M. SCM       | 74.19   | 51.68                   | 36.16                     | 87.53                |
| Price of Gas     | Rs./1000 SCM | 6257.52   | 4757.43                 | 3535.02                   | 4146.22              |



| Particulars       | Unit      | Approved<br>as per<br>order of<br>March<br>2020 | April - Sep<br>(actual) | Oct -March<br>(estimated) | FY 2020-21<br>estimated |
|-------------------|-----------|---|-------------------------|---------------------------|-------------------------|
| Total cost of Gas | Rs. Crore | 46.42   | 24.59                   | 12.78                     | 37.37                   |

Table 106: Fuel cost for LTPS for FY 2020-21

| Particulars       | Unit         | Approved as per order of March 2020 | April -<br>Sep<br>(actual) | Oct -March<br>(estimated) | FY 2020-21 estimated |
|-------------------|--------------|-------------------------------------|----------------------------|---------------------------|----------------------|
| Gross Generation  | MU           | 425.74                              | 183.63                     | 212.28                    | 395.92               |
| Heat Rate         | kcal/kWh     | 3200.00                             | 2762.30                    | 3200.00                   | 2981.15              |
| GCV of gas        | kcal/SCM     | 9328.96                             | 9419.27                    | 9419.27                   | 9419.27              |
| Overall Heat      | G. cal.      | 1362368.00                          | 507250.04                  | 679311.36                 | 1180291.01           |
| Gas consumption   | M. SCM       | 146.04                              | 53.85                      | 72.12                     | 125.31               |
| Price of Gas      | Rs./1000 SCM | 8553.56                             | 6645.79                    | 4921.91                   | 5783.85              |
| Total cost of Gas | Rs. Crore    | 124.91                              | 35.79                      | 35.50                     | 71.29                |

Table 107: Fuel cost for LRPP for FY 2020-21

| Particulars       | Unit         | Approved<br>as per<br>order of<br>March<br>2020 | April - Sep<br>(actual) | Oct -March<br>(estimated) | FY 2020-21 estimated |
|-------------------|--------------|---|-------------------------|---------------------------|----------------------|
| Gross Generation  | MU           | 519.40  | 228.06                  | 291.34                    | 519.40               |
| Heat Rate         | kcal/kWh     | 2150.00   | 2155.99                 | 2150.00                   | 2153.00              |
| GCV of gas        | kcal/SCM     | 9328.96   | 9419.27                 | 9419.27                   | 9419.27              |
| Overall Heat      | G. cal.      | 1116710.00                                      | 491685.79               | 626390.89                 | 1118266.32           |
| Gas consumption   | M. SCM       | 119.70  | 52.20                   | 66.50                     | 118.72               |
| Price of Gas      | Rs./1000 SCM | 8853.56   | 6642.19                 | 4921.91                   | 5782.05              |
| Total cost of Gas | Rs. Crore    | 102.39  | 34.67                   | 32.73                     | 67.40                |

15.2.2. The Petitioner prays to the Hon'ble Commission to approve the estimated Fuel cost Price for NTPS, LTPS and LRPP for FY 2020-21 as shown in the table above.





# 16. Summary of submissions for Annual Performance Review of FY 2020-21

## **16.1.** Net Annual Revenue Requirement

16.1.1. The plant wise Net Annual Revenue Requirements for FY 2020-21 are as shown in the tables below.

Table 108: Net Annual Revenue Requirements for NTPS for FY 2020-21

| APR for FY 2020-21 For NTPS on Effective Capacity |                                     |   |                              |  |  |  |
|---|-------------------------------------|---|------------------------------|--|--|--|
| SI.<br>No   | Particulars                         | Approved as<br>per order of<br>March 2020 | Amount<br>claimed for<br>APR |  |  |  |
| I   | POWER GENERATION (MU)               |   |                              |  |  |  |
|   | Gross Generation                    | 173.73                                    | 173.73                       |  |  |  |
|   | Net Generation                      | 165.91                                    | 164.10                       |  |  |  |
|   | Auxiliary Consumption, Loss %       | 4.50%                                     | 5.54%                        |  |  |  |
|   |                                     |   |                              |  |  |  |
| I   | Fixed Charges                       |   |                              |  |  |  |
|   | Operation & Maintenance Expenditure | 20.08                                     | 36.06                        |  |  |  |
|   | Increase in AERC Tariff Filing Fees | 0   | 0.10                         |  |  |  |
|   | Interest & Finance Charges          | 0.17                                      | 0.05                         |  |  |  |
|   | Interest on working Capital         | 2.66                                      | 2.96                         |  |  |  |
|   | Depreciation                        | 0.68                                      | 0.95                         |  |  |  |
|   | Return on Equity                    | 3.1                                       | 5.57                         |  |  |  |
|   | Special R&M                         | 0.00                                      | 0.00                         |  |  |  |
|   | Capacity Building                   | 0.10                                      | 0.10                         |  |  |  |
|   | <u>Less</u> : Other Income          | 7.13                                      | 7.13                         |  |  |  |
| Ш   | Total Fixed Charges                 | 19.67                                     | 38.67                        |  |  |  |
| Ш   | Fuel Cost                           | 46.42                                     | 37.37                        |  |  |  |
| IV  | Total Revenue Requirement           | 66.09                                     | 76.04                        |  |  |  |
| VII   | Total Cost                          | 66.09                                     | 76.04                        |  |  |  |
| VIII  | Revenue from Sale of Power          | 66.09                                     | 59.96                        |  |  |  |
| IX  | Revenue Gap (+) / Surplus(-)        | 0.00                                      | 16.08                        |  |  |  |

Table 109: Net Annual Revenue Requirements for LTPS for FY 2020-21

| APR for FY 2020-21 For LTPS on Effective Capacity |                                     |   |                              |  |  |
|---|-------------------------------------|---|------------------------------|--|--|
| SI.<br>No   | Particulars                         | Approved as<br>per order of<br>March 2020 | Amount<br>claimed for<br>APR |  |  |
| ı   | POWER GENERATION (MU)               |   |                              |  |  |
|   | Gross Generation                    | 425.74                                    | 395.92                       |  |  |
|   | Net Generation                      | 402.32                                    | 367.31                       |  |  |
|   | Auxiliary Consumption, Loss %       | 5.50%                                     | 7.23%                        |  |  |
|   |                                     |   |                              |  |  |
| I   | Fixed Charges                       |   |                              |  |  |
|   | Operation & Maintenance Expenditure | 24.31                                     | 37.26                        |  |  |
|   | Increase in AERC Tariff Filing Fees | 0   | 0.10                         |  |  |
|   | Interest & Finance Charges          | 0.17                                      | 0.00                         |  |  |
|   | Interest on working Capital         | 5.67                                      | 4.13                         |  |  |
|   | Depreciation                        | 10.92                                     | 7.70                         |  |  |
|   | Return on Equity                    | 15.16                                     | 15.16                        |  |  |
|   | Special R&M                         | 13.00                                     | 0.00                         |  |  |
|   | Capacity Building                   | 0.10                                      | 0.10                         |  |  |
|   | <u>Less</u> : Other Income          | 9.22                                      | 9.22                         |  |  |
| II  | Total Fixed Charges                 | 60.12                                     | 55.23                        |  |  |
| Ш   | Fuel Cost                           | 124.91                                    | 71.29                        |  |  |
| IV  | Total Revenue Requirement           | 185.03                                    | 126.52                       |  |  |
| VII   | Total Cost                          | 185.03                                    | 126.52                       |  |  |
| VIII  | Revenue from Sale of Power          | 185.03                                    | 162.64                       |  |  |
| IX  | Revenue Gap (+) / Surplus(-)        | 0.00                                      | -36.13                       |  |  |

Table 110: Net Annual Revenue Requirements for KLHEP for FY 2020-21

|           | APR for FY 2020-21 For KLHEP on Effective Capacity |                                     |                              |  |  |
|-----------|--|-------------------------------------|------------------------------|--|--|
| SI.<br>No | Particulars  | Approved as per order of March 2020 | Amount<br>claimed for<br>APR |  |  |
| I         | POWER GENERATION (MU)                              |                                     |                              |  |  |
|           | Gross Generation                                   | 390.00                              | 341.11                       |  |  |
|           | Net Generation                                     | 388.05                              | 339.85                       |  |  |
|           | Auxiliary Consumption, Loss %                      | 0.5%                                | 0.4%                         |  |  |
|           |  |                                     |                              |  |  |
| I         | Fixed Charges                                      |                                     |                              |  |  |
|           | Operation & Maintenance Expenditure                | 30.34                               | 30.34                        |  |  |
|           | Increase in AERC Tariff Filing Fees                | 0.00                                | 0.00                         |  |  |
|           | Interest & Finance Charges                         | 21.05                               | 19.62                        |  |  |
|           | Interest on working Capital                        | 2.59                                | 2.46                         |  |  |
|           | Depreciation                                       | 22.19                               | 20.55                        |  |  |
|           | Return on Equity                                   | 10.64                               | 10.64                        |  |  |
|           | Special R&M  | 15.10                               | 0.00                         |  |  |
|           | Capacity Building                                  | 0.10                                | 0.10                         |  |  |
|           | <u>Less</u> : Other Income                         | 5.75                                | 5.75                         |  |  |
| II        | Total Fixed Charges                                | 96.27                               | 77.96                        |  |  |
| Ш         | Fuel Cost  | 0.00                                | 0.00                         |  |  |
| IV        | Total Revenue Requirement                          | 96.27                               | 77.96                        |  |  |
| VII       | Total Cost   | 96.27                               | 77.96                        |  |  |
| VIII      | Revenue from Sale of Power                         | 96.27                               | 71.59                        |  |  |
| IX        | Revenue Gap (+) / Surplus(-)                       | 0.00                                | 6.37                         |  |  |

Table 111: Net Annual Revenue Requirements for LRPP for FY 2020-21

| APR for FY 2020-21 For LRPP on Effective Capacity |                                     |                                     |                              |  |  |
|---|-------------------------------------|-------------------------------------|------------------------------|--|--|
| Sl. No  | Particulars                         | Approved as per order of March 2020 | Amount<br>claimed for<br>APR |  |  |
| I   | POWER GENERATION (MU)               |                                     |                              |  |  |
|   | Gross Generation                    | 519.40                              | 519.40                       |  |  |
|   | Net Generation                      | 501.22                              | 504.22                       |  |  |
|   | Auxiliary Consumption, Loss %       | 3.50%                               | 2.92%                        |  |  |
|   |                                     |                                     |                              |  |  |
| I   | Fixed Charges                       |                                     |                              |  |  |
|   | Operation & Maintenance Expenditure | 21.30                               | 21.30                        |  |  |
|   | Increase in AERC Tariff Filing Fees | 0.00                                | 0.10                         |  |  |
|   | Interest & Finance Charges          | 3.05                                | 3.54                         |  |  |
|   | Interest on working Capital         | 4.41                                | 3.05                         |  |  |
|   | Depreciation                        | 2.34                                | 2.63                         |  |  |
|   | Return on Equity                    | 2.37                                | 2.44                         |  |  |
|   | Special R&M                         | 0.00                                | 0.00                         |  |  |
|   | Capacity Building                   | -                                   | -                            |  |  |
|   | <u>Less</u> : Other Income          | 0.00                                | 0.00                         |  |  |
| II  | Total Fixed Charges                 | 33.47                               | 33.07                        |  |  |
| III   | Fuel Cost                           | 102.39                              | 67.40                        |  |  |
| IV  | Total Revenue Requirement           | 135.86                              | 100.47                       |  |  |
| VII   | Total Cost                          | 135.86                              | 100.47                       |  |  |
| VIII  | Revenue from Sale of Power          | 135.86                              | 126.29                       |  |  |
| IX  | Revenue Gap (+) / Surplus(-)        | 0.00                                | -25.82                       |  |  |

# 16.2. Summary

16.2.1. The summary of the APR for FY 2020-21 For APGCL is as shown below.

Table 112: APR for FY 2020-21 for APGCL

Rs. Cr

| APR for FY 2020-21 For APGCL on Effective Capacity |                                     |                                     |                        |  |  |
|--|-------------------------------------|-------------------------------------|------------------------|--|--|
| SI. No   | Particulars                         | Approved as per order of March 2020 | Amount claimed for APR |  |  |
| I  | POWER GENERATION (MU)               |                                     |                        |  |  |
|  | Gross Generation                    | 1508.87                             | 1430.16                |  |  |
|  | Net Generation                      | 1457.51                             | 1375.49                |  |  |
|  | Auxiliary Consumption, Loss %       | 3.40%                               | 3.82%                  |  |  |
|  |                                     |                                     |                        |  |  |
| I  | Fixed Charges                       |                                     |                        |  |  |
|  | Operation & Maintenance Expenditure | 96.03                               | 124.96                 |  |  |
|  | Increase in AERC Tariff Filing Fees | 0.00                                | 0.30                   |  |  |
|  | Interest & Finance Charges          | 24.44                               | 23.21                  |  |  |
|  | Interest on working Capital         | 15.34                               | 12.61                  |  |  |
|  | Depreciation                        | 36.13                               | 31.83                  |  |  |
|  | Return on Equity                    | 31.27                               | 33.81                  |  |  |
|  | Special R&M                         | 28.10                               | 0.00                   |  |  |
|  | Capacity Building                   | 0.30                                | 0.30                   |  |  |
|  | Less: Other Income                  | 22.10                               | 22.09                  |  |  |
| II   | Total Fixed Charges                 | 209.51                              | 204.93                 |  |  |
| III  | Fuel Cost                           | 273.73                              | 176.06                 |  |  |
| IV   | Total Revenue Requirement           | 483.25                              | 380.99                 |  |  |
| VII  | Total Cost                          | 483.25                              | 380.99                 |  |  |
| VIII   | Revenue from Sale of Power          | 483.25                              | 420.48                 |  |  |
| IX   | Revenue Gap (+) / Surplus(-)        | 0.00                                | -39.49                 |  |  |

Table 113: Net Annual Revenue Requirements for APGCL for FY 2020-21

| Particulars         | Approved as per order of March 2020 | Amount estimated<br>for Annual<br>Performance<br>Review |
|---------------------|-------------------------------------|---|
| Total Fixed Charges | 209.51                              | 204.93  |
| Fuel Cost           | 273.73                              | 176.06  |



483.25

380.99

- 16.2.2. We submit that since the figures for the FY FY2020-21 are estimated and are subject to True-up, APGCL has not considered gap in the tariff for FY 2020-21. The same shall be considered at the time of True-up petition of FY 2020-21.
- 16.2.3. 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 2020-21 as discussed in the tables above.

# APPEAL FOR REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2021-22 NTPS & DETERMINATION OF TARIFF FOR FY 2021-22 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 and Determination of Tariff for the FY 2021-22

AND

IN THE MATTER OF

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

Petitioner

l, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November'2020 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: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



#### PRAYER - NTPS

# BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FIL | NGNO |  |
|-----|------|--|
| CA  | SENO |  |

#### IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement and Determination of Tariff for the FY 2021-22

## 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:

- 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.
- 2 That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- 3 That the APGCL is a generating company under the provisions laid down in Section 14 Proviso 5, read with Section 131 (2) of the Electricity Act 2003.
- 4 That the NTPS is an operating gas based thermal Power Station under the APGCL in the district of Dibrugarh, Assam.
- 5 That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2018 on 28th June, 2018.
- 6 That the AERC, after completion of the due process, issued Order for the FY 2020-21 on 07/03/2020.
- That APGCL is now submitting the Petition for the Revised Aggregate Revenue Requirement and Determination of Tariff for NTPS for the FY 2021-22 as per the relevant Regulations.

Place: Guwahati

Date: 27th November' 2020

Deponent

(Ashok Kalita)
Chief General Manager (Gen),
Assam Power Generation Corporation Ltd.



# 17. Revised ARR for FY 2021-22

# 17.1. Regulatory provisions for Revised ARR

17.1.1. The Hon'ble Commission in its Tariff regulations 2018 has stated the following on Revised ARR for the control period from FY 2019-20 to FY 2021-22. 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 clauses (i), (ii), (iii), (iv) and (v) of Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1<sup>st</sup> April 2019.
- 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 1, 2019 to March 31, 2022 and for every block of three years thereafter or such other period as may be decided by the Commission.

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"

# 18. Norms of operations

# 18.1. Regulatory provisions

- 18.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2018.
- 18.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

# 18.2. Installed and Effective Capacity in FY2021-22

18.2.1. APGCL submits the following Installed & Effective Capacity for FY2021-22

Table 114: Installed & Effective Capacity for FY2020-21

| Statio<br>n | Installe<br>d<br>Capacit<br>y<br>(MW) | No.<br>of<br>Unit<br>s | Units<br>Decommissio<br>ned                          | Units Available for Generation & Capacity in MW                                    | Effective Capacity |
|-------------|---------------------------------------|------------------------|--|--|--------------------|
| NTPS        | 119.5                                 | 6                      | 1<br>4,5 (w.e.f.<br>20 <sup>th</sup> August<br>2020) | 2, 3(21MW) –<br>Only 1 Unit<br>Operational at<br>any time<br>6 (22.50 MW-<br>WHRU) | 43.5 MW            |

## 18.3. Snapshot of performance projection for FY 2021-22

- 18.3.1. The generation from Namrup thermal power station is expected to reduce due to proposed commissioning of the NRPP from 1<sup>st</sup> April 2021. It is expected that only two units totalling 43.5 MW of Namrup thermal power station will run post commissioning of NRPP.
- 18.3.2. The Commission in its order dated 1st March 2019 had approved the NAPAF of NTPS at 50% for FY2021-22. However due to the problem of low gas supply and frequent forced shutdown of the aged units/auxiliaries, normative Plant Availability factor may not be achieved
- 18.3.3. The following table shows the projection of performance parameters of gas based Namrup thermal power station for FY2021-22

Table 115: Projected Operating Performance for FY2021-22 of NTPS



| NTPS  | 2021-22<br>Approved | 2021-22<br>Projected |
|---|---------------------|----------------------|
| Gross Energy in MU                          | 173.73              | 145.21               |
| Aux. Power Cons. (%)                        | 4.50%               | 4.50%                |
| Net Energy in MU                            | 165.9               | 138.68               |
| Plant Availability Factor (%)               | 50.00%              | 38.11%               |
| Plant Load Factor (%)                       | 50.00%              | 38.11%               |
| Gross Station Heat Rate on GCV (kcal / kWh) | 3900                | 3900.00              |

# 18.4. Normative Annual Plant Availability Factor (NAPAF)

18.4.1. As per Regulation 47.1 of the Tariff Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY2021-22 for NTPS. However, post commissioning of NRPP, availability of NTPS is expected to decrease due to low availability of gas. The approved and projected numbers are shown in the table below.

Table 116: Projected Availability for FY2021-22 of NTPS

| NTPS                          | 2021-22  | 2021-22   |
|-------------------------------|----------|-----------|
| NIP3                          | Approved | Projected |
| Plant Availability Factor (%) | 50.00%   | 38.11%    |

# 18.5. Normative Annual Plant Load Factor (NAPLF)

18.5.1. As per Regulation 47.2 of the Tariff Regulations, 2018 the Normative Plant Load factor is 50% for FY 2019-20 to FY 2021-22 for NTPS. However, post commissioning of NRPP, generation of NTPS is expected to decrease due to low availability of gas. The PLF for NTPS has been projected at same level of availability. APGCL will try to achieve the approved PLF for NTPS during the year.. The approved and projected numbers are shown in the table below.

Table 117: Projected PLF for FY2021-22 of NTPS

| NTPS                  | 2021-22  | 2021-22   |
|-----------------------|----------|-----------|
| NIPS                  | Approved | Projected |
| Plant Load Factor (%) | 50.00%   | 38.11%    |



## **18.6.** Gross Station Heat Rate (SHR)

- 18.6.1. As per Regulation 47.4, of the Tariff Regulations, 2018 the Normative Station Heat Rate, is 3900 kCal/kWh for FY 2021-22 for NTPS in Partial combined cycle mode of operation.
- 18.6.2. The approved and projected numbers are shown in the table below.

Table 118: Projected SHR for FY2021-22 of NTPS

| NTPS  | 2021-22<br>Approved | 2021-22<br>Projected |
|---|---------------------|----------------------|
| Gross Station Heat Rate on GCV (kcal / kWh) | 3900.00             | 3900.00              |

# 18.7. Auxiliary Energy Consumption

18.7.1. As per Regulation 47.3 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption is 4.50% for FY 2021-22 for NTPS. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 119: Auxiliary Energy Consumption for FY2021-22 of NTPS

| NTPS                             | 2021-22<br>Approved | 2021-22<br>Projected |
|----------------------------------|---------------------|----------------------|
| Auxiliary energy consumption (%) | 4.50%               | 4.50%                |

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

# 19. Fixed Cost of the Plant

## 19.1. Annual fixed cost for FY 2021-22

- 19.1.1. As per regulation 42.1 of the AERC Tarff regulations, 2018 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
- 19.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2018. These components have been discussed in detail in the following sections of the petition.

# 19.2. Return on Equity (ROE)

- 19.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital as per Regulation 33 of the Tariff Regulations, 2018.
- 19.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2018. The Petitioner submits that there is no plan of addition in Equity in FY 2021-22 for the existing plant. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 120: Projected Return on Equity capital for FY2021-22 (Rs Cr.)

| Station | <b>Particulars</b>                      | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
|         | Opening Equity                          | 55.00    | 55.00     |
|         | Closing Equity                          | 55.00    | 55.00     |
| NTPS    | Rate of Return                          | 15.50%   | 15.50%    |
|         | Return on Equity                        | 8.53     | 8.53      |
|         | Return on Equity for Effective Capacity | 3.10     | 3.10      |

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



# 19.3. Interest on Loan Capital

- 19.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 19.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY2021-22. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2021-22. The interest rate has been considered as the expected weighted average rate of interest for FY 2021-22.
- 19.3.3. The finance charges are shown separately for FY 2021-22. The table below summarizes the interest on loan and finance charges considered for period of FY 2021-22.

Table 121: Projected Interest and Finance charges for FY2021-22 for NTPS

Rs. Cr

| Station | Particulars  | 2021-22  | 2021-22   |
|---------|--|----------|-----------|
|         |  | Approved | Projected |
|         | Net Normative Opening Loan                             | 4.17     | 0.81      |
|         | Addition of normative loan during the year             | 1.78     | 1.90      |
|         | Normative Repayment during the year                    | 2.25     | 1.42      |
|         | Net Normative Closing Loan                             | 3.70     | 1.29      |
| NTPS    | Avg. Normative Loan                                    | 3.94     | 1.05      |
| 1411.5  | Interest Rate  | 10.10%   | 10.01%    |
|         | Interest on Loan Capital                               | 0.40     | 0.10      |
|         | Add: Bank Charges                                      | 0.00     | 0.00      |
|         | Net Interest on Loan Capital                           | 0.40     | 0.10      |
|         | Net Interest on Loan Capital for<br>Effective Capacity | 0.14     | 0.04      |

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

# 19.4. Depreciation

19.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has provided the principals for determination of depreciation.



19.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the Depreciation projected for FY2021-22.

Table 122: Projected Depreciation for FY2021-22 of NTPS

Rs. Cr

| Particulars               | 2021-22 |
|---------------------------|---------|
| Opening GFA               | 190.69  |
| Addition during the year  | 1.58    |
| Closing GFA               | 192.28  |
| Average GFA               | 191.49  |
| Rate of Depreciation      | 0.82%   |
| Total Depreciation        | 1.58    |
| Grant                     | 17.91   |
| Additions during the year | 2.80    |
| Closing grant             | 20.71   |
| Average grant             | 19.31   |
| Rate of Depreciation      | 0.82%   |
| Depreciation on grants    | 0.16    |
| Net Depreciation          | 1.42    |

Table 123: Summary of projected Depreciation for FY2021-22

Rs. Cr

| Station | Particulars                                   | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
|         | Depreciation                                  | 2.50     | 1.58      |
| NTPS    | Less: Depreciation on assets funded by Grants | 0.25     | 0.16      |
|         | Net Depreciation                              | 2.25     | 1.42      |
|         | Net Depreciation for Effective Capacity       | 0.82     | 0.52      |

19.4.3. APGCL prays to the Hon'ble Commission to approve the projected Depreciation for FY 2021-22 as shown above.

# 19.5. Interest on Working Capital

- 19.5.1. As per Regulation 36 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.
- 19.5.2. 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 7.00% + 3.00 % = 10.00%.
- 19.5.3. The interest on working capital considered is shown in the table below:

Table 124: Summary of Interest on working capital projected for FY2021-22

Rs. Cr

| Station | Particulars                       | 2021-22<br>Approved | 2021-22<br>Projected |
|---------|-----------------------------------|---------------------|----------------------|
|         | Fuel Cost for one month           | 4.23                | 1.82                 |
| NTPS    | O&M Expenses for one month        | 1.77                | 1.78                 |
|         | Maintenance Spares-30% of O&M     | 6.38                | 6.40                 |
|         | Receivables for two months        | 13.43               | 6.95                 |
|         | Total Working Capital Requirement | 25.82               | 16.96                |
|         | Rate of interest                  | 11.50%              | 10.00%               |
|         | Interest on Working capital       | 2.97                | 1.70                 |

19.5.4. APGCL prays to the Hon'ble Commission to approve the Interest on Working capital for FY 2021-22 as shown above.

# 19.6. Operation and Maintenance Expenses (O&M Expenses)

- 19.6.1. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 19.6.2. The Commission in its order dated 1<sup>st</sup> March 2019 had computed the normative O&M expenses for NTPS for FY2021-22.
- 19.6.3. APGCL has claimed the Normative O&M expenses for NTPS considering the escalation rate of 6.3% on the claimed Normative Expenses for NTPS for APR of FY2020-21

Table 125: Operation and Maintenance projected for FY2021-22



| Station | Approved<br>in order<br>of March<br>2019 | Approved considering Effective Installed Capacity in order of March 2019 | Amount considered for APR of FY2020-21 on Effective Installed Capacity | Effective<br>Capacity<br>considered<br>for APR for<br>FY2020-21 | Effective Capacity for Tariff Projection for FY2021- 22 | Amount<br>considered<br>for Tariff<br>for FY<br>2021-22 on<br>effective<br>capacity |
|---------|--|--|--|---|---|---|
|         | 1  | 2  | 3  | 4   | 5   | 6 = 3*<br>(1+6.3%)<br>*5/4  |
| NTPS    | 58.44                                    | 21.27  | 36.06  | 78.12   | 43.50   | 21.35   |

19.6.4. APGCL prays to the Hon'ble Commission to approve the O&M expenses for FY 2021-22 as shown above.

# 19.7. Impact of AERC (Payment of Fees etc.) Regulations, 2020

- 19.7.1. 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.
- 19.7.2. The tentative impact of the increase in the filing fees has been shown below:

| Ī | Station | 2015 Regulation                     |          | 2020 Regulation |                            | Increase in Filing Fees |               |                                     |                       |               |
|---|---------|-------------------------------------|----------|-----------------|----------------------------|-------------------------|---------------|-------------------------------------|-----------------------|---------------|
|   |         | Tariff<br>Determin<br>ation<br>Fees | APR Fees | Total<br>Fees   | Tariff Determin ation Fees | True Up<br>Fees         | Total<br>Fees | Tariff<br>Determin<br>ation<br>Fees | True Up /<br>APR Fees | Total<br>Fees |
|   | NTPS    | 0.20                                | 0.10     | 0.30            | 0.25                       | 0.15                    | 0.40          | 0.05                                | 0.05                  | 0.10          |

19.7.3. Considering the increase in the NTPS filing fees as shown above, APGCL humbly prays to the Commission to allow it to claim in the increase in the fees at actuals in FY2020-21.

## 19.8. Incentives

19.8.1. APGCL submits that the Incentives for FY 2021-22 will be claimed in True-up as per Regulations.



## 19.9. Special R&M

19.9.1. APGCL does not plan to undertake any Special R&M for NTPS in FY2021-22. The revised schedule for Overhauling will be prepared post commissioning of NRPP.

Table 126: Expenses under Special R&M

Rs. Cr

| Station     | 2021-22  | 2021-22   |
|-------------|----------|-----------|
|             | Approved | Projected |
| NTPS Unit 2 | 8.2      | -         |

# 19.10. Capacity building

- 19.10.1. The Hon'ble Commission had approved the Capacity Building expenditure at INR 0.13 Crores for FY2020-21 for NTPS in its order dated 1<sup>st</sup> March 2019.
- 19.10.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 127: Expenses under Capacity building

Rs. Cr

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
|         | Approved | Projected |
| NTPS    | 0.13     | 0.13      |

19.10.3. APGCL submits that the Other expenses like actual tax paid, prior period items etc. for FY2021-22 will be claimed in True-up of FY 2021-22 as per Regulations.

### 19.11. Non-Tariff income

- 19.11.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 19.11.2. The non-tariff income for FY2021-22 are projected same as approved by Hon'ble Commission. The same is as shown in the table below

Table 128: Station-wise Non tariff income projected for FY2021-22

Rs. Cr

| Station | 2021-22<br>Approved | 2021-22<br>Projected |
|---------|---------------------|----------------------|
| NTPS    | 7.13                | 7.13                 |

19.11.3. APGCL prays to the Hon'ble Commission to approve the Non-tariff income for FY FY2020-21 as shown above.

#### 19.12. Total Fixed Cost

- 19.12.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 19.12.2. Based on the above, the Annual fixed charges for FY2021-22 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 129: Annual Fixed charges for FY2021-22 of NTPS

| Particulars                         | 2021-22<br>Approved | 2021-22<br>Projected |
|-------------------------------------|---------------------|----------------------|
| Operation & Maintenance Expenditure | 21.27               | 21.35                |
| Increase in AERC Tariff Filing Fees | 0                   | 0.10                 |
| Interest & Finance Charges          | 0.14                | 0.04                 |
| Interest on working Capital         | 2.97                | 1.70                 |
| Depreciation                        | 0.82                | 0.52                 |
| Return on Equity                    | 3.10                | 3.10                 |
| Special R&M                         | 8.20                | 0.00                 |
| Capacity Building                   | 0.13                | 0.13                 |
| Less: Other Income                  | 7.13                | 7.13                 |
| Total Fixed Charges                 | 29.50               | 19.80                |

19.12.3. The Petitioner prays to the Hon'ble Commission to approve the fixed costs for FY 2021-22 as discussed in the tables above.



# 20. Energy Charges

### 20.1. Fuel Price and Calorific Value

20.1.1. As per Regulation 11 of the Tariff Regulations 2018, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The values of 'Calorific Value of Fuel' is considered same as considered in FY 2020-21. The value of 'Fuel Price' has been considered at the rate computed for the month of October 2020 and escalated at annual rate of 3% for Transmission charges as per agreement. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below:

Table 130: Projected GCV and Price for FY2021-22

| Station | Wt. Avg. Gross Calorific Value of Gas (kcal/SCM) | Wt. Avg. Price of Gas<br>(Rs./1000 SCM) |
|---------|--|---|
| NTPS    | 9,147.27   | 4,146.22                                |

20.1.2. The Petitioner prays to the Hon'ble Commission to approve the projected Price of Gas and GCV for NTPS for FY 2021-22 as shown in the table above.

#### 20.2. Fuel cost

20.2.1. The Commission, in the Tariff Order dated 1<sup>st</sup> March 2019 had approved the Fuel Cost for FY 2021-22. The table below shows the projected fuel cost for FY2021-22

Table 131: Fuel cost for NTPS for FY2021-22

| Particulars       | Derivation  | Unit         | 2021-22<br>Approved | 2021-22<br>Projected |
|-------------------|-------------|--------------|---------------------|----------------------|
| Gross Generation  | Α           | MU           | 173.73              | 145.21               |
| Heat Rate         | В           | kcal/kWh     | 3900.00             | 3900.00              |
| GCV of gas        | С           | kcal/SCM     | 8893.61             | 9147.27              |
| Overall Heat      | D=AxB       | G. cal.      | 677547.00           | 566330.35            |
| Gas consumption   | E=D/C       | M. SCM       | 76.18               | 61.91                |
| Price of Gas      | F           | Rs./1000 SCM | 6076.99             | 3537.22              |
| Total cost of Gas | G=ExF/10000 | Rs. Crore    | 46.30               | 21.90                |

20.2.2. The Petitioner prays to the Hon'ble Commission to approve the projected Fuel cost Price for NTPS for FY 2021-22 as shown in the table above.

# 21. Summary of submissions for Revised ARR of FY 2020-21

# 21.1. Summary

21.1.1. The Summary of the revised ARR for FY2021-22 for NTPS is shown below.

Table 132: Revised ARR for FY2021-22 for NTPS

| ARR For NTPS for Effective Capacity |                                     |          |           |  |
|-------------------------------------|-------------------------------------|----------|-----------|--|
| SI.                                 | Particulars                         | 2021-22  | 2021-22   |  |
| No                                  |                                     |          |           |  |
|                                     |                                     | Approved | Projected |  |
|                                     |                                     |          |           |  |
|                                     | POWER GENERATION (MU)               |          |           |  |
|                                     | Gross Generation                    | 173.73   | 145.21    |  |
|                                     | Net Generation                      | 165.91   | 138.68    |  |
|                                     | Auxiliary Consumption Loss %        | 4.50%    | 4.50%     |  |
|                                     |                                     |          |           |  |
| I                                   | Fixed Charges                       |          |           |  |
|                                     | Operation & Maintenance Expenditure | 21.27    | 21.35     |  |
|                                     | Increase in AERC Tariff Filing Fees | 0        | 0.10      |  |
|                                     | Interest & Finance Charges          | 0.14     | 0.04      |  |
|                                     | Interest on working Capital         | 2.97     | 1.70      |  |
|                                     | Depreciation                        | 0.82     | 0.52      |  |
|                                     | Return on Equity                    | 3.10     | 3.10      |  |
|                                     | Special R&M                         | 8.20     | 0.00      |  |
|                                     | Capacity Building                   | 0.13     | 0.13      |  |
|                                     | <u>Less</u> : Other Income          | 7.13     | 7.13      |  |
| Ш                                   | Total Fixed Charges                 | 29.50    | 19.80     |  |
| Ш                                   | Fuel Cost                           | 46.30    | 21.90     |  |
| IV                                  | Total Revenue Requirement           | 75.80    | 41.70     |  |
|                                     |                                     |          |           |  |
|                                     | Fixed Charge (Rs. / kWh)            | 1.78     | 1.43      |  |
|                                     | Energy Charge (Rs. / kWh)           | 2.79     | 1.58      |  |
|                                     | Proposed Tariff (Rs. / kWh)         | 4.57     | 3.01      |  |

# 21.2. Net Annual Revenue Requirement

21.2.1. The Net Annual Revenue Requirements for FY 2021-22 is shown in the tables below.

Table 133: Net Annual Revenue Requirements for NTPS for FY2021-22

Rs. Cr

| Particulars                            | 2021-22<br>Projected |
|--|----------------------|
| Fixed Charges including Other expenses | 19.80                |
| Fuel Cost                              | 21.90                |
| Total Revenue Requirement              | 41.70                |

## **21.3.** Tariff for NTPS for FY **2021-22**

# 21.3.1. The tariff proposed for NTPS for FY 2021-22 is as shown below

Table 134: tariff proposed for NTPS for FY 2021-22

| Particulars                      | NTPS  |
|----------------------------------|-------|
| Annual fixed charges (Rs crore)  | 19.80 |
| Monthly fixed charges (Rs crore) | 1.65  |
| Energy charge rate (Rs./ kWh)    | 1.58  |

21.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2021-22 as discussed in the tables above.

# APPEAL FOR REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2021-22 FOR LTPS

&

**DETERMINATION OF TARIFF FOR FY2021-22** 

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 and Determination of Tariff for the FY 2021-22

AND

IN THE MATTER OF

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

Petitioner

l, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November'2020 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: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



#### PRAYER FOR LTPS

# BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FILINGNO | <br> | <br> | • • • • | <br> |
|----------|------|------|---------|------|
| CASENO   | <br> | <br> |         | <br> |

#### IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement and Determination of Tariff for the FY 2021-22

# 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:

- 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.
- 2 That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- 3 That the APGCL is a generating company under the provisions laid down in Section 14 Provision 5, read with Section 131 (2) of the Electricity Act 2003.
- 4 That the LTPS is an operating gas based thermal Power Station under the APGCL in the district of Charaideo, Assam.
- 5 That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2018 on 28th June, 2018.
- 6 That the AERC, after completion of the due process, issued Order for the MYT Control Period of FY 2019-20 to FY 2021-22 on 01/03/2019.
- 7 That APGCL is now submitting the Petition for the Revised Aggregate Revenue Requirement and Determination of Tariff for LTPS for the FY 2021-22 as per the relevant Regulations.

Place: Guwahati

Date: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



# 22. Revised ARR for FY 2021-22

# 22.1. Regulatory provisions for Revised ARR

22.1.1. The Hon'ble Commission in its Tariff regulations 2018 has stated the following on Revised ARR for the control period from FY 2019-20 to FY 2021-22. 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 clauses (i), (ii), (iii), (iv) and (v) of Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1st April 2019.
- 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 1, 2019 to March 31, 2022 and for every block of three years thereafter or such other period as may be decided by the Commission.

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"

# 23. Norms of operations

# 23.1. Regulatory provisions

- 23.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2018.
- 23.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

# 23.2. Installed and Effective Capacity in FY2021-22

23.2.1. APGCL submits the following Installed & Effective Capacity for FY2020-21

Table 135: Installed & Effective Capacity for FY2020-21

| Statio<br>n | Installe<br>d<br>Capacit<br>y<br>(MW) | No.<br>of<br>Unit<br>s | Units<br>Decommissio<br>ned | Units Available for Generation & Capacity in MW | Effective Capacity |
|-------------|---------------------------------------|------------------------|-----------------------------|---|--------------------|
| LTPS        | 142.2                                 | 8                      | 1,2,3,4                     | 5,6,7(20 MW<br>Each),8 (37.20<br>MW-WHRU)       | 97.2 MW            |

# 23.3. Snapshot of performance projection for FY 2021-22

23.3.1. The following table shows the projection of performance parameters of gas based Lakwa thermal power station for FY2021-22

Table 136: Projected Operating Performance for FY2021-22 of LTPS

| LTPS  | 2021-22<br>Approved | 2021-22<br>Projected |
|---|---------------------|----------------------|
| Gross Energy in MU                          | 425.74              | 425.74               |
| Aux. Power Cons. (%)                        | 5.50%               | 5.50%                |
| Net Energy in MU                            | 402.3               | 402.3                |
| Plant Availability Factor (%)               | 50.00%              | 50.00%               |
| Plant Load Factor (%)                       | 66.00%              | 50.00%               |
| Gross Station Heat Rate on GCV (kcal / kWh) | 3200                | 3200                 |

# 23.4. Normative Annual Plant Availability Factor (NAPAF)

23.4.1. As per Regulation 47.1 of the Tariff Regulations, 2018 the Normative Plant Availability factor for recovery of full fixed charges, is 50% for FY2020-21 for LTPS. The approved and projected numbers are shown in the table below.

Table 137: Projected Availability for FY2021-22 of LTPS

| LTDC                          | 2021-22  | 2021-22   |
|-------------------------------|----------|-----------|
| LTPS                          | Approved | Projected |
| Plant Availability Factor (%) | 50.00%   | 50.00%    |

# 23.5. Normative Annual Plant Load Factor (NAPLF)

- 23.5.1. As per Regulation 47.2 of the Tariff Regulations, 2018 the Normative Plant Load factor is 66% for FY 2021-22. The Hon'ble Commission had also approved the same for LTPS for FY2021-22.
- 23.5.2. As there is shortage of gas, PLF is projected as that as normative Availability. However APGCL will try to achieve the approved PLF during FY2021-22. The actual and projected numbers are shown in the table below.

Table 138: Projected PLF for FY2021-22 of LTPS

| LTPS                  | 2021-22  | 2021-22   |  |
|-----------------------|----------|-----------|--|
| LIPS                  | Approved | Projected |  |
| Plant Load Factor (%) | 66.00%   | 50.00%    |  |

## 23.6. Gross Station Heat Rate (SHR)

23.6.1. As per Regulation 47.4, of the Tariff Regulations, 2018 the Normative Station Heat Rate, is 3200 kCal/kWh for FY 2021-22 for LTPS in Partial combined cycle mode of operation. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 139: Projected SHR for FY2021-22 of LTPS

| LTPS  | <b>2021-22</b><br>Approved | <b>2021-22</b><br>Projected |
|---|----------------------------|-----------------------------|
| Gross Station Heat Rate on GCV (kcal / kWh) | 3200.00                    | 3200.00                     |



# 23.7. Auxiliary Energy Consumption

23.7.1. As per Regulation 47.3 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption, is 5.50% for FY2021-22. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 140: Auxiliary Energy Consumption for FY2021-22 of LTPS

| LTPS                             | <b>2021-22</b><br>Approved | <b>2021-22</b><br>Projected |  |
|----------------------------------|----------------------------|-----------------------------|--|
| Auxiliary energy consumption (%) | 5.50%                      | 5.50%                       |  |

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

# 24. Fixed Cost of the Plant

#### 24.1. Annual fixed cost for FY 2021-22

- 24.1.1. As per regulation 42.1 of the AERC Tarff regulations, 2018 the following components have been considered for projecting of fixed cost under the Multi Year Tariff framework for the power plants:
  - (g) Return on Equity Capital
  - (h) Interest on Loan capital
  - (i) Depreciation
  - (j) Operation and Maintenance Expenses
  - (k) Interest on Working Capital
  - (I) Less: Non-Tariff Income
- 24.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2018. These components have been discussed in detail in the following sections of the petition.

# 24.2. Return on Equity (ROE)

- 24.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital.
- 24.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2018. The Petitioner submits that there is no plan of addition in Equity in FY 2021-22 for the existing plant. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 141: Projected Return on Equity capital for FY2021-22

Rs. Cr

| Station | Particulars                             | 2021-22  | 2021-22   |  |
|---------|---|----------|-----------|--|
|         |   | Approved | Projected |  |
| LTPS    | Opening Equity                          | 143.08   | 143.08    |  |
|         | Closing Equity                          | 143.08   | 143.08    |  |
|         | Rate of Return                          | 15.50%   | 15.50%    |  |
|         | Return on Equity                        | 22.18    | 22.18     |  |
|         | Return on Equity for Effective Capacity | 15.16    | 15.16     |  |

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



# 24.3. Interest on Loan Capital

- 24.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 24.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY2021-22. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2021-22. The interest rate has been considered as the expected weighted average rate of interest for FY 2021-22.
- 24.3.3. The finance charges are shown separately for FY 2021-22. The table below summarizes the interest on loan and finance charges considered for period of FY 2020-21.

Table 142: Projected Interest and Finance charges for FY2021-22

Rs. Cr

| Station | <b>Particulars</b>                                     | 2021-22<br>Approved | 2021-22<br>Projected |
|---------|--|---------------------|----------------------|
|         | Net Normative Opening Loan                             | 0.16                | 0.00                 |
|         | Addition of normative loan during the year             | 15.55               | 7.10                 |
|         | Normative Repayment during the year                    | 16.58               | 11.32                |
|         | Net Normative Closing Loan                             | 0.00                | 0.00                 |
| LTPS    | Avg. Normative Loan                                    | 0.08                | 0.00                 |
|         | Interest Rate  | 10.10%              | 10.01%               |
|         | Interest on Loan Capital                               | 0.01                | 0.00                 |
|         | Add: Bank Charges                                      | 0.00                | 0.00                 |
|         | Net Interest on Loan Capital                           | 0.01                | 0.00                 |
|         | Net Interest on Loan Capital for<br>Effective Capacity | 0.01                | 0.00                 |

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

## 24.4. Depreciation

24.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has provided the principals for determination of depreciation.



24.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the Depreciation projected for FY2021-22.

Table 143: Projected Depreciation for FY2020-21 of LTPS

Rs. Cr

| Particulars               | 2021-22 |
|---------------------------|---------|
| Opening GFA               | 492.76  |
| Addition during the year  | 7.16    |
| Closing GFA               | 499.91  |
| Average GFA               | 496.34  |
| Rate of Depreciation      | 2.67%   |
| Total Depreciation        | 13.24   |
| Grant                     | 70.14   |
| Additions during the year | 3.49    |
| Closing grant             | 73.63   |
| Average grant             | 71.88   |
| Rate of Depreciation      | 2.67%   |
| Depreciation on grants    | 1.92    |
| Net Depreciation          | 11.32   |

Table 144: Summary of projected Depreciation for FY2021-22

Rs. Cr

| Station | Particulars                                   | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
|         | Depreciation                                  | 19.33    | 13.24     |
| LTPS    | Less: Depreciation on assets funded by Grants | 2.75     | 1.92      |
|         | Net Depreciation                              | 16.58    | 11.32     |
|         | Net Depreciation for Effective Capacity       | 11.33    | 7.74      |

24.4.3. APGCL prays to the Hon'ble Commission to approve the projected Depreciation for FY 2021-22 as shown above.



# 24.5. Interest on Working Capital

- 24.5.1. As per Regulation 36 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.
- 24.5.2. 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 7.00% + 3.00 % = 10.00%.
- 24.5.3. The interest on working capital considered is shown in the table below:

Table 145: Summary of Interest on working capital projected for FY2021-22

Rs. Cr

| Station | Particulars                       | 2021-22  | 2021-22   |
|---------|-----------------------------------|----------|-----------|
|         |                                   | Approved | Projected |
|         | Fuel Cost for one month           | 9.65     | 5.93      |
| LTPS    | O&M Expenses for one month        | 3.64     | 3.30      |
|         | Maintenance Spares-30% of O&M     | 13.09    | 11.88     |
|         | Receivables for two months        | 33.12    | 24.55     |
|         | Total Working Capital Requirement | 59.49    | 45.67     |
|         | Rate of interest                  | 11.50%   | 10.00%    |
|         | Interest on Working capital       | 6.84     | 4.57      |

24.5.4. APGCL prays to the Hon'ble Commission to approve the Interest on Working capital for FY 2021-22 as shown above.

# 24.6. Operation and Maintenance Expenses (O&M Expenses)

- 24.6.1. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 24.6.2. The Commission in its order of March 2019 had computed the normative O&M expenses for LTPS for FY2021-22.
- 24.6.3. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 24.6.4. We submit that the Hon'ble Commission has approved the Normative Operations & Maintenance for LTPS for FY 2021-22 at Rs. 63.83 Crore in the Order of March 2019.
- 24.6.5. However, the Hon'ble Commission while approving the O&M for LTPS in the Order of March 2019 as per effective capacity for FY 2021-22 has approved Rs. 43.63 Crore
- 24.6.6. APGCL humbly prays to the Commission to approve the Normative O&M cost as per Order of March 2019 at Rs. 63.83 Crore and reduce the cost for effective capacity considering the actual effective installed capacity of 97.2 MW only while keeping the actual O&M Cost for LRPP separate for allowance.
- 24.6.7. APGCL also humbly submits to the Hon'ble Commission that is only claiming the estimated O&M expenses for LTPS and LRPP separately and not the same expenditure twice.
- 24.6.8. APGCL has claimed the Normative O&M expenses for LTPS considering the escalation rate of 6.3% on the claimed Normative Expenses for LTPS for APR of FY2020-21

Table 146: Operation and Maintenance projected for FY2021-22

Rs. Cr

| Station | Approved<br>in order<br>of March<br>2019 | Approved considering Effective Installed Capacity in order of March 2019 | Amount considered for APR of FY2020-21 on Effective Installed Capacity | Effective<br>Capacity<br>considered<br>for APR for<br>FY2020-21 | Effective<br>Capacity<br>for Tariff<br>Projection<br>for FY2021-<br>22 | Amount<br>considered<br>for Tariff<br>for FY<br>2021-22 on<br>effective<br>capacity |
|---------|--|--|--|---|--|---|
|         | 1  | 2  | 3  | 4   | 5  | 6 = 3*<br>(1+6.3%)<br>*5/4  |
| LTPS    | 63.83                                    | 43.63  | 37.26  | 97.20   | 97.20  | 39.61   |

24.6.9. APGCL prays to the Hon'ble Commission to approve the O&M expenses for FY 2021-22 as shown above.



# 24.7. Impact of AERC (Payment of Fees etc.) Regulations, 2020

- 24.7.1. 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.
- 24.7.2. The tentative impact of the increase in the filing fees has been shown below:

| Station | 20                                  | 15 Regulation | on 20         |                            | 20 Regulation   | on            | Increase in Filing F                |                       | Fees          |
|---------|-------------------------------------|---------------|---------------|----------------------------|-----------------|---------------|-------------------------------------|-----------------------|---------------|
|         | Tariff<br>Determin<br>ation<br>Fees | APR Fees      | Total<br>Fees | Tariff Determin ation Fees | True Up<br>Fees | Total<br>Fees | Tariff<br>Determin<br>ation<br>Fees | True Up /<br>APR Fees | Total<br>Fees |
| LTPS    | 0.20                                | 0.10          | 0.30          | 0.25                       | 0.15            | 0.40          | 0.05                                | 0.05                  | 0.10          |

24.7.3. Considering the increase in the LTPS filing fees as shown above, APGCL humbly prays to the Commission to allow it to claim in the increase in the fees at actuals in FY2021-22

### 24.8. Incentives

24.8.1. APGCL submits that the Incentives for FY 2021-22 will be claimed in True-up as per Regulations.

## 24.9. Special R&M

24.9.1. APGCL plans to undertake Special R&M for Unit 7 of LTPS in FY2021-22. The overhauling of Unit 7 was planned in FY2021-22 but had to be shifted to FY2021-22. Further APGCL's planned Overhauling of Unit 6 of LTPS will be shifted to FY2022-23. APGCL has planned to undertake overhauling of Gas Compressor of GC6 of LTPS which will improve its performance. APGCL prays to the Hon'ble Commission to approve the revised Special R&M plan as below

| SI.<br>No. | Work Name                                      | Approved | Claim for<br>FY21-22 | Remarks  |
|------------|--|----------|----------------------|--|
| 1          | Overhauling of<br>LTPS Unit -7 in<br>FY2020-21 | 0.00     | 15.00                | The overhauling has been shifted to FY2021-22. Thus the amount for Special R&M Rs. 15 Cr approved for FY20-21 is being claimed in FY2021-22. |
| 2          | Overhauling of LTPS Unit -6 in FY2022-23       | 15.00    | 0.00                 | The overhauling plan for LTPS Unit 6 will be revised in FY2021-22  |



| SI.<br>No. | Work Name  | Approved | Claim for<br>FY21-22 | Remarks  |
|------------|--|----------|----------------------|--|
| 3          | Overhauling of<br>Gas Compressor<br>of GC #6 of LTPS |          | 3.00                 | APGCL will be undertaking the overhauling of Gas Compressor on priority basis. The order for the Overhauling is expected to be completed in FY2020-21 with the works being undertaken in FY2021-22 The overhauling is expected to reduce the auxiliary consumption which will help the operational performance of the plant. |

Table 147: Expenses under Special R&M

Rs. Cr

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
|         | Approved | Projected |
| LTPS    | 15.00    | 18.00     |

# 24.10. Capacity building

- 24.10.1. The Hon'ble Commission had approved the Capacity Building expenditure at INR 0.13 Crores for FY2021-22 for LTPS in its order dated 1<sup>st</sup> March 2019.
- 24.10.2. The below table shows the approved and projected expenditure for Capacity Building.

Table 148: Expenses under Capacity building

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
|         | Approved | Projected |
| LTPS    | 0.13     | 0.13      |



### 24.11. Non-Tariff income

- 24.11.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 24.11.2. The non-tariff income for FY2021-22 are projected same as approved by Hon'ble Commission. The same is as shown in the table below

Table 149: Station-wise Non tariff income projected for FY2021-22

Rs. Cr

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
| Station | Approved | Projected |
| LTPS    | 9.22     | 9.22      |

24.11.3. APGCL prays to the Hon'ble Commission to approve the Non-tariff income for FY 2021-22 as shown above.

## 24.12. Total Fixed Cost

- 24.12.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 24.12.2. Based on the above, the Annual fixed charges for FY 2021-22 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 150: Annual Fixed charges for FY2021-22 of LTPS

| Particulars                         | 2021-22  | 2021-22   |
|-------------------------------------|----------|-----------|
|                                     | Approved | Projected |
| Operation & Maintenance             |          |           |
| Expenditure                         | 43.63    | 39.61     |
| Increase in AERC Tariff Filing Fees | 0        | 0.10      |
| Interest & Finance Charges          | 0.01     | 0.00      |
| Interest on working Capital         | 6.84     | 4.57      |
| Depreciation                        | 11.33    | 7.74      |
| Return on Equity                    | 15.16    | 15.16     |
| Special R&M                         | 15.00    | 18.00     |
| Capacity Building                   | 0.13     | 0.13      |



| Particulars                | 2021-22  | 2021-22   |
|----------------------------|----------|-----------|
|                            | Approved | Projected |
| Less: Other Income         | 9.22     | 9.22      |
| <b>Total Fixed Charges</b> | 82.88    | 76.09     |

24.12.3. The Petitioner prays to the Hon'ble Commission to approve the fixed costs for FY 2021-22 as discussed in the tables above.

# 25. Energy Charges

## 25.1. Fuel Price and Calorific Value

25.1.1. As per Regulation 11 of the Tariff Regulations 2018, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The values of 'Calorific Value of Fuel' is considered same as considered in FY 2020-21. The value of 'Fuel Price' has been considered at the rate computed for the month of October 2020 and escalated at annual rate of 3% for Transmission charges as per agreement. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below:

Table 151: Projected GCV and Price for FY2021-22

|      | Station | Wt. Avg. Gross Calorific Value of Gas (kcal/SCM) | Wt. Avg. Price of<br>Gas<br>(Rs./1000 SCM) |
|------|---------|--|--|
| LTPS |         | 9,419.27   | 4923.31                                    |

25.1.2. The Petitioner prays to the Hon'ble Commission to approve the projected Price of Gas and GCV for LTPS for FY 2020-21 as shown in the table above.

## 25.2. Fuel cost

25.2.1. The Commission, in the Tariff Order dated 1<sup>st</sup> March 2019 had approved the Fuel Cost for FY 2021-22. The table below shows the projected fuel cost for FY2021-22

Table 152: Fuel cost for LTPS for FY2021-22

| Particulars       | Derivation  | Unit         | 2021-22<br>Approved | 2021-22<br>Projected |
|-------------------|-------------|--------------|---------------------|----------------------|
| Gross Generation  | Α           | MU           | 425.74              | 425.74               |
| Heat Rate         | В           | kcal/kWh     | 3200.00             | 3200.00              |
| GCV of gas        | С           | kcal/SCM     | 9126.42             | 9419.27              |
| Overall Heat      | D=AxB       | G. cal.      | 1362368.00          | 1362368.00           |
| Gas consumption   | E=D/C       | M. SCM       | 149.28              | 144.64               |
| Price of Gas      | F           | Rs./1000 SCM | 7758.11             | 4923.31              |
| Total cost of Gas | G=ExF/10000 | Rs. Crore    | 115.81              | 71.21                |

25.2.2. The Petitioner prays to the Hon'ble Commission to approve the projected Fuel cost Price for LTPS for FY 2021-22 as shown in the table above.

# 26. Summary of submissions for Revised ARR of FY2021-22

## 26.1. Summary

26.1.1. The summary of the Revised ARR for LTPS for FY2021-22 is as shown below.

Table 153: Revised ARR for FY2021-22 For LTPS

Rs. Cr

|     | ARR For LTPS for Effective Capacity |          |           |  |  |  |
|-----|-------------------------------------|----------|-----------|--|--|--|
| SI. | Particulars                         | 2021-22  | 2021-22   |  |  |  |
| No  |                                     |          |           |  |  |  |
|     |                                     | Approved | Projected |  |  |  |
|     |                                     |          |           |  |  |  |
|     | POWER GENERATION (MU)               | _        | _         |  |  |  |
|     | Gross Generation                    | 425.74   | 425.74    |  |  |  |
|     | Net Generation                      | 402.32   | 402.32    |  |  |  |
|     | Auxiliary Consumption Loss %        | 5.50%    | 5.50%     |  |  |  |
|     |                                     |          |           |  |  |  |
| ı   | Fixed Charges                       |          |           |  |  |  |
|     | Operation & Maintenance Expenditure | 43.63    | 39.61     |  |  |  |
|     | Increase in AERC Tariff Filing Fees | 0        | 0.10      |  |  |  |
|     | Interest & Finance Charges          | 0.01     | 0.00      |  |  |  |
|     | Interest on working Capital         | 6.84     | 4.57      |  |  |  |
|     | Depreciation                        | 11.33    | 7.74      |  |  |  |
|     | Return on Equity                    | 15.16    | 15.16     |  |  |  |
|     | Special R&M                         | 15.00    | 18.00     |  |  |  |
|     | Capacity Building                   | 0.13     | 0.13      |  |  |  |
|     | Less: Other Income                  | 9.22     | 9.22      |  |  |  |
| Ш   | Total Fixed Charges                 | 82.88    | 76.09     |  |  |  |
| Ш   | Fuel Cost                           | 115.81   | 71.21     |  |  |  |
| IV  | Total Revenue Requirement           | 198.70   | 147.30    |  |  |  |
|     |                                     |          |           |  |  |  |
|     | Fixed Charge (Rs. / kWh)            | 2.06     | 1.89      |  |  |  |
|     | Energy Charge (Rs. / kWh)           | 2.88     | 1.77      |  |  |  |
|     | Proposed Tariff (Rs. / kWh)         | 4.94     | 3.66      |  |  |  |

## 26.2. Net Annual Revenue Requirement

26.2.1. The Net Annual Revenue Requirements for FY 2021-22 are as shown in the tables below.

Table 154: Net Annual Revenue Requirements for LTPS for FY2021-22

Rs. Cr

| Particulars               | 2021-22<br>Projected |
|---------------------------|----------------------|
| Fixed Charges             | 76.09                |
| Fuel Cost                 | 71.21                |
| Total Revenue Requirement | 147.30               |

## **26.3.** Tariff for LTPS for FY **2021-22**

26.3.1. The tariff proposed for LTPS for FY 2021-22 is as shown below Table 155: tariff proposed for LTPS for FY 2020-21

| Particulars                      | LTPS  |
|----------------------------------|-------|
| Annual fixed charges (Rs crore)  | 76.09 |
| Monthly fixed charges (Rs crore) | 6.34  |
| Energy charge rate (Rs./ kWh)    | 1.77  |

26.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2021-22 as discussed in the table above.

# APPEAL FOR REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2021-22 FOR KLHEP & DETERMINATION OF TARIFF FOR FY 2021-22 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 and Determination of Tariff for the FY 2021-22

AND

IN THE MATTER OF

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

Petitioner

I, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November'2020 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: 27th November'2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



## PRAYER FOR KLHEP

## BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FILINGNO |  |
|----------|--|
| CASENO   |  |

#### IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement and Determination of Tariff for the FY 2021-22

## 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:

- 1 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.
- 2 That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- 3 That the APGCL is a generating company under the provisions laid down in Section 14 Proviso 5, read with Section 131 (2) of the Electricity Act 2003.
- 4 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.
- 5 That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2018 on 28th June, 2018.
- 6 That the AERC, after completion of the due process, issued Tariff Order for KLHEP for the FY 2020-21 on 07/03/2020.
- 7 That APGCL is now submitting the Petition for the Revised Aggregate Revenue Requirement and Determination of Tariff for KLHEP for the FY 2021-22 as per the relevant Regulations.

Place: Guwahati

Deponent

Date: 27th November' 2020

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



## 27. Revised ARR for FY 2021-22

## 27.1. Regulatory provisions for Revised ARR

27.1.1. The Hon'ble Commission in its Tariff regulations 2018 has stated the following on Revised ARR for the control period from FY 2019-20 to FY 2021-22. 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 clauses (i), (ii), (iii), (iv) and (v) of Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1<sup>st</sup> April 2019.
- 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 1, 2019 to March 31, 2022 and for every block of three years thereafter or such other period as may be decided by the Commission.

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"

# 28. Norms of operations

## 28.1. Regulatory provisions

- 28.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2018.
- 28.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

## 28.2. Installed and Effective Capacity in FY2021-22

28.2.1. APGCL submits the following Installed & Effective Capacity for FY2021-22

Table 156: Installed & Effective Capacity for FY2020-21

| Statio<br>n | Installe<br>d<br>Capacit<br>y<br>(MW) | of | Units<br>Decommissio<br>ned | Units Available for Generation & Capacity in MW | Effective Capacity |
|-------------|---------------------------------------|----|-----------------------------|---|--------------------|
| KLHEP       | 100                                   | 2  | 0                           | 1 (50), 2(50)                                   | 100 MW             |

## 28.3. Snapshot of performance projection for FY 2021-22

28.3.1. The following table shows the projection of performance parameters of Karbi Langpi hydro electric power station for FY 20201-22. The planned overhauling of the Unit II of KLHEP has been scheduled in FY2021-22. The dates for the overhauling will be finalized and shared during the APR filing of KLHEP for FY2021-22. APGCL has thus projected the performance parameters in line with the approved parameters by the Hon'ble Commission in its order dated 1<sup>st</sup> March 2019.

Table 157: Projected Operating Performance for FY2021-22 of KLHEP

| KLHEP                         | 2021-22  | 2021-22   |  |
|-------------------------------|----------|-----------|--|
| KLHEP                         | Approved | Projected |  |
| Gross Energy in MU            | 390.00   | 390.00    |  |
| Aux. Power Cons. (%)          | 0.5%     | 0.5%      |  |
| Net Energy in MU              | 388.05   | 388.05    |  |
| Plant Availability Factor (%) | 85.00%   | 85.00%    |  |
| Plant Load Factor (%)         | 44.50%   | 44.50%    |  |

## 28.4. Normative Annual Plant Availability Factor (NAPAF)

28.4.1. As per Regulation 49.1, of the Tariff Regulations, 2018, the normative Plant Availability factor for KLHEP as 85% for FY2021-22. The approved and projected numbers are shown in the table below.

Table 158: Projected Availability for FY2021-22 of KLHEP

| KLHEP                         | 2021-22  | 2021-22   |
|-------------------------------|----------|-----------|
| KLHEP                         | Approved | Projected |
| Plant Availability Factor (%) | 85.00%   | 85.00%    |

## 28.5. Normative Annual Plant Load Factor (NAPLF)

28.5.1. As per Regulation 49.1 of the Tariff Regulations, 2018, normative PLF for KLHEP as 44.5%. The Hon'ble Commission had also approved the same for KLHEP for FY2021-22. The approved and projected numbers are shown in the table below.

Table 159: Projected PLF for FY201-22 of KLHEP

| KLHEP                 | 2021-22  | 2021-22   |
|-----------------------|----------|-----------|
| KLHEP                 | Approved | Projected |
| Plant Load Factor (%) | 44.50%   | 44.50%    |

## 28.6. Auxiliary Energy Consumption

28.6.1. As per Regulation 49.1 of the Tariff Regulations, 2018 the Normative Auxiliary energy consumption, is 0.50% for KLHEP. The same has been considered for projection. The approved and projected numbers are shown in the table below.

Table 160: Auxiliary Energy Consumption for FY2021-22 of KLHEP

| KLHEP                            | 2021-22<br>Approved | 2021-22<br>Projected |
|----------------------------------|---------------------|----------------------|
| Auxiliary energy consumption (%) | 0.50%               | 0.50%                |

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

## 29. Fixed Cost of the Plant

## 29.1. Annual fixed cost for FY 2020-21

- 29.1.1. As per regulation 42.1 of the AERC Tarff regulations, 2018 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
- 29.1.2. For the computation of the fixed components, the Petitioner has considered the principles provided in the Tariff Regulations, 2018. These components have been discussed in detail in the following sections of the petition.

## 29.2. Return on Equity (ROE)

- 29.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital.
- 29.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2018. The Petitioner submits that there is no plan of addition in Equity in FY 2021-22 for the existing plant. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 161: Projected Return on Equity capital for FY2021-22

Rs.Cr

| Station | Particulars                             | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
| KLHEP   | Opening Equity                          | 68.65    | 68.65     |
|         | Closing Equity                          | 68.65    | 68.65     |
|         | Rate of Return                          | 15.50%   | 15.50%    |
|         | Return on Equity                        | 10.64    | 10.64     |
|         | Return on Equity for Effective Capacity | 10.64    | 10.64     |

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



## 29.3. Interest on Loan Capital

- 29.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 29.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY2021-22. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2021-22. The interest rate has been considered as the expected weighted average rate of interest for FY 2021-22.
- 29.3.3. The finance charges are shown separately for FY 2021-22. The table below summarizes the interest on loan and finance charges considered for period of FY 2021-22.

Table 162: Projected Interest and Finance charges for FY2021-22

Rs.Cr

| Station | Particulars  | 2021-22  | 2021-22   |
|---------|--|----------|-----------|
|         |  | Approved | Projected |
|         | Net Normative Opening Loan                             | 194.87   | 191.14    |
|         | Addition of normative loan during the year             | 2.17     | 2.10      |
|         | Normative Repayment during the year                    | 22.52    | 20.44     |
|         | Net Normative Closing Loan                             | 174.51   | 172.79    |
| KLHEP   | Avg. Normative Loan                                    | 184.69   | 181.96    |
|         | Interest Rate  | 10.10%   | 10.01%    |
|         | Interest on Loan Capital                               | 18.66    | 18.21     |
|         | Add: Bank Charges                                      | 0.00     | 0.00      |
|         | Net Interest on Loan Capital                           | 18.66    | 18.21     |
|         | Net Interest on Loan Capital for<br>Effective Capacity | 18.66    | 18.21     |

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

## 29.4. Depreciation

29.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has provided the principals for determination of depreciation.



29.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the Depreciation projected for FY2021-22.

Table 163: Projected Depreciation for FY2021-22 of KLHEP

Rs.

Cr

| Particulars               | 2021-22 |
|---------------------------|---------|
| Opening GFA               | 530.62  |
| Addition during the year  | 1.70    |
| Closing GFA               | 532.32  |
| Average GFA               | 531.47  |
| Rate of Depreciation      | 4.35%   |
| Total Depreciation        | 23.11   |
| Grant                     | 59.43   |
| Additions during the year | 3.59    |
| Closing grant             | 63.02   |
| Average grant             | 61.23   |
| Rate of Depreciation      | 4.35%   |
| Depreciation on grants    | 2.66    |
| Net Depreciation          | 20.44   |

Table 164: Summary of projected Depreciation for FY2021-22

Rs.

Cr

| Station | Particulars                                   | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
| KLHEP   | Depreciation                                  | 25.62    | 23.11     |
|         | Less: Depreciation on assets funded by Grants | 3.10     | 2.66      |
|         | Net Depreciation                              | 22.52    | 20.44     |
|         | Net Depreciation for Effective Capacity       | 22.52    | 20.44     |

29.4.3. APGCL prays to the Hon'ble Commission to approve the projected Depreciation for FY 2021-22 as shown above.



## 29.5. Interest on Working Capital

- 29.5.1. As per Regulation 36 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.
- 29.5.2. 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 7.00% + 3.00 % = 10%.
- 29.5.3. The interest on working capital considered is shown in the table below:

Table 165: Summary of Interest on working capital projected for FY2020-21

Rs. Cr

| Station | Particulars                       | 2021-22  | 2021-22   |
|---------|-----------------------------------|----------|-----------|
|         |                                   | Approved | Projected |
|         | O&M Expenses for one month        | 2.68     | 2.69      |
| KLHEP   | Maintenance Spares-30% of O&M     | 4.82     | 9.68      |
|         | Receivables for two months        | 13.46    | 15.11     |
|         | Total Working Capital Requirement | 20.96    | 27.48     |
|         | Rate of interest                  | 11.50%   | 10.00%    |
|         | Interest on Working capital       | 2.41     | 2.75      |

29.5.4. APGCL prays to the Hon'ble Commission to approve the Interest on Working capital for FY 2020-21 as shown above. The

## 29.6. Operation and Maintenance Expenses (O&M Expenses)

- 29.6.1. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 29.6.2. The Commission in its order dated 1<sup>st</sup> March 2019 had computed the normative O&M expenses for KLHEP for FY2021-22.
- 29.6.3. APGCL has claimed the Normative O&M expenses for KLHEP considering the escalation rate of 6.3% on the claimed Normative Expenses for KLHEP for APR of FY2020-21

Table 166: Operation and Maintenance projected for FY2021-22

Rs. Cr



| Station | Approved<br>in order<br>of March<br>2019 | Approved considering Effective Installed Capacity in order of March 2019 | Amount considered for APR of FY2020-21 on Effective Installed Capacity | Effective<br>Capacity<br>considered<br>for APR for<br>FY2020-21 | Effective Capacity for Tariff Projection for FY2021- 22 | Amount<br>considered<br>for Tariff<br>for FY<br>2021-22 on<br>effective<br>capacity |
|---------|--|--|--|---|---|---|
|         | 1  | 2  | 3  | 4   | 5   | 6 = 3*<br>(1+6.3%)<br>*5/4  |
| KLHEP   | 32.14                                    | 32.14  | 30.34  | 100.00  | 100.00  | 32.25   |

29.6.4. APGCL prays to the Hon'ble Commission to approve the O&M expenses for FY 2021-22 as shown above.

## 29.7. Incentives

29.7.1. APGCL submits that the Incentives for FY 2021-22 will be claimed in True-up as per Regulations.

## 29.8. Special R&M

29.8.1. APGCL's plans to undertake Special R&M for KLHEP Unit 2 in FY2021-22. As mentioned in APR Petition for FY2020-21, the planned Special R&M for Unit 2 was shifted from FY2020-21 to FY2021-22, the same has been considered for FY2020-21.

| SI.<br>No. | Work Name  | Approved | Claim for<br>FY20-21 | Remarks  |
|------------|--|----------|----------------------|--|
| 1          | Capital Overhauling of 50MW Francis type Fuji make Generator Turbine Unit-II - KLHEP | 0        | 12                   | "Due to the delay in the overhauling of KLHEP Unit 1, the Overhauling of Unit 2 will be undertaken in FY2021-22 with the revised schedule to be provided in the APR for FY2021-22. However the order for the Work is expected to be given in FY20-21.  Out of the total Rs. 27.1 Crore approved by the Hon'ble Commission APGCL had already received Rs 15.10 Crores from the Government of Assam. Hence we are claiming the remaining approved amount for KLHEP Unit II overhauling for FY20-21 |

Table 167: Expenses under Special R&M

Cr

| Station | FY2021-22 | FY2021-22 |
|---------|-----------|-----------|
|         | Approved  | Projected |
| KLHEP   | 0         | 12.00     |

## 29.9. Capacity building

- 29.9.1. The Hon'ble Commission had approved the Capacity Building expenditure at INR 0.13 Crores for FY2021-22 for KLHEP in its order dated 1<sup>st</sup> March 2019.
- 29.9.2. APGCL prays to the commission to approve INR 0.13 Crores for capacity building of employees of KLHEP for FY2021-22

Table 168: Expenses under Capacity building

Rs.

Rs.

Cr

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
|         | Approved | Projected |
| KLHEP   | 0.13     | 0.13      |

29.9.3. APGCL submits that the Other expenses like actual tax paid, prior period items etc. for FY 2021-22 will be claimed in True-up of FY 2021-22 as per Regulations.

## 29.10. Non-Tariff income

- 29.10.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 29.10.2. The non-tariff income for FY2021-22 are projected same as approved by Hon'ble Commission. The same is as shown in the table below

Table 169: Station-wise Non tariff income projected for FY2021-22

Rs.

Cr

| Station | 2021-22  | 2021-22   |
|---------|----------|-----------|
| Station | Approved | Projected |
| KLHEP   | 5.75     | 5.75      |



29.10.3. APGCL prays to the Hon'ble Commission to approve the Non-tariff income for FY 2021-22 as shown above.

## 29.11. Total Fixed Cost

- 29.11.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 29.11.2. Based on the above, the Annual fixed charges for FY 2020-21 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 170: Annual Fixed charges for FY2020-21 of KLHEP

Rs.Cr

| Particulars                 | 2021-22<br>Approved | 2021-22<br>Projected |
|-----------------------------|---------------------|----------------------|
| Operation & Maintenance     |                     |                      |
| Expenditure                 | 32.14               | 32.25                |
| Interest & Finance Charges  | 18.66               | 18.21                |
| Interest on working Capital | 2.41                | 2.75                 |
| Depreciation                | 22.52               | 20.44                |
| Return on Equity            | 10.64               | 10.64                |
| Special R&M                 | 0.00                | 12.00                |
| Capacity Building           | 0.13                | 0.13                 |
| <u>Less</u> : Other Income  | 5.75                | 5.75                 |
| Total Fixed Charges         | 80.76               | 90.69                |

29.11.3. The Petitioner prays to the Hon'ble Commission to approve the fixed costs for FY 2021-22 as discussed in the tables above.

# 30. Summary of submissions for Revised ARR of FY2021-22

## 30.1. Summary

30.1.1. The summary of the Revised ARR For KLHEP for FY2021-22 is shown below *Table 171: Revised ARR for FY2021-22 For KLHEP* 

Rs. Cr

|     | ARR For KLHEP for Effective Capac   | city     |           |
|-----|-------------------------------------|----------|-----------|
| SI. | Particulars                         | 2021-22  | 2021-22   |
| No  |                                     |          |           |
|     |                                     | Approved | Projected |
|     |                                     |          |           |
|     | POWER GENERATION (MU)               |          |           |
|     | Gross Generation                    | 390.00   | 390.00    |
|     | Net Generation                      | 388.05   | 388.05    |
|     | Auxiliary Consumption Loss %        | 0.50%    | 0.50%     |
|     |                                     |          |           |
| ı   | Fixed Charges                       |          |           |
|     | Operation & Maintenance Expenditure | 32.14    | 32.25     |
|     | Interest & Finance Charges          | 18.66    | 18.21     |
|     | Interest on working Capital         | 2.41     | 2.75      |
|     | Depreciation                        | 22.52    | 20.44     |
|     | Return on Equity                    | 10.64    | 10.64     |
|     | Special R&M                         | 0.00     | 12.00     |
|     | Capacity Building                   | 0.13     | 0.13      |
|     | Less: Other Income                  | 5.75     | 5.75      |
| II  | Total Fixed Charges                 | 80.76    | 90.69     |
| Ш   | Fuel Cost                           | 0        | 0         |
| IV  | Total Revenue Requirement           | 80.76    | 90.69     |
|     |                                     |          |           |
| V   | Fixed Charge (Rs. / kWh)            | 2.08     | 2.34      |
| VI  | Energy Charge (Rs. / kWh)           | 0.00     | 0.00      |
| VII | Proposed Tariff (Rs. / kWh)         | 2.08     | 2.34      |

## 30.2. Net Annual Revenue Requirement

30.2.1. The Net Annual Revenue Requirement for FY 2021-22 is as shown in the tables below.

Table 172: Net Annual Revenue Requirements for KLHEP for FY2020-21

Rs.

Cr

| Particulars               | 2021-22<br>Projected |
|---------------------------|----------------------|
| Fixed Charges             | 90.69                |
| Fuel Cost                 | 0                    |
| Total Revenue Requirement | 90.69                |

## 30.3. Tariff for KLHEP for FY 2021-22

# 30.3.1. The tariff proposed for KLHEP for FY 2021-22 is as shown below Table 173: Tariff proposed for KLHEP for FY 2020-21

| Particulars                       | KLHEP |
|-----------------------------------|-------|
| Total Fixed charges (Rs crore)    | 90.69 |
| Total Capacity charges (Rs crore) | 45.34 |
| Energy charge rate (Rs./ kWh)     | 1.17  |

30.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2021-22 as discussed in the tables above.

# APPEAL FOR REVISED AGGREGATE REVENUE REQUIREMENT FOR FY 2021-22 FOR LRPP

&

**DETERMINATION OF TARIFF FOR FY2021-22** 

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 and Determination of Tariff for the FY 2021-22

AND

IN THE MATTER OF

Lakwa Replacement Power Plant, Assam Power Generation Corporation Limited, Maibella, Charaideo, Saffry-785689

Petitioner

I, Sri Ashok Kalita, son of Late Sarbeswar Kalita, age 59 years, residing at Narengi, Guwahati-781026, 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 27<sup>th</sup> November'2020 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: 27<sup>th</sup> November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



### PRAYER FOR LRPP

# BEFORE THE HON'BLE ASSAM ELECTRICITY REGULATORY COMMISSION

| FILINGNO |  |
|----------|--|
| CASENO   |  |

#### IN THE MATTER OF:

Petition for Submission of Revised Aggregate Revenue Requirement and Determination of Tariff for the FY 2021-22

### 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:

- 1 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.
- 2 That the APGCL is a company incorporated with the main object of generation of electricity in the state of Assam.
- 3 That the APGCL is a generating company under the provisions laid down in Section 14 Proviso 5, read with Section 131 (2) of the Electricity Act 2003.
- 4 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.
- 5 That the Hon'ble Commission notified the AERC (Terms and Conditions for determination of Multi Year Tariff) Regulations, 2018 on 28th June, 2018.
- That the AERC, after completion of the due process, issued Tariff Order for LRPP for the FY 2020-21 on 07/03/2020.
- 7 That APGCL is now submitting the Petition for the Revised Aggregate Revenue Requirement and Determination of Tariff for LRPP for the FY 2021-22 as per the relevant Regulations.

Place: Guwahati

Date: 27th November' 2020

Deponent

(Ashok Kalita) Chief General Manager (Gen), Assam Power Generation Corporation Ltd.



## 31. Revised ARR for FY 2021-22

31.1.1. The Hon'ble Commission in its Tariff regulations 2018 has stated the following on Revised ARR for the control period from FY 2019-20 to FY 2021-22. 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 clauses (i), (ii), (iii), (iv) and (v) of Regulation 3.3 above under a Multi-Year Tariff framework with effect from 1<sup>st</sup> April 2019.
- 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;
- A detailed Capital Investment Plan for each year of the Control Period, shall be submitted by the applicant for the Commission's approval;
- The applicant shall submit operating norms and trajectories of performance (xviii) 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 1, 2019 to March 31, 2022 and for every block of three years thereafter or such other period as may be decided by the Commission.

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"

# 32. Norms of operations

## 32.1. Regulatory provisions

- 32.1.1. The Hon'ble Commission had set norms of operations under Tariff Regulations 2018.
- 32.1.2. The projected performance vis-a-vis norms of operations set is discussed below:

## 32.2. Installed and Effective Capacity in FY2021-22

32.2.1. APGCL submits the following Installed & Effective Capacity for FY2021-22

Table 174: Installed & Effective Capacity for FY2021-22

| Statio<br>n | Installe<br>d<br>Capacit<br>Y<br>(MW) | of | Units<br>Decommissio<br>ned | Units Available for Generation & Capacity in MW | Effective Capacity |
|-------------|---------------------------------------|----|-----------------------------|---|--------------------|
| LRPP        | 69.755                                | 7  | 0                           | 1-7 (9.965 each)                                | 69.755 MW          |

## 32.3. Snapshot of performance projection for FY 2021-22

32.3.1. The following table shows the projection of performance parameters of gas based LRPP for FY 2021-22

Table 175: Projected Operating Performance for FY2021-22 of LRPP

| LRPP  | 2021-22<br>Approved | 2021-22<br>Projected |
|---|---------------------|----------------------|
| 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) | 2150.00             | 2150                 |

## 32.4. Normative Annual Plant Availability Factor (NAPAF)

32.4.1. The Hon'ble Commission had approved 85% for NAPAF for LRPP for FY2021-22 in its order dated 1<sup>st</sup> March 2019. The approved and projected numbers are shown in the table below.

Table 176: Projected Availability for FY2021-22 of LRPP

| LRPP                          | 2021-22  | 2021-22   |
|-------------------------------|----------|-----------|
| LRPP                          | Approved | Projected |
| Plant Availability Factor (%) | 85.00%   | 85.00%    |

## 32.5. Normative Annual Plant Load Factor (NAPLF)

32.5.1. The Hon'ble Commission had approved 90% for NAPLF for LRPP for FY2020-21 in its order dated 1<sup>st</sup> March 2019. APGCL has projected the PLF at same level of availability. However we will try to achieve the approved PLF for the plant during the year. The approved and projected numbers are shown in the table below.

Table 177: Projected PLF for FY2021-22 of LRPP

| LDDD                  | 2021-22  | 2021-22   |
|-----------------------|----------|-----------|
| LRPP                  | Approved | Projected |
| Plant Load Factor (%) | 90.00%   | 90.00%    |

## **32.6.** Gross Station Heat Rate (SHR)

32.6.1. The Hon'ble Commission had approved GSHR of 2150 kCal/kWh for LRPP for FY2020-21 in its order dated 1<sup>st</sup> March 2019. The approved and projected numbers are shown in the table below.

Table 178: Projected SHR for FY2021-22 of LRPP

| LRPP  | 2021-22<br>Approved | 2021-22<br>Projected |
|---|---------------------|----------------------|
| Gross Station Heat Rate on GCV (kcal / kWh) | 2150.00             | 2150.00              |

## 32.7. Auxiliary Energy Consumption

32.7.1. The Hon'ble Commission had approved 3.5% for auxiliary consumption for LRPP for FY2020-21 in its order dated 1<sup>st</sup> March 2019. The approved and projected numbers are shown in the table below.

Table 179: Auxiliary Energy Consumption for FY2020-21 of LRPP

| LRPP                             | 2021-22 2021-22 |           |  |
|----------------------------------|-----------------|-----------|--|
|                                  | Approved        | Projected |  |
| Auxiliary energy consumption (%) | 3.50%           | 3.50%     |  |



## 33. Fixed Cost of the Plant

## 33.1. Annual fixed cost for FY 2020-21

- 33.1.1. As per regulation 42.1 of the AERC Tarff regulations, 2018 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, 2018. These components have been discussed in detail in the following sections of the petition.

## 33.2. Return on Equity (ROE)

- 33.2.1. The Hon'ble Commission in its regulation has considered the pre-tax return on equity at 15.5% on equity capital.
- 33.2.2. APGCL has projected the Return on Equity (RoE) at a rate of 15.5% in accordance with the Tariff Regulations, 2018. Further, it is submitted that the actual tax paid would be claimed separately during True-up of respective years.

Table 180: Projected Return on Equity capital for FY2021-22

| Station | Particulars                             | 2021-22  | 2021-22   |
|---------|---|----------|-----------|
|         |   | Approved | Projected |
|         | Opening Equity                          | 16.10    | 15.73     |
|         | Closing Equity                          | 16.10    | 15.73     |
| LRPP    | Rate of Return                          | 15.50%   | 15.50%    |
|         | Return on Equity                        | 2.50     | 2.44      |
|         | Return on Equity for Effective Capacity | 2.50     | 2.44      |

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



## 33.3. Interest on Loan Capital

- 33.3.1. As per Regulation 34 of the Tariff Regulations, 2018, 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.
- 33.3.2. In view of the above, the Petitioner has projected the Interest on long term Loan on normative basis for FY2021-22. The Petitioner has considered normative loan portfolio and the repayment shown is considered equal to the depreciation for FY 2021-22. The interest rate has been considered as the expected weighted average rate of interest for FY 2021-22.
- 33.3.3. The finance charges are shown separately for FY 2021-22. The table below summarizes the interest on loan and finance charges considered for period of FY 2021-22.

Table 181: Projected Interest and Finance charges for FY2021-22

| Station | <b>Particulars</b>                                     | 2021-22  | 2021-22   |
|---------|--|----------|-----------|
|         |  | Approved | Projected |
|         | Net Normative Opening Loan                             | 29.30    | 33.57     |
|         | Addition of normative loan during the year             | 0.00     | 0.00      |
|         | Normative Repayment during the year                    | 2.75     | 2.63      |
|         | Net Normative Closing Loan                             | 26.55    | 30.94     |
| LRPP    | Avg. Normative Loan                                    | 27.93    | 32.26     |
|         | Interest Rate  | 10.10%   | 10.01%    |
|         | Interest on Loan Capital                               | 2.82     | 3.23      |
|         | Add: Bank Charges                                      | 0.00     | 0.00      |
|         | Net Interest on Loan Capital                           | 2.82     | 3.23      |
|         | Net Interest on Loan Capital for<br>Effective Capacity | 2.82     | 3.23      |

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

## 33.4. Depreciation

33.4.1. The Hon'ble Commission in its Tariff Regulations, 2018 has provided the principals for determination of depreciation.

33.4.2. 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. Also, depreciation on grants has been subtracted. The table below summarizes the Depreciation projected for FY2021-22.

Table 182: Projected Depreciation for FY2021-22 of LRPP

(Rs. Crore)

| Particulars               | 2021-22 |
|---------------------------|---------|
| Opening GFA               | 268.41  |
| Addition during the year  | 0.00    |
| Closing GFA               | 268.41  |
| Average GFA               | 268.41  |
| Rate of Depreciation      | 5.02%   |
| Total Depreciation        | 13.47   |
| Grant                     | 215.96  |
| Additions during the year | 0.00    |
| Closing grant             | 215.96  |
| Average grant             | 215.96  |
| Rate of Depreciation      | 5.02%   |
| Depreciation on grants    | 10.84   |
| Net Depreciation          | 2.63    |

Table 183: Summary of projected Depreciation for FY2021-22

| Station | Particulars                                   | 2021-22<br>Approved | 2021-22<br>Projected |
|---------|---|---------------------|----------------------|
|         | Depreciation                                  | 13.60               | 13.47                |
| LRPP    | Less: Depreciation on assets funded by Grants | 10.85               | 10.84                |
|         | Net Depreciation                              | 2.75                | 2.63                 |
|         | Net Depreciation for Effective Capacity       | 2.75                | 2.63                 |

33.4.3. APGCL prays to the Hon'ble Commission to approve the projected Depreciation for FY 2021-22 as shown above.

## 33.5. Interest on Working Capital

33.5.1. As per Regulation 36 of the Tariff Regulations, 2018, the interest on working capital will be considered on normative basis.

- 33.5.2. 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 7.00% + 3.00 % = 10.00%.
- 33.5.3. The interest on working capital considered is shown in the table below:

Table 184: Summary of Interest on working capital projected for FY2021-22

(Rs. Crore)

| Station Particulars |                             | 2021-22  | 2021-22   |
|---------------------|-----------------------------|----------|-----------|
|                     |                             | Approved | Projected |
|                     | Fuel Cost for one month     | 7.91     | 4.86      |
|                     | O&M Expenses for one month  | 1.89     | 1.89      |
|                     | Maintenance Spares-30% of   |          |           |
|                     | O&M                         | 6.79     | 6.79      |
| LRPP                | Receivables for two months  | 21.67    | 15.38     |
|                     | Total Working Capital       |          |           |
|                     | Requirement                 | 38.26    | 28.93     |
|                     | Rate of interest            | 11.50%   | 10.00%    |
|                     | Interest on Working capital | 4.40     | 2.89      |

33.5.4. APGCL prays to the Hon'ble Commission to approve the Interest on Working capital for FY 2021-22 as shown above.

## 33.6. Operation and Maintenance Expenses (O&M Expenses)

- 33.6.1. The Operation and maintenance expense are to be projected as per Regulation 50.1 of the Tariff Regulations, 2018.
- 33.6.2. The Commission in its order dated 1<sup>st</sup> March 2019 had computed the normative O&M expenses for LRPP for FY2021-22 according to the regulation.
- 33.6.3. APGCL has claimed the Normative O&M expenses for LRPP considering the escalation rate of 6.3% on the claimed Normative Expenses for LRPP for APR of FY2020-21

Table 185: Operation and Maintenance projected for FY2021-22

Rs. Cr



| Station | Approved<br>in order<br>of March<br>2019 | Approved considering Effective Installed Capacity in order of March 2019 | Amount considered for APR of FY2020-21 on Effective Installed Capacity | Effective<br>Capacity<br>considered<br>for APR for<br>FY2020-21 | Effective<br>Capacity<br>for Tariff<br>Projection<br>for FY2021-<br>22 | Amount considered for Tariff for FY 2021-22 on effective capacity |
|---------|--|--|--|---|--|---|
|         | 1  | 2  | 3  | 4   | 5  | 6 = 3*<br>(1+6.3%)<br>*5/4  |
| LRPP    | 22.64                                    | 22.64  | 21.30  | 69.76   | 69.76  | 22.64   |

33.6.4. APGCL prays to the Hon'ble Commission to approve the O&M expenses for FY 2021-22 as shown above.

## 33.7. Impact of AERC (Payment of Fees etc.) Regulations, 2020

- 33.7.1. 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.
- 33.7.2. The tentative impact of the increase in the filing fees has been shown below:

| Station | 20                                  | 015 Regulation | on            | 2020 Regulation            |                 | Incre         | ase in Filing                       | Fees                  |               |
|---------|-------------------------------------|----------------|---------------|----------------------------|-----------------|---------------|-------------------------------------|-----------------------|---------------|
|         | Tariff<br>Determin<br>ation<br>Fees | APR Fees       | Total<br>Fees | Tariff Determin ation Fees | True Up<br>Fees | Total<br>Fees | Tariff<br>Determin<br>ation<br>Fees | True Up /<br>APR Fees | Total<br>Fees |
| LRPP    | 0.20                                | 0.10           | 0.30          | 0.25                       | 0.15            | 0.40          | 0.05                                | 0.05                  | 0.10          |

33.7.3. Considering the increase in the LRPP filing fees as shown above, APGCL humbly prays to the Commission to allow it to claim in the increase in the fees at actuals in FY2021-22

## 33.8. Incentives

33.8.1. APGCL submits that the Incentives for FY 2021-22 will be claimed in True-up as per Regulations.

## 33.9. Non-Tariff Income

- 33.9.1. As per Regulation 45 of the Tariff Regulations, 2018, the non-tariff income shall be deducted from the Annual Fixed Cost in determining the Annual Fixed Cost of the Generation Company.
- 33.9.2. The non-tariff income for FY2021-22 are projected same as approved by Hon'ble Commission. The same is as shown in the table below

Table 186: Station-wise Non tariff income projected for FY2021-22

(Rs. Crore)

| Chatian |         | 2021-22  | 2021-22   |
|---------|---------|----------|-----------|
|         | Station | Approved | Projected |
|         | LRPP    | 0.00     | 0.00      |

- 33.9.3. APGCL submits that Non-Tariff Income for FY FY2021-22 will be claimed during True-up of the same.
- 33.9.4. APGCL prays to the Hon'ble Commission to approve the Non-tariff income for FY 2021-22 as shown above.

## 33.10. Total Fixed Cost

- 33.10.1. The recovery of Annual fixed charges is to be done as per regulation 51.1 of the Tariff Regulations, 2018.
- 33.10.2. Based on the above, the Annual fixed charges for FY 2021-22 has been computed. The Hon'ble Commission is requested to approve the fixed charges as discussed in the table below:

Table 187: Annual Fixed charges for FY2021-22 of LRPP

(Rs. Crore)

| Particulars                         | 2021-22<br>Approved | 2021-22<br>Projected |
|-------------------------------------|---------------------|----------------------|
| Operation & Maintenance Expenditure |                     |                      |
|                                     | 22.64               | 22.64                |
| Increase in AERC Tariff Filing Fees | 0.00                | 0.10                 |
| Interest & Finance Charges          | 2.82                | 3.23                 |
| Interest on working Capital         | 4.40                | 2.89                 |
| Depreciation                        | 2.75                | 2.63                 |
| Return on Equity                    | 2.50                | 2.44                 |
| Less: Other Income                  | 0.00                | 0.00                 |
| Total Fixed Charges                 | 35.11               | 33.94                |



- 33.10.3. The Petitioner prays to the Hon'ble Commission to approve the fixed costs for FY 2021-22 as discussed in the tables above.
- 33.10.4. APGCL submits that the Other expenses like actual tax paid, prior period items etc. for FY2021-22 will be claimed in True-up of FY 2021-22 as per Regulations.

# 34. Energy Charges

## 34.1. Fuel Price and Calorific Value

34.1.1. As per Regulation 11 of the Tariff Regulations 2018, 'Fuel Price' and 'Calorific Value of Fuel' are uncontrollable items. The values of 'Calorific Value of Fuel' is considered same as considered in FY 2020-21. The value of 'Fuel Price' has been considered at the rate computed for the month of October 2020 and escalated at annual rate of 3% for Transmission charges as per agreement. The projected values of 'Fuel Price' and 'Calorific Value of Fuel' are shown in the table below:

Table 188: Projected GCV and Price for FY2021-22

|      | Station | Wt. Avg. Gross Calorific Value of Gas (kcal/SCM) | Wt. Avg. Price of<br>Gas<br>(Rs./1000 SCM) |
|------|---------|--|--|
| LRPP |         | 9,419.27   | 4923.31                                    |

34.1.2. The Petitioner prays to the Hon'ble Commission to approve the projected Price of Gas and GCV for LRPP for FY 2021-22 as shown in the table above.

## 34.2. Fuel cost

34.2.1. The Commission, in the Tariff Order dated 1<sup>st</sup> March 2019 had approved the Fuel Cost for FY 2021-22. The table below shows the projected fuel cost for FY2021-22

Table 189: Fuel cost for LRPP for FY2021-22

| 14010 10011 401 0000 101 11111 1011 112021 22 |             |              |            |            |
|---|-------------|--------------|------------|------------|
| Particulars                                   | Derivation  | Unit         | 2021-22    | 2021-22    |
| Particulars                                   | Derivation  | Offic        | Approved   | Projected  |
| Gross Generation                              | Α           | MU           | 519.40     | 519.40     |
| Heat Rate                                     | В           | kcal/kWh     | 2150.00    | 2150.00    |
| GCV of gas                                    | С           | kcal/SCM     | 9126.42    | 9419.27    |
| Overall Heat                                  | D=AxB       | G. cal.      | 1116710.00 | 1116710.00 |
| Gas consumption                               | E=D/C       | M. SCM       | 122.36     | 118.56     |
| Price of Gas                                  | F           | Rs./1000 SCM | 7758.11    | 4923.31    |
| Total cost of Gas                             | G=ExF/10000 | Rs. Crore    | 94.93      | 58.37      |

# 35. Summary of submissions for Revised ARR of FY2021-22

## 35.1. Summary

35.1.1. The Summary of the Revised ARR for LRPP for FY2021-22 is shown below.

Table 190: Revised ARR for FY2021-22 For LRPP

(Rs. Crore)

|     | (KS. Crore)                         |          |           |  |  |
|-----|-------------------------------------|----------|-----------|--|--|
|     | ARR for LRPP for Effective Capacity |          |           |  |  |
| SI. | Particulars Particulars Particulars | 2021-22  | 2021-22   |  |  |
| No  |                                     |          |           |  |  |
|     |                                     | Approved | Projected |  |  |
|     |                                     |          |           |  |  |
|     | POWER GENERATION (MU)               |          |           |  |  |
|     | Gross Generation                    | 519.40   | 519.40    |  |  |
|     | Net Generation                      | 501.22   | 501.22    |  |  |
|     | Auxiliary Consumption Loss %        | 3.50%    | 3.50%     |  |  |
|     |                                     |          |           |  |  |
| ı   | Fixed Charges                       |          |           |  |  |
|     | Operation & Maintenance Expenditure | 22.64    | 22.64     |  |  |
|     | Increase in AERC Tariff Filing Fees | 0.00     | 0.10      |  |  |
|     | Interest & Finance Charges          | 2.82     | 3.23      |  |  |
|     | Interest on working Capital         | 4.40     | 2.89      |  |  |
|     | Depreciation                        | 2.75     | 2.63      |  |  |
|     | Return on Equity                    | 2.50     | 2.44      |  |  |
|     | <u>Less</u> : Other Income          | 0.00     | 0.00      |  |  |
| П   | Total Fixed Charges                 | 35.11    | 33.94     |  |  |
| Ш   | Fuel Cost                           | 94.93    | 58.37     |  |  |
| IV  | Total Revenue Requirement           | 130.04   | 92.30     |  |  |
|     |                                     |          |           |  |  |
| V   | Fixed Charge (Rs. / kWh)            | 0.70     | 0.68      |  |  |
| VI  | Energy Charge (Rs. / kWh)           | 1.89     | 1.16      |  |  |
| VII | Proposed Tariff (Rs. / kWh)         | 2.59     | 1.84      |  |  |

## 35.2. Net Annual Revenue Requirement

35.2.1. The Net Annual Revenue Requirements for FY 2021-22 are as shown in the tables below.

Table 191: Net Annual Revenue Requirements for LRPP for FY2021-22

(Rs. Crore)

| Particulars   | 2021-22<br>Projected |
|---------------|----------------------|
| Fixed Charges | 33.94                |



| Particulars               | 2021-22<br>Projected |
|---------------------------|----------------------|
| Fuel Cost                 | 58.37                |
| Total Revenue Requirement | 92.30                |

## **35.3.** Tariff for LRPP for FY 2021-22

## 35.3.1. The tariff proposed for LRPP for FY 2021-22 is as shown below

Table 192: Tariff proposed for LRPP for FY 2021-22

(Rs. Crore)

|                                  | (1.5. 6.5.6) |
|----------------------------------|--------------|
| Particulars                      | LRPP         |
| Annual fixed charges (Rs crore)  | 33.94        |
| Monthly fixed charges (Rs crore) | 2.83         |
| Energy charge rate (Rs./kWh)     | 1.16         |

35.3.2. The Petitioner prays to the Hon'ble Commission to approve the Net Annual Revenue Requirement for FY 2021-22 as discussed in the tables above.

## 36. Directives

## **36.1.** Compliance of Directives issued in the Tariff Order for 2020-21

36.1.1. We submit that the update on the compliance directives issued in the Tariff order for FY 2020-21 for Quarter 1 has already been submitted to the Hon'ble Commission.

| Compliance of Directives issued in the Tariff Order for 2020-21   |  |   |
|---|--|---|
| SI.   | AERC's Directive   | Status as on 31 <sup>st</sup> October, 2020   |
| No:   |  |   |
| 1   | Directive1: Completion of new Power Projects within scheduled time and   |   |
|   | augmentation of own generating capacity  |   |
|   | The Commission directs   | 13.5 MW Myntriang Small Hydro Electric Project  |
| AP sol as seles corresponding seles cap ger AP exp set pla the ger spread the received and | APGCL to complete their ongoing projects on time.  APGCL should set up new solar projects on its own, as solar projects require lesser time for commissioning. This would also help the Company build expertise in solar technology and add much required new capacity to their pool of generation projects. | <ul> <li>Units no #1 &amp; #2 of (3X3) MW MSHEP-I is under S/D due to vibration problem, Unit # 3 is under S/D for clearing debris from canal and forebay.</li> <li>Unit #2 of MSHEP-II is under S/D for major Overhauling, expected to come by 4<sup>th</sup> week of December'2020, Unit # 3 is running at rated capacity. Unit#1 is under trial run after overhauling.</li> </ul>  |
|   |  | <ul> <li>Present Status of 100 MW NRPP:</li> <li>NRPP is expected to be commissioned by<br/>April'2021.</li> </ul>  |
|   | APGCL is, also, directed to explore the possibility of setting up solar power plants at remote areas of the State so that its generating stations are spread out throughout the State. This would help reduce losses and   | <ul> <li>Present Status of 70 MW Amguri Solar Power</li> <li>Project:         <ul> <li>LOA has been issued to M/s JAKSON on 26/12/2019.</li> <li>All required drawings are approved from APGCL end.</li> <li>Soil testing and survey work is completed.</li> <li>Erection work, mainly Civil works has been started.</li> </ul> </li> </ul>   |
|   | transmission cost.   | <ul> <li>Present Status of 120 MW Lower KHEP:         <ul> <li>First Stage Forest Clearance has been accorded for 523.046 Hectare of forest land by Ministry of Environment and Forest and Climate Change on 5th February, 2019.</li> <li>2<sup>nd</sup> Stage Forest Clearance is in advance stage and will be received by Nov'2020.</li> <li>Final EC has been received from MoEF &amp; CC, New Delhi. Resettlement and Rehabilitation (R&amp;R)</li> </ul> </li> </ul> |

- plan for the project has been approved by the Ministry of Tribal Affairs, Govt. of India.
- Land premium and compensation amount for Karbi Anglong Dist amounting to Rs. 8.11 Cr transferred to KAAC on 27.06.19. Land Compensation payment in Karbi Anglong district is in progress.
- Land allotment letters has been received from both Dima Hasao and Karbi Anglong Districts.
- Package-2(Project Roads, Civil & Hydromechanical works) has been awarded to M/S Larsen & Toubro Ltd, Chennai. At present M/S L&T is carrying out survey works and geotechnical investigation works at project site.
- Package-3(Electromechanical works) Technical Bid was opened on 09/11/2020. The evaluation of the bid is in progress. Loan signing with ADB is expected by Nov'2020.

# Present status of 24 MW Borpani Middle-II SHEP:

- For land acquisition of the project, site visit has been made by representatives of Hamren, Donka and APGCL and land availability report has been submitted to the respective department under KAAC. Draft MoA has been approved in KAAC.
- NOC from Water Resource Deptt. has been received. Report has been made to Dist Council for MOM.
- KAAC has been requested for allotment of land
- DEA has posed the project to ADB for financial assistance.

# <u>Present Status of 2X800 MW Margherita Super</u> Thermal Power Project:

- The APGCL Board approved the Draft DPR (Rev-I) of Margherita Super Thermal Power Project (2x800 MW) prepared by M/s NTPC Ltd, Noida with total financial involvement of Rs. 16,850.14 Crore (Rupees sixteen Thousand Eight Hundred Fifty Crores and Fourteen Lakhs) only.
- As per the directives of APGCL Board, comments from the MD, APDCL has been requested.

# 20 MW Namrup Solar Power Project:

- After completion of bid evaluation it was decided to issue LOI after the APGCL's Board approval.
- In the period in-between APGCL's Board has approved for retendering of the project, as the L1 bidder refused to extend the bid security period.



# Setting up of a solar plant at Bilaspara and Lakhimpur and Dhemaji: Correspondense has been made with the Deputy Commissioner of Dhubri District for allotment of 1500 Bighas of Govt land for setting up a Solar Project of 100 MW. Regarding setting up solar projects in far flung areas such as Lakhimpur, Dhemaji correspondence has already been made with the Deputy Commissioners for allotment of Govt vacant land (Approx 500 Bighas, in a single Plot) in the districts for setting up Solar Power Plant. Response it awaited. 2 Directive-2: Preventive Maintenance. Noted. The Commission directs APGCL to earnestly pursue preventive maintenance of its power stations using diagnostic tools strategies, to avoid forced shutdown of its turbines and loss in revenue. Planned /scheduled shutdowns should also be opted for as and when necessary to maintain the power stations in operations and avoid accidents. Directive 3: Employee's Provident Fund 3 The Commission directs The matter is under progress APGCL to deposit the contributions by the Employees including past liabilities for GPF in a separate bank account. 4. **Directive 4: Special R&M** It is observed that APGCL APGCL humbly submits that it is earnestly pursuing does not carry out Special to achieve the projected Special R&M activities for R&M in the year for which its power plants. However the activities were



it is approved. This has also resulted in frequent breakdown of Units. Henceforth, APGCL should carry out Special R&M within the approved period failing which the same will not be allowed as an expenditure in the subsequent year.

hampered due to Covid-19 pandemic which has led to delay of the completion of the same

APGCL humbly prays to the Hon'ble Commission to approve the proposed Special R&M activities for its power plants as presented in this petition.

# **ANNEXURES**

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# IND AS FINANCIAL STATEMENT **2019-20**



# ASSAM POWER GENERATION CORPORATION LIMITED

# Assam Power Generation Corporation Limited Ind AS Balance Sheet as at March 31, 2020

| Particulars                                  | Notes  | As on 31 <sup>st</sup> March 2020<br>(Rs. In Lakh) | As on 31 <sup>st</sup> March 2019<br>(Rs. In Lakh)<br>Restated |
|--|--------|--|--|
| ASSETS                                       |        |  | 110011101  |
| Non-current assets                           | 1 1    |  |  |
| Property, plant and equipment                | 2      | 80,333.53  | 84,392.9   |
| Capital work-in-progress                     | 3      | 1,24,380.81  | 1,04,946.8   |
| Other non-current assets                     | 4      | 145.07   | 142.4  |
|  |        | 2,04,859.41  | 1,89,482.3   |
| Current assets                               |        |  |  |
| Inventories                                  | 5      | 7,404.51   | 7,056.9  |
| Financial assets                             | 1 22   |  |  |
| Trade receivables                            | 6(I)   | 9,440.10   | 9,079.5  |
| Cash and cash equivalents                    | 6(II)  | 5,259.34   | 38,962.8   |
| Bank balances other than 6(ii) above         | 6(III) | 72,513.02  | 47,043.2   |
| Loans  | 6(IV)  | 6,841.26   | 6,309.0  |
| Other financial assets                       | 6(V)   | 258.80   | 22.2   |
| Income tax assets (net)                      | "(")   | 460.96   | 428.1  |
| Other current assets                         | 7      | 18,394.10  | 16,036.4   |
| outer out out about                          | 1 ' 1  | 1,20,572.09  | 1,24,938.4   |
|  | 1 . 1  | 1,20,072.00  | 1,24,000.4   |
| Total assets                                 | 1 1    | 3,25,431.50  | 3,14,420.7   |
| EQUITY AND LIABILITIES Equity                |        | 5,25,751.00  | 0,14,420.7   |
| Equity share capital                         | 8      | 45,585.98  | 45,585.9   |
| Other equity                                 | 9      | 92,309.83  | 89,920.6   |
| 000 PM 101 PM 101 PM 101 PM                  |        | 1,37,895.81  | 1,35,506.6   |
| Liabilities                                  | 1 1    |  |  |
| Non- current liabilities                     |        |  |  |
| Financial liabilities                        |        |  |  |
| Borrowings                                   | 10(I)  | 64,107.65  | 68,389.0   |
| Deferred tax liabilities (Provision for MAT) |        | 136.09   | 673.4  |
| Provisions                                   | 11     | 9,511.30   | 8,502.0  |
| Other non current liabilities                | 12     | 6,092.98   | 6,586.9  |
|  | 1      | 79,848.03  | 84,151.4   |
| Current liabilities                          | 1 1    |  |  |
| Financial liabilities                        |        |  |  |
| Trade payables                               | 13(I)  | 5,591.70   | 4,949.3  |
| Other financial liabilities                  | 13(II) | 74,359.71  | 61,403.4   |
| Other current liabilities                    | 14     | 22,961.16  | 19,572.2   |
| Provisions                                   | 15     | 4,775.10   | 8,837.7  |
| LIONISIONS                                   | 15     | 1,07,687.67  | 94,762.7   |
|  | 1      | 1,07,007.07  | 34,102.1   |
| Total equity and liabilities                 |        | 3,25,431.50  | 3,14,420.7   |

The accompanying notes are an integral part of the Ind AS financial statements.

As per our separate report of even date

For K.P SARDA & Co. Chartered Accountants

Firm Registration No. 3192065

(CA. K P SARDA)

Partner

Membership No.: 054555

Place: GUWAHATI Date: 07/08/20

UDIN: 20054555 AAAA FU3584

For and on behalf of

Assam Power Generation Corporation Limited

Megane (Sri V. K. Pipersenia, IAS Retd)

Chairman

(Smti. Bimala Brahma)

**Chief Financial Officer** Place: Guwahati Date: 28th July'2020

(Smti. Kalyani Baruah) **Managing Director** 

(Smti. Nayana Das)

**Company Secretary** 

# **Assam Power Generation Corporation Limited** Statement of Profit and Loss for the year ended March 31, 2020

|      | Particulars  | Notes | For the year ended<br>March 31, 2020<br>(Rs. In Lakh) | For the year ended<br>March 31, 2019<br>(Rs. In Lakh)<br>Restated |
|------|--|-------|---|---|
|      | Income   |       |   |   |
| - 1  | Revenue from operations  | 16    | 50,398.05   | 53,254.08   |
| П    | Other income   | 17    | 536.46  | 562.87  |
| Ш    | Finance income   | 18    | 5,213.20  | 4,867.81  |
| IV   | Total Income (I+II+III)  |       | 56,147.72   | 58,684.76   |
| V    | Expenses   |       |   |   |
|      | Cost of raw materials consumed - other than lubricants   | 19    | 28,733.61   | 29,156.34   |
|      | Cost of raw materials consumed - lubricants  | 19    | 365.54  | 1.54  |
|      | Employee benefits expenses   | 20    | 9,838.71  | 10,364.55   |
|      | Other expenses   | 21    | 3,057.80  | 2,865.80  |
|      | Depreciation and amortization expense  | 22    | 5,622.77  | 5,264.34  |
|      | Finance costs  | 23    | 7,984.71  | 7,876.56  |
|      | Total Expenses (V)   |       | 55,603.14   | 55,529.12   |
| VI   | Profit/(Loss) before exceptional items and tax (IV-V)  |       | 544.58  | 3,155.64  |
| VII  | Exceptional Item   | 1 [   | -   |   |
| VIII | Profit/(Loss) before tax (VI+VII)  |       | 544.58  | 3,155.64  |
| IX   | Tax expense  | l [   |   |   |
|      | Current tax  |       | 116.22  | 673.47  |
|      | MAT credit entitlement   |       |   |   |
|      | Deferred Tax   |       | -   |   |
|      | Prior year tax charge  |       | -   | 53.54   |
|      | Building & other construction workers welfare cess   |       | -   | 2   |
|      | Total tax expense  |       | 116.22  | 727.01  |
| Х    | Profit/ (loss) for the year/period (VIII-IX))  |       | 428.36  | 2,428.63  |
| ΧI   | Other comprehensive income/(loss) (i) Items that will not be reclassified to profit or loss - Re-measurement gains/(loss) on defined benefit plans             |       | ·   | -   |
|      | (ii) Income tax relating to items that will not be reclassified to profit or loss  |       |   | -   |
|      | Other comprehensive income/(loss) for the year, net of tax   |       |   | -   |
| XII  | Total comprehensive income/(loss) for the year (X+XI)  |       | 428.36  | 2,428.63  |
| XIII | Earning per share (EPS)  a) Basic earning/(loss) per share (in Rs.) b) Diluted earning/(loss) per share (in Rs.) [Nominal value of share Rs.100 (Rs.100) each] | 24    | 0.94  | 5.33  |

The accompanying notes are an integral part of the Ind AS financial statements.

As per our separate report of even date

For K.P SARDA & Co.

Chartered Accountants

Firm Registration No. 319206E

(CA. KP SARDA)

Partner

Membership No.: 054555

Place: GUWA HATI

Date: 07/08/20

UDIN: 2005455TAAAAFU 3584

For and on behalf of

Assam Power Generation Corporation Limited

(Sri V. K. Pipersenia, IAS Retd)

Chairman

(Smti. Bimala Brahma) **Chief Financial Officer** 

Place: Guwahati

Date: 28th July'2020

(Smti. Kalyani Baruah) **Managing Director** 

(Smti. Nayana Das) **Company Secretary** 

# **Assam Power Generation Corporation Limited**

# Statement of changes in equity for the year ended March 31, 2020

Equity share capital:

| Equity shares of Rs. 100 each issued, subscrib | No. of Shares | (Rs. In Lakh) |
|--|---------------|---------------|
| As at April 1, 2018                            | 4,55,85,975   | 45,585.98     |
| Issue of share capital                         | -             | -             |
| As at March 31, 2019                           | 4,55,85,975   | 45,585.98     |
| Issue of share capital                         |               | -             |
| As at March 31, 2020                           | 4,55,85,975   | 45,585.98     |

Other equity:

(Rs. In Lakh)

| Other equity .                    | Other equity      |                    |  |  |  |
|-----------------------------------|-------------------|--------------------|--|--|--|
| Particulars                       | Retained earnings | Total other equity |  |  |  |
| As at April 01, 2018              | 78,097.24         | 78,097.24          |  |  |  |
| Profit/(loss) for the year        | 2,428.64          | 2,428.64           |  |  |  |
| Other comprehensive income/(loss) | -                 | -                  |  |  |  |
| Total comprehensive income/(loss) | 2,428.64          | 2,428.64           |  |  |  |
| Created during the year           | 9,394.77          | 9,394.77           |  |  |  |
| As at March 31, 2019              | 89,920.64         | 89,920.64          |  |  |  |
| As at April 01, 2019              | 89,920.64         | 89,920.64          |  |  |  |
| Profit/ (Loss) for the year       | 428.36            | 428.36             |  |  |  |
| Other comprehensive income/(loss) | -                 |                    |  |  |  |
| Total comprehensive income/(loss) | 428.36            | 428.36             |  |  |  |
| Created during the year           | 1,960.84          | 1,960.84           |  |  |  |
| As at March 31, 2020              | 92,309.83         | 92,309.83          |  |  |  |

As per our separate report of even date

For K.P SARDA & Co. Chartered Accountants

Firm Registration No. 319206E

(CA · K · P SARDA)
Partner

Membership No.: 054355

Place: GUWAHATI
Date: 07 08 120

UDIN: 200 54555 AAAAFU 3584

Guwahati

For and on behalf of

**Assam Power Generation Corporation Limited** 

(Sri V. K. Pipersenia, IAS Retd)

Chairman

(Smti. Bimala Brahma) Chief Financial Officer

Place: Guwahati Date: 28<sup>th</sup> July'2020 Managing Director

(Smti. Kalyani Baruah)

(Smti. Nayana Das) Company Secretary

# ASSAM POWER GENERATION CORPORATION LTD.

CASH FLOW STATEMENT FOR THE YEAR ENDED 31st MARCH, 2020

| PARTICULARS                                     | As on 31st March 2020      | As on 31st March 2019  |
|---|----------------------------|------------------------|
|   | (Rupees in Lakh)           | (Rupees in Lakh)       |
| A. CASH FLOW FROM OPERATING ACTIVITIES:         |                            |                        |
| Net Profit before Taxation                      | 544.58                     | 3,155.64               |
| Adjusted for:                                   | -                          |                        |
| Profit/Loss on Sale of Assets                   | (22.86)                    |                        |
| Depreciation                                    | 5,622.77                   | 5,264.34               |
| Income from Fixed Deposit                       | (5,159.29)                 | (4,849.76)             |
| Interest /Other Income                          | - 1                        | -                      |
| Interest & Other Charges                        | 7,984.71                   | 7,876.56               |
|   | 8,425.34                   | 8,291.14               |
| Operating profit before working capital changes | 8,969.91                   | 11,446.78              |
| Change in Inventories                           | (347.55)                   | (794.12)               |
| Change in Trade Receivable                      | (360.54)                   | 5,094.58               |
| Change inShort Term Loans & Advances            | (532.23)                   | (335.64)               |
| Change in Others Current Assets                 | (27,087.55)                | 9,783.75               |
| Change in Trade Payables                        | 642.38                     | 945.12                 |
| Change in Other Current Liabilities             | 3,594.36                   | 8,230.91               |
| Change in Short Term Provisions                 | (4,062.60)                 | (363.16)               |
| Cash generated from operations                  | (28,153.73)<br>(19,183.81) | 22,561.45<br>34,008.23 |
| Tax expenses                                    | (259.12)                   | (422.58)               |
| Net Cash from Operating Activities              | (19,442.94)                | 33,585.64              |
| B. CASH FLOW FROM INVESTMENT ACTIVITIES :       | *                          |                        |
| Purchases of Fixed Assets                       | (1,350.74)                 | (33,469.43             |
| Sale of Fixed Assets                            | -                          |                        |
| Purchase of Investments                         | -                          | -                      |
| Sale of Investments                             |                            | -                      |
| Capital Work in Progress                        | (19,433.94)                | 19,380.37              |
| Income from Fixed Deposit                       | 5,413.59                   | 2,240.09               |
| Interest/Other Income                           | 22.86                      |                        |
| Net Cash Used in Investment Activities          | (15,348.23)                | (11,848.98             |



| C. CASH FLOW FROM FINANCING ACTIVITIES :                  |             |           |
|---|-------------|-----------|
| Proceeds from Share capital                               |             |           |
| Proceeds from Long Term Borrowings                        | 3,450.21    | 2,872.56  |
| Repayment made towards loan                               | (4,247.46)  | (3,208.46 |
| Interest & Other Charges                                  | (2,323.76)  | (4,401.74 |
| Proceeds from Grant towards capital assets                | 4,208.65    | 9,394.77  |
| Net Cash Used in Financing Activities                     | 1,087.64    | 4,657.13  |
| Net Increase/Decrease in Cash and Cash Equivalents(A+B+C) | (33,703.53) | 26,393.79 |
| Opening Balance of Cash and Cash Equivalents              | 38,962.87   | 12,569.08 |
| Closing Balance of Cash and Cash Equivalents              | 5,259.34    | 38,962.87 |

As per our separate report of even date For K.P SARDA & Co. **Chartered Accountants** Firm Registration No. 3192066

(CA · K P SARBA)
Partner

Membership No.: 054555 Place: WWA HATI

Date: 07/08/20

UDIN: 20054555 AAAAFU 3584

Guwahati

For and on behalf of **Assam Power Generation Corporation Limited** 

(Sri V. K. Pipersenia, IAS Retd) Chairman

(Smti. Bimala Brahma) **Chief Financial Officer** 

Place: Guwahati Date: 28th July'2020 (Smti. Kalyani Baruah) **Managing Director** 

(Smti. Nayana Das) **Company Secretary** 

# 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:

- 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, which 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 will be converted to equity in future as communicated to us vide letter no. ASEB/ACT/FIN/87/Pt-VI/35 dated 12/11/2008. These grants cannot be construed as meeting a portion of the cost and cannot be amortised in the books of accounts as they will be converted to equity in future. Hence, Govt. Grants are recognised in 'Other equity'.

# 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.

# 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 are 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, 2018 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.

|                         | Rates of     |
|-------------------------|--------------|
| Assets Class            | Depreciation |
| 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 the work is under progress. On completion of the valuation and verification process, fair valuation shall be taken up by APGCI.

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.

# 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.

#### 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.

Presently, Inventories Accounts of the Company maintained for construction project has been treated as "Capital Stores" and that of O& M purpose treated as "Operational Stores". The Capital stores are classified as inventory as per APGCL's recognition criteria based on specific circumstances and are outside the purview of Ind AS 16 Property Plant and Equipment and hence are dealt in accordance with Ind AS 2 Inventories.

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. Now, the company has engaged external agencies for valuation and verification of Assets & inventory and the work is under progress. Once the Valuation and verification process is complete fair valuation shall be taken up by APGCL for all of its inventories and the yearlong provision of Rs. 3203.05 Lakhs and Rs. 1312.04 Lakhs (allocated to APGCL as per transfer scheme) can be adjusted.

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.

Shortages found on physical verification of stocks are booked under "Material Shortages pending investigation (Account code 2710000). These shortages are recovered from persons responsible or written off, as the case may be, on completion of investigation.

# 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.

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.

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.



# 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. At present employee related records including leave balance are maintained manually at Head quarter as well as various field levels and as such ascertainment of balance leave on the balance sheet date of every employee is tedious and hence not provided for. However, the Company is going to implement ERP and as soon as it starts, we will be able to make provision for leave encashment benefit for NPS employees.

#### 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) 8.0% w.e.f 01.04.2019 to 30.06.2019
- ii) 7.9% w.e.f 01.07.2019 to 30.09.2019
- iii) 7.9% w.e.f 01.10.2019 to 31.12.2019
- iv) 7.9% w.e.f 01.01.2020 to 31.03.2020 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 the equal amount deducted from its employees, 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

#### Debt instruments at amortised cost

A 'debt instrument' is measured at the amortised cost if both the following conditions are met:

- a) The asset is held within a business model whose objective is to hold assets for collecting contractual cash flows, and
- b) 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 incurs 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.

## 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.



# **Assam Power Generation Corporation Limited**

# Notes to the Ind AS financial statements as at and for the year ended March 31, 2020

2. Property, plant and equipment

| Description                           | Land<br>owned<br>under full<br>title | Leasehold<br>loan | Building | Hydraulic | Other civil<br>works | Plant & machinery | Lines & cable network | Vehicles | Furniture<br>& fixtures | Office<br>equipment | Roads on<br>land<br>belonging<br>to others | Capital<br>spares at<br>generating<br>stations | Total       |
|---------------------------------------|--------------------------------------|-------------------|----------|-----------|----------------------|-------------------|-----------------------|----------|-------------------------|---------------------|--|--|-------------|
| GROSS BLOCK                           |                                      |                   |          |           |                      |                   |                       |          |                         |                     |  | 47.544.70                                      | 4 00 000 04 |
| As on 1st April 2018                  | 2,072.78                             | 6.40              | 6,400.24 | 17,820.15 | 17,476.60            | 56,177.58         | 4,450.71              | 108.07   | 171.14                  | 165.68              | 28.24                                      | 17,514.73                                      | 1,22,392.34 |
| Adjustment / Reclassification         | -                                    | -                 | -        | -         | -                    | -                 | -                     | •        | -                       | -                   | -  | -  | -           |
| Additions during the year             | -                                    | -                 | 3.37     | 4.07      | 7,561.21             | 25,526.69         | -                     | -        | 4.44                    | 6.64                | -  | 364.46   | 33,470.90   |
| Deductions during the year            | -                                    | -                 | -        | -         | -                    | -                 | -                     | -        | -                       | (1.47)              | -  | -  | (1.47)      |
| As on 31st March 2019                 | 2,072.78                             | 6.40              | 6,403.62 | 17,824.23 | 25,037.82            | 81,704.27         | 4,450.71              | 108.07   | 175.58                  | 170.85              | 28.24                                      | 17,879.20                                      | 1,55,861.77 |
| Adjustment / Reclassification         |                                      | -                 |          |           | -                    | -                 | -                     | -        |                         |                     |  | -  | -           |
| Additions during the year             | -                                    |                   | -        | 3.85      | 117.63               | 1,391.10          | -                     | -        | 26.68                   | 24.89               | -  | -  | 1,564.15    |
| Deductions during the year            | -                                    | -                 | -        | -         | (202.78)             | -                 | -                     | (10.63)  | -                       | -                   | -  | -  | (213.41)    |
| As on 31st March 2020                 | 2,072.78                             | 6.40              | 6,403.62 | 17,828.08 | 24,952.67            | 83,095.38         | 4,450.71              | 97.44    | 202.27                  | 195.73              | 28.24                                      | 17,879.20                                      | 1,57,212.51 |
| DEPRECIATION                          |                                      |                   |          |           |                      |                   | 4                     |          |                         |                     |  |  |             |
| As on 1st April 2018                  | -                                    | -                 | 3,048.68 | 8,106.98  | 6,987.33             | 30,633.41         | 3,122.31              | 92.91    | 110.23                  | 96.63               | 6.36                                       | 14,001.48                                      | 66,206.33   |
| Adjustment / Reclassification         | -1                                   | - 1               | -        | -         | -                    | · -               |                       |          | -                       | *-                  | -  | -  |             |
| Depreciation for the year             | -                                    | -                 | 134.19   | 940.95    | 619.17               | 3,144.34          | 121.61                | 1.71     | 5.51                    | 10.38               | 2.68                                       | 283.79   | 5,264.34    |
| Deduction/ Adjustment during the year | -                                    | -                 | -        | -         | -                    |                   |                       | -        | -                       | (1.89)              | -  | -  | (1.89)      |
| As on 31st March 2019                 | -                                    | -                 | 3,182.87 | 9,047.93  | 7,606.50             | 33,777.75         | 3,243.92              | 94.62    | 115.74                  | 105.12              | 9.05                                       | 14,285.28                                      | 71,468.78   |
| Adjustment / Reclassification         | -                                    |                   | -        | S-1       | -                    | -                 |                       | -        | -                       | -                   | -  | -  | -           |
| Depreciation for the year             | -                                    | -                 | 127.06   | 941.20    | 763.17               | 3,374.56          | 112.73                | 0.67     | 6.60                    | 10.95               | 2.68                                       | 283.16   | 5,622.77    |
| Deduction/Adjustment during the year  | 1-                                   | -                 | -        | -         | (203.12)             | -                 | -                     | (9.45)   | -                       | -                   | -  | -  | (212.57)    |
| As on 31st March 2020                 |                                      | -                 | 3,309.93 | 9,989.13  | 8,166.55             | 37,152.31         | 3,356.65              | 85.83    | 122.34                  | 116.07              | 11.73                                      | 14,568.44                                      | 76,878.98   |
| NET BOOK VALUE                        |                                      |                   |          |           |                      |                   |                       |          |                         |                     |  |  |             |
| As on 31st March 2020                 | 2,072.78                             | 6.40              | 3,093.69 | 7,838.95  | 16,786.12            | 45,943.07         | 1,094.06              | 11.61    | 79.92                   | 79.67               | 16.51                                      | 3,310.76                                       | 80,333.53   |
| As on 31st March 2019                 | 2,072.78                             | 6.40              | 3,220.75 | 8,776.30  | 17,431.32            | 47,926.52         | 1,206.80              | 13.45    | 59.84                   | 65.73               | 19.19                                      | 3,593.92                                       | 84,392.99   |
| As on 1st April 2018                  | 2,072.78                             | 6.40              | 3,351.56 | 9,713.18  | 10,489.27            | 25,544.17         | 1,328.41              | 15.16    | 60.91                   | 69.05               | 21.88                                      | 3,513.25                                       | 56,186.01   |

Note:- (i) In the absence of shift log book for Plant & machinary, depreciation on Plant & machinary has been charged on continued process plant basis. (ii) On fixed assets acquired during the year depreciation is charged on 'Put to use' basis.



# 3. CAPITAL WORK IN PROGRESS

| Particulars              | As on 31.3.2018 | As on 31.3.2019 | As on 31.3.2020 |
|--------------------------|-----------------|-----------------|-----------------|
| Capital work in progress | 1,24,327.23     | 1,04,946.86     | 1,24,380.81     |

| Details of capital work in progress | As on 1st<br>April 2018<br>(In Rs.) | Addition /<br>(capitalised)<br>during the<br>year | As on 31st<br>March 2019<br>(In Rs.) | Addition /<br>(capitalised)<br>during the<br>year | As on 31st<br>March 2020<br>(In Rs.) |
|-------------------------------------|-------------------------------------|---|--------------------------------------|---|--------------------------------------|
| ERP Software                        | -                                   | -   | -                                    | 532.65  | 532.65                               |
| Land owned under full title         | 173.20                              | 4,234.47  | 4,407.67                             | 12,598.25   | 17,005.91                            |
| Leasehold loan                      | -                                   |   | 2                                    | -   | -                                    |
| Building                            | 99.48                               | 214.56  | 314.04                               | -   | 314.04                               |
| Hydraulic                           | -                                   | -   | -                                    | -   | -                                    |
| Other civil works                   | 74,671.61                           | (27,373.83)                                       | 47,297.79                            | 2,497.46  | 49,795.25                            |
| Plant & machinery                   | 49,106.06                           | 3,533.70  | 52,639.76                            | 3,805.59  | 56,445.35                            |
| Lines & cable network               | 108.51                              | -   | 108.51                               | -   | 108.51                               |
| Vehicles                            | 0.32                                | - 1   | 0.32                                 | 5#6   | 0.32                                 |
| Furniture & fixtures                | 6.12                                | -   | 6.12                                 |   | 6.12                                 |
| Office Equipment                    | 161.93                              | 10.72   | 172.66                               | -   | 172.66                               |
| Total                               | 1,24,327.23                         | (19,380.37)                                       | 1,04,946.86                          | 19,433.94   | 1,24,380.81                          |



# Assam Power Generation Corporation Limited Notes to the Ind AS financial statements as at and for the year ended March 31, 2020

4. OTHER NON-CURRENT ASSETS (UNSECURED AND CONSIDERED GOOD UNLESS OTHERWISE STATED)\*

| Particulars   | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Advance to suppliers (Capital) Interest free  | 69.39                                | 69.39  |
| Advance to contractors (Capital) Advance to Capital Contractors - Interest Free Contractors materials control Account (capital) | 75.68                                | 73.07  |
| Total   | 145.07                               | 142.47   |

5. INVENTORIES (AT LOWER OF COST OR NET REALIZABLE VALUE)

| Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|--------------------------------------|--|
| 1. Capital Stores and Spares                                   | 5.01                                 | (0.39)   |
| Fuel Stock   | 5.01                                 | 3  |
| Capital Materials Stock A/c                                    | 7,283.22                             | 7,639.43   |
| Material Issues O&M  |                                      | 4 000 00   |
| 2. O&M Materials Stock A/c                                     | 2,007.29                             | 1,308.93   |
| 3. Materials Stock Adjustments (Capital)                       | - 1                                  | -  |
| Materials Stock Adjustment (O&M)                               | -                                    |  |
| Other Material Account   | 1,312.04                             | 1,312.04   |
| Material stock-Excess/Shortage pending investigation - Capital | - 1                                  | -  |
| Less: Provision against stock                                  | (3,203.05)                           | (3,203.05)                                       |
| Net Total  | 7,404.51                             | 7,056.97   |

6. CURRENT FINANCIAL ASSETS (CONSIDERED GOOD AND UNSECURED UNLESS OTHERWISE STATED)

| (I). TRADE RECEIVABLES  Particulars       | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Receivables against sale of power - APDCL | 9,440.10                             | 9,079.56   |
| Total                                     | 9,440.10                             | 9,079.56   |
| Break-up for security details :           |                                      |  |
| Trade receivables                         |                                      |  |
| Secured, considered good                  | 9,440.10                             | 9,079.56   |
| Unsecured, considered good                | 9,440.10                             | 0,070.00   |
| Doubtful                                  | 9,440.10                             | 9,079.56   |
| Total                                     | 3,440.10                             | 0,010.00   |

| (II). CASH & CASH EQUIVALENTS  Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Balances with banks: - On current accounts - On cash credit facilities                | 1,394.48                             | 8,884.74   |
| - On deposit accounts with original maturity of less than three months*  Cash in hand | 3,800.00<br>64.87<br><b>5,259.34</b> | 30,007.17<br>70.96<br><b>38.962.87</b>           |

(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). BANK BALANCES OTHER THAN (II) ABOVE

| Particulars   | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| - On deposit accounts with remaining maturity of more than three months but |                                      |  |
| less than 12 months *   | 72,513.02                            | 47,043.21  |
| Total   | 72,513.02                            | 47,043.21  |

<sup>\*</sup>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 ranging from 6.50% - 8.75%.

# For the purpose of the statement of cash flows, cash and cash equivalents comprise the following:

| Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|--------------------------------------|--|
| Balances with banks:   | 1,394                                | 8,885  |
| On current accounts  | - 1,007                              | -  |
| On cash credit facilities     Deposits with remaining maturity of less than three months | 3,800                                | 30,007   |
| Cash on hand   | 65                                   | 71   |
| Oddi off falls   | 5,259.34                             | 38,962.87  |

| (IV). LOANS (CONSIDERED GOOD AND UNSECURED Description of the control of the cont | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|--------------------------------------|--|
| Advances for O&M supplies/works  | 6,756.89                             | 6,225.86   |
| Loans and advances to staff  | 31.78                                | 30.58  |
|  | 52.59                                | 52.59  |
| Others<br>Total  | 6,841.26                             | 6,309.03   |

| (V). OTHER FINANCIAL ASSETS (CARRIED AT AMOR' | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Amount recoverable from AGCL                  | 230.69                               | 22.23  |
| Advance (to)/from APDCL                       | 28.12                                |  |
| Total   | 258.80                               | 22.23  |

| 7. OTHER CURRENT ASSETS (CONSIDERED GOOD AND UNSECU         | KED UNLESS OTHERWISE ST              | AILU)  |
|---|--------------------------------------|--|
| Particulars   | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
| Fuel related receivables & claims (Railway claims for coal) | 747.91                               | 747.91   |
| Fuel related receivables & claims (OIL)                     | 1,394.47                             |  |
|   | 12,907.26                            | 11,255.55  |
| Other receivables   | 114.01                               | 68.38  |
| Prepaid expenses Income accrued but not due                 | 3,230.09                             | 3,945.35   |
|   | 0.35                                 | 0.35   |
| Deposits Inter Unit A/c - Fuel                              | -                                    | (0.00)   |
| Inter Unit A/c - Capital Expenditure & Fixed Assets         | _                                    | 0.00   |
|   | - 1                                  | 16.59  |
| Inter Unit A/c - Remittance to HQ                           | _                                    | (0.50)   |
| Inter-Unit Accounts-Funds Transfer From Head Office         | _                                    | 2.84   |
| Inter Unit A/c - Opening Balance                            | Arya e                               |  |
| Total   | 18,394.10                            | 16,036.49  |

<sup>7.1</sup> Other receivable includes proportion of unfunded liabilities to be received from the Pension Trust on account of GPF &

LEB payment.

#### 8. EQUITY SHARE CAPITAL

|                                     | As at March 31, 2020 |             | As at March 31, 2019 |             |
|-------------------------------------|----------------------|-------------|----------------------|-------------|
| Particulars                         | 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 | -                    | -           | 2                    |             |
| At the end of the year              | 100000000            | 1,00,000    | 100000000            | 1,00,000    |

| Particulars                              | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh) |
|--|--------------------------------------|--------------------------------------|
| Issued, Subscribed and Fully Paid Up:    |                                      |                                      |
| 45,585,975 equity share of Rs 100/- each | 45,585.98                            | 45,585.98                            |
| Total                                    | 45,585.98                            | 45,585.98                            |

# a. Reconciliation of equity shares outstanding at the beginning and at the end of the period

| Particulars                         | As at March 31, 2020 |           | As at March 31, 2019 |           |
|-------------------------------------|----------------------|-----------|----------------------|-----------|
|                                     | No. of               | Rs.       | No. of shares        | Rs.       |
| At the beginning of the year        | 45585975             | 45,585.98 | 45585975             | 45,585.98 |
| Increase / decrease during the year | 0                    | -         | 0                    | -         |
| At the end of the year              | 45585975             | 45,585.98 | 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 Mar     | As at March 31, 2020 |               | h 31, 2019 |
|-------------------|---------------|----------------------|---------------|------------|
|                   | No. of shares | % holding            | No. of shares | % holding  |
| Governor of Assam | 45585967      | 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, 2020 |
|---|----------------------|
| Aggregate number of shares issued for consideration other than cash during the period of five years immediately preceding the reporting date: | 45585975             |



9. OTHER EQUITY

| Particulars   | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Capital Reserve*                                      |                                      |  |
| Capital Reserve                                       | 1,03,068.91                          | 1,01,074.43                                      |
| Total (A)   | 1,03,068.91                          | 1,01,074.43                                      |
| Surplus/(deficit) in the Statement of Profit and Loss |                                      |  |
| Profit (Loss) as per last Balance Sheet               | (11,153.79)                          | (13,582.42)                                      |
| Other Adjustments                                     | (33.65)                              |  |
| Profit (Loss) for the year                            | 428.36                               | 2,428.64   |
| Net surplus/(deficit) in the Statement of Profit and  | (10,759.08)                          | (11,153.79)                                      |
|   |                                      | 00.000.04  |
| Total (A+B)   | 92,309.83                            | 89,920.64  |

\*Movement of Capital Reserve

| Particulars                                  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|--------------------------------------|--|
| Grant from GoA -1                            |                                      |  |
| At the beginning of the year                 | 73,624.47                            | 66,316.93  |
| Accrual during the year                      | 278.46                               | 7,307.54   |
| Released to the statement of profit and loss | -                                    |  |
| At the end of the year                       | 73,902.93                            | 73,624.47  |
| Grant from GoA -2                            |                                      |  |
| At the beginning of the year                 | 22,081.06                            | 19,993.83  |
| Accrual during the year                      | 1,716.03                             | 2,087.23   |
| Released to the statement of profit and loss | -                                    | *  |
| At the end of the year                       | 23,797.08                            | 22,081.06  |
| Grant from GoA-3(NABARD)                     |                                      | V. 7800V0. 780                                   |
| At the beginning of the year                 | 4,284.42                             | 4,284.42   |
| Accrual during the year                      |                                      | *  |
| Released to the statement of profit and loss | -                                    |  |
| At the end of the year                       | 4,284.42                             | 4,284.42   |
| Donated Capital Assets                       |                                      |  |
| At the beginning of the year                 | 1,084.48                             | 1,084.48   |
| Accrual during the year                      | -                                    |  |
| Released to the statement of profit and loss | -                                    |  |
| At the end of the year                       | 1,084.48                             | 1,084.48   |

# 10. FINANCIAL LIABILITIES

(I). BORROWINGS

| Particulars                            | Rate of Interest (%) | As on 31-03-2020<br>(in Rs.) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|----------------------|------------------------------|--|
| SECURED                                | 5 700/ 10 5 10/      | 20,000,00                    | 24.455.40  |
| Other parties - PFCL                   | 9.76%-12.54%         | 32,096.28                    | 34,455.10  |
| Total (A)                              |                      | 32,096.28                    | 34,455.10  |
| UNSECURED                              |                      |                              |  |
| From other parties - State Govt. (ADB) | 10%                  | 2,629.50                     | 2,438.83   |
| From other parties - State Govt. (GoA) | 10%                  | 29,381.87                    | 31,495.07  |
| Total (B)                              |                      | 32,011.37                    | 33,933.90  |
| Total (A+B)                            | Warda                | 64,107.65                    | 68,389.00  |

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| Particulars                             | Terms of repayment and security   |
|---|---|
| PFC Loan No. 62102002 (Rs. 125 Crs.)    | Repayable in 180 structured monthly installments starting from January 15, 2007 to December 15, 2021.  PFC Loan No. 62102002 is taken against hypothecation of future assets of KLHEP created out of the loan.  |
| PFC Loan No. 62404001 (Rs. 18.28 Crs.)  | Repayable in 60 structured quaterly installments starting from April 15, 2009 to January 15, 2024.<br>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 quaterly 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 quaterly 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                                | Repayable in 10 structured monthly installments. However no repayment is done yet except for one installment of KLHEP.  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% will be charged above the normal rate of interest. |
| ADB Loan                                | Repayment terms and other conditions yet to be informed by GoA. Accordingly no repayment provided for FY 2019-20 as current liabilities as against commented by Statutoy Auditor  |

| Particulars                             | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Provision For Employees Benefits        | 9.511.30                             | 8,502.02   |
| Provision For Employees Benefits  Total | 9,511.30                             | 8,502.02   |

(i) Claim for recovery of appropriate share (82.31%) of GPF & (57.02%) of LEB as past unfunded liability 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

1,009.28

Receivable against LEB:

Rs. In Lakh

644.65

Total Receivable during the year

1,653.94

| 12. OTHER NON CURRENT LIABILITIES  Particulars | As on<br>31-03-2020<br>(Rs. In Lakh)    | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|---|--|
| GPF Liability pending write off                | 2,877.49<br>3,215.50<br><b>6,092.98</b> | 6,586.94<br>-<br><b>6,586.94</b>                 |



# 13. FINANCIAL LIABILITIES

# (I). TRADE PAYABLES

| Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>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                            | 3,553.74                             | 3,034.61   |
| Liabilities for Transportation of Gas                    | 2,037.97                             | 1,914.71   |
| Total  | 5,591.70                             | 4,949.32   |

# \* 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

| GAS SUPPLIERS & TRANSPORTERS | Rs. In Crore |
|------------------------------|--------------|
| OIL                          | 2,053.01     |
| AGCL                         | 3,273.62     |
| GAIL                         | 265.07       |
| TOTAL                        | 5,591.70     |

| Particulars   | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|---|--------------------------------------|--|
| Current Maturities of Long Term Debt Repayment due to State Govt. Loan Interest accrued but not due on Borrowings Interest accrued and due on Borrowings* | 31,647.34<br>735.18<br>37,581.53     | 26,274.60<br>476.96<br>30,404.46                 |
| Repayment due to PFC Loan  Total  | 4,395.66<br><b>74.359.71</b>         | 4,247.46<br><b>61,403.48</b>                     |

\* Interest accrued and due on borrowings includes :-

(a) State Govt Loan (b) PFC Loan

36694.79

886.74

# 14 OTHERS CURRENT LIABILITES

| Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh) | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|--------------------------------------|--|
| Provision For Employes Benefits Staff related gratuity provision (NPS)         | 1,258.56                             | 1,016.85   |
| Salaries, wages, bonus   | 461.86                               | 281.41   |
| Employees' contribution & recoveries   | 49.48                                | 64.34<br>139.36                                  |
| Employees' contribution & recoveries in Transfer scheme of ASEB                | 139.36                               | 139.30   |
| Other Payables   | 8.337.00                             | 8,564.06   |
| Deposits and retention from suppliers and contractors                          | 5.058.06                             | 5,080.43   |
| Liabilities for capital supplies /works<br>Liabilities for supplies/works(O&M) | 1,639.07                             | 1,606.83   |
| Other Liabilities  | 5,321.44                             | 2,061.58   |
| Advance (to) /from AEGCL   | (110.85)                             | (90.26)  |
|  | 67.82                                | 108.26   |
| Staff Pension Fund (DCP) Liabilities to railways for Coal receipt              | 739.37                               | 739.37   |
| Total  | 22,961.16                            | 19,572.23  |

| Particulars  | As on<br>31-03-2020<br>(Rs. In Lakh)          | As on<br>31-03-2019<br>(Rs. In Lakh)<br>Restated |
|--|---|--|
| Provision for Liability for Expenses Liability for Pension Provision of Audit Fees Provision for Building & other Construction workers welfare cess Prov. for Regulatory liability | 1,822.39<br>76.15<br>4.38<br>1.80<br>2,870.39 | 2,582.38<br>503.56<br>4.38<br>1.60<br>5,745.79   |
| Total  | ( Guvahati ) 4,775.10                         | 8,837.70   |

# Assam Power Generation Corporation Limited Notes to the Ind AS financial statements as at and for the year ended March 31, 2020

16. REVENUE FROM OPERATIONS

| Particulars                                   | For the year ended<br>March 31, 2020<br>Rs. In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |  |
|---|---|---|--|
| Sale of products Gross Sale of Power to APDCL | 50,167.36   | 51,502.08   |  |
| Other Adjustments**                           | 230.69  | 1,752.00  |  |
| Total Revenue from operations                 | 50,398.05   | 53,254.08   |  |

<sup>\*\*</sup> Other Adjustments 2019-20 includes Debit Note to AGCL towards Generation Loss

17. OTHER INCOME

| Particulars                             | For the year ended<br>March 31, 2020<br>Rs. In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |
|---|---|---|
| Rebate for timely payment               | 5.66  | 21.18   |
| Misc.receipts (except 62.901 &62.908)   | 528.78  | 526.51  |
| Rentals from staff quarters             | 2.02  | 15.17   |
| Other Income from trading               | -   |   |
| [7] [7] [7] [7] [7] [7] [7] [7] [7] [7] | -   | -   |
| Sale of scrap Total                     | 536.46  | 562.87  |

| 18. FINANCE INCOME   |   |   |  |
|--|---|---|--|
| Particulars  | For the year ended<br>March 31, 2020<br>Rs. In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |  |
| Interest   | _   | -   |  |
| Interest on House Building Advances to Staff Interest on Investment (Fixed Deposit)                  | 5,159.29  | 4,849.76  |  |
| Interest for investment (Tixed Deposit)  Interest from Banks (other than interest on fixed deposits) | 1.18  | 0.30  |  |
| Rebate received for timely payment of dues of loans, interest, etc.                                  | 52.73   | 17.75   |  |
| Total  | 5,213.20  | 4,867.81  |  |

19. COST OF MATERIALS CONSUMED

| Particulars                                  | For the year ended<br>March 31, 2020<br>Rs. In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |
|--|---|---|
| Indigenous Gas Gas/Oil (Internal Combustion) | 655.82<br>28,077.79                                 | 1,761.50<br>27,394.83   |
| Lubricants and consumable stores  Total      | 365.54<br><b>29,099.14</b>                          | 1.54<br><b>29,157.88</b>  |



<sup>\*\*</sup> Other Adjustments 2018-19 includes True up Gap allowed by AERC

# 20. EMPLOYEE BENEFITS EXPENSES

| Particulars                               | For the year ended<br>March 31, 2020<br>Rs. In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |  |
|---|---|---|--|
| Salaries                                  | 6,343.03  | 7,640.34  |  |
| Overtime                                  | 173.20  | 110.35  |  |
| Dearness Allowance                        | 945.49  | 517.95  |  |
| Other Allowances                          | 1,009.61  | 888.88  |  |
| Bonus                                     | 13.44   | 14.08   |  |
| Sub Total                                 | 8,484.78  | 9,171.60  |  |
| Less:-Employees cost capitalised          | 638.12  | 287.78  |  |
| Total Salaries and Wages                  | 7,846.66  | 8,883.81  |  |
| Contribution to provident and other funds | 1,427.31  | 1,334.70  |  |
|   | 1,427.31  | 1,334.70  |  |
| Medical expenses reimbursement            | 11.74   | 10.09   |  |
| Leave travel concession (L.T.C)           | 2.14  | 4.49  |  |
| Earned leave encashment.                  | 494.78  | 116.41  |  |
| Other Staff Cost                          | 0.51  | 1.46  |  |
| Capacity building expenses                | 33.78   |   |  |
| Staff Welfare                             | 21.80   | 13.58   |  |
| Total Staff Welfare Expenses              | 564.74  | 146.03  |  |
| TOTAL:                                    | 9,838.71  | 10,364.55   |  |

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<br>March 31, 2020<br>Rs. In Lakh | For the year ender<br>March 31, 2019<br>Rs. In Lakh<br>Restated |  |
|--|---|---|--|
| Manufacturing Expenses   |   |   |  |
| Repair and Maintenance of Plant and Machinery  | 1,574.86  | 1,353.48  |  |
| Repair and Maintenance of Building   | 317.34  | 322.06  |  |
| Repair and Maintenance of Hydraulic Works  | 89.29   | 109.67  |  |
| Repair and Maintenance of Civil Works  | 52.38   | 169.28  |  |
| Repair and Maintenance of Lines, Cable Net Works etc   | 1.65  | 0.10  |  |
| Repair and Maintenance of Vehicles   | 2.78  | 1.41  |  |
| Repair and Maintenance of Furniture and Fixures  | 4.38  | 2.98  |  |
| Repair and Maintenance of Office Equipment   | 10.76   | 13.44   |  |
| THE PARTY OF BOOK SEC. SUCCESSED AND CONTRACT CONTRACT OF A SECTION OF CONTRACT CONT | - 1 1 1 2 <del>2 -</del>                            |   |  |
| Establishment Expenses   |   |   |  |
| Rent Rates and Taxes   | 70.41   | 24.51   |  |
| Insurance  | 211.87  | 229.76  |  |
| Telephone Charges,   | 2.94  | 6.20  |  |
| Postage. Telegram& Tele Charges  | 8.57  | 4.22  |  |
| Cost Audit Fees  | 0.66  | 0.54  |  |
| Legal charges  | 10.20   | 13.07   |  |
| Audit Fee  | 12.76   | 4.77  |  |
| Consultancy charges  | 121.88  | 114.39  |  |
| Technical Fee  | -   | -   |  |
| Other Professional Charges   | arda 6.73   | 37.64   |  |
| Conveyance and Travel  | 56.81   | 70.86   |  |
| Other administrative expenses  | 340.53  | 611.64  |  |

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| Freight  | 0.08     | 1.65     |
|--|----------|----------|
| Board Meeting expenses                                 | 12.74    | 5.59     |
| Other misc. expenses                                   | 28.80    | 25.13    |
| CSR  | 13.78    | 37.73    |
| Penalty for delay in Taxes matter                      | -        | 192.89   |
| Fees paid to AERC                                      | 115.00   | 112.70   |
| Total  | 3,067.19 | 3,465.74 |
| Less:- Administration and General Expenses capitalised | 9.38     | 16.34    |
| Total  | 3,057.80 | 3,449.40 |
| Prior period incomes                                   |          |          |
| Other Excess Provision                                 | ¥11      | 585.07   |
| Sub-Total-1  | -        | 585.07   |
| Prior period expenses                                  |          |          |
| Operating expenses for Prior Period                    |          | 1.47     |
| Sub-Total-2  |          | 1.47     |
| Prior period items                                     | -        | (583.60) |
| Net Total  | 3,057.80 | 2,865.80 |

22. DEPRECIATION AND AMORTIZATION EXPENSE

| Particulars                           | March | year ended<br>31, 2020<br>In Lakh | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated |  |
|---------------------------------------|-------|-----------------------------------|---|--|
| Building                              | 40    | 127.06                            | 134.19  |  |
| Hydraulic                             |       | 941.20                            | 940.95  |  |
| Other civil works                     |       | 763.17                            | 619.17  |  |
| Plant & machinery                     |       | 3,374.56                          | 3,144.34  |  |
| Lines & cable network                 | -     | 112.73                            | 121.61  |  |
|                                       | 14    | 0.67                              | 1.71  |  |
| Vehicles                              |       | 6.60                              | 5.51  |  |
| Furniture & fixtures                  |       | 10.95                             | 10.38   |  |
| Office equipment                      |       | 2.68                              | 2.68  |  |
| Roads on land belonging to others     |       | 283.16                            | 283.79  |  |
| Capital spares at generating stations |       | 5,622.77                          | 5,264.34  |  |
| Total                                 |       | 5,022.11                          | 0,201101  |  |

23. FINANCE COSTS

| Particulars  | For the year ended<br>March 31, 2020<br>Rs. In Lakh                          | For the year ended<br>March 31, 2019<br>Rs. In Lakh<br>Restated              |  |
|--|--|--|--|
| Interest Expenses Interest on State Govt. Loan Interest on State Govt. Loan - Penal Interest Interest on PFC Loan Interest on GoA (ADB) Loan Interest on GPF Less:Interest Capitalised Total | 5,789.27<br>1,406.28<br>4,467.76<br>258.22<br>248.95<br>4,192.58<br>7,977.89 | 5,516.89<br>1,113.40<br>4,819.64<br>236.95<br>435.98<br>4,251.48<br>7,871.38 |  |
| Other Borrowing Costs Bank charges Other Costs Tota  | 6.82<br>-<br>6.82  | 5.18<br>-<br><b>5.18</b>   |  |
| Total  | 7,984.71   | 7,876.56   |  |

'Interest Expenses' capitalised against PFC loan of NRPP. 'Interest Expenses' capitalised against State Govt. Loan. 'Interest Expenses' capitalised against GoA (ADB) Loan. ₹ 3,666.59 Lakh ₹ 513.65 Lakh ₹ 12.35 Lakh 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<br>March 31, 2020<br>Rs. | For the year ended<br>March 31, 2019<br>Rs.<br>Restated |
|--|---|---|
| Net profit/(loss) for calculation of basic and diluted EPS (Rs.)  Total number of equity shares outstanding at the end of the year | 4,28,35,567<br>4,55,85,975                  | 24,28,63,682<br>4,55,85,975                             |
| Weighted average number of equity shares in calculating basic and diluted EPS  | 4,55,85,975                                 | 4,55,85,975   |
| Basic and diluted EPS (Rs.)  | 0.94  | 5.33  |

# Note on Re-statement of Financial Statement

**A.** During the Financial Year 2019-20, the Company has restated its financial statement for the FY 2018-19 & 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:

The amount of correction at the beginning of earliest period i.e. on 01-04-2018
 Other Equity decreased by Rs. 17.12 Lakhs as on 01-04-2018

# 2. FY 2018-19

On restatement of comments by the Statutory/CAG auditors and other errors the Profit before taxes increased by 226.67 Lakhs as on 31-03-2019

Current tax liability increased by Rs. 48.37 Lakhs



# Assam Power Generation Corporation Limited Notes to the Ind AS financial statements as at and for the year ended March 31, 2020

# 25. 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 unobsorbed depriciation.

# 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.

#### 26. 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.

# 27. 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:

#### 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, 2020 and March 31, 2019

The sensitivity analyses 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, 2020 and March 31, 2019

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, 2020 and March 31, 2019

## 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:

| (1             |  |                             |  |  |
|----------------|--|-----------------------------|--|--|
| Particulars    | Increase /<br>decrease<br>in basis<br>points | Effect on profit before tax |  |  |
| March 31, 2020 |  |                             |  |  |
| INR            | +50 bps                                      | (3,31,24,163)               |  |  |
| INR            | -50 bps                                      | 3,31,24,163                 |  |  |
| March 31, 2019 |  |                             |  |  |
| INR            | +50 bps                                      | (4,06,14,737)               |  |  |
| INR            | -50 bps                                      | 4,06,14,737                 |  |  |

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 counterparty 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.

# 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, 2020   | On<br>demand | Less<br>than 1<br>year | 1 to 3<br>years | 3 to 5<br>years | > 5 years | Total    |
|--|--------------|------------------------|-----------------|-----------------|-----------|----------|
| Other financial liabilities  |              |                        |                 |                 |           |          |
| Interest accrued and due on borrowings   | 37581.53     | -                      | -               | -               | -         | 37581.53 |
| Interest accrued and not due on borrowings Trades and other payables*                      | -            | 735.18                 | -               | -               | -         | 735.18   |
| Trades payables (including dues payable towards purchase of property, plant and equipment) |              | 5591.70                | -               |                 | -         | 5591.70  |

| As at March 31, 2019   | On<br>demand | Less<br>than 1<br>year | 1 to 3<br>years | 3 to 5<br>years | > 5 years | Total    |
|--|--------------|------------------------|-----------------|-----------------|-----------|----------|
| Other financial liabilities  |              |                        |                 |                 |           |          |
| Interest accrued and due on borrowings   | 30404.46     | -                      | -               | -               | -         | 30404.46 |
| Interest accrued and not due on borrowings Trades and other payables*                      | -            | 476.96                 | -               | -               | -         | 476.96   |
| Trades payables (including dues payable towards purchase of property, plant and equipment) | -            | 4949.32                | -               |                 | -         | 4,949.32 |

<sup>\*</sup>Trade payables are interest bearing and are normally settled on 15-30 days terms, however as per terms of agreements with certain vendors, the credit period may extend beyond normal terms.

# 28. CAPITAL AND OTHER COMMITMENTS

(Rs. In Lakh)

| Particulars  | As at March<br>31, 2020 | As at March<br>31, 2019 |
|--|-------------------------|-------------------------|
| Estimated amount of contracts remaining to be executed on capital account and not provided for (net of advances) | 2,216.87                | 18,179.58               |

# 29. CONTINGENT LIABILITIES / LITIGATIONS:

(I) Oil India Ltd. by its mail dt. 08/05/2020 has claimed the following amount as due from the company in addition to the due payable for supply of natural gas.

For LTPS: 3.36 Crore (MGQ LTPS)

An amount of Rs. 111.63 Lakh towards MGQ- LTPS is agreed by APGCL in recent MoMs with OIL. Debit Note for the same is yet to issue from OIL.

(II) Assam Gas Company Ltd. by its mail dated 02-06-2020 has raised the following claims in addition to its due against its regular bill for transportation /transmission of Gas & supply of Gas.

LTPS: Rs. 38.73 Crore NTPS: Rs. 9.82 Crore

APGCL on contrary has raised a debit note to AGCL for an amount of Rs. 4121.22 lac vide letter No. APGCL/LTPS/GM/2015/T-13 (A)/332 dt. 12/06/2015 for its failure to transport the compressed Gas with adequate flow and charging rate for transportation of compressed gas instead rate for uncompressed Gas. The claims are disputed and hence no provision against the above claim of AGCL is made. APGCL has adjusted Rs. 3263.69 lakh to AGCL towards Lakwa TPS for the period October'14 to March'20 with respect to the debit note raised...

(III) 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 Terenglangso project & Development Committee started demanding compensation to effected people & final amount of such demand is Rs. 858.00 lac . According to the Deputy Commissioner , Karbi Anglong Autonomous council there were flaws in determination of compensation amount and need review for amicable settlement. The matter is still under settlement. The land is already in possession & part of the project is under construction & part is already under production. No provision against this probable land compensation is made in the account.

## 30. 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.

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.

(Rs. In Lakh)

| Particulars  | As at March 31, 2020 | As at March 31, 2019 | As at March<br>31, 2018 |
|--|----------------------|----------------------|-------------------------|
| Borrowings (refer note 10 & 13(II))                | 64107.65             | 68389.00             | 94069.95                |
| Less: Cash and cash equivalents (refer note 6(II)) | 5259.34              | 38962.87             | 12569.08                |
|  | 58848.30             | 29426.13             | 81500.87                |
| Net debt   | 45585.98             |                      | 45585.98                |
| Equity share capital (refer note 8)                | 92309.83             |                      | 78097.24                |
| Other equity (refer note 9)                        | 400744 44            |                      | 205184.08               |
| Capital and net debt  Gearing ratio                | 30%                  |                      |                         |

# 31. 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.

# 32. 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.

33. The Company has earned a profit of Rs.4,28,35,567/- (March 31, 2019 : Rs.24,28,63,682/-) for the year ended March 31, 2020 and its net current assets stands at Rs.128,84,42,206/- (March 31, 2019 : Rs.301,75,72,858/-) as at the year end.

# 34. Disclosure as per Ind AS-24"Related party Disclosure"

# a. Whole Time Directors:

| V. K. Pipersenia | Chairman          |  |  |
|------------------|-------------------|--|--|
| Kalyani Baruah   | Managing Director |  |  |

## b. Parent Entities

The Governor of Assam holds 99.98% ownership interest in APGCL including and as on March 31, 2020.

| Particulars                            | As on 31-03-<br>2020 | As on 31-03-<br>2019 |  |
|--|----------------------|----------------------|--|
| Purchase or sales of Goods or services |                      |                      |  |
| Other transaction                      | Nil                  | Nil                  |  |
| Dividend                               |                      |                      |  |

# c. Key Managerial Personnel:

- i) Smti Bimala Brahma: Chief Financial Officer.
- ii) Smti Nayana Das: Company Secretary

# d. Managing Director's & Key Managerial Personnel's Remuneration:

| Particulars         | Salary & Allowances, Contribution to PF and other benefits |               |  |  |
|---------------------|--|---------------|--|--|
| 2 (1000)            | Current Year   | Previous Year |  |  |
| Smti Kalyani Baruah | Rs.24,59,944   | Rs.28,57,024  |  |  |
| Smti Bimala Brahma  | Rs.15,67,545   | Rs.15,07,274  |  |  |
| Smti Nayana Das     | Rs.14,87,865   | Rs.15,52,450  |  |  |
| Total:              | Rs. 55,15,354  | Rs. 59,16,748 |  |  |

# e. Transaction with Related Parties:

| Particulars   | As on 31-03-<br>2020 | As on 31-03-<br>2019 |  |
|---|----------------------|----------------------|--|
| Sales and purchase of goods and services sale of goods to associates purchase of raw materials from associates purchase of various goods and services from entitles controlled by key management personnel Professional | Nil                  | Nil                  |  |
| services Other transactions Loans and outstanding balances  | Nil                  | Nil                  |  |

# 35. Operational Performance:

The operational performance of the company is detailed in Annexure-A.

# 36. 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 31-03-20 in rupees Lakh is as tabulated below -

| Supplier | Outstanding<br>principal (Rs. In<br>Lakh) | Total (Rs. In<br>Lakh) |
|----------|---|------------------------|
| OIL      | 2053.01                                   | 2053.01                |
| GAIL     | 265.07                                    | 265.07                 |
| AGCL     | 3273.62                                   | 3273.62                |

There are no suppliers in APGCL who fall under Micro, Small & Medium Enterprises Development Act, 2006.

- 37. During the FY 2019-20, the fuel consumption data provided by AGCL for the period from April'2019 to September, 2019 was observed to be erroneous comparing to the performance of generating sets of LTPS Ph-II and LRPP. The excess gas volume data provided by AGCL and billed by OIL for the above period has been evaluated in financial figure and a debit note is issued for recovering the excess billed amount. The debit note of Rs. 1394.47 Lakhs is accounted in this FY.
- 38. A Debit Note of Rs. 230.69 Lakh is raised to AGCL towards loss of Power Generation for exceeding the allowable no. of days for Gas Pipeline shut down availed by AGCL.
- **39.** In the Tariff Order passed by AERC on 7<sup>th</sup> March, 2020, the Commission has approved an amount of Rs:20.40 Crore as revenue surplus which needs to be adjusted with APDCL. This surplus is to be passed on to APDCL in twelve monthly equal installments of Rs. 1.70 Crore in FY 20-21. The regulatory liability of Rs. 20.40 Crore has been provided in accounts against unadjusted balances of regulatory liability appearing in FY 2019-20. The Receivables from APDCL has been reduced to that extent.
- **40.** 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 on as and when received.
- **41**. During the FY, a debit note is issued to APDCL towards delay payment charges for Rs. 3.54 Crore in line with PPA and AERC Regulations.
- 42. In respect of Gratuity to the employees fall under NPS, a provision has been made in the Accounts for an amount of Rs. 1258.56 lakh.

Leave encashment benefit 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. So, the ascertainment of the balance leave earned at the end of the year by each employee is not feasible and hence no provision for leave encashment benefit is provided in the accounts. However, the Company is going to implement ERP in the next financial year and the provision for leave encashment benefit shall be made accordingly.

- **43.** Value of imports calculated on C.I.F. basis: Value of imports calculated on C.I.F. basis incurred during the year 2019-20 on import of Capital goods is Rs. 7,85,08,350/-.
- **44.** Expenditure in foreign currency: The Expenditure in foreign currency incurred during the year 2019-20 on import of capital goods is Rs. 7,85,08,350/-.
- **45.** 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.
- **46**. 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.

Details of Fixed Deposits held as margin money or security against borrowing, guarantee, other commitment:

| SI.<br>No | Purpose                        | Bank        | Amount       |
|-----------|--------------------------------|-------------|--------------|
| 1         | LC against OIL                 | Indian Bank | 2,00,00,000  |
| 2         | LC against GAIL                | Indian Bank | 19,89,89,268 |
| 3         | BG against Guwahati High Court | HDFC Bank   | 36,00,000    |
| 4         | LC against M/S VOITH HYDRO     | HDFC Bank   | 7,36,32,000  |
| 5         | LC against M/S VOITH HYDRO     | Axis Bank   | 2,52,06,811  |

- 47. The Company prepares Bank Reconciliation Statement regularly for each bank a/c in its name.
- 48. Corporate Social Responsibility and Sustainable development
- a) Gross amount required to be spent by the Company during the year: `Rs. 51.41 Lakh
- b) Amount spent during the year on: Rs. 13.78 Lakh
- c) Work order issued, bills not submitted: Rs.23.17 lakh
- 49. Details of remuneration to Auditors:

| Particulars         | Amount including Service Tax (in Rs.) |
|---------------------|---------------------------------------|
| Statutory Audit Fee | 3,56,950.00                           |
| Cost Audit Fee      | 51,600.00                             |
| Tax Audit           | 29,500.00                             |
| Total               | 4,38,050.00                           |

As per our separate report of even date For K.P SARDA & Co.

**Chartered Accountants** 

Firm Registration No. 319206E

(CA. K P SARDA)

Partner

Membership No.: 054555

Place: GUWAHATI
Date: 0708/20

UNN: 20054555 AAAA FU3584

For and on behalf of Assam Power Generation Corporation Limited

(Sri V. K. Pipersenia, IAS Retd)

Chairman

(Smti. Bimala Brahma)
Chief Financial Officer

Place : Guwahati Date : 28<sup>th</sup> July'2020 (Smti. Kalyani Baruah)
Managing Director

(Smti. Nayana Das)
Company Secretary

### ASSAM POWER GENERATION CORPORATION LIMITED

### ANNEXURE - A

### OPERATIONAL PERFORMANCE

| SI. No. | Particulars   | 2019-20  | 2018-19  |
|---------|---|----------|----------|
| (1)     | (2)   | (3)      | (4)      |
| 1       | Installed Capacity (MW)                                     |          |          |
|         | (a) Thermal   |          |          |
|         | (b) Hydel   | 110.50   | 105.04   |
|         | (c) Gas   | 266.46   | 263.73   |
| •       | Total   | 376.96   | 368.77   |
| 2       | Power Generated (MU) (a) Thermal                            |          |          |
|         | (b) Hydel   |          |          |
|         | KLHEP   | 398.528  | 369.288  |
|         | MSHEP   | 28.795   | 8.731    |
|         | (c) Gas   |          |          |
|         | NTPS  | 252.863  | 314.373  |
| TAL     | LTPS  | 362.006  | 472.091  |
|         | LRPP  | 504.200  | 429.976  |
|         | Total Generation (MU)                                       | 1546.392 | 1594.459 |
| 3       | Auxiliary Consumption (MU)                                  |          |          |
| -       | (a) Hydel   |          |          |
|         | KLHEP   | 1.680    | 1.846    |
|         | MSHEP   | 0.288    | 0.087    |
|         | (b) Gas   |          |          |
|         | NTPS  | 15.012   | 21.206   |
|         | . LTPS  | 37.612   | 48.603   |
|         | LRPP  | 14.722   | 12.94    |
|         | Total Auxiliary Consumption (MU)                            | 69.314   | 84.688   |
| 4       | Total power available for sale (MU)                         | 1477.077 | 1509.771 |
| 5       | Power sold (MU)   | 1477.077 | 1509.77  |
| 6       | Units generated per MW of installed capacity (in Lakh unit) | 41.0     | 43.2     |
| 7       | Plant Load Factor (%)                                       |          |          |
|         | (a) Thermal   |          |          |
|         | (b) Hydel   |          |          |
|         | KLHEP   | 45.41%   | 42.16%   |
|         | MSHEP   | 34.43%   | 19.87%   |
|         |   | 34.43 /0 | 13.07 /  |
|         | (c) Gas   | 20.500/  | 25 220   |
|         | NTPS  | 28.50%   | 35.22%   |
|         | LTPS  | 40.21%   | 51.54%   |
|         | LRPP  | 82.78%   | 75.92%   |
| 8       | Percentage of generation to installed capacity              |          |          |
|         | (a) Thermal   |          |          |
|         | (b) Hydel   | 44.15%   | 41.08%   |
|         | (c) Gas   | 47.94%   | 52.65%   |
| 9       | Fuel  |          |          |
|         | a) Gas Consumption (MMSCM)                                  |          |          |
|         | NTPS  | 129.017  | 152.299  |
|         | LTPS  | 130.963  | 143.3    |
|         | LRPP  | 115.130  | 99.6     |
|         | b) Average calorific value of Gas (Kcal/SCM)                |          |          |
|         | NTPS  | 9158     | 827      |
| Year    | LTPS  | 9389     | 914      |
|         | LRPP  | 9389     | 914      |
| BAL     | c) Gas Consumption per unit of generation (in SCM/Kwh)      |          |          |
|         | Xe Sarda de NTPS  | 0.5102   | 0.484    |
|         | LTPS  | 0.3618   | 0.303    |
|         |   |          |          |

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 LIMITED FOR THE YEAR ENDED 31 MARCH 2020

The preparation of financial statements of Assam Power Generation Corporation Limited for the year ended 31 March 2020 in accordance with the financial reporting framework prescribed under the Companies Act, 2013 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 Companies Act, 2013 are responsible for expressing an opinion on these financial statements under section 143 of the Companies Act, 2013 based on an 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 7st August 2020.

I, on behalf of the Comptroller and Auditor General of India have conducted the supplementary audit of the financial statements of **Assam Power Generation Corporation**Limited for the year ended **31 March 2020** under section 143(6)(a) of the Companies Act, 2013. 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 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 Companies Act, 2013 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

Statement of Profit and Loss
Expenses
Other expenses (Note 21)
Repair and Maintenance of Plant and Machinery ₹15.75 crore

A-1: This is understated by ₹ 2.15 crore due to non-accounting of fixed O&M support expenses payable in respect of Lakwa Thermal Power Station of the Company for the period November 2019 to March 2020. This has correspondingly resulted in understatement of "Other Current Liabilities" and overstatement of "Profit for the year" by 2.15 crore each.

#### **B.** COMMENTS ON FINANCIAL POSITION

Balance Sheet
Equities and Liabilities
Current Liabilities
Provisions (Note 15)
Provision for Regulatory liability ₹ 28.70 crore

**B1:** As per Tariff order for the financial year 2019-20, Namrup Thermal Power Station (NTPS) of the Company was to achieve the minimum availability index of 50 per cent for recovering full fixed cost. In the event of non-achievement of the prescribed minimum availability index, the proportionate annual fixed charges will not be allowed by AERC during truing up of tariff for 2019-20 (Regulation 51.1 of the Multi Year Tariff regulations 2018, read with clause 8.2.6 of the Tariff order for the year 2019-20).

AERC had provisionally allowed annual fixed cost of ₹22.50 crore for NTPS for the financial year 2019-20 subject to achievement of minimum availability index. Though the Company could achieve availability index of 32.44 per cent for NTPS during 2019-20, it did not make provision for proportionate annual fixed cost to be refunded to APDCL due to under achievement of availability index.

This has resulted in understatement of 'Provision for Regularity liability' by ₹ 7.90 crore with corresponding overstatement of 'Profit for the year' to the same extent.

**B2:** Refer comment (no. B 1) issued on the Accounts for the year 2018-19 regarding not writing back the excess 'provision against regulatory liability' (₹ 57.46 crore).

During the year 2019-20, AERC while truing up the tariff for 2018-19 and disposing Review petition on tariff order for 2017-18, declared refundable revenue surplus of ₹ 28.76 crore for 2018-19 (20.40 crore) and 2017-18 (₹ 8.36 crore).

The declared revenue surplus for two years (2018-19 and 2017-18) was to be refunded to APDCL during 2020-21 and 2019-20 respectively. Accordingly, out of the provisions for regulatory liability (₹ 57.46 crore) available as on 1 April 2019, the Company should have kept the closing balance of provisions at ₹ 20.40 crore (equivalent to revenue surplus (2018-19) refundable during 2020-21) and writing back the excess provision (₹ 28.70 crore) to 'Other Equity' after adjusting the revenue surplus of ₹ 8.36 crore (2017-18) refundable during 2019-20. On the contrary, the Company adjusted the entire declared refundable surplus (₹ 28.76 crore) against the aforesaid provision and credited (reduced) the corresponding amount to "Trade Receivables-receivables against sale of power-APDCL'.

This has resulted in overstatement of 'Provision for Regulatory Liability' by ₹ 8.30 crore, understatement of 'Other Equity' by ₹28.70 crore with corresponding understatement of 'Trade Receivable-Current Financial Assets' (Note6-I) by ₹20.40 crore.

#### C. COMMENTS ON DISCLOSURE

C1: The Company booked ₹ 13.94 crore under 'fuel related receivables & claims (OIL)-other current assets' (Note-7) against excess gas volume billed by M/s Oil India Limited(Oil) for the period April 2019 to September 2019 based on a debit note issued (March 2020) on OIL. The claim of the Company has not been confirmed/accepted by OIL, while submitting 'station-wise' outstanding balances (as on 31 March 2020) to the Company, which was also accepted by the latter without any protest. The fact that the debit note has not been accepted merits for appropriate disclosure under 'Notes on Accounts'.

C2: The Company has not disclosed in Accounting policy for accounting of items of income/expense based on regulatory issues indicating "truing up" orders of AERC.

For and on the behalf of the

Comptroller and Auditor General of India

Place: Guwahati

Date: 06-11-2020

Principal Accountant General (Audit), Assam



# **AUDITORS' COMPLIANCE CERTIFICATE**

We have conducted the audit of accounts of **ASSAM POWER GENERATION CORPORATION LIMITED** having its registered office **at BIJULEE BHAWAN, PALTAN BAZAR, GUWAHATI** for the financial year ended on March 31, 2020 in accordance with the directions/sub-directions issued by the Comptroller & Auditor General of India under section 143 (5) of the Companies Act 2013 and certify that we have complied with all the directions / sub directions issued to us.

UDIN : 20054555AAAAFU3584

Place : G u w a h a t i Date : 07/08/2020



For K P Sarda & Co. Chartered Accountants FRN: 319206E

(CA. K P Sarda)
Partner

Membership No. 054555



#### 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, 2020, 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, 2020, 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.



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## 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.



Contd...P/3..

+91 98640 60803, 94350 17315 **(**) +91 361 2512159, 2634672 **(a)** kpsarda@gmail.com **(a)** 



SC-11, Parmeshwari Building, 2<sup>nd</sup> Floor Chatribari Road, Guwahati - 781001, Assam

http://kpsardaco.org.in



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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 statement 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 are 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.



Contd...P/4..

+91 98640 60803, 94350 17315 **(** +91 361 2512159, 2634672 **(a)** kpsarda@gmail.com **(a)** 



SC-11, Parmeshwari Building, 2<sup>nd</sup> Floor Chatribari Road, Guwahati - 781001, Assam

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:: 4 ::

- 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.

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.



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# 7. Report on other legal and regulatory requirements

- 1. As required by the Companies (Auditor's Report) Order, 2016 ("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. 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. 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".



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- $\,$ g. 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) Necessary information has not been furnished in respect of other pending litigations existing as on the date of the financial statement and whether existence of such liability whether reported or not have material impact on the financial statement also not stated and hence unable to comment.
  - ii) The company did not have any long term contracts including derivative contracts for which there were any material foreseeable losses.
  - iii) There were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Company.

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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.

For K P Sarda & Co.

Chartered Accountants FRN: 319206E



UDIN : 20054555AAAAFU3584

Place : Guwahati Date : 07/08/2020 (CA. K P Sarda)

Partner Membership No. 054555



# ANNEXURE A TO THE AUDITOR'S REPORT

With Reference to paragraph 1 under the heading "Report on other legal and regulatory requirements" of the report of the auditor's to the members of ASSAM POWER GENERATION CORPORATION LIMITED on the accounts for the year ended on 31st March, 2020 we report that:

- (i) (a) The company has not maintained proper records showing full particulars including quantitative details and situation of fixed assets.
  - (b) As reported, the company does not have any policy of physical verification of fixed assets and hence question of adjustment of discrepancies if any does not arise. However, external agencies have been appointed for the verification of assets and the process is expected to be completed in FY 2020-21.
  - (c) The title deeds of immovable properties held in the name of the company was not produced before us for verification. As per the previous auditor's comment, the title deeds of land measuring 19 Bighas, 1 Katha & 15 Lechas at Namrup Thermal Power Station, Namrup was not in the name of the corporation and same is still persisting.
- (ii) As explained to us, the Company has not conducted physical verification of inventories during the year end but they have already engaged external agencies for the same. The verification procedure is expected to completed in FY 2020-21.
  - Moreover, the value of Other Material Account and Provision against stock are same as they were as at 31st March, 2017 and the same need to be reviewed.
- (iii) According to information and explanations given to us and on the basis of our examination of the books of accounts, the company has not granted any loans to bodies corporate & other parties covered in the register maintained under section 189 of the Companies Act, 2013 during the year. Accordingly, sub clause (a), (b) and (c) are not applicable.
- (iv) According to information and explanation given to us, the company has complied with the provisions of Section 185 & 186 of the Companies Act, 2013 in respect of loans, investments, guarantees and security.
- (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.

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- (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 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 as we were unable to visit the production units of the company due to Covid-19 restrictions with a view to determine the accuracy or completeness of the record.
- (vii) According to 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, value added tax, wealth tax, service tax, duty of customs, 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 are no disputed amounts payable in respect of income tax, sales tax, value added 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, the Company has not defaulted in the repayment of dues to financial institutions, banks or debenture holders during the year except to the State Government where principal and interest is not being repaid.
- (ix) 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. In our opinion and according to explanation given to us, we state that we cannot comment on the utilization of the term loans raised by the company as the company is not maintaining any project wise investment and source of investment details.



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- During the course of our examination of the books and records of the company, (x) carried out in accordance with the generally accepted auditing practice in India and according to information and explanation given to us, we have neither come across any instance of material fraud on or by the company, noticed or reported during the year, nor have we been informed of any such case by management.
- As per the Notification dated 05.06.2015 issued by Ministry of Corporate Affairs, (xi) the provisions of section 197 relating to managerial remuneration shall not apply to a Government company.
- In our opinion, the Company is not a Nidhi Company. Hence, the matters relating (xii) to Nidhi Company is not applicable in case of the company.
- According to the information and explanations given to us and based on our (xiii) examination of the records of the company, transactions entered by the company with the related parties are in compliance with section 177 and 188 of the Companies Act, 2013. Where applicable, the details of such transactions have been disclosed in the Financial Statements as required by the applicable accounting standards.
- Based upon the audit procedures performed and the information and explanations (xiv) given by the management, the company has not made any preferential allotment or private placement of shares or fully or partly convertible debentures during the year under review. Accordingly, the provisions of clause 3 (xiv) of the Order are not applicable to the Company and hence not commented upon.
- Based upon the audit procedures performed and the information and explanations (XV) given by the management, the company has not entered into any non-cash transactions with with directors or persons connected to him and therefore, provisions of clause 3(xv) of the order are not applicable to the Company.
- According to available information and in our opinion, the company is not required (xvi) to be registered under section 45 IA of the Reserve Bank of India Act, 1934. Accordingly the provisions of clause 3(xvi) of the order are not applicable to the Company.

For K P Sarda & Co.

Chartered Accountants FRN: 319206E

Membership No. 054555

(CA. K P Sarda)

Partner

20054555AAAAFU3584 UDIN

Place Guwahati 07/08/2020 Date

> +91 98640 60803, 94350 17315 📞 +91 361 2512159, 2634672 🗃

kpsarda@gmail.com



SC-11, Parmeshwari Building, 2<sup>nd</sup> Floor

http://kpsardaco.org.in

Guwahati

Chatribari Road, Guwahati - 781001, Assam



# 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, 2020 in conjunction with our audit of the 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 Companys' 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.

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# 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

The system of internal financial controls over financial reporting with regard to the Company were not made available to us to determine if the Company has established adequate internal financial control over financial reporting and whether such internal financial controls were operating effectively as at March 31, 2020.

We have considered the disclaimer reported above in determining the nature, timing and extent of audit tests applied in our audit of the standalone financial statements of the Company, and the disclaimer has affected our opinion on the financial statements of the standalone Company and we have issued a qualified opinion on the financial statements.

For K P Sarda & Co.

Chartered Accountants FRN: 319206E

(CA. K P Sarda)

Partner Membership No. 054555

UDIN

20054555AAAAFU3584

Place Date

Guwahati 07/08/2020





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# Annexure "D" to the Independent Auditors' Report

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**

| S.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. | 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.  | 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,                         |
| 10    | 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.   | On our verification, it appeared that the company has maintained project wise details of expenses and while auditing the financial statement of the corporation we have not noticed any such deviations. |

**UDIN**: 20054555AAAAFU3584

Date: 07/08/2020 Place: Guwahati For M/s. K P Sarda & Co.

Guwahati

Chartered Accountants FRN No. 319206E

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(CA. K P Sarda)

Partner

Membership No. 054555



# ANNEXURE C TO THE INDEPENDENT AUDITORS REPORT

## FOR THE YEAR ENDED 31.03.2020

# (Referred to in Paragraph 2 of our report of even date)

### 1. BORROWINGS

# A) UNSECURED LOAN

#### **GOVT LOAN**

The company avails loan from State Govt for various projects under state plan. The sanction letter of Government in respect of Govt. Loans received during the year was produced during audit.

The Company is not repaying loans to GOA and consequently making provisions for penal interest in its books of accounts. During the year under audit the Company has booked an amount of Rs. 1406.28 lakhs against penal interest. It is pertinent to mention that the AERC does not allow/ consider, any penal interest amount paid by the company to the suppliers/vendors/lenders, for determination of tariff. Hence, the Company may have to absorb all penal interest amount payable to GOA as it may not be realisable through tariff as revenue.

As per last auditors observation relating to FY 2017-18, there was calculation error and penal interest amounting to Rs. 836.96 lakhs should have been booked instead of Rs. 871.00 lakhs. The difference amount to the tune of Rs. 34.04 lakhs pertaining to FY 2017-18 has been adjusted in the current year financials.

#### ADB LOAN

The Company is treating the amount received from ADB (Asian Development Bank) at par with amount received from Government of Assam (GOA). The funding pattern for the same is considered in the ratio 90:10, whereby 90% of the fund received is treated as Grant and remaining 10% is treated as loan (Circular regarding the same not made available to us). Consequently, the Company is providing interest on the loan component @ 10% p.a. at par with loan from GOA.

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+91 98640 60803, 94350 17315 **(**) +91 361 2512159, 2634672 **(a)** 

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As per Schedule III of The Companies Act, 2013 the amount of instalments payable in next twelve months from the Balance sheet Date shall be classified under the Head Other Current Liabilities – Current Maturities of Long Term Debt. But the said Disclosures requirements have not been duly complied in the case of ADB Loan as repayment terms and other conditions are yet to be confirmed by GoA. We suggest that the terms should be finalised as early as possible, in absense of which the Borrowings has been overstated and Other current liabilities has been understated in the balance sheet.

## **PFC LOAN**

The difference of Rs. 10.74 lakhs pertaining to the PFC Loan Balance relating to FY 2018-19 have been adjusted with the CWIP Balance and the figure have been reinstated for FY 2018-19.

# 2. OTHER NON CURRENT LIABILITIES

#### **GPF**

A sum of Rs. 6092.98 lakhs is shown 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 organisation 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. Also the learned AERC had directed the Company to maintain separate account for the amounts received from the employees towards provident fund & its utilisation to be duly audited by statutory audit but the same is not followed.

Employee wise liability of GPF as on 31.03.2020 for the purpose of verification of liability shown in the books of accounts was furnished to us and on verification of the same, it was found that Rs. 3215.50 lakhs is shown excess in the books of accounts of the corporation which needs to be rectified. The necessary rectification of the same is not yet made in the financials of the corporation. The same has been shown as "Liability pending to be Written Off" under the head "OTHER NON CURRENT LIABILITIES"

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#### TRADE PAYABLES

Trade Payable represents liability towards OIL & GAIL for supply of fuel to the power stations of the Company at Lakwa and Namrup and liability towards Assam Gas Company Ltd. (AGCL) for transportation of Gas. The total outstanding amount payable to these suppliers as per the books of accounts stood at Rs 5591.70 lakhs as on 31.03.2020. The balance of GAIL and OIL (subject to Rs. 336.36 lakhs related to MGQ Bill) is matching with the confirmation produced before us for verification but the balance of AGCL needs to be reconciled and actual liability shall be booked in the books of accounts. The present practice of recognising liability as per corporation's book and showing the balance liability as contingent liability should be done away with.

According to IND-AS-37, a contingent liability is:

- (a) a possible obligation that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the entity; or
- (b) a present obligation that arises from past events but is not recognised because: (i) it is not probable that an outflow of resources embodying economic benefits will be required to settle the obligation; or (ii) the amount of the obligation cannot be measured with sufficient reliability.

Hence, a contingent liability should only be recognised if the above two parameters are met with and that should be properly disclosed in the notes to account of the company. We have not found reason to book the amount as contingent liability as the amount charged by AGCL is as per the agreement executed between APGCL and AGCL.



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## 3. OTHER CURRENT LIABILITIES

# A) PROVISIONS FROM EMPLOYEE BENEFIT

<u>Employees' contribution and recoveries – Miscellanoeus Recoveries from Staff</u> <u>amounting to Rs 139.35 lakhs</u>

The amount of miscellaneous recoveries from staff amounting to Rs. 139.35 lacs are long outstanding entries and need to be reviewed.

- B) OTHER PAYABLES
- (i) Deposits and Retention from Suppliers and Contractors Rs 8337 Lakhs.

The details of liability as shown under the above head were not available during the audit.

(ii) Liabilities For Capital Supplies/Works — Rs 5066.43 Lakhs Liabilities for Supplies Works (O&M) — Rs 1639.07 Lakhs.

No age wise, party wise, bill wise breakup of the above two heads was furnished. The company has not maintained any sub ledger maintained as such we could not verify whether the liability is long outstanding requiring write off if any and its impact on the financial statements. Further, no balance confirmation from the parties was produced for verification.

# (iii) Other liabilities - Rs 5321.44 lakhs

The following amount are shown under the above head

Railway Credit Notes -Coal - Rs 1851.15 lakhs

Income Tax deducted at source on payment to contractors - Rs 37.80 lakhs

Amounts received from Govt. towards settlement of Bordikorai liability – Rs 2204.25 lakhs Liability for Assam Sales Tax (VAT)/GST – Rs 53.02 lakhs.

Liability for Entry Tax - Rs. 3.73 lakhs

Income received in Advances - Rs. 1067.85 lakhs

Other miscellaneous liabilities - Rs 103.63 lakhs



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Out of above, Railway Credit Notes-Coal & Other Miscellaneous Liability of Rs 1851.15 lakhs and Rs 103.63 lakhs are long outstanding and are brought forward balances. Moreover, liabilities to railways for coal amounting to Rs. 739.37 lakhs are also long outstanding.

These long outstanding entries need to be reviewed and restructuring of the accounts should be done as early as possible.

# 4. FIXED ASSETS

The company has not maintained records, showing particulars including details and situation of Fixed Assets. Further title deeds of freehold land as on 31.03.2020 was not produced to us for our verification.

We have been informed that the Fixed Assets have not been physically verified by the management during the year. However, as reported to us, the management has started the process for valuation and verification of fixed assets and the same is expected to be completed during the FY 20-21.

## INVENTORY

As explained to us, the Company has not conducted any physical verification of inventories during the year end but we have been informed by the management that the company has started the process for valuation and verification of inventories and the same is expected to be completed during the FY 20-21. Hence the accuracy of the figure of inventories as shown in the financial statements cannot be relied upon.

Further, the Company has made a provision against stock for Rs 3203.05 lakhs and other material account amounting to Rs. 1,312.04 lakhs which is being continued as such since last several years and no basis for such provision could be produced to the audit. Therefore, we cannot comment on such provision. However, the process of verification and valuation of inventories have already been started and according to the management commentary, the same will be adjusted once the entire verification process is completed.

An amount of ₹ 0.39 lakhs which was the figure of negative stock during the year 2018-19 has been rectified in the current year financials.

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+91 98640 60803, 94350 17315 **(**) +91 361 2512159, 2634672 **(**) kpsarda@gmail.com **(** 

K P SARDA OMPANY GHARTERED ACCOUNTANTS SC-11, Parmeshwari Building, 2<sup>nd</sup> Floor Chatribari Road, Guwahati - 781001, Assam

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## 6. BALANCE WITH BANK

Account Balance statements of bank accounts were produced before audit and verified. The old non reconciled entries appearing in the bank reconciliation statement of the corporation has been rectified and necessary adjustments has been made in the current year financials.

A credit balance of Rs. 49,680/- was shown under Cash at bank during the FY 2018-19 in the name of Inter Unit Accounts (fund transfer from head office). The ledger was in the nature of Cash in Transit. The same has been rectified in the current year financials.

## 7. FIXED DEPOSIT WITH BANK

As per the observations of the last financial year 2018-19, there was a difference to the tune of Rs. 874.69 lakhs in the book balance and bank balance of the fixed deposits. The same has been rectified during the current financial year by reinstating the financial statements of the last year.

The balance as per FD Statements received from banks is matching with the balance as per books of accounts. However the interest on FD as recorded in the financial statements could not be verified from the Form 26AS of the Income Tax Department as the same was not updated till the date of our verification.

#### 8. LOANS

The following amount are shown under the above head Advance for O&M supplies/works – Rs 6756.89 lakhs Loans and advances to staff – Rs 31.78 lakhs Others - Rs. 52.59 lakhs

Party wise details and staff wise details of the above figure along with ledgers (if any) was not made available to us.



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## 9. OTHER CURRENT ASSETS

Other Current Assets include Fuel related Receivables & Claims {Railway claims for Coal}, Advance recoverable from Contractors, Deposits and Miscellaneous Receivable having Closing Balance of Rs 747.91 lakhs, Rs 144.05 lakhs, Rs 0.35 lakhs, Rs 9790.44 lakhs are all opening figures and old outstanding carried forward balances which requires proper adjustment or write off after fulfilment of necessary formalities. As the figures are long outstanding and proper details are also not available on record, such figures cannot be classified as current assets. Necessary adjustments are required to be made in the books of the accounts.

As per the notes of the corporation, other receivables includes portion of unfunded liabilities to be received from the Pension Trust on account of GPF & LEB payment, which is receivable since past many years and is not yet received. Such long outstanding receivables cannot be classified as current assets. The same should be rectified and reclassified as non current assets since the time frame involved in more than 12 months.

## 10. OTHER INCOME

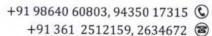
It has been observed from the internal audit report of FY 2018-19 that an army unit is residing at LTPS campus, however APGCL has not recovered any amount with respect to rent and electricity consumption amounting to Rs. 21.70 lakhs and the same issue was also pointed out in the previous year audit report. Such blockade of outstanding revenue receipts are costing huge financial loss for the company.

Further more, a battalion of CRPF has occupied staff quarters at Karbi Langpi (KLHEP) on rent. The company is raising bill but the same has not been accounted for in the books of the company which is in gross violation of Ind AS 115. The total amount not accounted for during FY 2019-20 is amounting to Rs. 371,904/- and no realisation has been made against the same.

Both the above point has resulted in an understatement of income and current assets in the financial statements.



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#### 11. EMPLOYEE BENEFIT EXPENSES

The company has two categories of employees one being those who were in service of erstwhile ASEB and became employee of the company on bifurcation and other category being employees appointed by the company after its formation. As regard to employees of erstwhile ASEB the company is contributing @33.50% of basic pay plus D.A. to the pension trust for all post employment benefit of those employees including pension, gratuity & leave encashment. But settlement of claim relating to P.F % leave encashment is done by the company and is claimed form the pension trust with as defined ratio of the past unfunded liability. Thus the contribution made for such employees are in the nature of defined benefit plan and no actuarial gain or losses is ascertained & provided for. Due to non accounting of actuarial gain or loss & non availability of details of plan we could not ascertain its impact on the financial statement & profitability of the company. As regard other category of the employees employed by the company it is making contribution towards national pension scheme which is defined contributory plan. But for leave encashment no provision is made & no actuarial liability is ascertained. However disclosure has been made in the notes to accounts attached to the financial statements.

As such the loss of the company is understated by understating long term liability to the extent of actuarial amount of leave encashment payable for the service rendered during the year under audit & in past years.

No proper explanation could be furnished before audit and hence we cannot comment on the employee benefit cost incurred by the Company.

As per Section 21 of the Contract Labour (Regulation and Abolition) Act, 1970, the principal employer and contractor have responsibility to maintain registers and records of contract labours, work performed by them, wages and other particulars as specified in the rule. The Company however is not maintaining any registers and records of contract labours and thus violating provisions of contract Labour (Regulation and Abolition) Act, 1970.



Contd...P/9..





:: 9 ::

### 12. OTHER EXPENSES

The company had included in point 21 of the notes to the statement of profit and loss wherein an amount of Rs. 33.65 lakhs was claimed as other expenses being tax payable raised by the Income tax Department relating to AY 2010-11. The same was rectified during the course of our audit and adjusted with the Surplus/(Deficit) in the Statement of Profit and Loss under the head "OTHER EQUITY".

## 13. PROVISIONS, CONTINGENT LIABILITIES AND CONTINGENT ASSETS

Further, as mentioned in Point no. 2 above, the company has not booked any liability towards interest for delayed payment instead the company has shown the entire amount of difference payable to AGCL by way of footnotes under the head Contingent Liabilities.

No suit register, if any maintained as such we could not verify whether any suit against the company is pending and amount involved therein.

No register of contingent liability and / or of capital commitment, if any maintained is maintained and no such sum is shown as contingent liability and capital commitment by the company where huge capital commitment was outstanding as at 31/03/2020 in respect of ongoing projects of NRPP, LRPP, LWHRP, NWHRP, LKHEP etc. quantification of which cannot be done by us for want of details.

Therefore, in our opinion the requirements of INS-AS: 37 have not been compiled.

### 14. IMPAIRMENT OF ASSETS

The company has adopted the policy of determination of impairment loss and charging the same to the statement of profit and loss and the same is spelt out in policy no. M of significant accounting policies.

There are indication that asset of company might have impaired as the company has undertaken replacement power project for both of its main producing units viz. LTPS, NTPS and CTPS is shut down long ago but no exercise is carried out to find whether there is any impairment loss. However, as per the management comments, the company has started the process of verification and valuation of assets and ascertainment of impairment of assets will be done once the process is completed in FY 20-21.

Contd...P/10..

+91 98640 60803, 94350 17315 **(**) +91 361 2512159, 2634672 **(a)** 

kpsarda@gmail.com



SC-11, Parmeshwari Building, 2nd Floor
 Chatribari Road, Guwahati - 781001, Assam

http://kpsardaco.org.in



:: 10 ::

# 15. OTHER POINTS AND DISCLAIMER REGARDING NON VISIT OF UNITS

- 1. We were not able to visit various units of the corporation viz. LTPS, NTPS and KHLEP due to the travel restrictions in place all over the state with a view to combat the spread of Covid-19 virus. As such, we have relied upon the management statements regarding the transactions in the units. We have not physically verified any of the records of the units and hence we cannot comment on the accuracy of the same.
- 2. The internal audit reports for the FY 2019-20 with respect to various units were not made available to us as the same was not completed till the date of our audit. The delay is attributable to the outbreak of Covid-19 and travel restrictions in place. We have also not verified the compliance status of the observations pointed out in the internal audit report of FY 2018-19 due to non-visit of the units. As such, we cannot comment on the compliance status of the same.
- 3. Although, bank statements and BRS of the various units were produced before us for verification, we were unable to make an in-depth analysis of the transactions due to non visit of units. The vouching and physical verification have not been made due to the reasons listed above in point no. 1.

For K P Sarda & Co. Chartered Accountants

FRN: 319206E

13

(CA. K P Sarda)

Partner

Membership No. 054555

UDIN: 20054555AAAAFU3584

Place: Guwahati Date: 07/08/2020





Registered Office:1<sup>st</sup> Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781 001 CIN:U40101AS2003SGC007238 Phone-036 1-2739520 / Fax-0361 -2739513 Web: www.aegcl.co.in

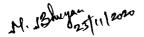
# TO WHOM IT MAY CONCERN

This is to certify that the plant wise Gross Generation, Import, Export, Auxiliary Consumption and Plant Availability Factor of LTPS, LRPP, NTPS and KLHEP of APGCL for the FY 2019-20 are as stated below:

# APGCL GENERATION DATA FOR THE FY 2019-20 FOR LTPS, LRPP, NTPS and KLHEP

(Gross Gen., Export, Import, Auxiliary Consumption and Plant Availability Factor)

| STATION                            | CAPACITY<br>(MW) | Apr-19 | May-19  | Jun-19  | Jul-19  | Aug-19 | Sep-19 | Oct-19  | Nov-19  | Dec-19 | Jan-20  | Feb-20 | Mar-20 | TOTAL   |
|------------------------------------|------------------|--------|---------|---------|---------|--------|--------|---------|---------|--------|---------|--------|--------|---------|
| LTPS+LRPP Import & Export          |                  |        |         |         |         |        |        |         |         |        |         |        |        |         |
| Energy Imported (MU)               |                  | 1.631  | 1.041   | 1.728   | 2.535   | 2.772  | 0.996  | 1.007   | 1.304   | 1.282  | 11.993  | 5.516  | 0.937  | 32.742  |
| Energy Exported (MU)               |                  | 65.263 | 73.795  | 73.707  | 72.276  | 73.312 | 71.357 | 76.328  | 80.557  | 78.976 | 49.906  | 53.566 | 78.302 | 847.347 |
| Actual Energy Sent Out (MU)        |                  | 63.633 | 72.755  | 71.979  | 69.741  | 70.541 | 70.361 | 75.321  | 79.253  | 77.695 | 37.913  | 48.050 | 77.364 | 814.605 |
| LTPS                               |                  |        |         |         |         |        |        |         |         |        |         |        |        |         |
| LTPS Actual Gross (MU)             |                  | 23.373 | 32.555  | 32.340  | 27.609  | 31.529 | 32.646 | 39.546  | 41.347  | 44.565 | 4.985   | 13.510 | 38.002 | 362.006 |
| LTPS Pro-rata Energy Sent out (MU) | 7                | 20.615 | 28.960  | 28.781  | 24.431  | 28.129 | 28.859 | 35.606  | 37.636  | 40.405 | 4.293   | 11.880 | 34.799 | 324.393 |
| Total Aux. Cons. (MU)              | 97.2             | 2.758  | 3.595   | 3.558   | 3.179   | 3.400  | 3.787  | 3.940   | 3.710   | 4.160  | 0.691   | 1.630  | 3.203  | 37.612  |
| LTPS Avg. Declared Capacityn(MW)   |                  | 33.39  | 42.97   | 45.34   | 39.65   | 43.75  | 44.500 | 50.330  | 52.210  | 54.870 | 68.970  | 68.420 | 50.390 | 49.525  |
| Plant Availability LTPS(%)         |                  | 36.35% | 46.78%  | 49.36%  | 43.17%  | 47.63% | 48.45% | 54.79%  | 56.84%  | 59.74% | 75.09%  | 74.49% | 54.86% | 53.92%  |
| LRPP                               | 100              |        |         |         |         |        |        |         |         |        |         |        |        |         |
| LRPP Actual Gross (MU)             |                  | 44.285 | 45.075  | 44.488  | 46.247  | 43.794 | 42.862 | 41.116  | 42.917  | 38.400 | 34.368  | 37.841 | 42.807 | 504.200 |
| LRPP Pro-rata Energy Sent out (MU) | 7                | 43.018 | 43.795  | 43.198  | 45.310  | 42.412 | 41.502 | 39.716  | 41.616  | 37.290 | 33.620  | 36.170 | 41.831 | 489.478 |
| Total Aux. Cons. (MU)              | 69.755           | 1.267  | 1.281   | 1.290   | 0.937   | 1.382  | 1.360  | 1.401   | 1.300   | 1.110  | 0.748   | 1.671  | 0.976  | 14.722  |
| LRPP Avg. Declared Capacityn(MW)   |                  | 60.23  | 61.57   | 61.70   | 61.53   | 60.02  | 61.05  | 58.33   | 61.40   | 58.52  | 52.21   | 59.16  | 60.84  | 59.66   |
| Plant Availability LRPP(%)         |                  | 89.48% | 91.47%  | 91.67%  | 91.41%  | 89.16% | 90.69% | 86.65%  | 91.21%  | 86.94% | 77.56%  | 87.89% | 90.38% | 88.63%  |
| NTPS                               |                  |        |         |         |         |        |        |         |         |        |         |        |        |         |
| NTPS Actual Gross (MU)             |                  | 23.546 | 18.411  | 19.191  | 21.570  | 19.496 | 12.678 | 20.324  | 24.700  | 23.995 | 27.210  | 17.932 | 23.810 | 252.863 |
| NTPS Energy Imported (MU)          |                  | 0.041  | 0.618   | 0.202   | 0.259   | 0.605  | 3.219  | 1.356   | 0.082   | 1.090  | 0.002   | 0.779  | 0.007  | 8.262   |
| NTPS Energy Exported (MU)          |                  | 22.024 | 18.060  | 17.702  | 20.281  | 18.589 | 14.912 | 20.503  | 23.606  | 23.769 | 26.025  | 17.814 | 22.829 | 246.113 |
| NTPS Energy Sent out (MU)          | 99.5             | 21.983 | 17.442  | 17.500  | 20.022  | 17.983 | 11.693 | 19.147  | 23.524  | 22.678 | 26.023  | 17.035 | 22.821 | 237.851 |
| Total Aux. Cons. (MU)              |                  | 1.563  | 0.969   | 1.691   | 1.548   | 1.513  | 0.985  | 1.177   | 1.176   | 1.317  | 1.187   | 0.897  | 0.989  | 15.012  |
| NTPS Avg. Declared Capacityn(MW)   | _                | 35.07  | 26.01   | 27.68   | 28.75   | 31.50  |        | 30.06   | 34.23   | 32.74  | 37.91   | 28.45  | 33.29  | 30.83   |
| Plant Availability NTPS(%)         |                  | 36.91% | 27.37%  | 29.13%  | 30.25%  | 33.15% | 25.27% | 31.63%  | 36.02%  | 34.45% | 39.90%  | 29.94% | 35.03% | 32.44%  |
| KLHEP                              |                  |        |         |         |         |        |        |         | 2.0     |        |         |        |        |         |
| KLHEP Actual Gross (MU)            |                  | 16.539 | 24.078  | 40.007  | 63.230  | 38.292 | 52.505 | 65.813  | 46.226  | 26.333 | 20.282  | 5.223  | 0.000  | 398.528 |
| KLHEP Energy Sent out (MU)         |                  | 16.456 | 23.958  | 39.807  | 62.914  | 38.101 | 52.242 | 65.484  | 46.152  | 26.286 | 20.242  | 5.205  | 0.000  | 396.848 |
| KLHEP Energy Imported (MU)         |                  |        |         |         |         |        |        |         |         |        |         |        |        |         |
| KLHEP Energy Exported (MU)         | 100              | 16.456 | 23.958  | 39.807  | 62.914  | 38.101 | 52.242 | 65.484  | 46.152  | 26.286 | 20.242  | 5.205  | 0.000  |         |
| Total Aux. Cons. (MU)              |                  | 0.083  | 0.120   | 0.200   | 0.316   | 0.191  | 0.263  | 0.329   | 0.074   | 0.047  | 0.040   | 0.018  | 0.000  |         |
| KLHEP Avg. Declared Capacity (MW)  |                  | 57.00  | 100.00  | 100.00  | 100.00  | 82.26  | 86.67  | 100.00  | 100.00  | 95.16  | 100.00  | 95.00  | 0.00   |         |
| Plant Availability KLHEP(%)        |                  | 57.29% | 100.50% | 100.50% | 100.50% | 82.67% | 87.10% | 100.50% | 100.16% | 95.33% | 101.99% | 95.03% | 0.00%  | 85.03%  |



Office of the Chief General Manager, SLDC, 1<sup>st</sup> Floor, SLDC Building, AEGCL, Kahilipara, Guwahati-781019 Phone: 0361-2380537 / Fax: 0361-2382263 / e-mail: sldcaseb@rediffmail.com/ Web: www.aegclsldc.org



Registered Office:1<sup>st</sup> Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781 001 CIN:U40101AS2003SGC007238 Phone-036 1-2739520 / Fax-0361 -2739513 Web: www.aegcl.co.in

**Note:** For LTPS and LRPP the Export and Import are shown commonly as both the power stations are exporting and importing power through the common Switchyard. The Sent out energy has been derived on pro-rata basis as already submitted to the SLDC in the monthly Sent out Energy statements.

Date: 23/11/2020

The Gooss generation, Export, Import-Aux. Consumption & plant wraitability as submitted by LTPS, LRPP, NTPS & KLHEP one found to be correct.

14. Bluga-25/11/2020

A.G.M. (SAMAST) SLDC, AEGCL, Kahilipara, Ghy-10 Deputy General Manager (Logistics), SLDC, AEGCL, Kahilipara, Guwahati-19



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# **TO WHOM IT MAY CONCERN**

After verification of the data submitted by APGCL, this is to certify that the generation loss of NTPS for the FY 2018-19 due to Grid Restrictions and Auto Transformer Constraints are as stated below:

| MU lost for NTPS<br>in 2019-20 | MU lost due to grid<br>disturbance | MU lost due to Auto<br>transformer<br>constraints |
|--------------------------------|------------------------------------|---|
| Apr-19                         | 0.13                               | 0.23  |
| May-19                         | 0.24                               | 0.02  |
| Jun-19                         | -                                  | -   |
| Jul-19                         | 0.30                               | 0.03  |
| Aug-19                         | 0.26                               | _   |
| Sep-19                         | 0.17                               | _   |
| Oct-19                         | _                                  | -   |
| Nov-19                         | _                                  | -   |
| Dec-19                         | 0.01                               | 3.21  |
| Jan-20                         | 0.44                               | 4.96  |
| Feb-20                         | 0.33                               | 1.78  |
| Mar-20                         | 0.19                               | 0.09  |
| Total                          | 2.07                               | 10.32   |
| Grand total                    | 12.                                | 40  |

Date:

The Submitted figures one verified & found correct.

M. 13huya-25/11/2020

A.G.M. (SAMAST) SLDC, AEGCL, Kahilipara, Ghy-19 Deputy General Manager (Logistics), SLDC, AEGCL, Kahilipara, Guwahati-19



Registered Office:1<sup>st</sup> Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781 001 CIN:U40101AS2003SGC007238 Phone-036 1-2739520 / Fax-0361 -2739513 Web: www.aegcl.co.in

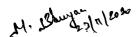
## TO WHOM IT MAY CONCERN

This is to certify that the plant wise Gross Generation, Import, Export, Auxiliary Consumption and Plant Availability Factor of LTPS, LRPP, NTPS and KLHEP of APGCL for the period from April'20 to September'20 are as stated below:

# APGCL GENERATION DATA FOR THE FY 2020-21 FOR LTPS, LRPP, NTPS and KLHEP

(Gross Gen., Export, Import, Auxiliary Consumption and Plant Availability Factor)

| STATION                            | CAPACITY<br>(MW) | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20      | TOTAL   |  |
|------------------------------------|------------------|--------|--------|--------|--------|--------|-------------|---------|--|
| LTPS+LRPP Import & Export          |                  |        |        |        |        |        |             |         |  |
| Energy Imported (MU)               |                  | 1.542  | 1.785  | 0.687  | 1.518  | 4.130  |             | 12.727  |  |
| Energy Exported (MU)               |                  | 61.859 | 70.516 | 73.366 | 65.861 | 65.573 | 66.244      | 403.419 |  |
| Actual Energy Sent Out (MU)        |                  | 60.317 | 68.732 | 72.679 | 64.343 | 61.443 | 63.179      | 390.691 |  |
| LTPS                               |                  |        |        |        |        |        |             |         |  |
| LTPS Actual Gross (MU)             |                  | 19.682 | 28.669 | 34.529 | 40.238 | 27.167 | 33.348      | 183.633 |  |
| LTPS Pro-rata Energy Sent out (MU) |                  | 17.391 | 26.033 | 31.440 | 36.691 | 24.534 | 30.612      | 166.701 |  |
| Total Aux. Cons. (MU)              | 97.2             | 2.291  | 2.636  | 3.089  | 3.547  | 2.632  | 2.736       | 16.932  |  |
| LTPS Avg. Declared Capacityn(MW)   |                  | 26.96  | 39.11  | 47.74  |        |        | 45.740      |         |  |
| Plant Availability LTPS(%)         |                  | 29.35% | 42.58% | 51.97% | 58.61% | 47.12% | 49.80%      | 46.62%  |  |
| LRPP                               |                  |        |        |        |        |        | 100         |         |  |
| LRPP Actual Gross (MU)             |                  | 43.876 | 42.891 | 41.886 | 28.479 | 37.665 | 33.258      | 228.055 |  |
| LRPP Pro-rata Energy Sent out (MU) |                  | 42.925 | 42.092 | 41.118 | 27.652 | 36.724 | 32.567      | 223.077 |  |
| Total Aux. Cons. (MU)              | 69.755           | 0.951  | 0.799  | 0.768  | 0.827  | 0.942  | 0.691       | 4.978   |  |
| LRPP Avg. Declared Capacityn(MW)   |                  | 60.61  | 60.80  | 59.79  | 48.64  | 51.99  | 58.54       | 56.06   |  |
| Plant Availability LRPP(%)         |                  | 90.04% | 90.32% | 88.82% | 72.26% | 77.24% | 86.97%      | 83.28%  |  |
| NTPS                               |                  |        |        |        |        |        |             |         |  |
| NTPS Actual Gross (MU)             |                  | 20.355 | 10.660 | 18.212 | 14.359 | 12.069 | 13.265      | 88.920  |  |
| NTPS Energy Imported (MU)          |                  | 0.044  | 2.157  | 0.521  | 2.143  | 2.270  | 3.700       | 10.835  |  |
| NTPS Energy Exported (MU)          |                  | 19.542 | 11.994 | 17.744 | 15.516 | 13.299 | 15.850      | 93.945  |  |
| NTPS Energy Sent out (MU)          | 99.5             | 19.498 | 9.838  | 17.223 | 13.373 | 11.029 | 12.150      | 83.111  |  |
| Total Aux. Cons. (MU)              |                  | 0.857  | 0.822  | 0.989  | 0.986  | 1.040  | 1.115       | 5.809   |  |
| NTPS Avg. Declared Capacityn(MW)   |                  | 29.30  | 21.74  | 27.83  | 26.28  |        |             |         |  |
| Plant Availability NTPS(%)         |                  | 30.83% | 22.88% | 29.29% | 27.66% | 17.04% | 17.76%      | 24.22%  |  |
| KLHEP                              | Section 1        |        |        |        |        |        |             |         |  |
| KLHEP Actual Gross (MU)            |                  | 0.000  | 13.165 | 35.624 | 35.325 | 32.343 | 30.825      | 147.282 |  |
| KLHEP Energy Sent out (MU)         |                  | 0.000  | 13.138 | 35.564 | 35.261 | 32.269 | 30.763      | 146.995 |  |
| KLHEP Energy Imported (MU)         | i                |        |        |        |        |        |             |         |  |
| KLHEP Energy Exported (MU)         | 100              | 0.000  |        |        |        |        |             | 146.995 |  |
| Total Aux. Cons. (MU)              |                  | 0.000  | 0.027  |        |        |        | <del></del> |         |  |
| KLHEP Avg. Declared Capacity (MW)  |                  | 0.00   | 50.00  |        |        | 50.00  |             |         |  |
| Plant Availability KLHEP(%)        |                  | 0.00%  | 50.11% | 50.09% | 50.09% | 50.12% | 43.42%      | 40.91%  |  |





Registered Office:1<sup>st</sup> Floor, Bijulee Bhawan, Paltanbazar, Guwahati-781 001 CIN:U40101AS2003SGC007238 Phone-036 1-2739520 / Fax-0361 -2739513 Web: www.aegcl.co.in

Deputy General Manager (Logistics), SLDC, AEGCL, Kahilipara, Guwahati-19

**Note:** For LTPS and LRPP the Export and Import are shown commonly as both the power stations are exporting and importing power through the common Switchyard. The Sent out energy has been derived on pro-rata basis as already submitted to the SLDC in the monthly Sent out Energy statements.

Date: 23/11/2020

The Goods generation, Expert, Import, Aux. Consumption & Plent availability on submitted by LTPS, LRPP, NTPS & IKLHEP are found to be Correct.

11: 12huyan 25/11/2020

A.G.M. (SAMAST) SLDC, AEGCL, Kahilipara Ghu 1

Office of the Chief General Manager, SLDC, 1<sup>st</sup> Floor, SLDC Building, AEGCL, Kahilipara, Guwahati-781019
Phone: 0361-2380537 / Fax: 0361-2382263 / e-mail: sldcaseb@rediffmail.com/ Web: www.aegclsldc.org

# ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Blinwan, Paltanbazar, Guwahati, 81 001, Assam CIN: U40101AS2003SGC007239 Lel. No.: 0361-27 19502, Fay No.036127 19546-22

e-mail:mdu-apgel com. Website: www.apgel org

No. MD/APGCL/GA/2008/840/257

Date: 27/09/2019

#### ORDER

Managing Director, APGCL is pleased to approve release of arrear pay with regard to Generation Allowance for the period wielf. April 2016 to February 2019 to be paid in 5 (Five) installments to the digible employees of the with APDCL order Plants/Establishments Ul APGCL 111 line APDCI/MD/PC/01/2018/107 dated 06/02/2019.

The mode of payment of arrear pay with regard to Generation Allowance shall be in the following manner:

- 1. 5 (Five) months arrear w.e.f. April'2016 to August'2016.
- 2. 5 (Five) months arrear w.e.f. September 2016 to January 2017.
- 6 (Six) months acrear w.e.f. February'2017 to July'2017 -
- 4. 7 (Seven) months arrear w.e.f. August 2017 to February 2018.
- 5. 12 (Twelve) months arrear w.e.f. March'2018 to February'2019.

October 2019 The said arrears shall be paid from the February 2020.

By Order etc....

General Manager (HR), APGCL, Bijulee Bhawan, Guwahati-1

Memo No. MD/APGCL/GA/2008/840/257 (A)

Date: 27/09/2019

Copy to:

- 1: The Managing Director, APGCL, Bijulee Bhawan, Guwahati-1.
- 2. The CGM (Gen)/CGM (H&C)/ CGM (F&A), APGCL, Bijulee Bhawan, Guwahati-1.
- The GM, NTPS/LTPS/KLHEP, ARGCL, Namrup/Maibella/Lengery.
- 4. The DGM (F&A), APGCL, Bijulee Bhawan, Guwahati-1—He is requested to release the 1th Installment of Generation Allowance arrear before ensuing Durga Puja.
- Office Copy.

General Manager (HR), APGCL, Bijulee Bhawan, Guwahati-1

Utpal Gohain, GM (HR)

Tel. No: 0361-2635812

E-mail: gmhr@apgcl.com A STATE OF THE STA

### File No.CEA-PL-14-38/5/2020-PDM Division





भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
पी. डी. एम. प्रभाग
Power Data Management Division

To,

Sh. A. Bhuyan, Chief General Manager (G), Assam Power Generation Corporation Limited (APGCL), BijuleeBhawan, Paltanbazar, Guwahati-781001 Assam.

Subject: Decommissioning of Unit No. 4 (11 MW) & Unit No. 5 (24 MW) of Namrup CCPP, Assam Power Generation Corporation Ltd. (APGCL)-regarding.

**Ref:** Letter No. APGCL/CGM (G)/Derating/2007-08/38/part/1 dated 10.08.2020 from Chief General Manager (Generation), Assam Power Generation Corporation Ltd. (APGCL)

Sir,

Reference is invited to above letter from Chief General Manager (Generation), APGCL regarding decommissioning of Unit No. 4 (11MW) & Unit No. 5 (24 MW) of Namrup CCPP, Assam Power Generation Corporation Ltd. (APGCL). The details furnished by APGCL have been seen by the Central Electricity Authority.

APGCL informed that these units are facing the problems of obsolescence due to unacceptable levels of per unit cost of generation due to high heat rate and also low availability and reliability due to aging. It is seen from extract of minutes of meeting of 86<sup>th</sup> Board meeting held on 28.07.2020 that Board of Directors of APGCL has granted approval for decommissioning of Unit-4 and Unit-5 of Namrup CCPP.

The decision to decommission of Unit No.4 (11MW) & Unit No. 5 (24MW) of Namrup CCPP has been taken by APGCL based on techno-economic reasons. Based on their decision, the capacity of these units is being deleted from the database of All India Installed Capacity.

Yours faithfully

Sd/-(P.C.Kureel) Secretary, CEA

Copy for information to:

1. PPS, Secretary, MoP 2. SA to Chairperson, CEA

3. All Chief Engineers of CEA 4. All Heads of Subordinate offices, CEA

5. SA to Member (Planning/Hydro/ Thermal/6. IT Division, CEA for uploading on CEA website E&C/ GO&D/PS), CEA

#### File No.CEA-PL-14-38/5/2020-PDM Division





भारतसरकार
Government of India
विद्युतमंत्रालय
Ministry of Power
केंद्रीय विद्युतप्राधिकरण
Central Electricity Authority
पी. डी.एम. प्रभाग
Power Data Management Division

सेवा में.

Sh. A. Bhuyan, Chief General Manager (G), Assam Power Generation Corporation Limited (APGCL), BijuleeBhawan, Paltanbazar, Guwahati-781001 Assam.

विषय: असम पावर जनरेशन कॉरपोरेशन लिमिटेड (APGCL), Namrup CCPP की इकाई सं. 4 (11 MW) और इकाई सं. 5 (24 MW) की डीकमीशनिंग – के बारे में

संदर्भ: Letter No. APGCL/CGM (G)/Derating/2007-08/38/part/1 dated 10.08.2020 from Chief General Manager (Generation), Assam Power Generation Corporation Ltd. (APGCL)

महोदय,

चीफ जनरल मैनेजर (जनरेशन), असम पावर जनरेशन कॉर्पोरेशन लिमिटेड (APGCL) से Namrup CCPP की इकाई सं. 4 (11MW) और इकाई सं. 5 (24 MW) की डीकमीशनिंग के सम्बन्ध में प्राप्त उपर्युक्त पत्र की ओर संदर्भ आमंत्रित किया गया है। APGCL द्वारा प्रस्तुत विवरण केंद्रीय विद्युत प्राधिकरण द्वारा देख लिए गए हैं।

APGCL ने बताया है कि ये इकाइयाँ high heat rate की वजह से per unit cost of generation के अस्वीकार्य स्तरों के कारण एवं उम्र बढ़ने की वजह से कम उपलब्धता व कम विश्वसनीयता के कारण अप्रचलन / Obsolescence की समस्याओं का सामना कर रही हैं। 28.07.2020 को आयोजित 86 वीं बोर्ड की बैठक के मिनट्स के Extracts से यह देखा गया है कि APGCL के बोर्ड ऑफ डायरेक्टर्स ने Namrup CCPP की इकाई सं. 4 और इकाई सं. 5 की डीकमीशनिंग के लिए मंजूरी दे दी है।

Namrup CCPP की इकाई सं. 4 (11MW) और इकाई सं. 5 (24MW) को डीकमीशन करने का निर्णय तकनीकी-आर्थिक कारणों के आधार पर APGCL द्वारा लिया गया है। उनके निर्णय के आधार पर इन इकाइयों की क्षमता को अखिल भारतीय स्थापित क्षमता के डेटाबेस से हटाया जा रहा है।

भवदीय,

(पी.सी. कुरील) सचिव, के**.**वि.प्रा.

### प्रति निम्लिखित को सूचनार्थ:-

1. पी.पी.एस., सचिव (विद्युत), विद्युत मंत्रालय

2. अध्यक्ष, के.वि.प्रा. के विशेष सहायक

3. के.वि.प्रा. के सभी अधिनस्थ कार्यालयों के प्रधान

के.वि.प्रा. के सभी मुख्य अभियंता

 सदस्य (योजना/ जल विद्युत/ तापीय/ आ.एवं वा. / 6. जी.ओ.एंड डी./ पी.एस.), के.वि.प्रा. आई.टी.प्रभाग, के.वि.प्रा. को के.वि.प्रा की वेबसाइट पर अपलोड करने के लिए

4.

REGULATORY FORMATS FOR ARR & TARIFF FILING BY GENERATION LICENSEE -NAMRUP THERMAL POWER STATION

|   | Summary   |                          | Form No: | F1<br>Rs Cr       |           |
|---|---|--------------------------|----------|-------------------|-----------|
|   |   | Form                     | 2019-20  | 2020-21           | 2021-22   |
|   |   | 101111                   | Actual   | Estimated         | Projected |
| Α | Generation  |                          |          |                   |           |
| 1 | Gross Generation (MU)   | F4                       | 252.86   | 173.73            | 145.21    |
| 2 | Aux Consumption (%)   | F4                       | 5.94%    | 5.54%             | 4.50%     |
| 3 | Net Generation (MU)   | F4                       | 237.85   | 164.10            | 138.68    |
| В | Capacity Charges (Annual Fixed Charges)   |                          |          |                   |           |
| 1 | O&M expenses  |                          | 39.04    | 36.06             | 21.35     |
| а | Employee Expenses   | F21                      | 32.58    | 0.00              |           |
| b | R & M Expense   | F20                      | 4.63     | 0.00              |           |
| С | A&G Expense   | F22                      | 1.83     | 0.00              |           |
|   | Increase in AERC Tariff Fees  |                          |          | 0.10              | 0.10      |
| 2 | Depreciation  | F23                      | 1.46     | 0.95              | 0.52      |
| 3 | Interest on Loans   | F14B                     | 0.10     | 0.05              | 0.04      |
| 4 | Return on Equity  | F25                      | 8.53     | 5.57              | 3.10      |
| 5 | Interest on Working Capital   | F26                      | 4.06     | 2.96              | 1.70      |
| 6 | Income Tax  | F29                      | 0.21     | 0.00              | 0.00      |
| 7 | Prior period items  |                          | 0.00     | 0.00              | 0.00      |
| 8 | Special allowance in lieu of R&M or separate compensation allowance   |                          | 0.00     | 0.00              | 0.00      |
|   | Less: Other Income  | F30                      | -15.44   | -7.13             | -7.13     |
|   | Capacity Building   |                          | 0.11     | 0.10              | 0.13      |
|   | Total   |                          | 38.08    | 38.67             | 19.80     |
| С | Variable Charges (Energy Charges)   |                          |          |                   |           |
|   | Energy Charges from Primary Fuel (Rs Cr) C1, C2, C3, C4   | F4                       | 80.88    | 37.37             | 21.90     |
|   | Energy Charges from Primary Fuel (Rs/ kWh)  | F4                       | 3.20     | 2.15              | 1.51      |
|   | C1 - If multifuel is used simultaneously, energy charges to be given in respect C2 - Energy charge shall be computed for open cycle operation and combine C3 - Energy charge shall be worked out based on ex-bus energy scheduled | ed cycle operation separ |          | d fuel fired plar | nts       |

| Name of Company:<br>Name of Plant/ Station:                                    |  |          | TION CORPO  |            | MITED    |         |
|--|--|----------|-------------|------------|----------|---------|
| Plant Charateristics-Thermal   |  |          |             |            | Form No: | F2a     |
| lu zaven ta ve   | In an an I was I was I was I was I was |          |             |            |          |         |
| Unit(s)/ Block(s) Parameters   | Unit I                                 | Unit II  | Unit III    | Unit IV    | Unit V   | Unit VI |
| Installed Capacity ( MW)   | 20                                     | 21       | 21          | 11         | 24       | 22.5    |
| Schedule COD as per Investment Approval  |  |          |             |            |          |         |
| Actual COD /Date of Taken Over (as applicable)                                 | 1965                                   | 1965     | 1965        | 1975       | 1976     | 1985    |
| Pit Head or Non Pit Head   |  | •        |             | plicable   |          |         |
| Name of the Boiler Manufacture   |  |          | plicable    |            | BHEL     | BHEL    |
| Name of Turbine Generator Manufacture  |  | Westingh | ouse, USA   |            | BHEL     | BHEL    |
| Main Steams Pressure at Turbine inlet (kg/Cm2) abs <sup>1</sup> .              |  | Not ap   | plicable    |            | 60       | 12      |
| Main Steam Temperature at Turbine inlet (oC) 1                                 |  | Not ap   | plicable    |            | 480      | 330     |
| Reheat Steam Pressure at Turbine inlet (kg/Cm2) 1                              |  |          | N           | I/A        |          |         |
| Reheat Steam Temperature at Turbine inlet (oC) 1                               |  |          | N           | I/A        |          |         |
| Main Steam flow at Turbine inlet under MCR                                     |  | A1 1     |             |            |          |         |
| condition (tons /hr) <sup>2</sup>  |  | Not ap   | plicable    |            | 150      | 117     |
| Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>   |  | Not ap   | plicable    |            |          |         |
| Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>      | 20                                     | 21       | 21          | 11         | 24       | 22.5    |
| Unit Gross electrical output under VWO condition (MW) <sup>2</sup>             | 20                                     | 21       | 21          | 11         | 24       | 22.5    |
| Guaranteed Design Gross Turbine Cycle Heat                                     | 20                                     | 21       | 21          | - ''       | 24       | 22.0    |
| Rate (kCal/kWh) <sup>3</sup>   | 3987                                   | 3987     | 3987        | 4032       | 3278     | NA      |
| Conditions on which design turbine cycle heat rate                             | 1101/                                  |          |             |            |          |         |
| guaranteed<br>% MCR  | NCV                                    | NCV      | NCV         | NCV        | NCV      |         |
| % Makeup Water Consumption   |  | Not an   | plicable    |            | 10       | 5       |
| Design Capacity of Make up Water System  |  |          | plicable    |            | 375      |         |
| Design Capacity of Inlet Cooling System  |  |          |             |            | 6915     |         |
| Design Cooling Water Temperature (0C)  |  |          |             |            | 27-32    |         |
| Back Pressure Steam flow at super heater outlet under BMCR condition (tons/hr) |  | Not ap   | plicable    |            | 150      | 117     |
| Steam Pressure at super heater outlet under                                    |  | Not ap   | plicable    |            |          |         |
| BMCR condition) (kg/Cm2)  Steam Temperature at super heater outlet under       |  |          |             |            | 63       | 22      |
| BMCR condition (0C)  |  | Not ap   | plicable    |            | 485      | 375     |
| Steam Temperature at Reheater outlet at BMCR condition (0C)                    |  |          | Not ap      | plicable   |          |         |
| Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>                         |  | Not ap   | plicable    |            | 90       | 85      |
| Design Fuel with and without Blending of domestic/imported coal                |  |          | Not ap      | plicable   |          |         |
| Type of Cooling Tower  |  | Not ap   | plicable    |            | Cros     | s flow  |
| Type of cooling system5  |  | Not ap   | plicable    |            |          | circuit |
| Type of Boiler Feed Pump6  |  | Not ap   | plicable    |            | Motor    | driven  |
| Fuel Details7  |  |          | Natural gas |            |          | WHRU    |
| -Primary Fuel -Secondary Fuel  |  |          | Natural gas | I/A        |          | WHRU    |
| -Alternate Fuels   |  |          |             | I/A<br>I/A |          |         |
| Special Features/ Site Specific Features <sup>8</sup>                          |  | N        | MAKEUP WA   |            | M        |         |
| Special Technological Features <sup>9</sup>                                    |  |          |             | I/A        |          |         |
| Environmental Regulation related features <sup>10</sup>                        |  |          |             |            |          |         |
| Any other special features   |  |          |             |            |          |         |
|  |  |          |             |            |          |         |

| Name of Company:        | SSAM POWER GENERATION CORPORATION LIMIT |
|-------------------------|---|
| Name of Plant/ Station: | NAMRUP THERMAL POWER STATION            |

|    | Normative Parameters Considered for Tariff Compu      | Form No:  | F3 (a)   |           |           |  |  |  |
|----|---|-----------|----------|-----------|-----------|--|--|--|
|    | Particulars Unit 2019-20                              |           |          |           |           |  |  |  |
|    | Particulars   | 2019-20   | 2020-21  | 2021-22   |           |  |  |  |
|    |   |           | Actual   | Estimated | Projected |  |  |  |
|    |   |           |          |           |           |  |  |  |
| 1  | Base Rate of Return on Equity                         | %         | 15.50    | 15.50     | 15.50     |  |  |  |
| 2  | Target Availability                                   | %         | 50.00%   | 50.00%    | 50.00%    |  |  |  |
| 3  | Auxiliary Energy Consumption                          | %         | 4.50%    | 4.50%     | 4.50%     |  |  |  |
| 4  | Gross Station Heat Rate                               | kCal/ kWh | 3900     | 3900      | 3900      |  |  |  |
| 5  | Specific Fuel Oil Consumption ml/kWh                  | ml/ kWh   |          |           |           |  |  |  |
| 6  | Cost of Coal/ Lignite                                 | Rs/ Ton   |          |           |           |  |  |  |
| 7  | Cost of Main Secondary Fuel Oil                       | Rs/ kL    |          |           |           |  |  |  |
| 8  | Cost of Gas   | Rs/ SCM   | 6.39     | 4.15      | 3.54      |  |  |  |
| 9  | Primary Fuel (Coal/ Lignite/ Gas) for Working Capital | in Months |          |           |           |  |  |  |
| 10 | Secondary Fuel for Working Capital                    | in Months |          |           |           |  |  |  |
| 11 | O&M Expenses  | Rs/ MW    |          |           |           |  |  |  |
| 12 | Maintenance Spares for Working Capital                | % of O&M  | 30       | 30        | 30        |  |  |  |
| 13 | Receivebles for Working Capital                       | in Months | 2 months | 2 months  | 2 months  |  |  |  |
| 14 | Base Rate of SBI as on                                | %         | 10.00%   | 10.00%    | 10.00%    |  |  |  |
|    |   |           |          |           |           |  |  |  |

#### ASSAM POWER GENERATION CORPORATION LIMITED NAMRUP THERMAL POWER STATION 2019-20 2020-21 2021-22 **Particulars** Unit Projected Actual **Estimated** Installed Capacity MW 99.50 78.12 43.50 Plant Load Factor % 28.50% 38.11% 35.81% 3 Gross Generation MU 252.86 173.73 145.213 Auxiliary Consumption % 5.94% 5.54% 4.50% 5 Auxiliary Consumption MU 15.012 9.626 6.535 Net Generation MU 237.85 164.10 138.678 Station Heat Rate kCal/ kWh 4584 4608 3900 Primary Fuel Consumption (Gas/ LNG/ Liquid) 16 GCV of Gas/ LNG/ Liquid Fuel kCal/ SCM 9157.63 9147.27 9147.27 17 Quantity of Gas/ LNG/ Liquid Fuel MMSCM 126.56 87.53 61.91 18 Specific Fuel Consumption SCM/ kWh 0.50 0.50 0.43 19 Rate of Gas/ LNG/ Liquid Fuel Rs/ SCM 6.39 4.15 3.54 20 Cost of Gas/ LNG/ Liquid Fuel Rs. Cr 88.08 37.37 21.90 Secondary Fuel Oil Consumption 21 GCV of Secondary Fuel Oil kCal/ kL 22 Quantity of Secondary Fuel Oil kL 23 Specific Secondary Fuel Oil Consumption ml/ kWh 24 Rate of Secondary Fuel Oil Rs/ kL 25 Cost of Secondary Fuel Oil Rs. Cr Primary Fuel Cost (Coal/ Lignite) Rs. Cr Primary Fuel Cost (Gas/ LNG/ Liquid) Rs. Cr 80.88 37.37 21.90 Secondary Fuel Cost Rs. Cr C Variable Charges (Energy Charges) Energy Charges from Primary Fuel (Coal/ Lignite) Rs/kWh Energy Charges from Primary Fuel (Gas/ LNG/ Liquid) Rs/ kWh 3.20 2.15 1.51

|   |   |        | Form No: 5 |
|---|---|--------|------------|
|   |   |        |            |
|   | Particulars   | Unit   | Details    |
|   | Last date of order of Commission for the project as on 31.03.2019     |        |            |
| 1 | Capital Cost as admitted by AERC                                      | Rs. Cr | 190.49     |
|   | Amount of un-discharged liabilities included in above (& forming part |        | NIL        |
| 2 | of admitted capital cost)   | Rs. Cr | NIL        |
|   | Amount of un-discharged liabilities corresponding to above admitted   |        |            |
|   | capital cost (but not forming part of admitted capital cost being     |        | NIL        |
| 3 | allowed on cash basis)  | Rs. Cr |            |
| 4 | Gross Normative Debt  | Rs. Cr | 122.33     |
| 5 | Cumulative Repayment  | Rs. Cr | 142.72     |
| 6 | Net Normative Debt  | Rs. Cr | -20.39     |
| 7 | Normative Equity  | Rs. Cr | 55         |
| 8 | Cumulative Depreciation   | Rs. Cr | 142.72     |
| 9 | Freehold land   | Rs. Cr | NIL        |

| Statement showing claimed capital cost |   |        |         |         | F5a     |
|--|---|--------|---------|---------|---------|
|  | Particulars                                     | Unit   | 2019-20 | 2020-21 | 2021-22 |
| 1                                      | Opening Capital Cost                            | Rs. Cr | 190.49  | 189.75  | 190.69  |
| 2                                      | Add: Addition during the year / period          | Rs. Cr | 1.40    | 0.94    | 1.58    |
| 3                                      | Less: Decapitalisation during the year / period | Rs. Cr | 2.13    | 0.00    | 0.00    |
| 4                                      | Less: Reversal during the year / period         | Rs. Cr | 0.00    | 0.00    | 0.00    |
| 5                                      | Add: Discharges during the year / period        | Rs. Cr | 0.00    | 0.00    | 0.00    |
| 6                                      | Closing Capital Cost                            | Rs. Cr | 189.75  | 190.69  | 192.28  |
| 7                                      | Average Capital Cost                            | Rs. Cr | 190.12  | 190.22  | 191.49  |

## ASSAM POWER GENERATION CORPORATION LIMITED NAMRUP THERMAL POWER STATION

| Det   | Form No:     | F13       |           |           |           |           |
|---|--------------|-----------|-----------|-----------|-----------|-----------|
|   |              | Rs Cr.    |           |           |           |           |
| Particulars   | R&M NTPS     | Package 2 | Package 3 | Package 4 | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>   | I GOA -Loans |           |           |           |           |           |
| Currency <sup>2</sup>   | INR          |           |           |           |           |           |
| Amount of Loan sanctioned (Opening Balance  | 204.71       |           |           |           |           |           |
| Amount of Gross Loan drawn upto 31.03.2020 COD <sup>3,4,5,13,15</sup> (Closing Balance) | 206.37       |           |           |           |           |           |
| Interest Type <sup>6</sup>  | Fixed        |           |           |           |           |           |
| Fixed Interest Rate, if applicable  | 10%          |           |           |           |           |           |
| Base Rate, if Floating Interest <sup>7</sup>  |              |           |           |           |           |           |
| Margin, if Floating Interest <sup>8</sup>   | Yes/No       | Yes/No    | Yes/No    | Yes/No    | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>   |              |           |           |           |           |           |
| If above is yes,specify caps/floor  |              |           |           |           |           |           |
| Moratorium Period <sup>10</sup>   |              |           |           |           |           |           |
| Moratorium effective from   |              |           |           |           |           |           |
| Repayment Period <sup>11</sup>  |              |           |           |           |           |           |
| Repayment effective from  |              |           |           |           |           |           |
| Repayment Frequency <sup>12</sup>   |              |           |           |           |           |           |
| Repayment Instalment 13,14  |              |           |           |           |           |           |
| Base Exchange Rate <sup>16</sup>  |              |           |           |           |           |           |
| Are foreign currency loan hedged?   |              |           |           |           |           |           |
| If above is yes,specify details <sup>17</sup>   |              |           |           |           |           |           |

#### Note:

<sup>&</sup>lt;sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>&</sup>lt;sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>20</sup> 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.

### SSAM POWER GENERATION CORPORATION LIMITE NAMRUP THERMAL POWER STATION Rs. Cr 2019-20 2020-21 2021-22 Particulars

| l Particulars ⊢                                   |        |           |           |
|---|--------|-----------|-----------|
| Particulars                                       | Actual | Estimated | Projected |
| Loan-1 from PFCL                                  |        |           |           |
| Gross loan - Opening                              |        |           |           |
| Cumulative repayments of Loans upto previous year |        |           |           |
| Net loan - Opening                                | 387.03 | 364.92    | 321.53    |
| Add: Drawal(s) during the Year                    | 21.28  | 0.00      | 0.00      |
| Less: Repayment (s) of Loans during the year      | 43.39  | 43.39     | 41.30     |
| Net loan - Closing                                | 364.92 | 321.53    | 280.23    |
| Average Net Loan                                  | 375.97 | 343.23    | 300.88    |
| Rate of Interest on Loan on annual basis          | 11.54% | 11.21%    | 11.19%    |
| Interest on loan                                  | 44.68  | 40.91     | 35.97     |
|   |        |           |           |
| Loan-2 Govt. of Assam                             |        |           |           |
| Gross loan - Opening                              |        |           |           |
| Cumulative repayments of Loans upto previous year |        |           |           |
| Net loan - Opening                                | 239.80 | 271.48    | 318.46    |
| Add: Drawal(s) during the Year                    | 9.98   | 25.29     | 11.10     |
| Less: Repayment (s) of Loans during the year      | -21.69 | -21.69    | -21.69    |
| Net loan - Closing                                | 271.48 | 318.46    | 351.25    |
| Average Net Loan                                  | 255.64 | 294.97    | 334.85    |
| Rate of Interest on Loan on annual basis          | 7.61%  | 8.73%     | 8.82%     |
| Interest on loan                                  | 18.25  | 23.71     | 28.09     |
|   |        |           |           |
| Total Loan  |        |           |           |
| Gross loan - Opening                              |        |           |           |
| Cumulative repayments of Loans upto previous year |        |           |           |
| Net loan - Opening                                | 626.83 | 636.40    | 639.99    |
| Add: Drawal(s) during the Year                    | 31.26  | 25.29     | 11.10     |
| Less: Repayment (s) of Loans during the year      | 21.69  | 21.69     | 19.61     |
| Net loan - Closing                                | 636.40 | 639.99    | 631.48    |
| Average Net Loan                                  | 631.61 | 638.19    | 635.74    |
| Interest on loan                                  | 62.93  | 64.62     | 64.06     |
| Weighted average Rate of Interest on Loans        | 10.04% | 10.15%    | 10.01%    |
|   |        |           |           |
| Note:   |        |           |           |

<sup>1.</sup> 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.

2. As per the Regulation 35.5, the weighted average rate of interest has to be calculated nthe basis of the actual loan portfolio at the beginning of each year. Hence the weighted average rate of interest has 3. the above actual loan portfolio is shwon as for APGCL as a whole, as the same is to be used for calutio

|       |   | ASSAM POWER GENERATION CORPORATION LIMITE |           |           |  |  |  |
|-------|---|---|-----------|-----------|--|--|--|
|       |   | NAMRUP THERMAL POWER STATION              |           |           |  |  |  |
|       |   |   | I         |           |  |  |  |
|       |   |   |           | Rs. Cr    |  |  |  |
| - N-  | Doutlandone                                     | 2019-20                                   | 2020-21   | 2021-22   |  |  |  |
| S. No | . Particulars                                   | Actual                                    | Estimated | Projected |  |  |  |
|       |   |   |           |           |  |  |  |
| 1     | Gross Normative Ioan – Opening                  |   |           |           |  |  |  |
| 2     | Cumulative repayment of Normative loan upto     |   |           |           |  |  |  |
|       | previous year                                   |   |           |           |  |  |  |
| 3     | Net Normative Ioan – Opening                    | 0.85                                      | 0.79      | 0.81      |  |  |  |
| 4     | Add: Increase due to addition during the year / | 1.40                                      | 1.47      | 1.90      |  |  |  |
| 4     | period  | 1.40                                      | 1.47      | 1.90      |  |  |  |
| 5     | Less: Decrease due to de-capitalisation during  |   |           |           |  |  |  |
| 3     | the year / period                               |   |           |           |  |  |  |
| 6     | Less: Decrease due to reversa/repayment         | 1.46                                      | 1.45      | 1.42      |  |  |  |
| O     | during the year / period                        | 1.40                                      | 1.45      | 1.42      |  |  |  |
| 7     | Add: Increase due to discharges during the      |   |           |           |  |  |  |
| ′     | year / period                                   |   |           |           |  |  |  |
| 8     | Net Normative loan - Closing                    | 0.79                                      | 0.81      | 1.29      |  |  |  |
| 9     | Average Normative Ioan                          | 0.82                                      | 0.80      | 1.05      |  |  |  |
| 10    | Weighted average rate of interest               | 10.04%                                    | 10.15%    | 10.01%    |  |  |  |
|       | Interest on Loan                                | 0.08                                      | 0.08      | 0.10      |  |  |  |
|       | Bank charges                                    | 0.02                                      | 0.00      | 0.00      |  |  |  |
| 11    | Interest on Loan with Bank charges              | 0.10                                      | 0.08      | 0.10      |  |  |  |
|       |   |   |           |           |  |  |  |

## ASSAM POWER GENERATION CORPORATION LIMITED NAMBUP THERMAL POWER STATION

Rs Cr.

| Particulars  | Revival of TPS | EAP consulting service | Solar NTPS   | NTPS(R&M)   | Station heat<br>Rate | Package 6 |
|--|----------------|------------------------|--------------|-------------|----------------------|-----------|
| Source of Loan <sup>1</sup>  | I GOA -Loans   | I GOA -Loans           | I GOA -Loans | I PFC Loans | I GOA -Loans         |           |
| Currency <sup>2</sup>  | INR            | INR                    | INR          | INR         | INR                  |           |
| Amount of Loan sanctioned (Opening Balance)  | 0.74           | 0.37                   | 4.04         | -           | 158.46               |           |
| Amount of Gross Loan drawn upto 31.03.2020/<br>COD <sup>3,4,5,13,15</sup><br>(Closing Balance) | 0.74           | 0.37                   | 4.04         | _           | 158.46               |           |
| Interest Type <sup>6</sup>   | Fixed          | Fixed                  | Fixed        | Fixed       | Fixed                |           |
| Fixed Interest Rate, if applicable   | 10%            | 10%                    | 10%          | 0%          | 10%                  |           |
| Base Rate, if Floating Interest <sup>7</sup>   |                |                        |              |             |                      |           |
| Margin, if Floating Interest <sup>8</sup>  | Yes/No         | Yes/No                 | Yes/No       | Yes/No      | Yes/No               | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>  |                |                        |              |             |                      |           |
| If above is yes,specify caps/floor   |                |                        |              |             |                      |           |
| Moratorium Period <sup>10</sup>  |                |                        |              |             |                      |           |
| Moratorium effective from  |                |                        |              |             |                      |           |
| Repayment Period <sup>11</sup>   |                |                        |              |             |                      |           |
| Repayment effective from   |                |                        |              |             |                      |           |
| Repayment Frequency <sup>12</sup>  |                |                        |              |             |                      |           |
| Repayment Instalment 13,14   |                |                        |              |             |                      |           |
| Base Exchange Rate <sup>16</sup>   |                |                        |              |             |                      |           |
| Are foreign currency loan hedged?  |                |                        |              |             |                      |           |
| If above is yes,specify details <sup>17</sup>  |                |                        |              |             |                      |           |

| Distribution of loan packages to various projects |  |  |  |  |  |       |  |
|---|--|--|--|--|--|-------|--|
| Name of the Projects                              |  |  |  |  |  | Total |  |
| Project 1   |  |  |  |  |  |       |  |
| Project 2   |  |  |  |  |  |       |  |
| Project 3 and so on                               |  |  |  |  |  |       |  |

#### Note

<sup>&</sup>lt;sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>&</sup>lt;sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>&</sup>lt;sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of hegging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>&</sup>lt;sup>20</sup> 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: NAMRUP THERMAL POWER STATION

#### Statement of Additional Capitalisation after COD Form No: F16 Rs Cr. Regulations under **Admitted Cost by** No **Head of Work/ Equipment** Justification which claimed Commission if any 2019-20 2020-21 2021-22 1 Land 2 Building Hydraulic works 4 Other civil works 0.74 0.94 0.35 Plant & machinery- Gas 0.78 0.41 6 Plant & machinery- Hydel 7 Lines & cables 8 Vehicle 9 Furniture 0.06 10 Other office equipment 0.19 0.46 11 Roads on land belonging to othe Capital spares at Generating Sta 12

#### Note:

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the

|    | Details of Asse   | Form No:   | F16a  |                 |   |  |  |  |
|----|-------------------|--|---|-----------------|---|--|--|--|
|    |                   |  |   |                 |   |  |  |  |
| No | Name of the Asset | Nature of de-capitlization<br>(whether claimed under<br>exclusion or as additional<br>capital expenditure) | Original Value of<br>the Asset<br>Capitalised | Year Put to use | Depreciation recovered till date of de-capitalization |  |  |  |
| 1  |                   |  |   |                 |   |  |  |  |
| 2  |                   |  |   |                 |   |  |  |  |
| 3  |                   |  |   |                 |   |  |  |  |
| 4  |                   |  |   |                 |   |  |  |  |
| 5  |                   |  |   |                 |   |  |  |  |
|    |                   |  |   |                 |   |  |  |  |
|    |                   |  |   |                 |   |  |  |  |
| -  |                   |  |   |                 |   |  |  |  |
|    |                   |  |   |                 |   |  |  |  |

Note: Year wise detail need to be submitted

# AM POWER GENERATION CORPORATION LIMINAMRUP THERMAL POWER STATION

**Date of Commercial Operation:** 

Financing of Additional Capitalisation

Form No: F17

Rs Cr.

| Financial Year (Starting from COD)    | 2019-20 | 2020-21 | 2021-22 |  |
|---------------------------------------|---------|---------|---------|--|
| Amount capitalised in Work/ Equipment |         |         |         |  |
| Financing Details                     |         |         |         |  |
| GOA Loan                              | 1.40    | 1.47    | 1.90    |  |
| Loan-2                                |         |         |         |  |
| Total Loan <sup>2</sup>               | 1.40    | 1.47    | 1.90    |  |
| Grant                                 | 0.00    | 4.75    | 2.80    |  |
| Equity                                | 0.00    | 0.00    | 0.00    |  |
| Internal Resources                    |         |         |         |  |
| Others                                |         |         |         |  |
| Total                                 | 1.40    | 6.22    | 4.70    |  |

<sup>&</sup>lt;sup>1</sup> Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial

<sup>&</sup>lt;sup>2</sup>Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevent.

|    |   |         |              | RPORATION LIM       |
|----|---|---------|--------------|---------------------|
|    | I   | 2019-20 | 2020-21      | Rs. Cr<br>2021-22   |
|    | Particulars                                     | Actual  | Estimated    | Projected           |
| 1  | Plant and Machinery                             | 3.01    | Louinatea    |                     |
| 2  | Building  | 1.54    | 1            |                     |
| 3  | Civil Works                                     | 0.04    |              |                     |
| 4  | Hydraulic Works                                 | -       | 1            | Consolidated<br>O&M |
| 5  | Lines, Cables Net Works etc.                    | -       | Consolidated |                     |
| 6  | Vehicles  | 0.00    | O&M          |                     |
| 7  | Furniture and Fixtures                          | 0.00    | approved for | approved for        |
| 8  | Office Equipments                               | 0.02    | the year     | the year            |
| 9  | Station Supplies                                | -       |              |                     |
| 10 | Lubricants & Consumable stores                  | 0.02    |              |                     |
| 11 | Oil/Turbine Oil consumed in internal combustion | -       |              |                     |
| 12 | Any other items (Spl R&M)                       | -       |              |                     |
|    | Total   | 4.63    |              |                     |
|    |   |         |              |                     |

|    | Particulars                                       | 2019-20 | 2020-21      | 2021-22      |
|----|---|---------|--------------|--------------|
|    | Particulars                                       | Actual  | Estimated    | Projected    |
| 1  | Salaries  | 17.82   |              |              |
| 2  | Additional Pay                                    | -       |              |              |
| 3  | Dearness Allowance (DA)                           | 4.03    |              |              |
| 4  | Other Allowances & Relief                         | 3.70    |              |              |
| 5  | Addl. Pay & C.Off Encashment                      | -       |              |              |
| 6  | Interim Relief / Wage Revision                    | -       |              |              |
| 7  | Overtime  | 0.78    |              |              |
| 8  | Bonus   | 0.07    |              |              |
| 9  | Medical Expenses Reimbursement                    | 0.07    |              |              |
| 10 | Travelling Allowance(Conveyance Allowance)        | -       |              |              |
| 11 | Leave Travel Assistance                           | 0.01    | Consolidated | Consolidated |
| 12 | Earned Leave Encashment                           | 2.05    | O&M          | O&M          |
| 13 | Payment Under Workman's Compensation And Gratuity | -       | approved for | approved for |
| 14 | Subsidised Electricity To Employees               | -       | the year     | the year     |
| 15 | Any Other Item                                    | -       |              |              |
| 16 | Staff Welfare Expenses                            | 0.05    |              |              |
| 17 | Capacity Building Exercise                        | -       |              |              |
| 18 | Apprentice And Other Training Expenses            | -       |              |              |
| 19 | Contribution To Terminal Benefits                 | 4.00    |              |              |
| 20 | Provident Fund Contribution                       | -       |              |              |
| 21 | Provision for PF Fund                             | -       |              |              |
| 22 | Any Other Items (Revision of pay@% of salary)     | 0.00    |              |              |
|    | Total Employee Costs                              | 32.58   |              |              |
| 23 | Less: Employee expenses capitalised               | 0.00    |              |              |
|    | Net Employee expenses (D)-(E)                     | 32.58   |              |              |

|               |  | NAMRUP TH    |              |             |
|---------------|--|--------------|--------------|-------------|
|               |  |              |              | Rs. Cr      |
|               | Particulars  | 2019-20      | 2020-21      | 2021-22     |
|               | Particulars  | Actual       | Estimated    | Projected   |
| 1             | Lease/ Rent  | 0.13         |              |             |
| 2             | Insurance  | 0.21         |              |             |
| 3             | Revenue Stamp Expenses Account                               | -            |              |             |
|               | Telephone, Postage, Telegram & Telex Charges                 | 0.02         | 1            |             |
| 5             | Incentive & Award To Employees/Outsiders                     | -            | 1            |             |
| 6             | Consultancy Charges  | 0.23         | 1            |             |
| $\rightarrow$ | Technical Fees   | -            | 1            |             |
| 8             | Other Professional Charges                                   | 0.02         | 1            |             |
| $\overline{}$ | Conveyance And Travelling                                    | 0.12         | İ            |             |
|               | License and Registration Fees                                | -            | İ            |             |
| -             | Vehicle Expenses   | 0.37         | İ            |             |
|               | Security / Service Charges Paid To Outside Agencies          | -            | 1            |             |
|               | Fee And Subscriptions Books And Periodicals                  | 0.05         | 1            |             |
| $\overline{}$ | Fees paid to AERC  | 0.33         | İ            |             |
| $\overline{}$ | Printing And Stationery                                      | 0.04         | i            |             |
| $\rightarrow$ | Advertisement Expenses                                       | 0.09         | i            |             |
| $\rightarrow$ | Contributions/Donations To Outside Institutes / Associations | 0.06         | Consolidated | Consolidate |
|               | Electricity Charges To Offices                               | 0.00         | O&M          | O&M         |
| $\rightarrow$ | Water Charges  | 0.00         | approved for | approved fo |
| $\rightarrow$ | Entertainment Charges  | 0.03         | the year     | the year    |
| $\rightarrow$ | Miscellaneous Expenses                                       | 0.03         | 1            |             |
| $\overline{}$ | ,  | 0.03         | ł            |             |
|               | Legal Charges Auditor's Fee                                  | 0.03         | ł            |             |
|               |  | 0.02         | ł            |             |
|               | Freight On Capital Equipments                                | -            | ł            |             |
| $\overline{}$ | Purchase Related Advertisement Expenses                      | -            | ł            |             |
| $\rightarrow$ | Vehicle Running Expenses Truck / Delivery Van                | <del>-</del> |              |             |
| $\rightarrow$ | Vehicle Hiring Expenses Truck / Delivery Van                 | -            |              |             |
| _             | Other Freight  | -            | 1            |             |
|               | Transit Insurance  | <del>-</del> |              |             |
| _             | Octroi   | -            |              |             |
| $\rightarrow$ | Incidental Stores Expenses                                   | -            |              |             |
| $\overline{}$ | Fabrication Charges  | -            | ļ            |             |
|               | CSR  | 0.04         | ļ            |             |
| $\overline{}$ | Total A&G Expenes  | 1.83         |              |             |
| $\overline{}$ | Less: A&G Expenses Capitalised                               | 0.00         |              |             |
| - 1           | Total A&G Expenes  | 1.83         |              |             |

### ASSAM POWER GENERATION CORPORATION LIMITED

### **NAMRUP THERMAL POWER STATION**

|   |       | FY2019-20       |        |                             |          |                          |       |                             |        |           |
|---|-------|-----------------|--------|-----------------------------|----------|--------------------------|-------|-----------------------------|--------|-----------|
| NTPS  |       |                 |        |                             |          |                          |       |                             |        |           |
| Group of Asset  Rate of  Depreciation  AERC 2015  REG |       | Opening balance |        | Adjustment as on 01/04/2017 |          | Addition during the year |       | Deletion during<br>the year |        | Closing t |
|   |       | Asset           | Depr   | Asset                       | Depr     | Asset                    | Depr  | Asset                       | Depr   | Asset     |
| Land  | 0.00% | 9.71            | -      | -                           | -        | -                        | -     | -                           | -      | 9.71      |
| Building  | 3.34% | 11.18           | 8.81   | -                           | -        | -                        | 0.00  | -                           | -      | 11.18     |
| Hydraulic works                                       | 5.28% | 0.04            | 0.00   | -                           | -        | -                        | 0.00  | -                           | -      | 0.04      |
| Other civil works                                     | 3.34% | 26.82           | 8.55   | -                           | -        | 0.74                     | 0.40  | (2.03)                      | (2.03) | 25.53     |
| Plant & machinery- Gas                                | 5.28% | 96.38           | 85.24  | -                           | -        | 0.41                     | 0.33  | -                           | -      | 96.79     |
| Plant & machinery- Hydel                              | 5.28% | -               | -      | -                           | -        | -                        | -     | -                           | -      | -         |
| Lines & cables  | 5.28% | 1.95            | 0.73   | -                           | -        | -                        | 0.05  | -                           | -      | 1.95      |
| Vehicle   | 9.50% | 0.55            | 0.50   | -                           | -        | -                        | 0.01  | (0.11)                      | (0.09) | 0.45      |
| Furniture   | 6.33% | 1.13            | 0.95   | -                           | -        | 0.06                     | 0.04  | -                           | -      | 1.19      |
| Other office equipment                                | 6.33% | 1.28            | 0.81   | -                           | -        | 0.19                     | 0.08  | -                           | -      | 1.47      |
| Roads on land belonging to others                     | 3.34% | -               | -      | -                           | -        | -                        | -     | -                           | -      | -         |
| Capital spares at Generating                          |       |                 |        |                             |          |                          |       |                             |        |           |
| Stations  | 5.28% |                 | 37.32  | -                           | <u> </u> | -                        | 0.65  | -                           | -      | 41.46     |
|   |       | 190.49          | 142.90 | -                           | -        | 1.40                     | 1.56  | (2.13)                      | (2.13) | 189.75    |
| Less: Depreciation on Grant                           |       |                 |        |                             |          |                          |       |                             |        |           |
| Total Grant in Capital Asset                          |       |                 |        |                             |          |                          | 13.16 |                             |        |           |
| Rate of Depreciation                                  |       |                 |        |                             |          |                          | 0.01  |                             |        |           |
| Depreciation on 90% of the                            |       |                 |        |                             |          |                          |       |                             |        |           |
| Assets funded by                                      |       |                 |        |                             |          |                          |       |                             |        |           |
| Grants/subsidies                                      |       |                 |        |                             |          |                          | 0.11  |                             |        |           |
| Net Depeciation                                       |       |                 |        |                             |          |                          | 1.46  |                             |        |           |

| NTPS   Rate of Depreciation AERC 2015 REG   Depreciation AERC 2015 REG |                          |           | 1       |
|--|--------------------------|-----------|---------|
| Depreciation AERC 2015 REG           Land         0.00%         -           Building         3.34%         8.81           Hydraulic works         5.28%         0.00           Other civil works         3.34%         6.91           Plant & machinery- Gas         5.28%         85.57           Plant & machinery- Hydel         5.28%         -           Lines & cables         5.28%         0.78           Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -  | NTPS                     |           |         |
| Depreciation AERC 2015 REG         Depr           Land         0.00%         -           Building         3.34%         8.81           Hydraulic works         5.28%         0.00           Other civil works         3.34%         6.91           Plant & machinery- Gas         5.28%         85.57           Plant & machinery- Hydel         5.28%         -           Lines & cables         5.28%         0.78           Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -   | Group of Asset           | Rate of   | palance |
| Land       0.00%       -         Building       3.34%       8.81         Hydraulic works       5.28%       0.00         Other civil works       3.34%       6.91         Plant & machinery- Gas       5.28%       85.57         Plant & machinery- Hydel       5.28%       -         Lines & cables       5.28%       0.78         Vehicle       9.50%       0.41         Furniture       6.33%       0.99         Other office equipment       6.33%       0.89         Roads on land belonging to others       3.34%       -   | •                        | AERC 2015 |         |
| Building       3.34%       8.81         Hydraulic works       5.28%       0.00         Other civil works       3.34%       6.91         Plant & machinery- Gas       5.28%       85.57         Plant & machinery- Hydel       5.28%       -         Lines & cables       5.28%       0.78         Vehicle       9.50%       0.41         Furniture       6.33%       0.99         Other office equipment       6.33%       0.89         Roads on land belonging to others       3.34%       -  |                          |           | Depr    |
| Hydraulic works         5.28%         0.00           Other civil works         3.34%         6.91           Plant & machinery- Gas         5.28%         85.57           Plant & machinery- Hydel         5.28%         -           Lines & cables         5.28%         0.78           Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -  | Land                     | 0.00%     | -       |
| Other civil works       3.34%       6.91         Plant & machinery- Gas       5.28%       85.57         Plant & machinery- Hydel       5.28%       -         Lines & cables       5.28%       0.78         Vehicle       9.50%       0.41         Furniture       6.33%       0.99         Other office equipment       6.33%       0.89         Roads on land belonging to others       3.34%       -   |                          | 3.34%     | 8.81    |
| Plant & machinery- Gas         5.28%         85.57           Plant & machinery- Hydel         5.28%         -           Lines & cables         5.28%         0.78           Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -  |                          | 5.28%     | 0.00    |
| Plant & machinery- Hydel         5.28%         -           Lines & cables         5.28%         0.78           Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -   | Other civil works        | 3.34%     | 6.91    |
| Lines & cables       5.28%       0.78         Vehicle       9.50%       0.41         Furniture       6.33%       0.99         Other office equipment       6.33%       0.89         Roads on land belonging to others       3.34%       -  | Plant & machinery- Gas   | 5.28%     | 85.57   |
| Vehicle         9.50%         0.41           Furniture         6.33%         0.99           Other office equipment         6.33%         0.89           Roads on land belonging to others         3.34%         -  | Plant & machinery- Hydel | 5.28%     | -       |
| Furniture 6.33% 0.99 Other office equipment 6.33% 0.89 Roads on land belonging to others 3.34% -   | Lines & cables           | 5.28%     | 0.78    |
| Other office equipment 6.33% 0.89  Roads on land belonging to others 3.34% -   | Vehicle                  | 9.50%     | 0.41    |
| Roads on land belonging to others 3.34% -  | Furniture                |           | 0.99    |
|  | Other office equipment   | 6.33%     | 0.89    |
| ouplied operior at Contracting   |                          | 3.34%     | -       |
| Stations 5.28% 37.97   |                          | 5.28%     | 37.97   |
| 142.34   |                          | 0.2013    |         |
| Less: Depreciation on Grant Total Grant in Capital Asset   |                          |           |         |
| Rate of Depreciation   |                          |           |         |
| Depreciation on 90% of the   |                          |           |         |
| Assets funded by   | Assets funded by         |           |         |
| Grants/subsidies   | Grants/subsidies         |           |         |
| Net Depeciation  | Net Depeciation          |           |         |

### ASSAM POWER GENERATION CORPORATION LIMITED

### **NAMRUP THERMAL POWER STATION**

|                                   |   |                                 | FY2020-21 |        |       |                    |       |                     |       |                     |         |
|-----------------------------------|---|---------------------------------|-----------|--------|-------|--------------------|-------|---------------------|-------|---------------------|---------|
| NTPS                              |   |                                 |           |        |       |                    |       |                     |       |                     |         |
| Group of Asset                    | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciable<br>asset | Opening b | alance |       | ment as<br>04/2018 |       | on during<br>e year | 1     | on during<br>e year | Closing |
|                                   |   |                                 | Asset     | Depr   | Asset | Depr               | Asset | Depr                | Asset | Depr                | Asset   |
| Land                              | 0.00%                                       | 9.71                            | 9.71      | -      | -     | <u> </u>           | -     | -                   | -     | -                   | 9.71    |
| Building                          | 3.34%                                       | 1.25                            | 11.18     | 8.81   | -     | -                  | -     | 0.00                | -     | -                   | 11.18   |
| Hydraulic works                   | 5.28%                                       | 0.03                            | 0.04      | 0.00   | -     | -                  | -     | 0.00                | -     | -                   | 0.04    |
| Other civil works                 | 3.34%                                       | 16.06                           | 25.53     | 6.91   | -     | -                  | 0.94  | 0.41                | -     | -                   | 26.47   |
| Plant & machinery- Gas            | 5.28%                                       | 1.54                            | 96.79     | 85.57  | -     | -                  | -     | 0.33                | -     | -                   | 96.79   |
| Plant & machinery- Hydel          | 5.28%                                       | -                               | -         | -      | -     | -                  | -     | -                   | -     | -                   | -       |
| Lines & cables                    | 5.28%                                       | 0.97                            | 1.95      | 0.78   | -     | -                  | -     | 0.05                | -     | -                   | 1.95    |
| Vehicle                           | 9.50%                                       | (0.01)                          | 0.45      | 0.41   | -     | -                  | -     | 0.01                | -     | -                   | 0.45    |
| Furniture                         | 6.33%                                       | 0.08                            | 1.19      | 0.99   | -     | -                  | -     | 0.04                | -     | -                   | 1.19    |
| Other office equipment            | 6.33%                                       | 0.43                            | 1.47      | 0.89   | -     | -                  | -     | 0.08                | -     | -                   | 1.47    |
| Roads on land belonging to others | 3.34%                                       | -                               | _         | _      | _     | _                  | _     | _                   | _     | _                   | _       |
| Capital spares at Generating      |   |                                 |           |        |       |                    |       |                     |       |                     |         |
| Stations                          | 5.28%                                       | (0.65)                          | 41.46     | 37.97  | -     | -                  | -     | 0.65                | -     | -                   | 41.46   |
|                                   |   | 29.41                           | 189.75    | ####   | -     | -                  | 0.94  | 1.58                | -     | -                   | 190.69  |
| Less: Depreciation on Grant       |   |                                 |           |        |       |                    |       |                     |       |                     |         |
| Total Grant in Capital Asset      |   |                                 |           |        |       |                    |       | 17.91               |       |                     |         |
| Rate of Depreciation              |   |                                 |           |        |       |                    |       | 0.01                |       |                     |         |
| Depreciation on 90% of the        |   |                                 |           |        |       |                    |       |                     |       |                     |         |
| Assets funded by                  |   |                                 |           |        |       |                    |       |                     |       |                     |         |
| Grants/subsidies                  |   |                                 |           |        |       |                    |       | 0.13                |       |                     |         |
| Net Depeciation                   |   |                                 |           |        |       |                    |       | 1.45                |       |                     |         |

| NTPS                                  |                                      |         |
|---------------------------------------|--------------------------------------|---------|
| Group of Asset                        | Rate of<br>Depreciation<br>AERC 2015 | balance |
|                                       | REG                                  |         |
|                                       |                                      | Depr    |
| Land                                  | 0.00%                                | -       |
| Building                              | 3.34%                                | 8.82    |
| Hydraulic works                       | 5.28%                                | 0.00    |
| Other civil works                     | 3.34%                                | 7.33    |
| Plant & machinery- Gas                | 5.28%                                | 85.90   |
| Plant & machinery- Hydel              | 5.28%                                | -       |
| Lines & cables                        | 5.28%                                |         |
| Vehicle                               | 9.50%                                |         |
| Furniture                             | 6.33%                                |         |
| Other office equipment                | 6.33%                                | 0.97    |
| Roads on land belonging to others     | 3.34%                                | -       |
| Capital spares at Generating Stations | 5.28%                                | 38.62   |
| Stations                              | 5.20%                                | 143.92  |
| Less: Depreciation on Grant           |                                      | 1 10.02 |
| Total Grant in Capital Asset          |                                      |         |
| Rate of Depreciation                  |                                      |         |
| Depreciation on 90% of the            |                                      |         |
| Assets funded by                      |                                      |         |
| Grants/subsidies                      |                                      |         |
| Net Depeciation                       |                                      |         |

### ASSAM POWER GENERATION CORPORATION LIMITED

### **NAMRUP THERMAL POWER STATION**

|                                   |   | FY2021-22                              |        |                 |       |                                   |       |                          |       |                     |         |
|-----------------------------------|---|--|--------|-----------------|-------|-----------------------------------|-------|--------------------------|-------|---------------------|---------|
| NTPS                              |   |  |        |                 |       |                                   |       |                          |       |                     |         |
| Group of Asset                    | Rate of<br>Depreciation<br>AERC 2015<br>REG | preciation Balance RC 2015 depreciable |        | Opening balance |       | Adjustment<br>as on<br>01/04/2018 |       | Addition during the year |       | on during<br>e year | Closing |
|                                   |   |  | Asset  | Depr            | Asset | Depr                              | Asset | Depr                     | Asset | Depr                | Asset   |
| Land                              | 0.00%                                       | 9.71                                   | 9.71   | -               | -     | -                                 | -     | -                        | -     | -                   | 9.71    |
| Building                          | 3.34%                                       | 1.24                                   | 11.18  | 8.82            | -     | -                                 | -     | 0.37                     | -     | -                   | 11.18   |
| Hydraulic works                   | 5.28%                                       | 0.03                                   | 0.04   | 0.00            | -     | -                                 | -     | 0.00                     | -     | -                   | 0.04    |
| Other civil works                 | 3.34%                                       | 16.50                                  | 26.47  | 7.33            | -     | -                                 | 0.35  | 0.89                     | -     | -                   | 26.82   |
| Plant & machinery- Gas            | 5.28%                                       | 1.21                                   | 96.79  | 85.90           | -     | -                                 | 0.78  | 0.06                     | -     | -                   | 97.57   |
| Plant & machinery- Hydel          | 5.28%                                       | -                                      | -      | -               | -     | -                                 | -     | -                        | -     | -                   | -       |
| Lines & cables                    | 5.28%                                       | 0.92                                   | 1.95   | 0.84            | -     | -                                 | -     | 0.10                     | -     | -                   | 1.95    |
| Vehicle                           | 9.50%                                       | (0.02)                                 | 0.45   | 0.42            | -     | -                                 | -     | -                        | -     | -                   | 0.45    |
| Furniture                         | 6.33%                                       | 0.04                                   | 1.19   | 1.02            | -     | -                                 | -     | 0.04                     | -     | -                   | 1.19    |
| Other office equipment            | 6.33%                                       | 0.35                                   | 1.47   | 0.97            | -     | -                                 | 0.46  | 0.11                     | -     | -                   | 1.92    |
| Roads on land belonging to others | 3.34%                                       | -                                      | -      | -               | -     | -                                 | -     | -                        | -     | -                   | -       |
| Capital spares at Generating      |   |  |        |                 |       |                                   |       |                          |       |                     |         |
| Stations                          | 5.28%                                       | (1.30)                                 | 41.46  | 38.62           | -     | -                                 | -     | -                        | -     | -                   | 41.46   |
|                                   |   | 28.68                                  | 190.69 | 143.92          | -     | -                                 | 1.58  | 1.58                     | -     | -                   | 192.28  |
| Less: Depreciation on Grant       |   |  |        |                 |       |                                   |       |                          |       |                     |         |
| Total Grant in Capital Asset      |   |  |        |                 |       |                                   |       | 20.71                    |       |                     |         |
| Rate of Depreciation              |   |  |        |                 |       |                                   |       | 0.01                     |       |                     |         |
| Depreciation on 90% of the        |   |  |        |                 |       |                                   |       |                          |       |                     |         |
| Assets funded by                  |   |  |        |                 |       |                                   |       |                          |       |                     |         |
| Grants/subsidies                  |   |  |        |                 |       |                                   |       | 0.16                     |       |                     |         |
| Net Depeciation                   |   |  |        |                 |       |                                   |       | 1.42                     |       |                     |         |

|                           | 1   |
|---------------------------|---|
|                           |   |
| Rate of                   | balance   |
| Depreciation<br>AERC 2015 |   |
| INEO                      | Depr  |
| 0.00%                     | -   |
|                           | 9.19  |
|                           |   |
|                           |   |
| 5.28%                     | 85.96   |
| 5.28%                     | -   |
| 5.28%                     | 0.94  |
| 9.50%                     | 0.42  |
| 6.33%                     | 1.07  |
| 6.33%                     | 1.08  |
| 3.34%                     | -   |
| 5 28%                     | 38.62   |
| 0.2070                    | 145.50  |
|                           |   |
|                           |   |
|                           |   |
|                           |   |
|                           |   |
|                           | Depreciation<br>AERC 2015<br>REG  0.00% 3.34% 5.28% 5.28% 5.28% 5.28% 6.33% 6.33% |

| _ |   |          |                  |              |                 |                  | Form No:     | 24              |  |
|---|---|----------|------------------|--------------|-----------------|------------------|--------------|-----------------|--|
|   |   | Loan     |                  |              | 9-20            |                  |              |                 |  |
|   | Loan Details  | Tenure   |                  | Opening      | Act             | uai<br>Principal | I            |                 |  |
|   |   | (yrs)    | Rate of Interest | Balance      | Amount received | repayment        | Interest Due | Closing Balance |  |
| Α | Secured Loans                                       | 0        | 10.1%            | 2294         | 0               | -834             | 190          | 1460            |  |
|   | I PFC Loans   | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | KLHEP   | 15       | 12.0%            | 5765         | 0               | -1335            | 611          | 4430            |  |
|   | NTPS(R&M)   | 13       | 12.0%            | 30643        | 2128            | -2169            | 3667         | 30602           |  |
|   | LTPS(R&M)   | 20       | 11.9%            | 38703        | 2128            | -4339            | 4468         | 36492           |  |
|   | NRPP  | 15       | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Sub-total   |          | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   |   |          | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   |   |          | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
| В | Unsecured Loans                                     | 0        | 10.0%            | 10           | 0               | 0                | 1            | 10              |  |
|   | I GOA -Loans  | 0        | 10.0%            | 1473         | 264             | 0                | 147          | 1737            |  |
|   | Rural electrification                               | 10       | 10.0%            | 886          | 0               | 0                | 89           | 886             |  |
|   | NRPP Ph-I   | 10       | 10.0%            | 1975         | 0               | 0                | 198          | 1975            |  |
| _ | LWHRP Lower Kopili HEP                              | 10<br>10 | 10.0%<br>10.0%   | 4109<br>2992 | 166<br>1129     | 0                | 411<br>300   | 4275<br>4121    |  |
|   | R&M NTPS  | 10       | 10.0%            | 153          | 0               | 0                | 15           | 153             |  |
|   | R&M LTPS  | 10       | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | LRPP  | 10       | 10.0%            | 400          | 0               | 0                | 40           | 400             |  |
|   | 0   | 0        | 10.0%            | 1165         | 0               | 0                | 117          | 1165            |  |
|   | Lungnit SHEP  | 10       | 10.0%            | 1805         | 0               | 0                | 181          | 1805            |  |
|   | Myntriang SHEP                                      | 10       | 10.0%            | 100          | 0               | 0                | 10           | 100             |  |
|   | LTPS, Ph-II   | 10       | 10.0%            | 70           | 0               | 0                | 7            | 70              |  |
|   | Development of SHEP                                 | 10       | 10.0%            | 40           | 0               | 0                | 4            | 40              |  |
|   | Survey & Investigation of HEP                       | 10       | 10.0%            | 9601         | 1698            | 0                | 972          | 11299           |  |
|   | Non-Conventional source of energy                   | 10       | 10.0%            | 215          | 0               | 0                | 22           | 215             |  |
|   | KLHEP   | 10       | 10.0%            | 250          | 0               | 0                | 25           | 250             |  |
|   | KLHEP (upper)                                       | 10       | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | KLHEP (intermediate)                                | 10       | 10.0%            | 104          | 0               | 0                | 10           | 104             |  |
|   | 0   | 0        | 10.0%            | 15           | 0               | 0                | 2            | 15              |  |
|   | Dhansiri HEP  | 10       | 10.0%            | 425          | 0               | 0                | 43           | 425             |  |
|   | Setting up of a 200MW (CCGT)                        | 10       | 10.0%            | 74           | 0               | 0                | 7            | 74              |  |
|   | Borgolai  | 10       | 10.0%            | 50           | 0               | 0                | 5            | 50              |  |
|   | Revival of TPS                                      | 10       | 10.0%            | 37           | 0               | 0                | 4            | 37              |  |
| _ | Development of Amguri  EAP consulting service       | 10<br>10 | 10.0%<br>10.0%   | 37<br>54     | 0               | 0                | 5            | 37<br>54        |  |
|   | Golaghat  | 10       | 10.0%            | 31325        | 0               | 0                | 3133         | 31325           |  |
|   | Boundary wall of Jagiroad                           | 10       | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Station heat Rate                                   | 10       | 10.0%            | 404          | 0               | 0                | 40           | 404             |  |
|   | Disaster  | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Sub-total   | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | 0   | 0        | 10.0%            | 2317         | 126             | 0                | 242          | 2444            |  |
| С |   | 0        | 10.0%            | 39           | 7               | 0                | 4            | 46              |  |
|   | LRPP  | 0        | 10.0%            | 82           | 58              | 0                | 12           | 140             |  |
|   | ADB Consultancy                                     | 0        | 0.0%             | 2439         | 191             | 0                | 258          | 2630            |  |
|   | Lower Kopili HEP                                    | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
| _ | Sub-total   | 0        | 0.0%             | 0            | 0               | 0                | 7            | 0               |  |
| D | Other Interest & Finance Charges                    | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Cost of raising Finance / Bank Charges              | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Interest on Security Deposit                        | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
|   | Penal Interest Charges  Lease Rentals               | 0        | 0.0%             | 0            | 0               | 0                | 7            | 0               |  |
|   | Lease Rentals Sub-total                             | 0        | 0.0%             | 98911        | 5578            | 0<br>-4339       | 0<br>10522   | 100151          |  |
|   | อนม-เปเสเ   | U        | 0.0%             | 90911        | 55/8            | -4339            | 10022        | 1010151         |  |
| E | nd Total Of Interest & Finance Charges (A + B + C - | 0        | 0.0%             | 98911        | 5578            | -4339            | 6329         | 100151          |  |
| F | Less: Interest & Finance Charges Capitalised        | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |
| G | Net Total Of Interest & Finance Charges (E - F)     | 0        | 0.0%             | 0            | 0               | 0                | 0            | 0               |  |

|   |   | Form No: 24      |         |                   |                 |              |          |  |  |
|---|---|------------------|---------|-------------------|-----------------|--------------|----------|--|--|
|   |   |                  |         | 2020-2            |                 |              |          |  |  |
|   | Loan Details  |                  | Opening | Estimat<br>Amount | ed<br>Principal | I            | Closing  |  |  |
|   |   | Rate of Interest | Balance | received          | repayment       | Interest Due | Balance  |  |  |
| Α | Secured Loans                                       | 10.1%            | 1460    | 0                 | -834            | 105          | 626      |  |  |
|   | I PFC Loans   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | KLHEP   | 12.0%            | 4430    | 0                 | -1335           | 451          | 3095     |  |  |
|   | NTPS(R&M)   | 12.0%            | 30602   | 0                 | -2169           | 3534         | 28433    |  |  |
|   | LTPS(R&M)   | 0.0%             | 36492   | 0                 | -4339           | 4091         | 32153    |  |  |
|   | NRPP  | 0.0%             | 0       | 0                 | 0               | 0            | 02100    |  |  |
|   | Sub-total   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | ous total   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
| _ |   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
| В | Unsecured Loans                                     | 10.0%            | 10      | 0                 | 0               | 1            | 10       |  |  |
|   | I GOA -Loans  | 10.0%            | 1737    | 0                 | 0               | 174          | 1737     |  |  |
|   | Rural electrification                               | 10.0%            | 886     | 0                 | 0               | 89           | 886      |  |  |
|   | NRPP Ph-I   | 10.0%            | 1975    | 0                 | 0               | 198          | 1975     |  |  |
|   | LWHRP   | 10.0%            | 4275    | 147               | 0               | 435          | 4423     |  |  |
|   | Lower Kopili HEP                                    | 10.0%            | 4121    | 737               | 0               | 449          | 4858     |  |  |
|   | R&M NTPS  | 10.0%            | 153     | 0                 | 0               | 15           | 153      |  |  |
|   | R&M LTPS  | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | LRPP  | 10.0%            | 400     | 0                 | 0               | 40           | 400      |  |  |
|   | 0   | 10.0%            | 1165    | 0                 | 0               | 117          | 1165     |  |  |
|   | Lungnit SHEP  | 10.0%            | 1805    | 0                 | 0               | 181          | 1805     |  |  |
|   | Myntriang SHEP                                      | 10.0%            | 100     | 0                 | 0               | 10           | 100      |  |  |
|   | LTPS, Ph-II   | 10.0%            | 70      | 0                 | 0               | 7            | 70       |  |  |
|   | Development of SHEP                                 | 10.0%            | 40      | 0                 | 0               | 4            | 40       |  |  |
|   | Survey & Investigation of HEP                       | 10.0%            | 11299   | 1645              | 0               | 1212         | 12944    |  |  |
|   | Non-Conventional source of energy                   | 10.0%            | 215     | 0                 | 0               | 22           | 215      |  |  |
| _ | KLHEP<br>KLHEP (upper)                              | 10.0%<br>0.0%    | 250     | 0                 | 0               | 25<br>0      | 250      |  |  |
| _ | KLHEP (upper)  KLHEP (intermediate)                 | 10.0%            | 104     | 0                 | 0               | 10           | 0<br>104 |  |  |
| _ | NLHEP (Intermediate)                                | 10.0%            | 15      | 0                 | 0               | 2            | 15       |  |  |
|   | Dhansiri HEP  | 10.0%            | 425     | 0                 | 0               | 43           | 425      |  |  |
|   | Setting up of a 200MW (CCGT)                        | 10.0%            | 74      | 0                 | 0               | 7            | 74       |  |  |
|   | Borgolai  | 10.0%            | 50      | 0                 | 0               | 5            | 50       |  |  |
|   | Revival of TPS                                      | 10.0%            | 37      | 0                 | 0               | 4            | 37       |  |  |
| - | Development of Amguri                               | 10.0%            | 37      | 0                 | 0               | 4            | 37       |  |  |
| _ | EAP consulting service                              | 10.0%            | 54      | 0                 | 0               | 5            | 54       |  |  |
|   | Golaghat  | 10.0%            | 31325   | 0                 | 0               | 3133         | 31325    |  |  |
|   | Boundary wall of Jagiroad                           | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Station heat Rate                                   | 10.0%            | 404     | 0                 | 0               | 40           | 404      |  |  |
|   | Disaster  | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Sub-total   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | 0   | 10.0%            | 2444    | 0                 | 0               | 244          | 2444     |  |  |
| С |   | 10.0%            | 46      | 0                 | 0               | 5            | 46       |  |  |
|   | LRPP  | 10.0%            | 140     | 0                 | 0               | 14           | 140      |  |  |
|   | ADB Consultancy                                     | 0.0%             | 2630    | 0                 | 0               | 263          | 2630     |  |  |
|   | Lower Kopili HEP                                    | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Sub-total   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
| D |   | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Cost of raising Finance / Bank Charges              | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Interest on Security Deposit                        | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Penal Interest Charges                              | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Lease Rentals                                       | 0.0%             | 0       | 0                 | 0               | 0            | 0        |  |  |
|   | Sub-total   | 0.0%             | 100151  | 2529              | -4339           | 10583        | 98341    |  |  |
| E | nd Total Of Interest & Finance Charges (A + B + C · | 0                | 100151  | 2529              | -4339           | 10583        | 98341    |  |  |
| F | Less: Interest & Finance Charges Capitalised        | 0                | 0       | 0                 | 0               | 0            | 0        |  |  |
| G | Net Total Of Interest & Finance Charges (E - F)     | 0                | 0       | 0                 | 0               | 0            | 0        |  |  |

| _ |   | Form No: 24 |         |          |           |              |                 |  |
|---|---|-------------|---------|----------|-----------|--------------|-----------------|--|
|   |   |             |         |          | 2021-22   |              |                 |  |
|   | Loan Details                                      |             |         |          | Projected | 1            | 1               |  |
|   |   | Rate of     | Opening | Amount   | Principal | Interest Due | Closing Balance |  |
|   |   | Interest    | Balance | received | repayment |              |                 |  |
| Α | Secured Loans                                     | 10.1%       | 626     | 0        | -626      | 32           | 0               |  |
|   | I PFC Loans                                       | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | KLHEP   | 12.0%       | 3095    | 0        | -1335     | 291          | 1760            |  |
|   | NTPS(R&M)   | 12.0%       | 28433   | 0        | -2169     | 3274         | 26263           |  |
|   | LTPS(R&M)   | 0.0%        | 32153   | 0        | -4130     | 3597         | 28023           |  |
| _ | NRPP  | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   |   |             |         |          |           |              |                 |  |
|   | Sub-total   | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   |   | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
| _ |   | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
| В | Unsecured Loans                                   | 10.0%       | 10      | 0        | 0         | 1            | 10              |  |
|   | I GOA -Loans                                      | 10.0%       | 1737    | 0        | 0         | 174          | 1737            |  |
|   | Rural electrification                             | 10.0%       | 886     | 0        | 0         | 89           | 886             |  |
|   | NRPP Ph-I   | 10.0%       | 1975    | 0        | 0         | 198          | 1975            |  |
|   | LWHRP   | 10.0%       | 4423    | 190      | 0         | 452          | 4612            |  |
|   | Lower Kopili HEP                                  | 10.0%       | 4858    | 710      | 0         | 521          | 5568            |  |
|   | R&M NTPS  | 10.0%       | 153     | 0        | 0         | 15           | 153             |  |
|   | R&M LTPS  | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | LRPP  | 10.0%       | 400     | 0        | 0         | 40           | 400             |  |
|   | 0   | 10.0%       | 1165    | 0        | 0         | 117          | 1165            |  |
|   | Lungnit SHEP                                      | 10.0%       | 1805    | 0        | 0         | 181          | 1805            |  |
|   | Myntriang SHEP                                    | 10.0%       | 100     | 0        | 0         | 10           | 100             |  |
|   | LTPS, Ph-II                                       | 10.0%       | 70      | 0        | 0         | 7            | 70              |  |
|   | Development of SHEP                               | 10.0%       | 40      | 0        | 0         | 4            | 40              |  |
|   | Survey & Investigation of HEP                     | 10.0%       | 12944   | 210      | 0         | 1305         | 13154           |  |
|   | Non-Conventional source of energy                 | 10.0%       | 215     | 0        | 0         | 22           | 215             |  |
|   | KLHEP   | 10.0%       | 250     | 0        | 0         | 25           | 250             |  |
|   | KLHEP (upper)                                     | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | KLHEP (intermediate)                              | 10.0%       | 104     | 0        | 0         | 10           | 104             |  |
|   | 0   | 10.0%       | 15      | 0        | 0         | 2            | 15              |  |
|   | Dhansiri HEP                                      | 10.0%       | 425     | 0        | 0         | 43           | 425             |  |
|   | Setting up of a 200MW (CCGT)                      | 10.0%       | 74      | 0        | 0         | 7            | 74              |  |
|   | Borgolai  | 10.0%       | 50      | 0        | 0         | 5            | 50              |  |
|   | Revival of TPS                                    | 10.0%       | 37      | 0        | 0         | 4            | 37              |  |
|   | Development of Amguri                             | 10.0%       | 37      | 0        | 0         | 4            | 37              |  |
|   | EAP consulting service                            | 10.0%       | 54      | 0        | 0         | 5            | 54              |  |
|   | Golaghat  | 10.0%       | 31325   | 0        | 0         | 3133         | 31325           |  |
|   | Boundary wall of Jagiroad                         | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Station heat Rate                                 | 10.0%       | 404     | 0        | 0         | 40           | 404             |  |
|   | Disaster  | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Sub-total   | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | 0   | 10.0%       | 2444    | 0        | 0         | 244          | 2444            |  |
| С | II GOA -Loans (Source ADB)                        | 10.0%       | 46      | 0        | 0         | 5            | 46              |  |
|   | LRPP  | 10.0%       | 140     | 0        | 0         | 14           | 140             |  |
|   | ADB Consultancy                                   | 0.0%        | 2630    | 0        | 0         | 263          | 2630            |  |
|   | Lower Kopili HEP                                  | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Sub-total   | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
| D | Other Interest & Finance Charges                  | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Cost of raising Finance / Bank Charges            | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Interest on Security Deposit                      | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Penal Interest Charges                            | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Lease Rentals                                     | 0.0%        | 0       | 0        | 0         | 0            | 0               |  |
|   | Sub-total   | 0.0%        | 98341   | 1110     | -4130     | 10272        | 95321           |  |
|   |   | 2.370       |         |          |           |              | 1               |  |
|   |   |             |         |          |           |              |                 |  |
| Е | nd Total Of Interest & Finance Charges (A + B + C | 0           | 98341   | 1110     | -4130     | 10272        | 95321           |  |
|   |   |             |         |          |           |              |                 |  |
| F | Less: Interest & Finance Charges Capitalised      | 0           | 0       | 0        | 0         | 0            | 0               |  |
| G | Net Total Of Interest & Finance Charges (E - F)   | 0           | 0       | 0        | 0         | 0            | 0               |  |

|   | Loan Details  | Unit   | 2019-20 | 2020-21   | 2021-22   |
|---|---|--------|---------|-----------|-----------|
|   | Loan Details  | Unit   | Actual  | Estimated | Projected |
| 1 | Equity (Opening Balance)  | Rs. Cr | 55      | 55        | 55        |
| 2 | Add: Increase due to discharges during the year / period                | Rs. Cr | 0       | 0         | 0         |
| 3 | Less: Decrease due to de-<br>capitalisation during the year /<br>period | Rs. Cr | 0       | 0         | 0         |
| 4 | Less: Decrease due to reversal during the year / period                 | Rs. Cr | 0       | 0         | 0         |
| 5 | Equity (Closing Balance)  | Rs. Cr | 55      | 55        | 55        |
| 6 | Average Equity  | Rs. Cr | 55      | 55        | 55        |
| 7 | Rate of Return on Equity  | %      | 15.5%   | 15.5%     | 15.5%     |
| 8 | Return on Equity  | Rs. Cr | 8.53    | 5.57      | 3.10      |

|   | Particulars   | Unit           | 2018-19           | 2019-20         | 2020-21        |  |
|---|---|----------------|-------------------|-----------------|----------------|--|
|   | Farticulars   | Ullit          | Actual            | Estimated       | Projected      |  |
|   | For Coal Based Generating Stations                    |                |                   |                 |                |  |
|   | Cost of Coal for 1.5 months for pithead & 2           |                |                   |                 |                |  |
|   | months for non-pit head generating station*           | Rs. Cr         |                   |                 |                |  |
| 2 | Cost of Secondary Fuel Oil for 2 months*              | Rs. Cr         |                   |                 |                |  |
| 3 | Maintenance Spares @ 20% of O&M                       | Rs. Cr         |                   |                 |                |  |
| 4 | O&M expenses for 1 month                              | Rs. Cr         |                   |                 |                |  |
|   | Receivables equivalent to 2 months of capacity        |                |                   |                 |                |  |
| 5 | and energy charge^                                    | Rs. Cr         |                   |                 |                |  |
|   | Total Working Capital Requirement                     | Rs. Cr         |                   |                 |                |  |
|   | Rate of Interest #                                    | %              |                   |                 |                |  |
|   | Interest on Normative Working Capital                 |                |                   |                 |                |  |
|   | Requirement   | Rs. Cr         |                   |                 |                |  |
|   |   |                |                   |                 |                |  |
|   | For Open-cycle Gas Turbine/ Combined Cycle            |                |                   |                 |                |  |
|   | thermal generating stations                           |                |                   |                 |                |  |
| 1 | Fuel expenses for 1 month *                           | Rs. Cr         | 6.74              | 3.11            | 1.82           |  |
| 2 | Liquid fuel stock for 15 days*                        | Rs. Cr         | -                 | -               | -              |  |
| - | Maintenance spares @ 30% of O&M                       | Rs. Cr         | 10.97             | 10.82           | 6.40           |  |
| - | O&M expenses for 1 month                              | Rs. Cr         | 3.05              | 3.01            | 1.78           |  |
|   | Receivables equivalent to 2 months of capacity        |                |                   | 40.07           |                |  |
|   | and energy charge^                                    | Rs. Cr         | 19.83             | 12.67           | 6.95           |  |
|   | Total Working Capital Requirement                     | Rs. Cr         | 40.58             | 29.61           | 16.96          |  |
|   | Rate of Interest #                                    | %              | 10.00%            | 10.00%          | 10.00%         |  |
|   | Interest on Normative Working Capital                 |                | 4.00              | 2.00            | 4.70           |  |
|   | Requirement   | Rs. Cr         | 4.06              | 2.96            | 1.70           |  |
|   |   |                |                   |                 |                |  |
|   | For Hydro Generating stations                         |                |                   |                 |                |  |
| 1 | O&M expenses for 1 month                              | Rs. Cr         |                   |                 |                |  |
| 2 | Maintenance spares @ 15% of O&M                       | Rs. Cr         |                   |                 |                |  |
|   | Receivables equivalent to 2 months of annual          |                |                   |                 |                |  |
| 3 | fixed charge  | Rs. Cr         |                   |                 |                |  |
|   | Total Working Capital Requirement                     | Rs. Cr         |                   |                 |                |  |
|   | Rate of Interest #                                    | %              |                   |                 |                |  |
|   | Interest on Normative Working Capital                 |                |                   |                 |                |  |
|   | Requirement   | Rs. Cr         |                   |                 |                |  |
|   | * corresponding to target availability                |                |                   |                 |                |  |
|   | ^ calculated on target availability                   |                |                   |                 |                |  |
|   | # shall be equal to theinterest rate equivalent to St | ate Bank of Ir | ndia base rate as | on 1st April of | the respective |  |

| ame of Company:  |           |                       |                       |                |  |
|--|-----------|-----------------------|-----------------------|----------------|--|
| ame of Plant/ Station:   |           |                       |                       |                |  |
|  |           |                       |                       |                |  |
| Detailed Information in respect of fuel for computation of Energ                 | y Charges |                       | Form No:              | F27            |  |
| Particulars  | Unit      | Preceeding 3rd Month* | Preceeding 2nd Month* | Preceeding     |  |
| 1 Quantity of Coal/ Lignite supplied by Coal/ Lignite Company                    | MMT       |                       |                       |                |  |
| 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 Cr.    |                       |                       |                |  |
| 7 Adjustment (+/-) in amount charged made by Coal/Lignite Company                | Rs Cr.    | 7                     |                       |                |  |
| 8 Total amount Charged (6+7)   | Rs Cr.    |                       |                       |                |  |
| 9 Transportation charges by rail/ship/road transport                             | Rs Cr.    |                       |                       |                |  |
| 0 Adjustment (+/-) in amount charged made by Railways/Transport Company          | Rs Cr.    | 1                     |                       |                |  |
| 1 Demurrage Charges, if any  | Rs Cr.    | Coo price abo         | ets inlouded sep      | orataly (Char  |  |
| 2 Cost of diesel in transporting coal through MGR system, if applicable          | Rs Cr.    | Gas price site        | : Gas Price)          | eratery (Silet |  |
| 3 Total Transportation Charges (9+/-10-11+12)                                    | Rs Cr.    |                       | . 003 1 1100)         |                |  |
| 4 Total amount Charged for coal/lignite supplied including Transportation (8+13) | Rs Cr.    |                       |                       |                |  |
| 5 Landed cost of coal/ Lignite   | Rs./MT    |                       |                       |                |  |
| 6 Blending Ratio (Domestic/Imported)   |           |                       |                       |                |  |
| Weighted average cost of coal/ Lignite for preceding three months                | Rs./MT    |                       |                       |                |  |
| 8 GCV of Domestic Coal as per bill of Coal Company                               |           |                       |                       |                |  |
| 9 GCV of Imported Coal as per bill Coal Company                                  |           |                       |                       |                |  |
| 0 Weighted average GCV of coal/ Lignite as Billed                                | kCal/ kg  | 1                     |                       |                |  |
| 1 GCV of Domestic Coal as received at Station                                    |           |                       |                       |                |  |
| 2 GCV of Imported Coal as received at Station                                    |           |                       |                       |                |  |
| Weighted average GCV of coal/ Lignite as Received                                | kCal/ kg  |                       |                       |                |  |
| * From COD of 1/4/2016 as the case may be  |           |                       |                       |                |  |
|  |           | I for coal/lignite    |                       |                |  |

|   | ASSAM POWER GENERATION CORPORATION LIMITED  NAMRUP THERMAL POWER STATION |         |           |           |  |  |  |  |
|---|--|---------|-----------|-----------|--|--|--|--|
| Details of Expenses Capitalised Form No: F 28 |  |         |           |           |  |  |  |  |
|   |  |         | -         | (Rs. Cr)  |  |  |  |  |
|   |  | 2018-19 | 2019-20   | 2020-21   |  |  |  |  |
|   |  | Actual  | Estimated | Projected |  |  |  |  |
|   |  |         |           |           |  |  |  |  |
| 1   | Interest & Finance charges Capitalised                                   | 0.00    | 0.00      | 0.00      |  |  |  |  |
| 2   | Employee expenses  | 0.00    | 0.00      | 0.00      |  |  |  |  |
| 3   | A&G Expenses   | 0.00    | 0.00      | 0.00      |  |  |  |  |
| 4   | Others, if any   | 0.00    | 0.00      | 0.00      |  |  |  |  |
|   | Grand Total  | 0.00    | 0.00      | 0.00      |  |  |  |  |

REGULATORY FORMATS FOR ARR & TARIFF FILING BY GENERATION LICENSEE -LAKWA THERMAL POWER STATION

# Name of Company: Name of Plant/ Station: ASSAM POWER GENERATION CORPORATION LIMITED LAKWA THERMAL POWER STATION

|   | Annual Revenue Requirement Summary   |                   |                   | Form No:             | F1<br>Rs Ci          |
|---|--|-------------------|-------------------|----------------------|----------------------|
|   |  | Form              | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projected |
| Α | Generation   |                   |                   |                      |                      |
| 1 | Gross Generation (MU)  | F4                | 362.01            | 395.92               | 425.7                |
| 2 | Aux Consumption (%)  | F4                | 10.39%            | 7.23%                | 5.50%                |
| 3 | Net Generation (MU)  | F4                | 324.39            | 367.31               | 402.3                |
| В | Capacity Charges (Annual Fixed Charges)  |                   |                   |                      |                      |
| 1 | O&M expenses   |                   | 41.53             | 37.26                | 39.6                 |
| а | Employee Expenses  | F21               | 28.54             | 0.00                 |                      |
| b | R & M Expense  | F20               | 8.96              | 0.00                 |                      |
| С | A&G Expense  | F22               | 4.02              | 0.00                 |                      |
|   | Increase in AERC Filing Fees   |                   |                   | 0.10                 | 0.1                  |
| 2 | Depreciation   | F23               | 11.15             | 7.70                 | 7.7                  |
| 3 | Interest on Loans  | F14B              | 0.03              | 0.00                 | 0.0                  |
| 4 | Return on Equity   | F25               | 22.18             | 15.16                | 15.1                 |
| 5 | Interest on Working Capital  | F26               | 5.11              | 4.13                 | 4.5                  |
| 6 | Income Tax   | F29               | 0.41              | 0.00                 | 0.0                  |
| 7 | Prior Period items   |                   |                   |                      |                      |
| 8 | Special allowance in lieu of R&M or separate compensation allowance  |                   | 0.00              | 0.00                 | 18.0                 |
| 9 | Other income   |                   | -25.37            | -9.22                | -9.2                 |
|   | Capacity Building  |                   | 0.11              | 0.10                 | 0.1                  |
|   | Total  |                   | 55.15             | 55.23                | 76.0                 |
| С | Variable Charges (Energy Charges)  |                   |                   |                      |                      |
|   | Energy Charges from Primary Fuel (Rs Cr) C1, C2, C3, C4  | F4                | 108.21            | 71.29                | 71.2                 |
|   | Energy Charges from Primary Fuel (Rs/ kWh)   | F4                | 2.99              | 1.80                 | 1.6                  |
|   | C1 - If multifuel is used simultaneously, energy charges to be given in respect C2 - Energy charge shall be computed for open cycle operation and combine C3 - Energy charge shall be worked out based on ex-bus energy scheduled to | d cycle operation |                   | se of gas/ liquid    | d fuel fired pl      |

| e of Company:<br>e of Plant/ Station:   |  |                    |                | ER GENERAT                        |               |               |                |                                |
|---|--|--------------------|----------------|-----------------------------------|---------------|---------------|----------------|--------------------------------|
| Charateristics-Thermal  |  |                    |                |                                   |               |               | Form No:       | F2a                            |
|   |  | 11.24.11           |                | 11.20.07                          | 11.7634       | 11.21.0       | 11.24.340      |                                |
| Unit(s)/ Block(s) Parameters  | Unit I                                     | Unit II            | Unit III       | Unit IV                           | Unit V        | Unit VI       | Unit VII       | Unit V                         |
| Installed Capacity ( MW)  | 15   | 15                 | 15             | 15                                | 20            | 20            | 20             | 37.2<br>30/06/20               |
| Schedule COD as per Investment Approval  Actual COD /Date of Taken Over (as applicable)   | 30/071983                                  | 26/04/1981         | 08-02-1981     | 28/11/1986                        | 01-03-1994    | 26/07/1994    | 24/05/1999     | 17/01/20                       |
| Pit Head or Non Pit Head  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | N/A                            |
| Name of the Boiler Manufacture  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | BHEL,TR                        |
| Name of Turbine Generator Manufacture   | Westinhou<br>se Canada<br>Ltd.             | WCL                | WCL            | Mitsubishi<br>Heavy<br>Industries | BHEL HYD      | BHEL HYD      | BHEL HYD       | BHEL<br>HYDERA                 |
| Main Steams Pressure at Turbine inlet (kg/Cm2) abs <sup>1</sup> .   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | HP-60 Kg<br>LP-4.5 Kg          |
| Main Steam Temperature at Turbine inlet (oC) <sup>1</sup>   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | HP-460<br>LP-200               |
| Reheat Steam Pressure at Turbine inlet (kg/Cm2) 1   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | N/A                            |
| Reheat Steam Temperature at Turbine inlet (oC)  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | N/A                            |
| Main Steam flow at Turbine inlet under MCR condition (tons /hr) <sup>2</sup>  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | HP-122.<br>TPH<br>LP-31.64     |
| Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup>  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | HP-122.<br>TPH<br>LP-31.64     |
| Unit Gross electrical output under MCR /Rated condition (MW) <sup>2</sup>   | 15   | 15                 | 15             | 15                                | 20            | 20            | 20             | 37.2                           |
| Unit Gross electrical output under VWO condition (MW) <sup>2</sup>  | 15   | 15                 | 15             | 15                                | 20            | 20            | 20             | N/A                            |
| Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>   | 3513                                       | 3513               | 3513           | 3589                              | 3292          | 3292          | 3292           | N/A                            |
| Conditions on which design turbine cycle heat rate guaranteed   | NCV  | NCV                | NCV            | NCV                               | NCV           | NCV           | NCV            |                                |
| % MCR   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | 100%                           |
| % Makeup Water Consumption  | N/A<br>N/A                                 | N/A<br>N/A         | N/A<br>N/A     | N/A<br>N/A                        | N/A<br>N/A    | N/A<br>N/A    | N/A<br>N/A     | 2.729                          |
| Design Capacity of Make up Water System  Design Capacity of Inlet Cooling System  | N/A<br>N/A                                 | N/A<br>N/A         | N/A<br>N/A     | N/A<br>N/A                        | N/A<br>N/A    | N/A<br>N/A    | N/A<br>N/A     | 256 m <sup>3</sup><br>8700 T   |
| Design Cooling Water Temperature (0C)   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | 32º (                          |
| Back Pressure   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | 0.098 Kg                       |
| Steam flow at super heater outlet under BMCR  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | (ABS                           |
| condition (tons/hr)  Steam Pressure at super heater outlet under  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | LP-33 T<br>HP-63 Kg            |
| BMCR condition) (kg/Cm2)  Steam Temperature at super heater outlet under  | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | LP-5 Kg/C<br>HP-463            |
| BMCR condition (0C)  Steam Temperature at Reheater outlet at BMCR   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | LP-202<br>N/A                  |
| condition (0C)  Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>  | N/A  | N/A                | N/A            | N/A                               | 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                               | N/A           | N/A           | N/A            | N/A<br>Mechan                  |
| Type of Cooling Tower   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | Draft Cod<br>Towe              |
| Type of cooling system5   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | Induced of coolin              |
| Type of Boiler Feed Pump6 Fuel Details7   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | Motor dr                       |
| -Primary Fuel   | Natural gas                                |                    |                | Natural gas                       | _             | -             | Natural gas    | Flue gas<br>GT #5,#6<br>of LTF |
| -Secondary Fuel -Alternate Fuels  | N/A<br>N/A                                 | N/A<br>N/A         | N/A<br>N/A     | N/A<br>N/A                        | N/A<br>N/A    | N/A<br>N/A    | N/A<br>N/A     | N/A<br>N/A                     |
| Special Features/ Site Specific Features <sup>8</sup>   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | Intake W                       |
| Special Technological Features <sup>9</sup>   | N/A  | N/A                | N/A            | N/A                               | N/A           | N/A           | N/A            | pump ho<br>N/A                 |
| Environmental Regulation related features <sup>10</sup> Any other special features  | N/A  | N/A                | N/A            | N/A                               | N/A<br>N/A    | N/A           | N/A            | N/A                            |
|   | er temperatur<br>% (Nil) makeung Value (HH | e<br>up and design | n Cooling wa   | ter temperatu                     | N/A           | N/A           | N/A            | N/A                            |
| 8: Any site specific feature such as Merry-Go-Roi 9: Any Special Technological feature like Advance 10: Environmental Regulation related features like  | ed class FA t                              | echnology in       | •              |                                   | etc. scrubber | s etc. Specif | y all such fea | atures                         |
| Note 1: In case of deviation from specified condition of the submitted Note 2: Heat Balance Diagram has to be submitted Note 3: The Terms – MCR, BMCR, HHV, Perform Lines Regulations – 2010 notified by the Central It | ed along with<br>nance coal, a             | above inforn       | nation in case | e of new stati                    | ons.          |               | ectric Plants  | and Electi                     |

| Name of Company:        | SSAM POWER GENERATION CORPORATION LIMITE |
|-------------------------|--|
| Name of Plant/ Station: | LAKWA THERMAL POWER STATION              |

|    | Particulars   | Unit      | 2019-20         | 2020-21         | 2021-2  |
|----|---|-----------|-----------------|-----------------|---------|
|    |   |           | Actual          | Estimated       | Project |
| 1  | Page Date of Deturn on Equity                         | %         | 15.50           | 45.50           | 15.50   |
| 2  | Base Rate of Return on Equity  Target Availability    | %         | 15.50<br>50.00% | 15.50<br>50.00% | 50.00   |
| 3  | Auxiliary Energy Consumption                          | %         | 5.50%           | 5.50%           | 5.50%   |
| 4  | Gross Station Heat Rate                               | kCal/ kWh | 3200            | 3200            | 3200    |
| 5  | Specific Fuel Oil Consumption ml/kWh                  | ml/ kWh   |                 |                 |         |
| 6  | Cost of Coal/ Lignite                                 | Rs/ Ton   |                 |                 |         |
| 7  | Cost of Main Secondary Fuel Oil                       | Rs/ kL    |                 |                 |         |
| 8  | Cost of Gas   | Rs/ SCM   | 8.26            | 5.78            | 4.92    |
| 9  | Primary Fuel (Coal/ Lignite/ Gas) for Working Capital | in Months |                 |                 |         |
| 10 | Secondary Fuel for Working Capital                    | in Months |                 |                 |         |
| 11 | O&M Expenses  | Rs/ MW    |                 |                 |         |
| 12 | Maintenance Spares for Working Capital                | % of O&M  | 30              | 30              | 30      |
| 13 | Receivebles for Working Capital                       | in Months | 2 months        | 2 months        | 2 mont  |
| 14 | Base Rate of SBI as on 01-04-2017                     | %         | 10.0%           | 10.0%           | 10.00   |

| Nam | e of Company:                                       | ASSAM POWER GENERATION CORPORATION LIMITED |           |                  |           |  |  |
|-----|---|--|-----------|------------------|-----------|--|--|
| Nam | e of Plant/ Station:                                | LAKWA                                      | A THERMAL | <b>POWER STA</b> | TION      |  |  |
|     |   |  |           |                  |           |  |  |
|     | Generation Details and Variable                     | Cost                                       |           | Form No:         | F4        |  |  |
|     | Г   |  | 2019-20   | 2020-21          | 2021-22   |  |  |
|     | Particulars   | Unit                                       | Actual    | Estimated        | Projected |  |  |
| 1   | Installed Capacity                                  | MW   | 97.20     | 97.20            | 97.20     |  |  |
| 2   | Plant Load Factor                                   | %  | 40.21%    | 45.66%           | 50.00%    |  |  |
| 3   | Gross Generation                                    | MU   | 362.01    | 395.92           | 425.74    |  |  |
| 4   | Auxiliary Consumption                               | %  | 10.39%    | 7.23%            | 5.50%     |  |  |
| 5   | Auxiliary Consumption                               | MU   | 37.612    | 28.61            | 23.42     |  |  |
| 6   | Net Generation                                      | MU   | 324.393   | 367.31           | 402.324   |  |  |
| 7   | Station Heat Rate                                   | kCal/ kWh                                  | 3397      | 2981             | 3200      |  |  |
|     |   |  |           |                  |           |  |  |
|     | Primary Fuel Consumption (Coal/ Lignite)            |  |           |                  |           |  |  |
| 8   | GCV of Coal/ Lignite                                | kCal/ kg                                   |           |                  |           |  |  |
| 9   | Quantity of Coal/ Lignite (Fired)                   | MT   |           |                  |           |  |  |
| 10  | Specific Coal Consumption (Fired)                   | kg/ kWh                                    |           |                  |           |  |  |
|     | Transit Loss  | MT   |           |                  |           |  |  |
| 12  | Transit Loss  | %  |           |                  |           |  |  |
| 13  | Gross Quantity of Coal (Purchased)                  | MT   |           |                  |           |  |  |
|     | Rate of Coal/ Lignite                               | Rs/ Ton                                    |           |                  |           |  |  |
|     | Cost of Coal/ Lignite                               | Rs Cr.                                     |           |                  |           |  |  |
|     | -   |  |           |                  |           |  |  |
|     | Primary Fuel Consumption (Gas/ LNG/ Liquid)         |  |           |                  |           |  |  |
| 16  | GCV of Gas/ LNG/ Liquid Fuel                        | kCal/ SCM                                  | 9388.83   | 9419.27          | 9419.27   |  |  |
| 17  | Quantity of Gas/ LNG/ Liquid Fuel                   | MMSCM                                      | 130.96    | 125.31           | 144.64    |  |  |
| 18  | Specific Fuel Consumption                           | SCM/ kWh                                   | 0.36      | 0.32             | 0.34      |  |  |
| 19  | Rate of Gas/ LNG/ Liquid Fuel                       | Rs/ SCM                                    | 8.26      | 5.78             | 4.92      |  |  |
| 20  | Cost of Gas/ LNG/ Liquid Fuel                       | Rs Cr.                                     | 108.21    | 71.29            | 71.21     |  |  |
|     |   |  |           |                  |           |  |  |
|     | Secondary Fuel Oil Consumption                      |  |           |                  |           |  |  |
| 21  | GCV of Secondary Fuel Oil                           | kCal/ kL                                   |           |                  |           |  |  |
| 22  | Quantity of Secondary Fuel Oil                      | kL   |           |                  |           |  |  |
| 23  | Specific Secondary Fuel Oil Consumption             | ml/ kWh                                    |           |                  |           |  |  |
| 24  | Rate of Secondary Fuel Oil                          | Rs/ kL                                     |           |                  |           |  |  |
| 25  | Cost of Secondary Fuel Oil                          | Rs Cr.                                     |           |                  |           |  |  |
|     |   |  |           |                  |           |  |  |
|     | Primary Fuel Cost (Coal/ Lignite)                   | Rs Cr.                                     |           |                  |           |  |  |
|     | Primary Fuel Cost (Gas/ LNG/ Liquid)                | Rs Cr.                                     | 108.21    | 71.29            | 71.21     |  |  |
|     | Secondary Fuel Cost                                 | Rs Cr.                                     |           |                  |           |  |  |
|     |   |  |           |                  |           |  |  |
| С   | Variable Charges (Energy Charges)                   |  |           |                  |           |  |  |
|     | Energy Charges from Primary Fuel (Coal/ Lignite)    | Rs/ kWh                                    |           |                  |           |  |  |
|     | Energy Charges from Primary Fuel (Gas/ LNG/ Liquid) | Rs/ kWh                                    | 2.99      | 1.80             | 1.67      |  |  |

|   | Abstract of admitted Capital Cost for the existing P   | Form No: F5 |         |
|---|--|-------------|---------|
|   | Particulars  | Unit        | Details |
|   | Last date of order of Commission for the project as on 31.03.2018  |             |         |
| 1 | Capital Cost as admitted by AERC   | Rs Cr.      | 477.5°  |
| 2 | Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)  | Rs Cr.      | 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 Cr.      | NIL     |
| 4 | Gross Normative Debt   | Rs Cr.      | 268.9   |
| 5 | Cumulative Repayment   | Rs Cr.      | 281.4   |
| 6 | Net Normative Debt   | Rs Cr.      | -12.4   |
| 7 | Normative Equity   | Rs Cr.      | 143.0   |
| 8 | Cumulative Depreciation  | Rs Cr.      | 281.4   |
| 9 | Freehold land  | Rs Cr.      | NIL     |

# ASSAM POWER GENERATION CORPORATION LIMITED LAKWA THERMAL POWER STATION

| Statement showing claimed capital cost            |        | Form No: | F5a     |         |
|---|--------|----------|---------|---------|
| Particulars                                       | Unit   | 2019-20  | 2020-21 | 2021-22 |
| 1 Opening Capital Cost                            | Rs Cr. | 482.53   | 485.91  | 492.76  |
| 2 Add: Addition during the year / period          | Rs Cr. | 3.38     | 6.85    | 7.16    |
| 3 Less: Decapitalisation during the year / period | Rs Cr. | 0        | 0       | 0       |
| 4 Less: Reversal during the year / period         | Rs Cr. | 0.00     | 0       | 0       |
| 5 Add: Discharges during the year / period        | Rs Cr. | 0        | 0       | 0       |
| 6 Closing Capital Cost                            | Rs Cr. | 485.91   | 492.76  | 499.91  |
| 7 Average Capital Cost                            | Rs Cr. | 484.22   | 489.33  | 496.34  |

#### ASSAM POWER GENERATION CORPORATION LIMITED **LAKWA THERMAL POWER STATION**

| Details o  | f Project Specifi | c Loans  |           |           | Form No:  | F13       |
|--|-------------------|----------|-----------|-----------|-----------|-----------|
|  |                   |          |           |           |           | Rs Cr.    |
| Particulars  | LTPS              | LTPS     | Package 3 | Package 4 | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>  | I GOA -Loans      | PFC Loan |           |           |           |           |
| Currency <sup>2</sup>  | INR               |          |           |           |           |           |
| Amount of Loan sanctioned (Opeing Balance)                               | 213.15            | 57.65    |           |           |           |           |
| Amount of Gross Loan drawn upto 31.03.2016<br>COD <sup>3,4,5,13,15</sup> |                   |          |           |           |           |           |
| ( Closing Balance)   | 224.44            | 44.30    |           |           |           |           |
| Interest Type <sup>6</sup>   | FIXED             | Floating |           |           |           |           |
| Fixed Interest Rate, if applicable                                       | 10%               | 12.0%    |           |           |           |           |
| Base Rate, if Floating Interest <sup>7</sup>                             |                   |          |           |           |           |           |
| Margin, if Floating Interest <sup>8</sup>                                | Yes/No            | Yes/No   | Yes/No    | Yes/No    | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>                                    |                   |          |           |           |           |           |
| If above is yes,specify caps/floor                                       |                   |          |           |           |           |           |
| Moratorium Period <sup>10</sup>  |                   |          |           |           |           |           |
| Moratorium effective from  |                   |          |           |           |           |           |
| Repayment Period <sup>11</sup>   |                   |          |           |           |           |           |
| Repayment effective from   |                   |          |           |           |           |           |
| Repayment Frequency <sup>12</sup>  |                   |          |           |           |           |           |
| Repayment Instalment <sup>13,14</sup>                                    |                   |          |           |           |           |           |
| Base Exchange Rate <sup>16</sup>   |                   |          |           |           |           |           |
| Are foreign currency loan hedged?  |                   |          |           |           |           |           |
| If above is yes,specify details 17                                       |                   |          |           |           |           |           |

#### Note:

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.

<sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished <sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

|   | 2019-20 | 2020-21   | 2021-  |
|---|---------|-----------|--|
| Particulars –                                     | Actual  | Estimated | Projec   |
| Loan-1 from PFCL                                  |         |           |  |
| Gross Ioan - Opening                              |         |           |  |
| Cumulative repayments of Loans upto previous year |         |           |  |
| Net loan - Opening                                | 387.03  | 364.92    | 321.5  |
| Add: Drawal(s) during the Year                    | 21.28   | 0.00      | 0.00   |
| Less: Repayment (s) of Loans during the year      | 43.39   | 43.39     | 41.3   |
| Net loan - Closing                                | 364.92  | 321.53    | 280.2  |
| Average Net Loan                                  | 375.97  | 343.23    | 300.8  |
| Rate of Interest on Loan on annual basis          | 11.54%  | 11.21%    | 11.19  |
| Interest on loan                                  | 44.68   | 40.91     | 35.9   |
| Loan-2 Govt. of Assam                             |         |           | <del>                                     </del> |
| Gross loan - Opening                              |         | †         |  |
| Cumulative repayments of Loans upto previous year |         | 1         | 1  |
| Net loan - Opening                                | 239.80  | 271.48    | 318.4  |
| Add: Drawal(s) during the Year                    | 9.98    | 25.29     | 11.1   |
| Less: Repayment (s) of Loans during the year      | -21.69  | -21.69    | -21.6  |
| Net loan - Closing                                | 271.48  | 318.46    | 351.2  |
| Average Net Loan                                  | 255.64  | 294.97    | 334.8  |
| Rate of Interest on Loan on annual basis          | 7.61%   | 8.73%     | 8.82   |
| Interest on loan                                  | 18.25   | 23.71     | 28.0   |
| Total Loan  |         |           |  |
| Gross Ioan - Opening                              |         | †         | †  |
| Cumulative repayments of Loans upto previous year |         |           | <del>                                     </del> |
| Net loan - Opening                                | 626.83  | 636.40    | 639.9  |
| Add: Drawal(s) during the Year                    | 31.26   | 25.29     | 11.1   |
| Less: Repayment (s) of Loans during the year      | 21.69   | 21.69     | 19.6   |
| Net loan - Closing                                | 636.40  | 639.99    | 631.4  |
| Average Net Loan                                  | 631.61  | 638.19    | 635.   |
| Interest on loan                                  | 62.93   | 64.62     | 64.0   |
| Weighted average Rate of Interest on Loans        | 10.04%  | 10.15%    | 10.01  |

<sup>1.</sup> 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.

2. As per the Regulation 35.5, the weighted average rate of interest has to be calculatedon the basis of the actual loan portfolio at the beginning of each year. Hence the weighted average rate of interest has

3. the above actual loan portfolio is shwon as for APGCL as a whole, as the same is to be used for calclat

| Name    | e of Company:  | I POWER GEN    | IERATION COI   | RPORATION L    |
|---------|--|----------------|----------------|----------------|
|         | • •  |                | RMAL POW       |                |
|         |  |                |                |                |
|         | Calculation of Interest on Normative L                   | oan            | Form No:       | F14b           |
|         |  |                |                | Rs Cr.         |
| S. No.  | Particulars  | 2019-20        | 2020-21        | 2021-22        |
| 0. 140  | i articulars   | Actual         | Estimated      | Projected      |
|         |  |                |                |                |
| 1       | Gross Normative Ioan – Opening                           |                |                |                |
|         | Cumulative repayment of Normative loan                   |                |                |                |
| 2       | upto previous year                                       |                |                |                |
| 3       | Net Normative Ioan – Opening                             | 0.00           | 0.00           | 0.00           |
|         | Add: Increase due to addition during the                 | 3.38           | 7.37           | 7.10           |
| 4       | year / period  | 3.30           | 7.57           | 7.10           |
|         | Less: Decrease due to de-capitalisation                  | 0.00           |                |                |
| 5       | during the year / period                                 | 0.00           |                |                |
|         |  |                |                |                |
| _       | Less: Decrease due to reversal/repayment                 | 11.15          | 11.26          | 11.32          |
| 6       | during the year / period                                 |                |                |                |
|         | Add: Increase due to discharges during the               |                |                |                |
| 7       | year / period  | 0.00           | 0.00           | 0.00           |
| 8       | Net Normative loan - Closing                             | 0.00           | 0.00           | 0.00           |
| 9<br>10 | Average Normative loan Weighted average rate of interest | 0.00           | 0.00           | 0.00           |
| 11      | Interest on Loan   | 10.04%<br>0.00 | 10.15%<br>0.00 | 10.01%<br>0.00 |
| 12      |  | 0.00           |                | 0.00           |
| 13      | Bank charges Interest on Loan plus bank charges          |                | 0.00           |                |
| 13      | interest on Loan plus bank charges                       | 0.03           | 0.00           | 0.00           |

| Do   | etails of Allocation of | corporate loans to various projects |                       |             | Form No:          | F15       |
|--|-------------------------|-------------------------------------|-----------------------|-------------|-------------------|-----------|
|  |                         |                                     |                       |             |                   | Rs Cr.    |
| Particulars  | Rural electrification   | Non-Conventional source of energy   | Development of Amguri | LTPS(R&M)   | Station heat Rate | Package 6 |
| Source of Loan <sup>1</sup>  | I GOA -Loans            | I GOA -Loans                        | I GOA -Loans          | I PFC Loans | I GOA -Loans      |           |
| Currency <sup>2</sup>  | INR                     | INR                                 | INR                   | INR         | INR               |           |
| Amount of Loan sanctioned (Opening Balance)  | 0.10                    | 0.40                                | 0.50                  | 57.65       | 154.79            |           |
| Amount of Gross Loan drawn upto 31.03.2016/<br>COD <sup>3,4,5,13,15</sup><br>(Closing Balance) | 0.10                    | 0.40                                | 0.50                  | 44.30       | 154.79            |           |
| Interest Type <sup>6</sup>   | Fixed                   | Fixed                               | Fixed                 | Fixed       | Fixed             |           |
| Fixed Interest Rate, if applicable   | 10%                     | 10%                                 | 10%                   | 11.99%      | 10%               |           |
| Base Rate, if Floating Interest <sup>7</sup>   |                         |                                     |                       |             |                   |           |
| Margin, if Floating Interest <sup>8</sup>  | Yes/No                  | Yes/No                              | Yes/No                | Yes/No      | Yes/No            | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>  |                         |                                     |                       |             |                   |           |
| If above is yes,specify caps/floor   |                         |                                     |                       |             |                   |           |
| Moratorium Period <sup>10</sup>  |                         |                                     |                       |             |                   |           |
| Moratorium effective from  |                         |                                     |                       |             |                   |           |
| Repayment Period <sup>11</sup>   |                         |                                     |                       |             |                   |           |
| Repayment effective from   |                         |                                     |                       |             |                   |           |
| Repayment Frequency <sup>12</sup>  |                         |                                     |                       |             |                   |           |
| Repayment Instalment <sup>13,14</sup>  |                         |                                     |                       |             |                   |           |
| Base Exchange Rate <sup>16</sup>   |                         |                                     |                       |             |                   |           |
| 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:

- <sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- <sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.
- <sup>3</sup> 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.
- <sup>5</sup> 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.
- <sup>6</sup> Interest type means whether the interest is fixed or floating.
- <sup>7</sup> 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.
- <sup>8</sup> Margin means the points over and above the floating rate.
- <sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- <sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.
- <sup>11</sup> 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.
- 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 furnished seperately.
- <sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.
- <sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.
- <sup>17</sup> 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.
- <sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.
- <sup>20</sup> 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: OWER GENERATION CORPORATION
Name of Plant/ Station: KWA THERMAL POWER STATION

#### **Statement of Additional Capitalisation after COD** Form No: F16 Rs Cr. Regulations under Admitted Cost by No **Head of Work/ Equipment** Justification which claimed **Commission if any** 2021-22 2019-20 2020-21 1 Land 2 Building 0.04 2.00 Hydraulic works 0.44 4 Other civil works 0.63 2.75 5 Plant & machinery- Gas 5.85 4.37 6 Plant & machinery- Hydel 7 Lines & cables 8 Vehicle --9 Furniture 0.14 10 Other office equipment 0.05 0.33 0.35 11 Roads on land belonging to others Capital spares at Generating Station 12 0.44 7.16 3.38 6.85

#### 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.
- 3 Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the

Name of Company: ASSAM POWER GENERATION CORPORATION LIMITED LAKWA THERMAL POWER STATION

|    | Details of Asso       | ets De-capitalized during the  | Form No:                                      | F16a            |   |
|----|-----------------------|--|---|-----------------|---|
|    |                       |  |   |                 | Rs Cr.  |
| No | Name of the Asset     | Nature of de-capitlization<br>(whether claimed under<br>exclusion or as additional<br>capital expenditure) | Original Value of<br>the Asset<br>Capitalised | Year Put to use | Depreciation recovered till date of de-capitalization |
|    | FY 2018-19            |  |   |                 |   |
| 1  | Building              |  |   |                 | 0.00  |
| 2  | Plant & machinery- Ga | as   |   |                 | 0.00  |
|    |                       |  |   |                 |   |
|    |                       |  |   |                 |   |
|    |                       |  |   |                 |   |
|    |                       |  |   |                 |   |
|    |                       |  |   |                 |   |

Note: Year wise detail need to be submitted

POWER GENERATION CORPORATION I

KWA THERMAL POWER STATIC

**Date of Commercial Operation:** 

**Financing of Additional Capitalisation** 

| Financial Year (Starting from COD)    | 2019-20 | 2020-21 | 2021-22 |
|---------------------------------------|---------|---------|---------|
| Amount capitalised in Work/ Equipment |         |         |         |
|                                       |         |         |         |
| Financing Details                     |         |         |         |
| GOA Loan                              | 3.38    | 7.37    | 7.10    |
| Loan-2                                |         |         |         |
| Total Loan <sup>2</sup>               | 3.38    | 7.37    | 7.10    |
| Grant                                 | 0.00    | 4.64    | 3.49    |
| Equity                                | 0.00    | 0.00    | 0.00    |
| Internal Resources                    |         |         |         |
| Others                                |         |         |         |
| Total                                 | 3.38    | 12.00   | 10.59   |

<sup>&</sup>lt;sup>1</sup> Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.

<sup>&</sup>lt;sup>2</sup> Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevent.

| Nam | e of Company:                                   | ASSAM POWER GENERATION CORPORATION LIMITE |                  |                  |  |  |
|-----|---|---|------------------|------------------|--|--|
| Nam | e of Plant/ Station:                            | LAKWA T                                   | HERMAL POWER     | STATION          |  |  |
|     | R&M Expenses                                    |   | Form No:         | F20              |  |  |
|     | · ·   |   |                  | Rs Cr.           |  |  |
|     | Particulars                                     | 2019-20                                   | 2020-21          | 2021-22          |  |  |
|     | Particulars                                     | Actual                                    | Estimated        | Projected        |  |  |
| 1   | Plant and Machinery                             | 4.39                                      |                  |                  |  |  |
| 2   | Building  | 0.64                                      |                  |                  |  |  |
| 3   | Civil Works                                     | 0.14                                      |                  |                  |  |  |
| 4   | Hydraulic Works                                 | 0.09                                      |                  |                  |  |  |
| 5   | Lines, Cables Net Works etc.                    | -   |                  |                  |  |  |
| 6   | Vehicles  | 0.00                                      | Consolidated O&M |                  |  |  |
| 7   | Furniture and Fixtures                          | 0.03                                      | approved for the | approved for the |  |  |
| 8   | Office Equipments                               | 0.04                                      | year             | year             |  |  |
| 9   | Station Supplies                                | -   |                  |                  |  |  |
| 10  | Lubricants & Consumable stores                  | 3.64                                      |                  |                  |  |  |
| 11  | Oil/Turbine Oil consumed in internal combustion | -   |                  |                  |  |  |
| 12  | Any other items (Spl R&M)                       | -   |                  |                  |  |  |
|     | Total   | 8.96                                      |                  |                  |  |  |

| Name of Company:        | AM POWER GENERATION CORPORATION LIM |
|-------------------------|-------------------------------------|
| Name of Plant/ Station: | LAKWA THERMAL POWER STATION         |

|    | Employee Expenses                                 |         | Form No:     | F21          |
|----|---|---------|--------------|--------------|
|    |   |         |              | Rs Cr.       |
|    | Particulars                                       | 2019-20 | 2020-21      | 2021-22      |
|    | Faiticulais                                       | Actual  | Estimated    | Projected    |
| 1  | Salaries  | 16.83   |              |              |
| 2  | Additional Pay                                    | -       |              |              |
| 3  | Dearness Allowance (DA)                           | 2.07    |              |              |
| 4  | Other Allowances & Relief                         | 1.93    |              |              |
| 5  | Addl. Pay & C.Off Encashment                      | -       |              |              |
| 6  | Interim Relief / Wage Revision                    | -       |              |              |
| 7  | Overtime  | 0.55    |              |              |
| 8  | Bonus   | 0.01    |              |              |
| 9  | Medical Expenses Reimbursement                    | 0.02    |              |              |
| 10 | Travelling Allowance(Conveyance Allowance)        | -       |              |              |
| 11 | Leave Travel Assistance                           | 0.00    | Consolidated | Consolidated |
| 12 | Earned Leave Encashment                           | 2.60    | O&M          | O&M          |
| 13 | Payment Under Workman's Compensation And Gratuity | -       | approved for | approved for |
| 14 | Subsidised Electricity To Employees               | -       | the year     | the year     |
| 15 | Any Other Item                                    | -       |              |              |
| 16 | Staff Welfare Expenses                            | 0.12    |              |              |
| 17 | Capacity Building Expenses                        | -       |              |              |
| 18 | Apprentice And Other Training Expenses            | -       |              |              |
| 19 | Contribution To Terminal Benefits                 | 4.40    |              |              |
| 20 | Provident Fund Contribution                       | -       |              |              |
| 21 | Provision for PF Fund                             | -       |              |              |
| 22 | Any Other Items(Revision of Pay @ 24% of Salary)  | 0.00    |              |              |
|    | Total Employee Costs                              | 28.54   |              |              |
| 23 | Less: Employee expenses capitalised               | 0.00    |              |              |
|    | Net Employee expenses (D)-(E)                     | 28.54   |              |              |

| Name of Company:  | M POWER GEI | NERATION COR          |                       |
|---|-------------|-----------------------|-----------------------|
| tuillo of Fidino outlion  |             |                       |                       |
| Administration & General Expenses                               |             | Form No:              | F22                   |
| · ·   |             |                       | Rs Cr.                |
|   | 2019-20     | 2020-21               | 2021-22               |
| Particulars   | Actual      | Estimated             | Projected             |
| 1 Lease/ Rent   | 0.57        |                       | ,                     |
| 2 Insurance   | 0.72        |                       |                       |
| 3 Revenue Stamp Expenses Account                                | -           |                       |                       |
| 4 Telephone, Postage, Telegram & Telex Charges                  | 0.05        |                       |                       |
| 5 Incentive & Award To Employees/Outsiders                      | -           |                       |                       |
| 6 Consultancy Charges   | 0.66        |                       |                       |
| 7 Technical Fees  | -           |                       |                       |
| 8 Other Professional Charges                                    | 0.03        |                       |                       |
| 9 Conveyance And Travelling                                     | 0.24        |                       |                       |
| 10 License and Registration Fees                                | -           |                       |                       |
| 11 Vehicle Expenses   | 0.82        |                       |                       |
| 12 Security / Service Charges Paid To Outside Agencies          | -           |                       |                       |
| 13 Fee And Subscriptions Books And Periodicals                  | 0.05        |                       |                       |
| 14 Fees Paid to AERC  | 0.32        |                       |                       |
| 15 Printing And Stationery                                      | 0.04        |                       |                       |
| 16 Advertisement Expenses                                       | 0.08        |                       |                       |
| 17 Contributions/Donations To Outside Institutes / Associations | 0.06        | Consolidated          | Consolidate           |
| 18 Electricity Charges To Offices                               | 0.00        | O&M                   | O&M                   |
| 19 Water Charges  | 0.00        | approved for the year | approved for the year |
| 20 Entertainment Charges  | 0.05        | uie yeai              | li le year            |
| 21 Miscellaneous Expenses                                       | 0.20        |                       |                       |
| 22 Legal Charges  | 0.05        |                       |                       |
| 23 Auditor's Fee  | 0.05        |                       |                       |
| 24 Freight On Capital Equipments                                | -           |                       |                       |
| 25 Purchase Related Advertisement Expenses                      | -           |                       |                       |
| 26 Vehicle Running Expenses Truck / Delivery Van                | -           |                       |                       |
| Vehicle Hiring Expenses Truck / Delivery Van                    | -           |                       |                       |
| 28 Other Freight  | -           | 1                     |                       |
| 29 Transit Insurance  | -           | 1                     |                       |
| 30 Octroi   | -           |                       |                       |
| 31 Incidental Stores Expenses                                   | 0.00        | 1                     |                       |
| 32 Fabrication Charges  | -           | 1                     |                       |
| 33 CSR  | 0.04        |                       |                       |
| Total A&G Expenes   | 4.02        | 1                     |                       |
| 32 Less: A&G Expenses Capitalised                               | 0.00        | 1                     |                       |
| Total A&G Expenes   | 4.02        |                       |                       |

## CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### **LAKWA THERMAL POWER STATION**

|                          |   |                      |        |                    |       |  |            |           |       | Form No:          | 23              |        |
|--------------------------|---|----------------------|--------|--------------------|-------|--|------------|-----------|-------|-------------------|-----------------|--------|
|                          |   |                      |        |                    |       |  | F'         | Y 2019-20 |       |                   |                 |        |
| Group of Asset           | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | '      | Opening balance or |       | Opening balance Adjustment as on 01/04/2017 Addition dur |            | -         |       | during the<br>ear | Closing balance |        |
|                          |   | le asset             | Asset  | Depr               | Asset | Depr   | Asset      | Depr      | Asset | Depr              | Asset           | Depr   |
| LTPS                     |   |                      |        | •                  | -     | •  |            | •         |       | •                 |                 |        |
| Group of Asset           | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab |        |                    | on 01 | tment as<br>//04/2016                                    | Addition o | ear       |       | during the<br>ear | Closing balance |        |
|                          |   | le asset             | Asset  | Depr               | Asset | Depr   | Asset      | Depr      | Asset | Depr              | Asset           | Depr   |
| Land                     | 0.00%                                       |                      | 4.75   | -                  | -     | -  | -          | -         | -     | -                 | 4.75            | -      |
| Building                 | 3.34%                                       |                      | 33.58  | 12.89              | -     | -  | -          | 0.69      | -     | -                 | 33.58           | 13.58  |
| Hydraulic works          | 5.28%                                       |                      | -      | -                  | -     | -  | -          | -         | -     | -                 | -               | -      |
| Other civil works        | 3.34%                                       | 29.45                | 42.75  | 9.02               | -     | -  | 0.44       | 1.20      | -     | -                 | 43.19           | 10.22  |
| Plant & machinery- Gas   | 5.28%                                       |                      | 272.56 | 162.18             | -     | -  | 2.75       | 9.47      | -     | -                 | 275.32          | 171.65 |
| Plant & machinery- Hydel | 5.28%                                       |                      | -      | -                  | -     | -  | -          | -         | -     | -                 | -               | -      |
| Lines & cables           | 5.28%                                       | 5.21                 | 9.29   | 3.15               | -     | -  | -          | 0.31      | -     | -                 | 9.29            | 3.45   |
| Vehicle                  | 9.50%                                       | 0.00                 | 0.24   | 0.22               | -     | -  | -          | -         | -     | -                 | 0.24            | 0.22   |
| Furniture                | 6.33%                                       |                      | 0.46   | 0.38               | -     | -  | 0.14       | 0.02      | -     | -                 | 0.60            | 0.40   |
| Other office equipment   | 6.33%                                       | 0.16                 | 0.33   | 0.13               | -     | -  | 0.05       | 0.02      | -     | -                 | 0.37            | 0.15   |
| Roads on land belonging  |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| to others                | 3.34%                                       | -                    | -      | -                  | -     | -  | -          | -         | -     | -                 | -               | -      |
| Capital spares at        |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| Generating Stations      | 5.28%                                       |                      | 118.57 | 103.43             | -     | -  | -          | 1.19      | -     | -                 | 118.57          | 104.62 |
|                          |   | 143.35               | 482.53 | 291.39             | -     | -  | 3.38       | 12.89     | -     | -                 | 485.91          | 304.29 |
| Less: Depreciation on    |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| Grant                    |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| Total Grant in Capital   |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| Asset                    |   |                      |        |                    |       |  |            | 65.50     |       |                   |                 |        |
| Rate of Depreciation     |   |                      |        |                    |       |  |            | 0.03      |       |                   |                 |        |
| Depreciation on 90% of   |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| the Assets funded by     |   |                      |        |                    |       |  |            |           |       |                   |                 |        |
| Grants/subsidies         |   |                      |        |                    |       |  |            | 1.74      |       |                   |                 |        |
| Net Depeciation          |   |                      |        |                    |       |  |            | 11.15     |       |                   |                 |        |

## CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### **LAKWA THERMAL POWER STATION**

|                           |   |                      |         |                   |       |                             |       |                          |       |                          | Form No:        | 23      |
|---------------------------|---|----------------------|---------|-------------------|-------|-----------------------------|-------|--------------------------|-------|--------------------------|-----------------|---------|
|                           |   |                      |         |                   |       |                             | FY 20 | 20-21                    |       |                          |                 |         |
| Group of Asset            | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab |         | Opening balance   |       | Adjustment as on 01/04/2018 |       | Addition during the year |       | Deletion during the year |                 | balance |
|                           |   | le asset             | Asset   | Depr              | Asset | Depr                        | Asset | Depr                     | Asset | Depr                     | Asset           | Depr    |
| LTPS                      |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Group of Asset            | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | Opening | Opening balance A |       | ent as on<br>4/2016         |       | during the<br>ear        | y ·   | during the<br>ear        | Closing balance |         |
|                           |   | le asset             | Asset   | Depr              | Asset | Depr                        | Asset | Depr                     | Asset | Depr                     | Asset           | Depr    |
| Land                      | 0.00%                                       | 4.75                 | 4.75    | -                 | -     | -                           | -     | -                        | -     | -                        | 4.75            | -       |
| Building                  | 3.34%                                       | 16.64                | 33.58   | 13.58             | -     | -                           | 0.04  | 0.69                     | -     | -                        | 33.62           | 14.27   |
| Hydraulic works           | 5.28%                                       | -                    | -       | -                 | -     | -                           | -     | -                        | -     | -                        | -               | -       |
| Other civil works         | 3.34%                                       | 28.65                | 43.19   | 10.22             | -     | -                           | 0.63  | 1.21                     | -     | -                        | 43.82           | 11.43   |
| Plant & machinery- Gas    | 5.28%                                       | 76.13                | 275.32  | 171.65            | -     | -                           | 5.85  | 9.63                     | -     | -                        | 281.16          | 181.28  |
| Plant & machinery- Hydel  | 5.28%                                       | -                    | -       | -                 | -     | -                           | -     | -                        | -     | -                        | -               | -       |
| Lines & cables            | 5.28%                                       | 4.91                 | 9.29    | 3.45              | -     | -                           | -     | 0.31                     | -     | -                        | 9.29            | 3.76    |
| Vehicle                   | 9.50%                                       | 0.00                 | 0.24    | 0.22              | -     | -                           | -     | -                        | -     | -                        | 0.24            | 0.22    |
| Furniture                 | 6.33%                                       | 0.14                 | 0.60    | 0.40              | -     | -                           | -     | 0.02                     | -     | -                        | 0.60            | 0.42    |
| Other office equipment    | 6.33%                                       | 0.18                 | 0.37    | 0.15              | -     | -                           | 0.33  | 0.03                     | -     | -                        | 0.70            | 0.18    |
| Roads on land belonging   |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| to others                 | 3.34%                                       | -                    | -       | -                 | -     | -                           | -     | -                        | -     | -                        | -               | -       |
| Capital spares at         |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Generating Stations       | 5.28%                                       | 2.09                 | 118.57  | 104.62            | -     | -                           | -     | 1.19                     | -     | -                        | 118.57          | 105.81  |
|                           |   | 133.50               | 485.91  | 304.29            | -     | -                           | 6.85  | 13.07                    | -     | -                        | 492.76          | 317.36  |
| Less: Depreciation on     |   |                      | -       | -                 |       | -                           | -     |                          |       | -                        |                 |         |
| Grant                     |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Total Grant in Capital    |   |                      |         |                   |       |                             |       |                          |       |                          |                 | _       |
| Asset 70.14               |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Rate of Depreciation 0.03 |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Depreciation on 90% of    |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| the Assets funded by      |   |                      |         |                   |       |                             |       |                          |       |                          |                 |         |
| Grants/subsidies          |   |                      |         |                   |       |                             |       | 1.81                     |       |                          |                 |         |
| Net Depeciation           |   |                      |         |                   |       |                             |       | 11.26                    |       |                          |                 |         |

## CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### **LAKWA THERMAL POWER STATION**

|                           |   |                      |         |                 |       |                     |       |                         |       |                   | Form No: | 23          |  |
|---------------------------|---|----------------------|---------|-----------------|-------|---------------------|-------|-------------------------|-------|-------------------|----------|-------------|--|
|                           |   |                      |         |                 |       |                     | FY20  | 21-22                   |       |                   |          |             |  |
| Group of Asset            | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab |         | Opening balance |       | e   '               |       | on during the year year |       | •                 | Closing  | g balance   |  |
|                           |   | le asset             | Asset   | Depr            | Asset | Depr                | Asset | Depr                    | Asset | Depr              | Asset    | Depr        |  |
| LTPS                      |   |                      |         |                 |       |                     | •     |                         |       |                   |          |             |  |
| Group of Asset            | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | Opening | j balance       | 01/04 | ent as on<br>4/2016 | ye    | during the<br>ear       |       | during the<br>ear | Closing  | balance     |  |
|                           |   | le asset             | Asset   | Depr            | Asset | Depr                | Asset | Depr                    | Asset | Depr              | Asset    | Depr        |  |
| Land                      | 0.00%                                       | 4.75                 | 4.75    | -               | -     | -                   | -     | -                       | -     | -                 | 4.75     | -           |  |
| Building                  | 3.34%                                       | 15.99                | 33.62   | 14.27           | -     | -                   | 2.00  | 0.72                    | -     | -                 | 35.62    | 14.99       |  |
| Hydraulic works           | 5.28%                                       | -                    | -       | -               | -     | -                   | -     | -                       | -     | -                 | -        | -           |  |
| Other civil works         | 3.34%                                       | 28.01                | 43.82   | 11.43           | -     | -                   | -     | 1.21                    | -     | -                 | 43.82    | 12.64       |  |
| Plant & machinery- Gas    | 5.28%                                       | 71.77                | 281.16  | 181.28          | -     | -                   | 4.37  | 9.74                    | -     | -                 | 285.53   | 191.02      |  |
| Plant & machinery- Hydel  | 5.28%                                       | -                    | -       | -               | -     | -                   | -     | -                       | -     | -                 | -        | -           |  |
| Lines & cables            | 5.28%                                       | 4.60                 | 9.29    | 3.76            | -     | -                   | -     | 0.31                    | -     | -                 | 9.29     | 4.06        |  |
| Vehicle                   | 9.50%                                       | 0.00                 | 0.24    | 0.22            | -     | -                   | -     | -                       | -     | -                 | 0.24     | 0.22        |  |
| Furniture                 | 6.33%                                       | 0.12                 | 0.60    | 0.42            | -     | -                   | -     | 0.02                    | -     | -                 | 0.60     | 0.45        |  |
| Other office equipment    | 6.33%                                       | 0.46                 | 0.70    | 0.18            | -     | -                   | 0.35  | 0.04                    | -     | -                 | 1.05     | 0.22        |  |
| Roads on land belonging   |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| to others                 | 3.34%                                       | -                    | -       | -               | -     | -                   | -     | -                       | -     | -                 | -        | -           |  |
| Capital spares at         |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Generating Stations       | 5.28%                                       | 0.90                 | 118.57  | 105.81          | -     | -                   | 0.44  | 1.20                    | -     | -                 | 119.01   | 107.01      |  |
|                           |   | 126.60               | 492.76  | 317.36          | -     | -                   | 7.16  | 13.24                   | -     | -                 | 499.91   | 330.60      |  |
| Less: Depreciation on     |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Grant                     |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Total Grant in Capital    |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Asset 73.63               |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Rate of Depreciation 0.03 |   |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
|                           | epreciation on 90% of                       |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| the Assets funded by      | e Assets funded by                          |                      |         |                 |       |                     |       |                         |       |                   |          |             |  |
| Grants/subsidies          |   |                      |         |                 |       |                     |       | 1.92                    |       |                   |          |             |  |
| Net Depeciation           |   |                      |         |                 |       |                     |       | 11.32                   |       |                   |          | <del></del> |  |

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|   |  |              |                     |                    |                 | 2019-20             |              |                    |
|---|--|--------------|---------------------|--------------------|-----------------|---------------------|--------------|--------------------|
|   | Loan Details                             | Loan         |                     |                    |                 | Actual              |              |                    |
|   | Loan Details                             | Tenure (yrs) | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest Due | Closing<br>Balance |
|   |  |              |                     |                    |                 |                     |              |                    |
| A | Secured Loans                            | 0            | 10.1%               | 2294               | 0               | -834                | 190          | 1460               |
|   | I PFC Loans                              | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | KLHEP                                    | 15           | 12.0%               | 5765               | 0               | -1335               | 611          | 4430               |
|   | NTPS(R&M)                                | 13           | 12.0%               | 30643              | 2128            | -2169               | 3667         | 30602              |
|   | LTPS(R&M)                                | 20           | 11.9%               | 38703              | 2128            | -4339               | 4468         | 36492              |
|   | NRPP                                     | 15           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | Sub-total                                |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   |  |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ |  |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| В | Unsecured Loans                          | 0            | 10.0%               | 10                 | 0               | 0                   | 1            | 10                 |
| _ | I GOA -Loans Rural electrification       | 0<br>10      | 10.0%<br>10.0%      | 1473<br>886        | 264<br>0        | 0                   | 147<br>89    | 1737<br>886        |
| _ | NRPP Ph-I                                | 10           | 10.0%               | 1975               | 0               | 0                   | 198          | 1975               |
| - | LWHRP                                    | 10           | 10.0%               | 4109               | 166             | 0                   | 411          | 4275               |
| _ | Lower Kopili HEP                         | 10           | 10.0%               | 2992               | 1129            | 0                   | 300          | 4121               |
|   | R&M NTPS                                 | 10           | 10.0%               | 153                | 0               | 0                   | 15           | 153                |
|   | R&M LTPS                                 | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | LRPP                                     | 10           | 10.0%               | 400                | 0               | 0                   | 40           | 400                |
| _ | 0  | 0            | 10.0%               | 1165               | 0               | 0                   | 117          | 1165               |
|   | Lungnit SHEP                             | 10           | 10.0%               | 1805               | 0               | 0                   | 181          | 1805               |
|   | Myntriang SHEP                           | 10           | 10.0%               | 100                | 0               | 0                   | 10           | 100                |
|   | LTPS, Ph-II                              | 10           | 10.0%               | 70                 | 0               | 0                   | 7            | 70                 |
|   | Development of SHEP                      | 10           | 10.0%               | 40                 | 0               | 0                   | 4            | 40                 |
|   | Survey & Investigation of HEP            | 10           | 10.0%               | 9601               | 1698            | 0                   | 972          | 11299              |
|   | Non-Conventional source of energy        | 10           | 10.0%               | 215                | 0               | 0                   | 22           | 215                |
| _ | KLHEP                                    | 10           | 10.0%               | 250                | 0               | 0                   | 25           | 250                |
| _ | KLHEP (upper)                            | 10<br>10     | 0.0%<br>10.0%       | 0<br>104           | 0               | 0                   | 0<br>10      | 0<br>104           |
| - | KLHEP (intermediate) 0                   | 0            | 10.0%               | 104                | 0               | 0                   | 2            | 104                |
|   | Dhansiri HEP                             | 10           | 10.0%               | 425                | 0               | 0                   | 43           | 425                |
|   | Setting up of a 200MW (CCGT)             | 10           | 10.0%               | 74                 | 0               | 0                   | 7            | 74                 |
| _ | Borgolai                                 | 10           | 10.0%               | 50                 | 0               | 0                   | 5            | 50                 |
| _ | Revival of TPS                           | 10           | 10.0%               | 37                 | 0               | 0                   | 4            | 37                 |
| _ | Development of Amguri                    | 10           | 10.0%               | 37                 | 0               | 0                   | 4            | 37                 |
|   | EAP consulting service                   | 10           | 10.0%               | 54                 | 0               | 0                   | 5            | 54                 |
|   | Golaghat                                 | 10           | 10.0%               | 31325              | 0               | 0                   | 3133         | 31325              |
|   | Boundary wall of Jagiroad                | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | Station heat Rate                        | 10           | 10.0%               | 404                | 0               | 0                   | 40           | 404                |
|   | 0  | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | Solar NTPS                               | 10           | 10.0%               | 0                  | 2               | 0                   | 0            | 2                  |
|   | 0  | 0            | 0.0%                | 57770              | 3260            | 0                   | 5789         | 61029              |
|   | Disaster                                 | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ | Sub-total                                | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ | 0<br>II GOA -Loans (Source ADB)          | 0            | 10.0%<br>10.0%      | 2317<br>39         | 126<br>7        | 0                   | 242<br>4     | 2444<br>46         |
| С | LRPP                                     | 0            | 10.0%               | 82<br>82           | 58              | 0                   | 12           | 140                |
| _ | ADB Consultancy                          | 0            | 0.0%                | 2439               | 191             | 0                   | 258          | 2630               |
| - | Lower Kopili HEP                         | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ | Sub-total                                | 0            | 0.0%                | 0                  | 0               | 0                   | 7            | 0                  |
| 5 | Other Interest & Finance Charges         | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ | Cost of raising Finance / Bank Charges   | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| _ | Interest on Security Deposit             | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | Penal Interest Charges                   | 0            | 0.0%                | 0                  | 0               | 0                   | 7            | 0                  |
| _ | Lease Rentals                            | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
|   | Sub-total                                | 0            | 0.0%                | 98911              | 5578            | -4339               | 10522        | 100151             |
| _ |  |              |                     |                    |                 |                     |              |                    |
|   | tal Of Interest & Finance Charges (A + E |              | 0.0%                | 98911              | 5578            | -4339               | 6329         | 100151             |
|   | ss: Interest & Finance Charges Capitalis |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |
| G | Total Of Interest & Finance Charges (E   | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |

| _ |  |              |                     |                    | Form No:        | 24                  |              |                    |  |  |  |  |
|---|--|--------------|---------------------|--------------------|-----------------|---------------------|--------------|--------------------|--|--|--|--|
| П |  |              | 2020-21             |                    |                 |                     |              |                    |  |  |  |  |
|   | Lean Dataile                             | Loan -       |                     |                    | Est             | timated             | 1            |                    |  |  |  |  |
|   | Loan Details                             | Tenure (yrs) | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest Due | Closing<br>Balance |  |  |  |  |
| П |  |              |                     |                    |                 |                     |              |                    |  |  |  |  |
| Α | Secured Loans                            | 0            | 10.1%               | 1460               | 0               | -834                | 105          | 626                |  |  |  |  |
| Ĥ | I PFC Loans                              | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H | KLHEP                                    | 15           | 12.0%               | 4430               | 0               | -1335               | 451          | 3095               |  |  |  |  |
| Н | NTPS(R&M)                                | 13           | 12.0%               | 30602              | 0               | -2169               | 3534         | 28433              |  |  |  |  |
| H | LTPS(R&M)                                | 20           | 0.0%                | 36492              | 0               | -4339               | 4091         | 32153              |  |  |  |  |
| H | NRPP                                     | 15           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H | Sub-total                                | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Н | oub total                                |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H |  |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| В | Unsecured Loans                          | 0            | 10.0%               | 10                 | 0               | 0                   | 1            | 10                 |  |  |  |  |
|   | I GOA -Loans                             | 0            | 10.0%               | 1737               | 0               | 0                   | 174          | 1737               |  |  |  |  |
| Ц | Rural electrification                    | 10           | 10.0%               | 886                | 0               | 0                   | 89           | 886                |  |  |  |  |
| Ц | NRPP Ph-I                                | 10           | 10.0%               | 1975               | 0               | 0                   | 198          | 1975               |  |  |  |  |
| Ц | LWHRP                                    | 10           | 10.0%               | 4275               | 147             | 0                   | 435          | 4423               |  |  |  |  |
| Н | Lower Kopili HEP<br>R&M NTPS             | 10<br>10     | 10.0%               | 4121<br>153        | 737<br>0        | 0                   | 449<br>15    | 4858<br>153        |  |  |  |  |
| Н | R&M NTPS<br>R&M LTPS                     | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 153                |  |  |  |  |
| Н | LRPP                                     | 10           | 10.0%               | 400                | 0               | 0                   | 40           | 400                |  |  |  |  |
| Н | 0  | 0            | 10.0%               | 1165               | 0               | 0                   | 117          | 1165               |  |  |  |  |
| Н | Lungnit SHEP                             | 10           | 10.0%               | 1805               | 0               | 0                   | 181          | 1805               |  |  |  |  |
| H | Myntriang SHEP                           | 10           | 10.0%               | 100                | 0               | 0                   | 10           | 100                |  |  |  |  |
| H | LTPS, Ph-II                              | 10           | 10.0%               | 70                 | 0               | 0                   | 7            | 70                 |  |  |  |  |
| П | Development of SHEP                      | 10           | 10.0%               | 40                 | 0               | 0                   | 4            | 40                 |  |  |  |  |
| П | Survey & Investigation of HEP            | 10           | 10.0%               | 11299              | 1645            | 0                   | 1212         | 12944              |  |  |  |  |
|   | Non-Conventional source of energy        | 10           | 10.0%               | 215                | 0               | 0                   | 22           | 215                |  |  |  |  |
|   | KLHEP                                    | 10           | 10.0%               | 250                | 0               | 0                   | 25           | 250                |  |  |  |  |
| Ц | KLHEP (upper)                            | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Ц | KLHEP (intermediate)                     | 10           | 10.0%               | 104                | 0               | 0                   | 10           | 104                |  |  |  |  |
| Ц | 0  | 0            | 10.0%               | 15                 | 0               | 0                   | 2            | 15                 |  |  |  |  |
| Н | Dhansiri HEP                             | 10           | 10.0%               | 425                | 0               | 0                   | 43           | 425                |  |  |  |  |
| Н | Setting up of a 200MW (CCGT)             | 10<br>10     | 10.0%               | 74                 | 0               | 0                   | 7            | 74                 |  |  |  |  |
| Н | Borgolai Revival of TPS                  | 10           | 10.0%<br>10.0%      | 50<br>37           | 0               | 0                   | 5<br>4       | 50<br>37           |  |  |  |  |
| Н | Development of Amguri                    | 10           | 10.0%               | 37                 | 0               | 0                   | 4            | 37                 |  |  |  |  |
| Н | EAP consulting service                   | 10           | 10.0%               | 54                 | 0               | 0                   | 5            | 54                 |  |  |  |  |
| H | Golaghat                                 | 10           | 10.0%               | 31325              | 0               | 0                   | 3133         | 31325              |  |  |  |  |
| H | Boundary wall of Jagiroad                | 10           | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| П | Station heat Rate                        | 10           | 10.0%               | 404                | 0               | 0                   | 40           | 404                |  |  |  |  |
| П | 0  | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
|   | Solar NTPS                               | 10           | 10.0%               | 2                  | 0               | 0                   | 0            | 2                  |  |  |  |  |
| П | 0  | 0            | 0.0%                | 61029              | 2529            | 0                   | 6229         | 63558              |  |  |  |  |
| Ц | Disaster                                 | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Ц | Sub-total                                | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Ц | 0  | 0            | 10.0%               | 2444               | 0               | 0                   | 244          | 2444               |  |  |  |  |
| С | II GOA -Loans (Source_ADB)               | 0            | 10.0%               | 46                 | 0               | 0                   | 5            | 46                 |  |  |  |  |
| Н | LRPP                                     | 0            | 10.0%               | 140                | 0               | 0                   | 14           | 140                |  |  |  |  |
| Н | ADB Consultancy Lower Kopili HEP         | 0            | 0.0%                | 2630<br>0          | 0               | 0                   | 263<br>0     | 2630<br>0          |  |  |  |  |
| Н | Sub-total                                | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Ь | Other Interest & Finance Charges         | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
|   | Cost of raising Finance / Bank Charges   |              | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H | Interest on Security Deposit             | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H | Penal Interest Charges                   | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| Н | Lease Rentals                            | 0            | 0.0%                | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
| H | Sub-total                                | 0            | 0.0%                | 100151             | 2529            | -4339               | 10583        | 98341              |  |  |  |  |
| H |  |              |                     | 1                  |                 | 1                   |              |                    |  |  |  |  |
| E | tal Of Interest & Finance Charges (A + I | 0            | 0                   | 100151             | 2529            | -4339               | 10583        | 98341              |  |  |  |  |
|   | ss: Interest & Finance Charges Capitalis |              | 0                   | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |
|   | Total Of Interest & Finance Charges (E   | 0            | 0                   | 0                  | 0               | 0                   | 0            | 0                  |  |  |  |  |

|          |  |              | Form No: 24    |             |             |           |              |                |  |  |  |
|----------|--|--------------|----------------|-------------|-------------|-----------|--------------|----------------|--|--|--|
|          |  |              |                |             |             | 21-22     |              |                |  |  |  |
|          |  | Loan         | Projected      |             |             |           |              |                |  |  |  |
|          | Loan Details   | Tenure (yrs) | Rate of        | Opening     | Amount      | Principal | . , , , ,    | Closing        |  |  |  |
|          |  |              | Interest       | Balance     | received    | repayme   | Interest Due | Balance        |  |  |  |
|          |  |              |                |             |             | 111       |              |                |  |  |  |
|          |  |              |                |             |             |           |              |                |  |  |  |
| Α        | Secured Loans  | 0            | 10.1%          | 626         | 0           | -626      | 32           | 0              |  |  |  |
| Т        | I PFC Loans  | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Т        | KLHEP  | 15           | 12.0%          | 3095        | 0           | -1335     | 291          | 1760           |  |  |  |
|          | NTPS(R&M)  | 13           | 12.0%          | 28433       | 0           | -2169     | 3274         | 26263          |  |  |  |
|          | LTPS(R&M)  | 20           | 0.0%           | 32153       | 0           | -4130     | 3597         | 28023          |  |  |  |
|          | NRPP   | 15           | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Н        | Sub-total  |              | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Н        | our total  |              | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
|          |  |              | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| В        | Unsecured Loans  | 0            | 10.0%          | 10          | 0           | 0         | 1            | 10             |  |  |  |
|          | I GOA -Loans   | 0            | 10.0%          | 1737        | 0           | 0         | 174          | 1737           |  |  |  |
|          | Rural electrification  | 10           | 10.0%          | 886         | 0           | 0         | 89           | 886            |  |  |  |
|          | NRPP Ph-I  | 10           | 10.0%          | 1975        | 0           | 0         | 198          | 1975           |  |  |  |
| L        | LWHRP  | 10           | 10.0%          | 4423        | 190         | 0         | 452          | 4612           |  |  |  |
| L        | Lower Kopili HEP   | 10           | 10.0%          | 4858        | 710         | 0         | 521          | 5568           |  |  |  |
| L        | R&M NTPS   | 10           | 10.0%          | 153         | 0           | 0         | 15           | 153            |  |  |  |
| L        | R&M LTPS   | 10           | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| L        | LRPP   | 10           | 10.0%          | 400         | 0           | 0         | 40           | 400            |  |  |  |
|          | 0  | 0            | 10.0%          | 1165        | 0           | 0         | 117          | 1165           |  |  |  |
| L        | Lungnit SHEP   | 10           | 10.0%          | 1805        | 0           | 0         | 181          | 1805           |  |  |  |
| _        | Myntriang SHEP   | 10           | 10.0%          | 100         | 0           | 0         | 10           | 100            |  |  |  |
| H        | LTPS, Ph-II  | 10<br>10     | 10.0%          | 70<br>40    | 0           | 0         | 7            | 70<br>40       |  |  |  |
| H        | Development of SHEP  | 10           | 10.0%<br>10.0% | 12944       | 210         | 0         | 1305         | 13154          |  |  |  |
| -        | Survey & Investigation of HEP  Non-Conventional source of energy | 10           | 10.0%          | 215         | 0           | 0         | 22           | 215            |  |  |  |
| -        | KLHEP  | 10           | 10.0%          | 250         | 0           | 0         | 25           | 250            |  |  |  |
| Н        | KLHEP (upper)  | 10           | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Н        | KLHEP (intermediate)   | 10           | 10.0%          | 104         | 0           | 0         | 10           | 104            |  |  |  |
| Н        | 0  | 0            | 10.0%          | 15          | 0           | 0         | 2            | 15             |  |  |  |
| _        | Dhansiri HEP   | 10           | 10.0%          | 425         | 0           | 0         | 43           | 425            |  |  |  |
| H        | Setting up of a 200MW (CCGT)                                     | 10           | 10.0%          | 74          | 0           | 0         | 7            | 74             |  |  |  |
| Т        | Borgolai   | 10           | 10.0%          | 50          | 0           | 0         | 5            | 50             |  |  |  |
|          | Revival of TPS   | 10           | 10.0%          | 37          | 0           | 0         | 4            | 37             |  |  |  |
|          | Development of Amguri  | 10           | 10.0%          | 37          | 0           | 0         | 4            | 37             |  |  |  |
|          | EAP consulting service   | 10           | 10.0%          | 54          | 0           | 0         | 5            | 54             |  |  |  |
|          | Golaghat   | 10           | 10.0%          | 31325       | 0           | 0         | 3133         | 31325          |  |  |  |
|          | Boundary wall of Jagiroad  | 10           | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
|          | Station heat Rate  | 10           | 10.0%          | 404         | 0           | 0         | 40           | 404            |  |  |  |
| Ĺ        | 0  | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| L        | Solar NTPS   | 10           | 10.0%          | 2           | 0           | 0         | 0            | 2              |  |  |  |
| L        | 0  | 0            | 0.0%           | 63558       | 1110        | 0         | 6411         | 64668          |  |  |  |
| L        | Disaster   | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| L        | Sub-total  | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| _        | 0  | 0            | 10.0%          | 2444<br>46  | 0           | 0         | 244          | 2444<br>46     |  |  |  |
| С        | II GOA -Loans (Source_ADB)                                       | 0            | 10.0%          |             | 0           |           | 5            | 46<br>140      |  |  |  |
| H        | LRPP   | 0            | 10.0%<br>0.0%  | 140<br>2630 | 0           | 0         | 14<br>263    | 2630           |  |  |  |
| H        | ADB Consultancy Lower Kopili HEP                                 | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| $\vdash$ | Sub-total  | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| D        | Other Interest & Finance Charges                                 | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| ۲        | Cost of raising Finance / Bank Charges                           |              | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Н        | Interest on Security Deposit                                     | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Т        | Penal Interest Charges   | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| H        | Lease Rentals  | 0            | 0.0%           | 0           | 0           | 0         | 0            | 0              |  |  |  |
| Н        | Sub-total  | 0            | 0.0%           | 98341       | 1110        | -4130     | 10272        | 95321          |  |  |  |
| Н        | 545 (514)  | T ,          | 0.070          |             | <del></del> | l         |              | 333 <u>2</u> 1 |  |  |  |
| F        | tal Of Interest & Finance Charges (A + I                         | 0            | 0              | 98341       | 1110        | -4130     | 10272        | 95321          |  |  |  |
|          | ss: Interest & Finance Charges Capitalis                         |              | 0              | 0           | 0           | 0         | 0            | 0              |  |  |  |
| F        |  |              |                |             |             |           |              |                |  |  |  |

|   | Loan Details  | Loan<br>Tenure (yrs) |
|---|---|----------------------|
|   |   |                      |
| L |   |                      |
| Α | Secured Loans   | 0                    |
| L | I PFC Loans   | 0                    |
| H | KLHEP   | 15                   |
| Н | NTPS(R&M)<br>LTPS(R&M)  | 13                   |
| H | NRPP  | 20                   |
| Н |   | 15                   |
| Н | Sub-total   |                      |
| Н |   |                      |
| В | Unsecured Loans   | 0                    |
|   | I GOA -Loans  | 0                    |
| Ш | Rural electrification   | 10                   |
| H | NRPP Ph-I<br>LWHRP  | 10                   |
| Н | Lower Kopili HEP  | 10<br>10             |
| Н | R&M NTPS  | 10                   |
| Н | R&M LTPS  | 10                   |
| Н | LRPP  | 10                   |
|   | 0   | 0                    |
|   | Lungnit SHEP  | 10                   |
|   | Myntriang SHEP  | 10                   |
|   | LTPS, Ph-II   | 10                   |
| Ш | Development of SHEP   | 10                   |
| L | Survey & Investigation of HEP   | 10                   |
| H | Non-Conventional source of energy                                       | 10                   |
| Н | KLHEP   | 10<br>10             |
| Н | KLHEP (upper) KLHEP (intermediate)                                      | 10                   |
| Н | 0   | 0                    |
| Н | Dhansiri HEP  | 10                   |
| П | Setting up of a 200MW (CCGT)  | 10                   |
|   | Borgolai  | 10                   |
|   | Revival of TPS  | 10                   |
|   | Development of Amguri   | 10                   |
|   | EAP consulting service  | 10                   |
| L | Golaghat  | 10                   |
| Н | Boundary wall of Jagiroad   | 10<br>10             |
| Н | Station heat Rate<br>0  | 0                    |
| Н | Solar NTPS  | 10                   |
| H | 0   | 0                    |
| H | Disaster  | 0                    |
| П | Sub-total   | 0                    |
| П | 0   | 0                    |
| С | II GOA -Loans (Source_ADB)  | 0                    |
| L | LRPP  | 0                    |
| L | ADB Consultancy   | 0                    |
| Н | Lower Kopili HEP  | 0                    |
| D | Sub-total Other Interest & Finance Charges                              | 0                    |
| ۲ | Other Interest & Finance Charges Cost of raising Finance / Bank Charges |                      |
| Н | Interest on Security Deposit  | 0                    |
| Н | Penal Interest Charges  | 0                    |
| П | Lease Rentals   | 0                    |
| Н | Sub-total   | 0                    |
| Н |   |                      |
| Е | tal Of Interest & Finance Charges (A + E                                | 0                    |
|   | ss: Interest & Finance Charges Capitalis                                |                      |
|   | Total Of Interest & Finance Charges (E                                  |                      |

| Name of Company:        | SSAM POWER GENERATION CORPORATION LIMITE |
|-------------------------|--|
| Name of Plant/ Station: | LAKWA THERMAL POWER STATION              |

|   | Return on Equ   | Return on Equity |                   |                      |                      |  |  |  |
|---|---|------------------|-------------------|----------------------|----------------------|--|--|--|
|   | Loan Details  | Unit             | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projected |  |  |  |
| 1 | Equity (Opening Balance)  | Rs Cr.           | 143.08            | 143.08               | 143.08               |  |  |  |
| 2 | Add: Increase due to discharges<br>during the year / period             | Rs Cr.           | 0                 | 0                    | 0                    |  |  |  |
| 3 | Less: Decrease due to de-<br>capitalisation during the year /<br>period | Rs Cr.           | 0                 | 0                    | 0                    |  |  |  |
| 4 | Less: Decrease due to reversal during the year / period                 | Rs Cr.           | 0                 | 0                    | 0                    |  |  |  |
| 5 | Equity (Closing Balance)  | Rs Cr.           | 143.08            | 143.08               | 143.08               |  |  |  |
| 6 | Average Equity  | Rs Cr.           | 143.08            | 143.08               | 143.08               |  |  |  |

15.5%

22.18

15.5%

15.16

15.5%

15.16

%

Rs Cr.

7 Rate of Return on Equity

8 Return on Equity

| Name of Company:        | ASSAM POWER GENERATION CORPORATION LIMITED |
|-------------------------|--|
| Name of Plant/ Station: | LAKWA THERMAL POWER STATION                |

|             | Working Capital Requireme                     | nts            |                   | Form No:          | F26          |
|-------------|---|----------------|-------------------|-------------------|--------------|
|             | Particulars                                   | Unit           | 2019-20           | 2020-21           | 2021-22      |
|             | Particulars                                   | Unit           | Actual            | Estimated         | Projected    |
| For Coa     | al Based Generating Stations                  |                |                   |                   |              |
| Cost of     | Coal for 1.5 months for pithead & 2           |                |                   |                   |              |
| 1 months    | for non-pit head generating station*          | Rs Cr.         |                   |                   |              |
| 2 Cost of   | Secondary Fuel Oil for 2 months*              | Rs Cr.         |                   |                   |              |
| 3 Mainten   | ance Spares @ 20% of O&M                      | Rs Cr.         |                   |                   |              |
| 4 O&M ex    | penses for 1 month                            | Rs Cr.         |                   |                   |              |
| Receiva     | bles equivalent to 2 months of capacity       |                |                   |                   |              |
| 5 and ene   | rgy charge^                                   | Rs Cr.         |                   |                   |              |
| Total W     | orking Capital Requirement                    | Rs Cr.         |                   |                   |              |
| Rate of     | Interest #                                    | %              |                   |                   |              |
| Interest    | on Normative Working Capital                  |                |                   |                   |              |
| Require     | ement   | Rs Cr.         |                   |                   |              |
| -           |   |                |                   |                   |              |
| For Ope     | en-cycle Gas Turbine/ Combined Cycle          |                |                   |                   |              |
|             | generating stations                           |                |                   |                   |              |
|             | penses for 1 month *                          | Rs Cr.         | 9.02              | 5.94              | 5.9          |
| 2 Liquid fu | uel stock for 15 days*                        | Rs Cr.         | 0.00              | 0.00              | 0.0          |
| <del></del> | ance spares @ 30% of O&M                      | Rs Cr.         | 11.61             | 11.18             | 11.88        |
|             | penses for 1 month                            | Rs Cr.         | 3.23              | 3.11              | 3.30         |
|             | bles equivalent to 2 months of capacity       | 1.00           | 5.25              | <b>U.</b>         |              |
|             | rgy charge^                                   | Rs Cr.         | 27.23             | 21.09             | 24.5         |
|             | orking Capital Requirement                    | Rs Cr.         | 51.09             | 41.31             | 45.6         |
|             | Interest #                                    | %              | 10.00%            | 10.0%             | 10.00%       |
|             | on Normative Working Capital                  |                |                   |                   |              |
| Require     | <u> </u>                                      | Rs Cr.         | 5.11              | 4.13              | 4.5          |
|             |   |                |                   |                   |              |
| For Hyd     | Iro Generating stations                       |                |                   |                   |              |
| 1 O&M ex    | penses for 1 month                            | Rs Cr.         |                   |                   |              |
|             | ance spares @ 15% of O&M                      | Rs Cr.         |                   |                   |              |
| Receiva     | bles equivalent to 2 months of annual         |                |                   |                   |              |
| 3 fixed ch  | arge  | Rs Cr.         |                   |                   |              |
| Total W     | orking Capital Requirement                    | Rs Cr.         |                   |                   |              |
| Rate of     | Interest #                                    | %              |                   |                   |              |
| Interest    | on Normative Working Capital                  |                |                   |                   |              |
| Require     | ement   | Rs Cr.         |                   |                   |              |
| * corres    | ponding to target availability                |                |                   |                   |              |
| ^ calcula   | ated on target availability                   |                |                   |                   |              |
| # shall h   | pe equal to theinterest rate equivalent to St | ate Bank of Ir | ndia base rate as | s on 1st April of | the respecti |

| ame of Company:   |                |                       |                                  |               |
|---|----------------|-----------------------|----------------------------------|---------------|
| ame of Plant/ Station:  |                |                       |                                  |               |
|   |                |                       |                                  |               |
| Detailed Information in respect of fuel for computation of Energ                        | y Charges      |                       | Form No:                         | F27           |
| Particulars   | Unit           | Preceeding 3rd Month* | Preceeding 2nd Month*            | Preceeding    |
| 1 Quantity of Coal/ Lignite supplied by Coal/ Lignite Company                           | MMT            |                       |                                  |               |
| 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 Cr.         |                       |                                  |               |
| 7 Adjustment (+/-) in amount charged made by Coal/Lignite Company                       | Rs Cr.         |                       |                                  |               |
| B Total amount Charged (6+7)  | Rs Cr.         |                       |                                  |               |
| 9 Transportation charges by rail/ship/road transport                                    | Rs Cr.         |                       |                                  |               |
| Adjustment (+/-) in amount charged made by Railways/Transport Company                   | Rs Cr.         |                       |                                  |               |
| 1 Demurrage Charges, if any   | Rs Cr.         | Coo price cho         | oto inlouded con                 | orataly (Cha  |
| 2 Cost of diesel in transporting coal through MGR system, if applicable                 | Rs Cr.         | Gas price sile        | ets inlcuded sep<br>: Gas Price) | erately (Shee |
| 3 Total Transportation Charges (9+/-10-11+12)   | Rs Cr.         |                       | . 645 ( 1166)                    |               |
| 4 Total amount Charged for coal/lignite supplied including Transportation (8+13)        | Rs Cr.         |                       |                                  |               |
| 5 Landed cost of coal/ Lignite  | Rs./MT         |                       |                                  |               |
| 6 Blending Ratio (Domestic/Imported)  |                |                       |                                  |               |
| 7 Weighted average cost of coal/ Lignite for preceding three months                     | Rs./MT         |                       |                                  |               |
| 8 GCV of Domestic Coal as per bill of Coal Company                                      |                |                       |                                  |               |
| 9 GCV of Imported Coal as per bill Coal Company   |                |                       |                                  |               |
| 0 Weighted average GCV of coal/ Lignite as Billed                                       | kCal/ kg       |                       |                                  |               |
| 1 GCV of Domestic Coal as received at Station   |                |                       |                                  |               |
| 2 GCV of Imported Coal as received at Station   |                |                       |                                  |               |
| 3 Weighted average GCV of coal/ Lignite as Received                                     | kCal/ kg       |                       |                                  |               |
| * From COD of 1/4/2016 as the case may be   |                |                       |                                  |               |
| •   |                | 1.6                   | haaad tharmaal r                 | . 1 4 .       |
| Similar details to be furnished for natural gas/liquid fuel for CCGT station and second | ondary fuel oi | i for coai/iignite    | pased thermal p                  | Diants        |

| Name o  | of Company:                            | M POWER GEI               | NERATION COF         | PORATION LIF |  |  |
|---------|--|---------------------------|----------------------|--------------|--|--|
| Name o  | of Plant/ Station:                     | LAKWA THERMAL POWER STATI |                      |              |  |  |
| Details | of Expenses Capitalised                |                           | Form No:             |              |  |  |
|         |  |                           |                      | (Rs Cr.)     |  |  |
|         |  | 2019-20                   | 2020-21<br>Estimated | 2021-22      |  |  |
|         |  | Actual                    | Estimated            | Projected    |  |  |
|         |  |                           |                      |              |  |  |
| 1       | Interest & Finance charges Capitalised | 0.00                      | 0.00                 | 0.00         |  |  |
| 2       | Employee expenses                      | 0.00                      | 0.00                 | 0.00         |  |  |
| 3       | A&G Expenses                           | 0.00                      | 0.00                 | 0.00         |  |  |
| 4       | Others, if any                         | 0.00                      | 0.00                 | 0.00         |  |  |
|         | Grand Total                            | 0.00                      | 0.00                 | 0.00         |  |  |

| Name  | of Company:   | POWER GE | NERATION CO | RPORATION I |  |  |
|-------|---|----------|-------------|-------------|--|--|
| Name  | Name of Plant/ Station:   |          | ERMAL PO    | WER STATIC  |  |  |
|       |   |          |             |             |  |  |
| Incon | ne Tax Provisions   |          | F           | orm No: F29 |  |  |
|       |   |          |             | (Rs Cr.)    |  |  |
|       |   | 2019-20  | 2020-21     | 2021-22     |  |  |
|       |   | Actual   | Estimated   | Projected   |  |  |
| 1     | Income Tax on the Retun on Equity   |          |             |             |  |  |
| 2     | As Per Return Filed For The Year  | 0.41     | 0.00        | 0.00        |  |  |
| 3     | As Assessed For The Year  |          |             |             |  |  |
| 4     | Credit/Debit Of Assessment Year(s) (Give Details)   |          |             |             |  |  |
|       | Total   | 0.41     | 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:                             | POWER GENE       | RATION COR | PORATION I  |
|---------|--------------------------------------|------------------|------------|-------------|
| Name of | Plant/ Station:                      | <b>AKWA THER</b> | MAL POW    | ER STATIC   |
|         |                                      |                  |            |             |
| Non-Tar | iff Income                           |                  | Fo         | orm No: F30 |
|         |                                      |                  |            | (Rs Cr.)    |
| S. No.  | Particulars                          | 2019-20          | 2020-21    | 2021-22     |
| 3. NO.  | Particulars                          | Actual           | Estimated  | Projected   |
|         |                                      |                  |            |             |
| Α       | Income from Investment, Fixed        |                  |            |             |
| _ ^     | & Call Deposits                      |                  |            |             |
|         | Income from Investments:             |                  |            |             |
|         | Interest on securities               |                  |            |             |
|         | Interest on fixed deposits           | 23.51            | 1          |             |
|         | Income on other investments          |                  |            |             |
|         | Interest from Banks                  | 0.01             |            |             |
|         | Interest on (any other items)        |                  |            |             |
|         | Sub-Total                            | 23.51            |            |             |
| В       | Other Non-Tariff Income              |                  | 1          |             |
|         | Interest on Loans and Advances       |                  | 1          |             |
|         | to staff                             |                  |            |             |
|         | Interest on Loans and Advances       |                  | 1          |             |
|         | to Licensee                          |                  |            |             |
|         | Interest on Loans and Advances       |                  | 1          |             |
|         | to Lessors                           |                  | 9 22       | 9 22        |
|         | Interest on Loans and Advances       |                  | 9.22       | 9.22        |
|         | to Suppliers/ Contractors            |                  |            |             |
|         | Income from trading                  | 0.00             | 1          |             |
|         | Gain on sale of Fixed Assets         |                  | 1          |             |
|         | Income/Fees /Collections against     |                  | 1          |             |
|         | staff welfare activities:            |                  |            |             |
|         | Miscellaneous Receipts:              | 0.24             | 1          |             |
|         | Delayed Payment charges from         |                  | 1          |             |
|         | Beneficiaries                        | 1.61             |            |             |
|         | Net profit from UI charges           |                  |            |             |
|         | Penalty for contractor/ supplier for |                  | 1          |             |
|         | delay etc                            |                  |            |             |
|         | Misc Charges                         |                  | 1          |             |
|         | Sub-Total                            | 1.86             | 1          |             |
|         |                                      |                  |            |             |
|         | Grand Total                          | 25.37            | 9.22       | 9.22        |

|      |  | 2019-20                             |                  |  |
|------|--|-------------------------------------|------------------|--|
| Nam  | nrup Thermal Power Station                                     | (From Oct'19<br>onwards)            | 2020-21          | Remarks                                      |
| A.   | Gas supplied by OIL, Duliajan (APM)                            |                                     |                  | As per new gas price implemented             |
| 1.00 | Basic Price (for G.C.V. 10000)/ 1000 SCM                       | 3131.72                             | 3131.72          | As per new gas price implemented from Oct'20 |
| 2.00 | Basic Price after adjustment with CV                           | 2858.40                             | 2858.40          |  |
| 3.00 | Marketing Margin (for NCV 10000) /1000 SCM                     | 200.00                              | 200.00           |  |
| 4.00 | Marketing Margin after adjustment with CV                      | 164.82                              | 164.82           |  |
|      | Total  | 3023.22                             | 3023.22          |  |
| 5.00 | Sales Tax @ 14.5% on above                                     | 438.37                              | 438.37           |  |
|      | Total (A)  | 3461.59                             | 3461.59          |  |
| В.   | T.C. for Transportation of the OIL Gas by AGCL                 |                                     |                  |  |
| 1.00 | T.C./ 1000 SCM   | 65.56                               | 67.52            | Yearly escalation 3% on TC as per agreement. |
| 3.00 | GST @ 12%  | 7.87                                | 8.10             |  |
| C.   | Total (B) Landed price of gas supplied to NTPS (A+B)/ 1000 SCM | 73.42<br>3535.02                    | 75.63<br>3537.22 |  |
|      |  |                                     |                  |  |
| Lak  | wa Thermal Power Station                                       | 2019-20<br>(From Oct'19<br>onwards) | 2020-21          | Remarks                                      |
| A.   | Gas supply by GAIL (APM)                                       |                                     |                  |  |
| 1.00 | Basic Price (for G.C.V. 10000)/ 1000 SCM                       | 3131.72                             | 3131.72          | As per new gas price implemented from Oct'20 |
| 2.00 | 10% Royalty /1000 SCM  | Included                            | Included         |  |
|      | Total  | 3131.72                             | 3131.72          |  |
| 3.00 | Basic Price after adjustment with CV                           | 2997.98                             | 2997.98          |  |
| 4.00 | Marketing Margin (for NCV 10000) /1000 SCM                     | 200.00                              | 200.00           |  |
| 5.00 | Marketing Margin after adjustment with CV                      | 176.81                              | 176.81           |  |
| 6.00 | Fixed Monthly Service charge(Rs./ 1000 SCM)                    | 23.95                               | 24.67            | Yearly escalation 3% on TC as per agreement. |
| 7.00 | Sales Tax @ 14.5 % on above                                    | 463.82                              | 463.92           |  |
|      | Landed price of gas supply to LTPS by GAIL / 1000 SCM(A)       | 3638.61                             | 3638.71          |  |
|      |  |                                     |                  |  |
| В.   | Gas supplied by OIL Duliajan (Non APM)                         | 2019-20                             | 2020-21          |  |
| 1.00 | Basic Price (for G.C.V. 10000)/ 1000 SCM                       | 5219.54                             |                  | As per new gas price implemented from Oct'20 |
| 2.00 | Basic Price after adjustment with CV                           | 4764.00                             | 4764.00          |  |
| 3.00 | Marketing Margin (for NCV 10000) /1000 SCM                     | 200.00                              | 200.00           |  |
| 4.00 | Marketing Margin after adjustment with CV                      | 164.82                              | 164.82           |  |
|      | Total  | 4928.83                             | 4928.83          |  |
| 5.00 | Sales Tax @ 14.5 % on above                                    | 714.68                              | 714.68           |  |
|      | Landed price of gas supply to LTPS by OIL (B)                  | 5643.50                             | 5643.50          |  |
| C.   | T.C for Transportation of OIL gas by AGCL                      |                                     |                  |  |
| 1.00 | T.C./ 1000 SCM   | 65.56                               | 67.52            | Yearly escalation 3% on TC as per agreement. |
| 2.00 | GST @ 12% on TC  | 7.87                                | 8.10             |  |
|      | Total T.C. (C)   | 73.42                               | 75.63            |  |
| D.   | Landed price of gas supply to LTPS by OIL (B+C)/ 1000 SCM      | 5716.93                             | 5719.13          |  |
|      | Wtd Avg landed price of LTPS gas                               | 4921.91                             | 4923.31          |  |

REGULATORY FORMATS FOR ARR & TARIFF FILING BY GENERATION LICENSEE -KARBI LANGPI HYDRO ELECTRIC PROJECT

# Name of Company: Name of Plant/ Station: ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

|          | Annual Revenue Requireme   | nt Summary                     |         | Form No:            | F1        |
|----------|--|--------------------------------|---------|---------------------|-----------|
|          |  |                                |         |                     | Rs Cro    |
|          |  | Form                           | 2019-20 | 2020-21             | 2021-22   |
|          |  | 1 01111                        | Actual  | Estimated           | Projected |
| <u>A</u> | Generation   |                                |         |                     |           |
| 1        | Gross Generation (MU)  | F4                             | 398.528 | 341.109             | 390.000   |
| 2        | Aux Consumption (%)  | F4                             | 0.4%    | 0.4%                | 0.5%      |
| 3        | Net Generation (MU)  | F4                             | 396.848 | 339.853             | 388.050   |
| В        | Capacity Charges (Annual Fixed Charges)  |                                |         |                     |           |
| 1        | O&M expenses   |                                | 29.99   | 30.34               | 32.2      |
| а        | Employee Expenses  | F21                            | 22.87   | 0.00                |           |
| b        | R & M Expense  | F20                            | 3.96    | 0.00                |           |
| С        | A&G Expense  | F22                            | 3.16    | 0.00                |           |
| 2        | Depreciation   | F23                            | 21.13   | 20.55               | 20.4      |
| 3        | Interest on Loans  | F14b                           | 20.68   | 19.62               | 18.:      |
| 4        | Return on Equity   | F25                            | 10.64   | 10.64               | 10.       |
| 5        | Interest on Working Capital  | F26                            | 2.26    | 2.46                | 2.        |
| 6        | Income Tax   | F29                            | 0.23    | 0.00                | 0.0       |
| 7        | Prior Period items   |                                | 0.00    | 0.00                | 0.0       |
| 8        | Special R&M  |                                | 0.00    | 0.00                | 12.0      |
| 9        | Other income   |                                | -16.69  | -5.75               | -5.7      |
| 10       | Incentive for generation for FY 2019-20  |                                | 0.01    |                     |           |
|          | Incentive for Secondary Energy generation  |                                | 0.72    |                     |           |
|          | Capacity builiding   |                                | 0.11    | 0.10                | 0.1       |
|          | Total  |                                | 69.08   | 77.96               | 90.       |
| С        | Variable Charges (Energy Charges)  |                                |         | 1                   |           |
| _        | Energy Charges from Primary Fuel (Rs Cr) C1, C2, C3, C4  | F4                             |         |                     |           |
|          | Energy Charges from Primary Fuel (Rs/ kWh)   | F4                             |         |                     |           |
|          | C1 - If multifuel is used simultaneously, energy charges to be given C2 - Energy charge shall be computed for open cycle operation and C3 - Energy charge shall be worked out based on ex-bus energy scl | combined cycle operation separ |         | I fuel fired plants | S         |

Format-F2b

Name of Company: Name of Plant/ Station:

## ASSAM POWER GENERATION CORPORATION LIN KARBI LANGPI HYDRO ELECTRIC PROJE

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

| SL  | DESCRIPTION                          | UNIT     | 2019-20  | 2020-21        | 2021-22   |
|-----|--------------------------------------|----------|----------|----------------|-----------|
| NO  |                                      |          |          |                |           |
| 1   | Installed Capacity                   | MW       | Actual   | Estimated      | Projected |
| 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                  | -        | Se       | mi undergrou   | nd        |
|     | Purely ROR/Pondage/Storage           | -        | RC       | R with Ponda   | ige       |
|     | Peaking/Non Peaking                  | -        | Both (Pe | eaking in lean | seasion)  |
|     | No. of hours Peaking                 | -        |          | 5 hrs          |           |
|     | Overload Capacity (MW) & period      | -        |          | 3% continuas   |           |
| 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      | %        | 0.50%    | 0.50%          | 0.50%     |
|     | Transformation losses                |          |          |                |           |
| 8   | Normative Plant Availability Factor  | %        | 90%      | 90%            | 90%       |
|     | (NAPAF)                              |          |          |                |           |
| 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_ | %        | · ·      |                |           |

| Name of Company:        | ASSAM POWER GENERATION CORPORATION LIMITED |
|-------------------------|--|
| Name of Plant/ Station: | KARBI LANGPI HYDRO ELECTRIC PROJECT        |

|    | Particulars   | Unit      | 2019-20  | 2020-21   | 2021-22   |
|----|---|-----------|----------|-----------|-----------|
|    |   |           | Actual   | Estimated | Projected |
| 1  | Base Rate of Return on Equity                         | %         | 15.50    | 15.50     | 15.50     |
| 2  | Target Availability                                   | %         |          |           |           |
| 3  | Auxiliary Energy Consumption                          | %         | 0.42%    | 0.37%     | 0.50%     |
| 4  | Gross Station Heat Rate                               | kCal/ kWh |          |           |           |
| 5  | Specific Fuel Oil Consumption ml/kWh                  | ml/ kWh   |          |           |           |
| 6  | Cost of Coal/ Lignite                                 | Rs/ Ton   |          |           |           |
| 7  | Cost of Main Secondary Fuel Oil                       | Rs/ kL    |          |           |           |
| 8  | Cost of Gas   | Rs/ SCM   |          |           |           |
| 9  | Primary Fuel (Coal/ Lignite/ Gas) for Working Capital | in Months |          |           |           |
| 10 | Secondary Fuel for Working Capital                    | in Months |          |           |           |
| 11 | O&M Expenses  | Rs/ MW    |          |           |           |
| 12 | Maintenance Spares for Working Capital                | % of O&M  | 30.00    | 30.00     | 30.00     |
| 13 | Receivebles for Working Capital                       | in Months | 2 months | 2 months  | 2 months  |
| 14 | Base Rate of SBI as on01-04-2018                      | %         | 10.00%   | 10.00%    | 10.00%    |

### SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of Company:

Assam Power Generation Corporation Limited

Name of Plant/ Station:

| 1 Location                               |   |
|--|---|
| 1. Location                              | Karbi Anglang District of Assessed              |
| State / Distt.                           | Karbi Anglong District of Assam                 |
| River                                    | Borpani   |
| 2. Diversion Tunnel                      | latalia Tima                                    |
| Size, Shape                              | Intake Type                                     |
|  | Shaft with vertical gate intake structure       |
|  | provided with trash rack                        |
| Longth                                   | FL Of invert: 301 5 M                           |
| Length                                   | 4430 M  |
| 3. Dam                                   | Company Compaign of the company                 |
| Type                                     | Concrete Gravity dam                            |
| Maximum dam height                       | 58.50 M upto Spillway crest                     |
| 4. Spillway                              | One Characteristics                             |
| Type                                     | Ogge Shape Spillway with trejectory bucket      |
| Crest level of Spillway                  | EL 300.00 M                                     |
| 5. Reservoir                             | Tota so   |
| 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                |   |
| Туре                                     |   |
| 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                           |   |
| Туре                                     | Simple with upper and lower expansion           |
|  | chamber   |
| Diameter                                 | 8.00 M  |
| Height                                   | 46.0m   |
| 9. Penstock/ Pressure Shafts             |   |
| Туре                                     | Circular, fabricated steel pipes                |
| Diameter & Length                        | 2.60 M,   |
|  | Penstock 1 Length=526.70 M                      |
|  | Penstock 2 Length=514.20 M                      |
| 10. Power House                          |   |
| Туре                                     | 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   |
| 1  |   |
| No. Of Bus Coupler bays                  | 1   |

| Name of Company:  Name of Plant/ Station:  ASSAM POWER GENERATION CORPORATION LIN  KARBI LANGPI HYDRO ELECTRIC PROJ |   |               |                   |                      |                      |
|---|---|---------------|-------------------|----------------------|----------------------|
|   | Generation Details and Variable C                             | Cost          |                   | Form No:             | F4                   |
|   | Particulars   | Unit          | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projected |
| 1   | Installed Capacity  | MW            | 100               | 100                  | 100                  |
| 2   | Plant Load Factor   | %             | 45.41%            | 36.31%               | 44.50%               |
| 3   | Gross Generation  | MU            | 398.53            | 341.11               | 390.00               |
| 4   | Auxiliary Consumption   | %             | 0.42%             | 0.37%                | 0.50%                |
| 5   | Auxiliary Consumption   | MU            | 1.680             | 1.256                | 1.950                |
| 6   | Net Generation  | MU            | 396.848           | 339.853              | 388.050              |
| 7   | Station Heat Rate   | kCal/ kWh     |                   |                      |                      |
|   | Drimon, Eval Consumption (Coal/Lignita)                       |               |                   |                      |                      |
| 8   | Primary Fuel Consumption (Coal/ Lignite) GCV of Coal/ Lignite | kCal/ kg      |                   |                      |                      |
|   | Quantity of Coal/ Lignite (Fired)                             | MT            |                   |                      |                      |
|   | Specific Coal Consumption (Fired)                             |               |                   |                      |                      |
|   | Transit Loss  | kg/ kWh<br>MT |                   |                      |                      |
|   | Transit Loss  | %             |                   |                      |                      |
|   | Gross Quantity of Coal (Purchased)                            | MT            |                   |                      |                      |
|   | Rate of Coal/ Lignite   | Rs/ Ton       |                   |                      |                      |
|   | Cost of Coal/ Lignite   | Rs Cr.        |                   |                      |                      |
| 15  | Cost of Coal/ Lightle   | RS CI.        |                   |                      |                      |
|   | Primary Fuel Consumption (Gas/ LNG/ Liquid)                   |               |                   |                      |                      |
| 16  | GCV of Gas/ LNG/ Liquid Fuel                                  | kCal/ SCM     |                   |                      |                      |
| 17  | Quantity of Gas/ LNG/ Liquid Fuel                             | MMSCM         |                   |                      |                      |
| 18  | Specific Fuel Consumption                                     | SCM/ kWh      |                   |                      |                      |
| 19  | Rate of Gas/ LNG/ Liquid Fuel                                 | Rs/ SCM       |                   |                      |                      |
| 20  | Cost of Gas/ LNG/ Liquid Fuel                                 | Rs Cr.        |                   |                      |                      |
|   | Secondary Fuel Oil Consumption                                |               |                   |                      |                      |
| 21  | GCV of Secondary Fuel Oil                                     | kCal/ kL      |                   |                      |                      |
|   | Quantity of Secondary Fuel Oil                                | kL KL         |                   |                      |                      |
|   | Specific Secondary Fuel Oil Consumption                       | ml/ kWh       |                   |                      |                      |
|   | Rate of Secondary Fuel Oil                                    | Rs/ kL        |                   |                      |                      |
|   | Cost of Secondary Fuel Oil                                    | Rs Cr.        |                   |                      |                      |
|   | Cost of Gecondary Fuel Oil                                    | 1301.         |                   |                      |                      |
|   | Primary Fuel Cost (Coal/ Lignite)                             | Rs Cr.        |                   |                      |                      |
|   | Primary Fuel Cost (Gas/ LNG/ Liquid)                          | Rs Cr.        |                   |                      |                      |
|   | Secondary Fuel Cost   | Rs Cr.        |                   |                      |                      |
|   | Variable Charges (Energy Charges)                             |               |                   |                      |                      |
| С   | Variable Charges (Energy Charges)                             | Rs/ kWh       |                   |                      |                      |
|   | Energy Charges from Primary Fuel (Coal/ Lignite)              | _             |                   |                      |                      |
|   | Energy Charges from Primary Fuel (Gas/ LNG/ Liquid)           | Rs/ kWh       |                   |                      |                      |

# ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

| Abstract of admitted Capital Cost for the existing I   | Project | Form No: F5 |
|--|---------|-------------|
| Particulars  | Unit    | Details     |
| Last date of order of Commission for the project   |         |             |
| 1 Capital Cost as admitted by AERC   | Rs Cr.  | 514.58      |
| Amount of un-discharged liabilities included in above (& forming part 2 of admitted capital cost)  | Rs Cr.  | NIL         |
| Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being 3 allowed on cash basis) | Rs Cr.  | NIL         |
| 4 Gross Normative Debt   | Rs Cr.  | 391.27      |
| 5 Cumulative Repayment   | Rs Cr.  | 177.63      |
| 6 Net Normative Debt   | Rs Cr.  | 213.64      |
| 7 Normative Equity   | Rs Cr.  | 68.65       |
| 8 Cumulative Depreciation  | Rs Cr.  | 177.63      |
| 9 Freehold land  | Rs Cr.  | NIL         |

# ASSAM POWER GENERATION CORPORATION LIM KARBI LANGPI HYDRO ELECTRIC PROJEC

|   | Statement showing claimed capital cost          |        |         | Form No:  | F5a       |
|---|---|--------|---------|-----------|-----------|
|   | Particulars                                     | Unit   | 2019-20 | 2020-21   | 2021-22   |
|   |   |        | Actual  | Estimated | Projected |
| 1 | Opening Capital Cost                            | Rs Cr. | 514.57  | 527.67    | 543.58    |
| 2 | Add: Addition during the year / period          | Rs Cr. | 13.10   | 15.92     | 1.70      |
| 3 | Less: Decapitalisation during the year / period | Rs Cr. | 0       | 0         | 0         |
| 4 | Less: Reversal during the year / period         | Rs Cr. | 0       | 0         | 0         |
| 5 | Add: Discharges during the year / period        | Rs Cr. | 0       | 0         | 0         |
| 6 | Closing Capital Cost                            | Rs Cr. | 527.67  | 543.58    | 545.28    |
| 7 | Average Capital Cost                            | Rs Cr. | 521.12  | 535.63    | 544.43    |

## ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

| De  | etails of Project Specific Loa | ans      |           |           | Form No:  | F13       |
|---|--------------------------------|----------|-----------|-----------|-----------|-----------|
|   |                                |          |           |           |           | Rs Cr.    |
| Particulars   | KLHEP                          | KLHEP    | Package 3 | Package 4 | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>                                   | I GOA -Loans                   | PFC Loan |           |           |           |           |
| Currency <sup>2</sup>   | INR                            |          |           |           |           |           |
| Amount of Loan sanctioned (Opeing Balance)                    | 103.29                         | 22.94    |           |           |           |           |
| Amount of Gross Loan drawn upto 31.03.2016<br>COD 3,4,5,13,15 |                                |          |           |           |           |           |
| ( Closing Balance)  | 120.27                         | 14.60    |           |           |           |           |
| Interest Type <sup>6</sup>                                    | FIXED                          | Floating |           |           |           |           |
| Fixed Interest Rate, if applicable                            | 9%                             | 10.11%   |           |           |           |           |
| Base Rate, if Floating Interest <sup>7</sup>                  |                                |          |           |           |           |           |
| Margin, if Floating Interest <sup>8</sup>                     | Yes/No                         | Yes/No   | Yes/No    | Yes/No    | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>                         |                                |          |           |           |           |           |
| If above is yes,specify caps/floor                            |                                |          |           |           |           |           |
| Moratorium Period <sup>10</sup>                               |                                |          |           |           |           |           |
| Moratorium effective from                                     |                                |          |           |           |           |           |
| Repayment Period <sup>11</sup>                                |                                |          |           |           |           |           |
| Repayment effective from                                      |                                |          |           |           |           |           |
| Repayment Frequency <sup>12</sup>                             |                                |          |           |           |           |           |
| Repayment Instalment <sup>13,14</sup>                         |                                |          |           |           |           |           |
| Base Exchange Rate <sup>16</sup>                              |                                |          |           |           |           |           |
| Are foreign currency loan hedged?                             |                                |          |           |           |           |           |
| If above is yes,specify details <sup>17</sup>                 |                                |          |           |           |           |           |

#### Note:

Petitioner

Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>20</sup> 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.

#### ASSAM POWER GENERATION CORPORATION LIMIT KARBI LANGPI HYDRO ELECTRIC PROJECT

|   | 2019-20 | 2020-21   | 2021-  |
|---|---------|-----------|--|
| Particulars -                                     | Actual  | Estimated | Project  |
| Loan-1 from PFCL                                  | Actual  | Louinatea | 110,000  |
| Gross Ioan - Opening                              |         |           | <del>                                     </del> |
| Cumulative repayments of Loans upto previous year |         | +         |  |
| Net loan - Opening                                | 387.03  | 364.92    | 321.5  |
| Add: Drawal(s) during the Year                    | 21.28   | 0.00      | 0.00   |
| Less: Repayment (s) of Loans during the year      | 43.39   | 43.39     | 41.30  |
| Net loan - Closing                                | 364.92  | 321.53    | 280.2  |
| Average Net Loan                                  | 375.97  | 343.23    | 300.8  |
| Rate of Interest on Loan on annual basis          | 11.54%  | 11.21%    | 11.199   |
| Interest on loan                                  | 44.68   | 40.91     | 35.97  |
|   |         |           |  |
| Loan-2 Govt. of Assam                             |         |           |  |
| Gross Ioan - Opening                              |         |           |  |
| Cumulative repayments of Loans upto previous year |         |           |  |
| Net loan - Opening                                | 239.80  | 271.48    | 318.4  |
| Add: Drawal(s) during the Year                    | 9.98    | 25.29     | 11.10  |
| Less: Repayment (s) of Loans during the year      | -21.69  | -21.69    | -21.69   |
| Net loan - Closing                                | 271.48  | 318.46    | 351.2  |
| Average Net Loan                                  | 255.64  | 294.97    | 334.8  |
| Rate of Interest on Loan on annual basis          | 7.61%   | 8.73%     | 8.82%  |
| Interest on loan                                  | 18.25   | 23.71     | 28.09  |
| Total Loan  |         |           |  |
| Gross loan - Opening                              |         |           | <u> </u>   |
| Cumulative repayments of Loans upto previous year |         |           | 1  |
| Net loan - Opening                                | 626.83  | 636.40    | 639.9  |
| Add: Drawal(s) during the Year                    | 31.26   | 25.29     | 11.10  |
| Less: Repayment (s) of Loans during the year      | 21.69   | 21.69     | 19.6   |
| Net loan - Closing                                | 636.40  | 639.99    | 631.4  |
| Average Net Loan                                  | 631.61  | 638.19    | 635.7  |
| Interest on loan                                  | 62.93   | 64.62     | 64.06  |
| Weighted average Rate of Interest on Loans        | 10.04%  | 10.15%    | 10.01  |

<sup>1.</sup> 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.

2. As per the Regulation 35.5, the weighted average rate of interest has to be calculatedon the basis of the actual loan portfolio at the beginning of each year. Hence the weighted average rate of interest has

3. the above actual loan portfolio is shwon as for APGCL as a whole, as the same is to be used for calclat

| Name of Company:        | I POWER GENERATION CORPORATION L |
|-------------------------|----------------------------------|
| Name of Plant/ Station: | BI LANGPI HYDRO ELECTRIC PRO     |

|        | Calculation of Interest on Normative L     | Form No: | F14b      |            |
|--------|--|----------|-----------|------------|
|        |  |          |           | Rs. Crores |
| S. No. | Particulars                                | 2019-20  | 2020-21   | 2021-22    |
| S. NO. | Faiticulais                                | Actual   | Estimated | Projected  |
|        |  |          |           |            |
| 1      | Gross Normative Ioan – Opening             |          |           |            |
|        | Cumulative repayment of Normative loan     |          |           |            |
| 2      | upto previous year                         |          |           |            |
| 3      | Net Normative Ioan – Opening               | 216.24   | 195.24    | 191.14     |
|        | Add: Increase due to addition during the   | 0.13     | 16.45     | 2.10       |
| 4      | year / period                              | 0.13     | 10.45     | 2.10       |
|        | Less: Decrease due to de-capitalisation    |          |           |            |
| 5      | during the year / period                   |          |           |            |
|        | Less: Decrease due to reversal during the  | 21.13    | 20.55     | 20.44      |
| 6      | year / period                              | 21.13    | 20.55     | 20.44      |
|        | Add: Increase due to discharges during the |          |           |            |
| 7      | year / period                              |          |           |            |
| 8      | Net Normative loan - Closing               | 195.24   | 191.14    | 172.79     |
| 9      | Average Normative loan                     | 205.74   | 193.19    | 181.96     |
| 10     | Weighted average rate of interest          | 10.04%   | 10.15%    | 10.01%     |
| 11     | Interest on Loan                           | 20.65    | 19.62     | 18.21      |
|        | Bank charges                               | 0.02     | 0.00      | 0.00       |
| 11     | Interest on Loan with Bank charges         | 20.68    | 19.62     | 18.21      |
|        |  |          |           |            |

## ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

| Details of                                    | Allocation of c | orporate loans to various projects |              |             | Form No:  | F15       |
|---|-----------------|------------------------------------|--------------|-------------|-----------|-----------|
|   |                 |                                    |              |             |           | Rs Cr.    |
| Particulars                                   | Lungnit SHEP    | Survey & Investigation of HEP      | Dhansiri HEP | KLHEP       | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>                   | I GOA -Loans    | I GOA -Loans                       | I GOA -Loans | I PFC Loans |           |           |
| Currency <sup>2</sup>                         | INR             | INR                                | INR          | INR         |           |           |
| Amount of Loan sanctioned( Opening Bala       | 4.00            | 0.70                               | 1.04         | 22.94       |           |           |
| Amount of Gross Loan drawn upto               |                 |                                    |              |             |           |           |
| 31.03.2016/ COD 3,4,5,13,15                   |                 |                                    |              |             |           |           |
| (Closing Balance)                             | 4.00            | 0.70                               | 1.04         | 14.60       |           |           |
| Interest Type <sup>6</sup>                    | Fixed           | Fixed                              | Fixed        | Fixed       |           |           |
| Fixed Interest Rate, if applicable            | 10%             | 10%                                | 10%          | 10.11%      |           |           |
| Base Rate, if Floating Interest <sup>7</sup>  |                 |                                    |              |             |           |           |
| Margin, if Floating Interest <sup>8</sup>     | Yes/No          | Yes/No                             | Yes/No       | Yes/No      | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>         |                 |                                    |              |             |           |           |
| If above is yes,specify caps/floor            |                 |                                    |              |             |           |           |
| Moratorium Period <sup>10</sup>               |                 |                                    |              |             |           |           |
| Moratorium effective from                     |                 |                                    |              |             |           |           |
| Repayment Period <sup>11</sup>                |                 |                                    |              |             |           |           |
| Repayment effective from                      |                 |                                    |              |             |           |           |
| Repayment Frequency <sup>12</sup>             |                 |                                    |              |             |           |           |
| Repayment Instalment <sup>13,14</sup>         |                 |                                    |              |             |           |           |
| Base Exchange Rate <sup>16</sup>              |                 |                                    |              |             |           |           |
| Are foreign currency loan hedged?             |                 |                                    |              |             |           |           |
| If above is yes,specify details <sup>17</sup> |                 |                                    |              |             |           |           |

| Distribution of loan packages to various projects |  |  |  |  |  |       |
|---|--|--|--|--|--|-------|
| lame of the Projects Total                        |  |  |  |  |  | Total |
| Project 1   |  |  |  |  |  |       |
| Project 2   |  |  |  |  |  |       |
| Project 3 and so on                               |  |  |  |  |  |       |

#### Note:

Petitioner

<sup>&</sup>lt;sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>&</sup>lt;sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>&</sup>lt;sup>20</sup> 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: Name of Plant/ Station:

# ASSAM POWER GENERATION CORPORA KARBI LANGPI HYDRO ELECTRIC

|    | Statement                             | of Additional Capital | isation after COD |         |                                 | Form No:      | F16                                |
|----|---------------------------------------|-----------------------|-------------------|---------|---------------------------------|---------------|------------------------------------|
|    |                                       |                       |                   |         |                                 | Rs Cr.        |                                    |
| No | Head of Work/ Equipment               |                       |                   |         | Regulations under which claimed | Justification | Admitted Cost by Commission if any |
|    |                                       | 2019-20               | 2020-21           | 2021-22 |                                 |               |                                    |
| 1  | Land                                  | -                     | -                 | -       |                                 |               |                                    |
| 2  | Building                              | -                     | -                 | 0.40    |                                 |               |                                    |
| 3  | Hydraulic works                       | 0.04                  | -                 | -       |                                 |               |                                    |
| 4  | Other civil works                     | -                     | 1.00              | 0.10    |                                 |               |                                    |
| 5  | Plant & machinery- Gas                | -                     | -                 | -       |                                 |               |                                    |
| 6  | Plant & machinery- Hydel              | 0.01                  | 4.20              | -       |                                 |               |                                    |
| 7  | Lines & cables                        | -                     | 10.73             | 0.70    |                                 |               |                                    |
| 8  | Vehicle                               | -                     | -                 | -       |                                 |               |                                    |
| 9  | Furniture                             | 0.07                  | -                 | -       |                                 |               |                                    |
| 10 | Other office equipment                | 0.01                  | -                 | -       |                                 |               |                                    |
| 11 | Roads on land belonging to others     | -                     | -                 | •       |                                 |               |                                    |
| 12 | Capital spares at Generating Stations | -                     | -                 | 0.50    |                                 |               |                                    |
|    |                                       | 0.13                  | 15.92             | 1.70    |                                 |               |                                    |

#### Note:

<sup>1</sup> Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits accruing to the

<sup>2</sup> In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g. Rotor - 50 Crs.

<sup>3</sup> Actual/Projected additional capital expenditure claimed for past period shall be governed by Tariff Regulation for the relevant period

# ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

|    | Details of Assets De-capitalized during the period |  |   | Form No:        | F16a  |
|----|--|--|---|-----------------|---|
|    |  |  |   |                 | Rs Cr.  |
| No | Name of the Asset                                  | Nature of de-capitlization<br>(whether claimed under<br>exclusion or as additional<br>capital expenditure) | Original Value of<br>the Asset<br>Capitalised | Year Put to use | Depreciation recovered till date of de-capitalization |
| 1  |  |  |   |                 |   |
| 2  |  |  |   |                 |   |
| 3  |  |  |   |                 |   |
| 4  |  | NIL DURING THE PERIOD  |   |                 |   |
| 5  |  | NIE DOMING THE FEMOD   |   |                 |   |
|    |  |  |   |                 |   |
|    |  |  |   |                 |   |
|    |  |  |   |                 |   |
|    |  |  |   |                 |   |

Note: Year wise detail need to be submitted

POWER GENERATION CORPORATION I
KARBI LANGPI HYDRO ELECTRIC

**Date of Commercial Operation:** 

### Financing of Additional Capitalisation

| Financial Year (Starting from COD)    | 2019-20 | 2020-21 | 2021-22 |
|---------------------------------------|---------|---------|---------|
| Amount capitalised in Work/ Equipment |         |         |         |
|                                       |         |         |         |
| Financing Details                     |         |         |         |
| GOA Loan                              | 0.13    | 16.45   | 2.10    |
| Loan-2                                |         |         |         |
| Total Loan <sup>2</sup>               | 0.13    | 16.45   | 2.10    |
| Grant                                 | 0.00    | 4.77    | 3.59    |
| Equity                                | 0.00    | 4.07    | 0.00    |
| Internal Resources                    |         |         |         |
| Others                                |         |         |         |
| Total                                 | 0.13    | 25.29   | 5.69    |

<sup>&</sup>lt;sup>1</sup> Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.

<sup>&</sup>lt;sup>2</sup> Loan details for meeting the additional capitalisation requirement should be given as per Form 14 and Form 15 whichever is relevent.

| Name of Company:        | M POWER GENERATION CORPORATION LIN |
|-------------------------|------------------------------------|
| Name of Plant/ Station: | RBI LANGPI HYDRO ELECTRIC PROJ     |

|    | R&M Expenses                            | Form No: |               | F20          |
|----|---|----------|---------------|--------------|
|    |   |          |               | Rs Cr.       |
|    | Particulars                             | 2019-20  | 2020-21       | 2021-22      |
|    | r ai ticulai s                          | Actual   | Estimated     | Projected    |
| 1  | Plant and Machinery                     | 1.71     |               |              |
| 2  | Building                                | 0.99     |               |              |
| 3  | Civil Works                             | 0.35     |               |              |
| 4  | Hydraulic Works                         | 0.81     |               |              |
| 5  | Lines, Cables Net Works etc.            | 0.02     | Break-up for  | Consolidated |
| 6  | Vehicles                                | 0.02     | whole year    | O&M          |
| 7  | Furniture and Fixtures                  | 0.01     | not available | approved for |
| 8  | Office Equipments                       | 0.05     | yet           | the year     |
| 9  | Station Supplies                        | -        |               |              |
| 10 | Lubricants & Consumable stores          | -        |               |              |
| 11 | Oil/Turbine Oil consumed in internal co | -        |               |              |
| 12 | Any other items (Capitalisation)        | -        |               |              |
|    | Total                                   | 3.96     |               |              |
|    |   |          |               |              |

| Name of Company:        | M POWER GENERATION CORPORATION LIN |
|-------------------------|------------------------------------|
| Name of Plant/ Station: | RBI LANGPI HYDRO ELECTRIC PROJ     |

|    | Employee Expenses                                 | Form No: | F21           |               |
|----|---|----------|---------------|---------------|
|    |   |          |               | Rs Cr.        |
|    | Particulars                                       | 2019-20  | 2020-21       | 2021-22       |
|    | i diticulai 3                                     | Actual   | Estimated     | Projected     |
| 1  | Salaries  | 13.98    |               |               |
| 2  | Additional Pay                                    | -        |               |               |
| 3  | Dearness Allowance (DA)                           | 1.56     |               |               |
| 4  | Other Allowances & Relief                         | 2.50     |               |               |
| 5  | Addl. Pay & C.Off Encashment                      | -        |               |               |
| 6  | Interim Relief / Wage Revision                    | -        |               |               |
| 7  | Overtime  | 0.00     |               |               |
| 8  | Bonus To Employees                                | 0.03     |               | Consolidated  |
| 9  | Medical Expenses Reimbursement                    | 0.01     |               |               |
| 10 | Travelling Allowance(Conveyance Allowance)        | -        | Break-up for  |               |
| 11 | Leave Travel Assistance                           | 0.00     |               |               |
| 12 | Earned Leave Encashment                           | 0.29     | whole year    | O&M           |
| 13 | Payment Under Workman's Compensation And Gratuity | -        | not available | Projected for |
| 14 | Subsidised Electricity To Employees               | -        | yet           | the year      |
| 15 | Any Other Item                                    | -        |               |               |
| 16 | Staff Welfare Expenses                            | 0.06     |               |               |
| 17 | Capacity Building Expenses                        | -        |               |               |
| 18 | Apprentice And Other Training Expenses            | -        |               |               |
| 19 | Contribution To Terminal Benefits                 | 4.43     |               |               |
| 20 | Provident Fund Contribution                       | -        |               |               |
| 21 | Provision for PF Fund                             | -        |               |               |
| 22 | Any Other Items (Revision of pay@% of salary)     | 0.00     |               |               |
|    | Total Employee Costs                              | 23       |               |               |
| 23 | Less: Employee expenses capitalised               | 0.00     |               |               |
|    | Net Employee expenses (D)-(E)                     | 22.87    |               |               |
|    |   |          |               |               |

|           | f Company:<br>f Plant/ Station:                           |             | M POWER GENERATION CORPORATION LIN |                 |  |  |  |  |  |  |
|-----------|---|-------------|------------------------------------|-----------------|--|--|--|--|--|--|
| vallie Oi | i Fianti Station.   | INDI LAIVOF | I III DRO LLL                      | .CIRIC FRO      |  |  |  |  |  |  |
|           | Administration & General Expenses                         |             | Form No:                           | F22             |  |  |  |  |  |  |
|           |   |             |                                    | Rs Cr.          |  |  |  |  |  |  |
|           | Particulars   | 2019-20     | 2020-21                            | 2021-22         |  |  |  |  |  |  |
|           | rai liculai s   | Actual      | Estimated                          | Projected       |  |  |  |  |  |  |
| 1 Leas    | se/ Rent  | 0.01        |                                    |                 |  |  |  |  |  |  |
| 2 Insur   | rance   | 1.09        | ]                                  |                 |  |  |  |  |  |  |
| 3 Reve    | enue Stamp Expenses Account                               | -           | ]                                  |                 |  |  |  |  |  |  |
| 4 Tele    | phone, Postage, Telegram & Telex Charges                  | 0.01        | ]                                  |                 |  |  |  |  |  |  |
| 5 Incer   | ntive & Award To Employees/Outsiders                      | -           | ]                                  |                 |  |  |  |  |  |  |
| 6 Cons    | sultancy Charges  | 0.33        |                                    |                 |  |  |  |  |  |  |
| 7 Tech    | nnical Fees   | =           | ]                                  |                 |  |  |  |  |  |  |
| 8 Othe    | er Professional Charges                                   | 0.02        | 1                                  |                 |  |  |  |  |  |  |
| 9 Conv    | veyance And Travelling                                    | 0.11        | 1                                  |                 |  |  |  |  |  |  |
| 10 Licer  | nse and Registration Fees                                 | -           | 1                                  |                 |  |  |  |  |  |  |
| 11 Vehi   | icle Expenses   | 0.96        |                                    |                 |  |  |  |  |  |  |
| 12 Secu   | urity / Service Charges Paid To Outside Agencies          | -           |                                    |                 |  |  |  |  |  |  |
| 3 Fee     | And Subscriptions Books And Periodicals                   | 0.03        | 1                                  |                 |  |  |  |  |  |  |
| 4 Fees    | s Paid to AERC  | 0.18        | 1                                  |                 |  |  |  |  |  |  |
| 15 Print  | ting And Stationery                                       | 0.03        | 1                                  |                 |  |  |  |  |  |  |
| 6 Adve    | ertisement Expenses                                       | 0.09        | 1                                  |                 |  |  |  |  |  |  |
| 7 Cont    | tributions/Donations To Outside Institutes / Associations | 0.11        | Break-up for                       | Consolidate     |  |  |  |  |  |  |
| 8 Elect   | tricity Charges To Offices                                | 0.00        | whole year not available           | O&M approved fo |  |  |  |  |  |  |
| 19 Wate   | er Charges  | 0.00        | yet                                | the year        |  |  |  |  |  |  |
| 20 Ente   | ertainment Charges  | 0.03        | ) , , ,                            | line year       |  |  |  |  |  |  |
| 1 Misc    | cellaneous Expenses                                       | 0.09        | 1                                  |                 |  |  |  |  |  |  |
| 22 Lega   | al Charges  | 0.03        | 1                                  |                 |  |  |  |  |  |  |
| 23 Audi   | itor's Fee  | 0.02        | 1                                  |                 |  |  |  |  |  |  |
| 24 Freig  | ght On Capital Equipments                                 | -           | 1                                  |                 |  |  |  |  |  |  |
|           | chase Related Advertisement Expenses                      | -           | 1                                  |                 |  |  |  |  |  |  |
| 26 Vehi   | icle Running Expenses Truck / Delivery Van                | -           | 1                                  |                 |  |  |  |  |  |  |
| 7 Vehi    | icle Hiring Expenses Truck / Delivery Van                 | -           | 1                                  |                 |  |  |  |  |  |  |
|           | er Freight  | -           | 1                                  |                 |  |  |  |  |  |  |
|           | sit Insurance   | -           | 1                                  |                 |  |  |  |  |  |  |
| 0 Octro   | oi  | -           | 1                                  |                 |  |  |  |  |  |  |
|           | lental Stores Expenses                                    | -           | 1                                  |                 |  |  |  |  |  |  |
| 32 Fabri  | rication Charges  | -           | 1                                  |                 |  |  |  |  |  |  |
| 33 CSR    | •   | 0.04        | 1                                  |                 |  |  |  |  |  |  |
|           | I A&G Expenes   | 3.16        | 1                                  |                 |  |  |  |  |  |  |
| _         | : A&G Expenses Capitalised                                | 0.00        | 1                                  |                 |  |  |  |  |  |  |
|           | I A&G Expenes   | 3.16        | <del></del>                        | i               |  |  |  |  |  |  |

# CONSOLIDATED STATEMENT OF APGCL ASSETS

**Net Depeciation** 

#### ASSAM POWER GENERATION CORPORATION LIMITED

### KARBI LANGPI HYDRO ELECTRIC PROJECT

21.13

|  |  |                                 |                    |        |                             |      |                          |       |                                | Form No: | 23              |         |
|--|--|---------------------------------|--------------------|--------|-----------------------------|------|--------------------------|-------|--------------------------------|----------|-----------------|---------|
|  |  |                                 |                    |        |                             |      | FY201                    | 9-20  |                                |          |                 |         |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG | Balance<br>depreciable<br>asset | Opening balance    |        | Adjustment as on 01/04/2017 |      | Addition during the year |       | Deletion during the year       |          | Closing l       | balance |
|  |  |                                 | Asset              | Depr   | Asset                       | Depr | Asset                    | Depr  | Asset                          | Depr     | Asset           | Depr    |
|  |  |                                 | -                  | -      | •                           | -    |                          | -     | -                              |          | -               |         |
| KLHEP                                    |  | -                               | -                  | -      | -                           | -    | -                        | -     | -                              | -        | -               | -       |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG | Balance<br>depreciable<br>asset | Opening<br>balance | -      | Adjustment as on 01/04/2016 | -    | Addition during the year | -     | Deletion<br>during the<br>year | -        | Closing balance | -       |
|  |  | -                               | Asset              | Depr   | Asset                       | Depr | Asset                    | Depr  | Asset                          | Depr     | Asset           | Depr    |
| Land                                     | 0.00%  | 4.40                            | 4.40               | -      | -                           | -    | -                        | -     | -                              | -        | 4.40            | -       |
| Building                                 | 3.34%  | 13.84                           | 17.36              | 1.78   | -                           | -    | -                        | 0.58  | -                              | -        | 17.36           | 2.36    |
| Hydraulic works                          | 5.28%  | 83.59                           | 162.42             | 62.59  | -                           | -    | 0.04                     | 8.58  | -                              | -        | 162.46          | 71.17   |
| Other civil works                        | 3.34%  | 67.04                           | 102.75             | 25.43  | -                           | -    | -                        | 3.43  | -                              | -        | 102.75          | 28.86   |
| Plant & machinery- Gas                   | 5.28%  | -                               | -                  | -      | -                           | -    | -                        | -     | -                              | -        | -               | -       |
| Plant & machinery- Hydel                 | 5.28%  | 93.09                           | 175.59             | 64.94  | -                           | -    | 0.01                     | 9.27  | -                              | -        | 175.61          | 74.21   |
| Lines & cables                           | 5.28%  | 15.66                           | 32.57              | 13.65  | -                           | -    | -                        | 0.75  | -                              | -        | 32.57           | 14.40   |
| Vehicle                                  | 9.50%  | (0.00)                          | 0.29               | 0.26   | -                           | -    | -                        | -     | -                              | -        | 0.29            | 0.26    |
| Furniture                                | 6.33%  | 0.04                            | 0.05               | 0.00   | -                           | -    | 0.07                     | 0.01  | -                              | -        | 0.12            | 0.01    |
| Other office equipment                   | 6.33%  | 0.07                            | 0.10               | 0.02   | -                           | -    | 0.01                     | 0.01  | -                              | -        | 0.12            | 0.03    |
| Roads on land belonging to others        | 3.34%  | 0.20                            | 0.28               | 0.05   | -                           | -    | -                        | 0.03  | -                              | -        | 0.28            | 0.08    |
| Capital spares at<br>Generating Stations | 5.28%  | 0.00                            | 18.76              | 16.88  | -                           | -    | -                        | 0.99  | -                              | -        | 18.76           | 17.87   |
|  |  | 277.95                          | 514.57             | 185.60 | -                           | -    | 0.13                     | 23.65 | -                              | -        | 514.70          | 209.24  |
| Less: Depreciation on                    |  |                                 |                    |        |                             |      |                          |       |                                |          |                 |         |
| Grant                                    |  |                                 |                    |        |                             |      |                          |       |                                |          |                 |         |
| Total Grant in Capital                   |  |                                 |                    |        |                             |      |                          | 54.66 |                                |          |                 |         |
| Asset                                    |  |                                 |                    |        |                             |      |                          |       |                                |          |                 |         |
| Rate of Depreciation                     |  |                                 |                    |        |                             |      |                          | 0.05  |                                |          |                 |         |
| Depreciation on 90% of                   |  |                                 |                    |        |                             |      |                          |       |                                |          |                 |         |
| the Assets funded by                     |  |                                 |                    |        |                             |      |                          | 2.51  |                                |          |                 |         |
| Grants/subsidies                         |  |                                 |                    |        |                             |      |                          |       |                                |          |                 |         |

# CONSOLIDATED STATEMENT OF APGCL ASSETS

**Net Depeciation** 

#### ASSAM POWER GENERATION CORPORATION LIMITED

### KARBI LANGPI HYDRO ELECTRIC PROJECT

|  |  |                                  |         |         |                   |      |   |          |            | Form No:          | 23       |         |
|--|--|----------------------------------|---------|---------|-------------------|------|---|----------|------------|-------------------|----------|---------|
|  |  |                                  |         |         |                   |      | FY202   | 20-21    |            |                   |          |         |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG | Balance<br>deprecia<br>ble asset | Opening | balance | Adjustme<br>01/04 |      | Addition d                                    | _        | Deletion o | during the<br>ear | Closing  | balance |
|  |  | •                                | Asset   | Depr    | Asset             | Depr | Asset   | Depr     | Asset      | Depr              | Asset    | Depr    |
|  | -  | -                                |         |         |                   |      | -   |          |            |                   | -        |         |
| KLHEP                                    |  |                                  |         |         |                   |      |   |          |            |                   |          |         |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG |                                  |         |         |                   |      |   |          |            |                   |          |         |
| 1 1                                      | 0.000/                                       | 4.40                             | 4.40    |         |                   |      |   |          |            |                   | 4.40     |         |
| Land                                     | 0.00%  | 4.40                             | 4.40    | -       | -                 | -    | -   | - 0.50   | -          | -                 | 4.40     |         |
| Building                                 | 3.34%  | 13.26                            | 17.36   | 2.36    | -                 | -    | -   | 0.58     | -          | -                 | 17.36    | 2.94    |
| Hydraulic works                          | 5.28%  | 75.05                            | 162.46  | 71.17   | -                 | -    | -   | 8.58     | -          | -                 | 162.46   | 79.74   |
| Other civil works                        | 3.34%  | 63.61                            | 102.75  | 28.86   | -                 | -    | 1.00  | 3.45     | -          | -                 | 103.74   | 32.31   |
| Plant & machinery- Gas                   | 5.28%  | -                                | 475.04  | 74.04   | -                 | -    | -   | -        | -          | -                 | - 470.00 |         |
| Plant & machinery- Hydel                 | 5.28%  | 83.83                            | 175.61  | 74.21   | -                 | -    | 4.20  | 9.38     | -          | -                 | 179.80   | 83.60   |
| Lines & cables                           | 5.28%  | 14.91                            | 32.57   | 14.40   | -                 | -    | 10.73   | 1.03     | -          | -                 | 43.30    | 15.43   |
| Vehicle                                  | 9.50%  | (0.00)                           | 0.29    | 0.26    | -                 | -    | -   | <u>-</u> | -          | -                 | 0.29     | 0.26    |
| Furniture                                | 6.33%  | 0.10                             | 0.12    | 0.01    | -                 | -    |   | 0.01     | -          | -                 | 0.12     | 0.01    |
| Other office equipment                   | 6.33%  | 0.07                             | 0.12    | 0.03    | -                 | -    | -   | 0.01     | -          | -                 | 0.12     | 0.04    |
| Roads on land belonging to others        | 3.34%  | 0.18                             | 0.28    | 0.08    | -                 | -    | -   | 0.03     | -          | -                 | 0.28     | 0.10    |
| Capital spares at<br>Generating Stations | 5.28%  | -                                | 18.76   | 17.87   | -                 | -    | -   | -        | -          | -                 | 18.76    | 17.87   |
|  |  | 255.42                           | 514.70  | 209.24  | -                 | -    | 15.92   | 23.07    | -          | -                 | 530.62   | 232.31  |
| Less: Depreciation on                    | -  |                                  |         |         |                   |      |   |          |            |                   |          |         |
| Grant                                    |  |                                  |         |         |                   |      |   |          |            |                   |          |         |
| Total Grant in Capital                   |  |                                  | _       |         |                   |      |   | 59.43    |            |                   |          |         |
| Asset                                    |  |                                  |         |         |                   |      | <u>                                      </u> | <u> </u> | <u> </u>   |                   |          |         |
| Rate of Depreciation                     |  |                                  |         |         |                   |      |   | 0.04     |            |                   |          |         |
| Depreciation on 90% of                   |  |                                  |         |         |                   |      |   |          |            |                   |          |         |
| the Assets funded by                     |  |                                  |         |         |                   |      |   | 2.52     |            |                   |          |         |
| Grants/subsidies                         |  |                                  |         |         |                   |      |   |          |            |                   |          |         |
| Not Donociation                          |  |                                  |         |         |                   |      |   | 20.55    |            |                   |          |         |

20.55

# CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### KARBI LANGPI HYDRO ELECTRIC PROJECT

|  |  |                                  |         |         |                   |      |            |        |                        | Form No: | 23        |         |
|--|--|----------------------------------|---------|---------|-------------------|------|------------|--------|------------------------|----------|-----------|---------|
|  |  |                                  |         |         |                   |      | FY20:      | 21-22  |                        |          |           |         |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG | Balance<br>deprecia<br>ble asset | Opening | balance | Adjustme<br>01/04 |      | Addition d | ar ye  | during the ear Closing |          | g balance |         |
|  |  |                                  | Asset   | Depr    | Asset             | Depr | Asset      | Depr   | Asset                  | Depr     | Asset     | Depr    |
| KLHEP                                    |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Group of Asset                           | Rate of<br>Depreciatio<br>n AERC<br>2015 REG |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Land                                     | 0.00%  | 4.40                             | 4.40    |         |                   |      | _          | _      | _                      | _        | 4.40      | _       |
| Building                                 | 3.34%  | 12.68                            | 17.36   | 2.94    | -                 |      | 0.40       | 0.59   | _                      | _        | 17.76     | 3.52    |
| Hydraulic works                          | 5.28%  |                                  | 162.46  | 79.74   |                   |      | 0.40       | 8.58   | _                      | _        | 162.46    | 88.32   |
| Other civil works                        | 3.34%  |                                  | 102.40  | 32.31   |                   |      | 0.10       | 3.45   | _                      | _        | 103.84    | 35.76   |
| Plant & machinery- Gas                   | 5.28%  | - 01.00                          | 100.74  | 02.01   | _                 |      | - 0.10     | - 0.40 | _                      | _        | 100.04    | - 00.70 |
| Plant & machinery- Hydel                 | 5.28%  |                                  | 179.80  | 83.60   | _                 | _    | _          | 9.38   | _                      | _        | 179.80    | 92.98   |
| Lines & cables                           | 5.28%  | 23.53                            | 43.30   | 15.43   | _                 | _    | 0.70       | 1.05   | _                      | _        | 44.00     | 16.48   |
| Vehicle                                  | 9.50%  |                                  | 0.29    | 0.26    | _                 | _    | -          | -      | _                      | _        | 0.29      | 0.26    |
| Furniture                                | 6.33%  |                                  | 0.12    | 0.01    | _                 | _    | _          | 0.01   | _                      | _        | 0.12      | 0.02    |
| Other office equipment                   | 6.33%  |                                  | 0.12    | 0.04    | -                 | _    | -          | 0.01   | -                      | _        | 0.12      | 0.06    |
| Roads on land belonging to others        | 3.34%  | 0.15                             | 0.28    | 0.10    | -                 | -    | -          | 0.03   | -                      | -        | 0.28      | 0.13    |
| Capital spares at<br>Generating Stations | 5.28%  | -                                | 18.76   | 17.87   | -                 | -    | 0.50       | 0.01   | -                      | -        | 19.26     | 17.88   |
|  |  | 246.68                           | 530.62  | 232.31  | -                 | -    | 1.70       | 23.11  | -                      | -        | 532.32    | 255.42  |
| Less: Depreciation on                    |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Grant                                    |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Total Grant in Capital                   |  |                                  |         |         |                   |      |            | 63.02  |                        |          |           |         |
| Asset                                    |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Rate of Depreciation                     |  |                                  |         | · ·     |                   |      |            | 0.04   |                        |          |           |         |
| Depreciation on 90% of                   |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| the Assets funded by                     |  |                                  |         |         |                   |      |            | 2.66   |                        |          |           |         |
| Grants/subsidies                         |  |                                  |         |         |                   |      |            |        |                        |          |           |         |
| Net Depeciation                          |  |                                  |         |         |                   |      |            | 20.44  |                        |          |           |         |

## ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

|          |                                  |                 |                     |                    |                 |                     | Form No:        | 24                 |  |  |  |  |
|----------|----------------------------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------|--------------------|--|--|--|--|
| Г        |                                  |                 |                     |                    | 201             | 18-19               |                 |                    |  |  |  |  |
| 1        |                                  | Loan            | Actual              |                    |                 |                     |                 |                    |  |  |  |  |
|          | Loan Details                     | Tenure<br>(yrs) | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest<br>Due | Closing<br>Balance |  |  |  |  |
| L        |                                  |                 |                     |                    |                 |                     |                 |                    |  |  |  |  |
| Ļ        |                                  | _               |                     |                    | _               |                     |                 |                    |  |  |  |  |
| A        | Secured Loans                    | 0               | 10.1%               | 2294               | 0               | -834                | 190             | 1460               |  |  |  |  |
| L        | I PFC Loans                      | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| _        | KLHEP<br>NTDS(D&M)               | 15              | 12.0%               | 5765               | 0               | -1335               | 611             | 4430               |  |  |  |  |
| _        | NTPS(R&M)                        | 13              | 12.0%               | 30643              | 2128            | -2169               | 3667            | 30602              |  |  |  |  |
| H        | LTPS(R&M)<br>NRPP                | 20<br>15        | 11.9%               | 38703<br>0         | 2128            | -4339               | 4468<br>0       | 36492<br>0         |  |  |  |  |
| H        | Sub-total                        | 15              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| H        | Sub-total                        |                 | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| _        |                                  |                 | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| В        | Unsecured Loans                  | 0               | 10.0%               | 10                 | 0               | 0                   | 1               | 10                 |  |  |  |  |
| 屵        | I GOA -Loans                     | 0               | 10.0%               | 1473               | 264             | 0                   | 147             | 1737               |  |  |  |  |
| H        | Rural electrification            | 10              | 10.0%               | 886                | 0               | 0                   | 89              | 886                |  |  |  |  |
| H        | NRPP Ph-I                        | 10              | 10.0%               | 1975               | 0               | 0                   | 198             | 1975               |  |  |  |  |
| $\vdash$ | LWHRP                            | 10              | 10.0%               | 4109               | 166             | 0                   | 411             | 4275               |  |  |  |  |
| $\vdash$ | Lower Kopili HEP                 | 10              | 10.0%               | 2992               | 1129            | 0                   | 300             | 4121               |  |  |  |  |
| H        | R&M NTPS                         | 10              | 10.0%               | 153                | 0               | 0                   | 15              | 153                |  |  |  |  |
| Н        | R&M LTPS                         | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Н        | LRPP                             | 10              | 10.0%               | 400                | 0               | 0                   | 40              | 400                |  |  |  |  |
| $\vdash$ | 0                                | 0               | 10.0%               | 1165               | 0               | 0                   | 117             | 1165               |  |  |  |  |
| H        | Lungnit SHEP                     | 10              | 10.0%               | 1805               | 0               | 0                   | 181             | 1805               |  |  |  |  |
| -        | Myntriang SHEP                   | 10              | 10.0%               | 1003               | 0               | 0                   | 10              | 1003               |  |  |  |  |
| H        | LTPS, Ph-II                      | 10              | 10.0%               | 70                 | 0               | 0                   | 7               | 70                 |  |  |  |  |
| H        | Development of SHEP              | 10              | 10.0%               | 40                 | 0               | 0                   | 4               | 40                 |  |  |  |  |
| -        | Survey & Investigation of HEP    | 10              | 10.0%               | 9601               | 1698            | 0                   | 972             | 11299              |  |  |  |  |
| N        | on-Conventional source of energ  | 10              | 10.0%               | 215                | 0               | 0                   | 22              | 215                |  |  |  |  |
| -        | KLHEP                            | 10              | 10.0%               | 250                | 0               | 0                   | 25              | 250                |  |  |  |  |
| Н        | KLHEP (upper)                    | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Н        | KLHEP (intermediate)             | 10              | 10.0%               | 104                | 0               | 0                   | 10              | 104                |  |  |  |  |
| Н        | 0                                | 0               | 10.0%               | 15                 | 0               | 0                   | 2               | 15                 |  |  |  |  |
| Н        | Dhansiri HEP                     | 10              | 10.0%               | 425                | 0               | 0                   | 43              | 425                |  |  |  |  |
| Г        | Setting up of a 200MW (CCGT)     | 10              | 10.0%               | 74                 | 0               | 0                   | 7               | 74                 |  |  |  |  |
| Г        | Borgolai                         | 10              | 10.0%               | 50                 | 0               | 0                   | 5               | 50                 |  |  |  |  |
|          | Revival of TPS                   | 10              | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |  |  |  |  |
|          | Development of Amguri            | 10              | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |  |  |  |  |
| Г        | EAP consulting service           | 10              | 10.0%               | 54                 | 0               | 0                   | 5               | 54                 |  |  |  |  |
| Г        | Golaghat                         | 10              | 10.0%               | 31325              | 0               | 0                   | 3133            | 31325              |  |  |  |  |
|          | Boundary wall of Jagiroad        | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Г        | Station heat Rate                | 10              | 10.0%               | 404                | 0               | 0                   | 40              | 404                |  |  |  |  |
|          | 0                                | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Г        | Solar NTPS                       | 10              | 10.0%               | 0                  | 2               | 0                   | 0               | 2                  |  |  |  |  |
| Г        | 0                                | 0               | 0.0%                | 57770              | 3260            | 0                   | 5789            | 61029              |  |  |  |  |
|          | Disaster                         | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
|          | Sub-total                        | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Γ        | 0                                | 0               | 10.0%               | 2317               | 126             | 0                   | 242             | 2444               |  |  |  |  |
| С        | II GOA -Loans (Source_ADB)       | 0               | 10.0%               | 39                 | 7               | 0                   | 4               | 46                 |  |  |  |  |
| Г        | LRPP                             | 0               | 10.0%               | 82                 | 58              | 0                   | 12              | 140                |  |  |  |  |
| Γ        | ADB Consultancy                  | 0               | 0.0%                | 2439               | 191             | 0                   | 258             | 2630               |  |  |  |  |
| Г        | Lower Kopili HEP                 | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
|          | Sub-total                        | 0               | 0.0%                | 0                  | 0               | 0                   | 7               | 0                  |  |  |  |  |
| D        | Other Interest & Finance Charge  | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| òos      | t of raising Finance / Bank Cha  | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
|          | Interest on Security Deposit     | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Г        | Penal Interest Charges           | 0               | 0.0%                | 0                  | 0               | 0                   | 7               | 0                  |  |  |  |  |
|          | Lease Rentals                    | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |
| Г        | Sub-total                        | 0               | 0.0%                | 98911              | 5578            | -4339               | 10522           | 100151             |  |  |  |  |
| Г        |                                  |                 |                     |                    |                 |                     |                 |                    |  |  |  |  |
|          | of Interest & Finance Charges (A | 0               | 0.0%                | 98911              | 5578            | -4339               | 6329            | 100151             |  |  |  |  |
| E        | printerest α rinance charges (η  | _               |                     |                    |                 |                     |                 |                    |  |  |  |  |
| _        | nterest & Finance Charges Cap    | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |  |  |

## ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

|          |                                   |        |                     |                    |                 |               | Form No:        | 24                 |
|----------|-----------------------------------|--------|---------------------|--------------------|-----------------|---------------|-----------------|--------------------|
| Г        |                                   | ·      |                     |                    | 201             | 9-20          |                 |                    |
| ı        |                                   | Loan   |                     |                    | Act             | tual          |                 |                    |
|          | Loan Details                      | Tenure |                     |                    |                 | Principal     |                 |                    |
|          | Loan Details                      | (yrs)  | Rate of<br>Interest | Opening<br>Balance | Amount received | repayme<br>nt | Interest<br>Due | Closing<br>Balance |
| H        |                                   |        |                     |                    |                 | III.          |                 |                    |
| H        |                                   |        |                     |                    |                 |               |                 |                    |
| Α        | Secured Loans                     | 0      | 10.1%               | 1460               | 0               | -834          | 105             | 626                |
| Ë        | I PFC Loans                       | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| H        | KLHEP                             | 15     | 12.0%               | 4430               | 0               | -1335         | 451             | 3095               |
| H        | NTPS(R&M)                         | 13     | 12.0%               | 30602              | 0               | -2169         | 3534            | 28433              |
| H        | LTPS(R&M)                         | 20     | 0.0%                | 36492              | 0               | -4339         | 4091            | 32153              |
| H        | NRPP                              | 15     | 0.0%                | 0                  | 0               | -4339         | 0               |                    |
| H        |                                   | 10     |                     |                    |                 |               | -               | 0                  |
| L        | Sub-total                         |        | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        |                                   |        | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| _        |                                   |        | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| В        | Unsecured Loans                   | 0      | 10.0%               | 10                 | 0               | 0             | 1               | 10                 |
| L        | I GOA -Loans                      | 0      | 10.0%               | 1737               | 0               | 0             | 174             | 1737               |
|          | Rural electrification             | 10     | 10.0%               | 886                | 0               | 0             | 89              | 886                |
|          | NRPP Ph-I                         | 10     | 10.0%               | 1975               | 0               | 0             | 198             | 1975               |
|          | LWHRP                             | 10     | 10.0%               | 4275               | 147             | 0             | 435             | 4423               |
| Г        | Lower Kopili HEP                  | 10     | 10.0%               | 4121               | 737             | 0             | 449             | 4858               |
| Г        | R&M NTPS                          | 10     | 10.0%               | 153                | 0               | 0             | 15              | 153                |
| Г        | R&M LTPS                          | 10     | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| H        | LRPP                              | 10     | 10.0%               | 400                | 0               | 0             | 40              | 400                |
| ⊢        | 0                                 | 0      | 10.0%               | 1165               | 0               | 0             | 117             | 1165               |
| H        | Lungnit SHEP                      | 10     | 10.0%               | 1805               | 0               | 0             | 181             | 1805               |
| H        |                                   |        |                     |                    |                 |               |                 |                    |
| L        | Myntriang SHEP                    | 10     | 10.0%               | 100                | 0               | 0             | 10              | 100                |
| L        | LTPS, Ph-II                       | 10     | 10.0%               | 70                 | 0               | 0             | 7               | 70                 |
| L        | Development of SHEP               | 10     | 10.0%               | 40                 | 0               | 0             | 4               | 40                 |
|          | Survey & Investigation of HEP     | 10     | 10.0%               | 11299              | 1645            | 0             | 1212            | 12944              |
| Ν        | on-Conventional source of ener    | 10     | 10.0%               | 215                | 0               | 0             | 22              | 215                |
|          | KLHEP                             | 10     | 10.0%               | 250                | 0               | 0             | 25              | 250                |
| Г        | KLHEP (upper)                     | 10     | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
|          | KLHEP (intermediate)              | 10     | 10.0%               | 104                | 0               | 0             | 10              | 104                |
|          | 0                                 | 0      | 10.0%               | 15                 | 0               | 0             | 2               | 15                 |
|          | Dhansiri HEP                      | 10     | 10.0%               | 425                | 0               | 0             | 43              | 425                |
| Г        | Setting up of a 200MW (CCGT)      | 10     | 10.0%               | 74                 | 0               | 0             | 7               | 74                 |
| H        | Borgolai                          | 10     | 10.0%               | 50                 | 0               | 0             | 5               | 50                 |
| H        | Revival of TPS                    | 10     | 10.0%               | 37                 | 0               | 0             | 4               | 37                 |
| H        | Development of Amguri             | 10     | 10.0%               | 37                 | 0               | 0             | 4               | 37                 |
| H        | ' '                               | 10     | <del> </del>        | 54                 | 0               | 0             | 5               | 54                 |
| H        | EAP consulting service            |        | 10.0%               | L                  |                 |               |                 |                    |
| L        | Golaghat                          | 10     | 10.0%               | 31325              | 0               | 0             | 3133            | 31325              |
| L        | Boundary wall of Jagiroad         | 10     | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Station heat Rate                 | 10     | 10.0%               | 404                | 0               | 0             | 40              | 404                |
| L        | 0                                 | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Solar NTPS                        | 10     | 10.0%               | 2                  | 0               | 0             | 0               | 2                  |
| L        | 0                                 | 0      | 0.0%                | 61029              | 2529            | 0             | 6229            | 63558              |
| Ĺ        | Disaster                          | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| Г        | Sub-total                         | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| Г        | 0                                 | 0      | 10.0%               | 2444               | 0               | 0             | 244             | 2444               |
| С        | II GOA -Loans (Source_ADB)        | 0      | 10.0%               | 46                 | 0               | 0             | 5               | 46                 |
| F        | LRPP                              | 0      | 10.0%               | 140                | 0               | 0             | 14              | 140                |
| Н        | ADB Consultancy                   | 0      | 0.0%                | 2630               | 0               | 0             | 263             | 2630               |
| $\vdash$ | Lower Kopili HEP                  | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| $\vdash$ | Sub-total                         | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| ᆫ        | other Interest & Finance Charge   | 0      | 0.0%                | 0                  | 0               | 0             | 0               |                    |
| _        | _                                 |        |                     |                    |                 |               |                 | 0                  |
| ,OS      | st of raising Finance / Bank Char | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Interest on Security Deposit      | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Penal Interest Charges            | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Lease Rentals                     | 0      | 0.0%                | 0                  | 0               | 0             | 0               | 0                  |
| L        | Sub-total                         | 0      | 0.0%                | 100151             | 2529            | -4339         | 10583           | 98341              |
|          |                                   |        |                     |                    |                 |               |                 |                    |
| <u></u>  | f Interest & Finance Charges (A   | 0      | 0                   | 100151             | 2529            | -4339         | 10583           | 98341              |
| ĮΕ       |                                   |        |                     |                    |                 |               |                 |                    |
| _        | nterest & Finance Charges Cap     | 0      | 0                   | 0                  | 0               | 0             | 0               | 0                  |

## ASSAM POWER GENERATION CORPORATION LIMITED KARBI LANGPI HYDRO ELECTRIC PROJECT

|          |   |                 |                     |                    |                 |                     | Form No:        | 24                 |
|----------|---|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------|--------------------|
| Γ        |   |                 |                     |                    |                 | 20-21               |                 |                    |
| 1        |   | Loan            |                     | 1                  | Ac              | tual                | 1               | 1                  |
|          | Loan Details  | Tenure<br>(yrs) | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest<br>Due | Closing<br>Balance |
| H        |   |                 |                     |                    |                 |                     |                 |                    |
| Α        | Secured Loans   | 0               | 10.1%               | 626                | 0               | -626                | 32              | 0                  |
|          | I PFC Loans   | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|          | KLHEP   | 15              | 12.0%               | 3095               | 0               | -1335               | 291             | 1760               |
|          | NTPS(R&M)   | 13              | 12.0%               | 28433              | 0               | -2169               | 3274            | 26263              |
| L        | LTPS(R&M)   | 20              | 0.0%                | 32153              | 0               | -4130               | 3597            | 28023              |
| L        | NRPP  | 15              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Sub-total   |                 | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|          |   |                 | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| В        | Unsecured Loans   | 0               | 0.0%<br>10.0%       | 10                 | 0               | 0                   | 1               | 10                 |
| ۲        | I GOA -Loans  | 0               | 10.0%               | 1737               | 0               | 0                   | 174             | 1737               |
| H        | Rural electrification   | 10              | 10.0%               | 886                | 0               | 0                   | 89              | 886                |
| F        | NRPP Ph-I   | 10              | 10.0%               | 1975               | 0               | 0                   | 198             | 1975               |
| Г        | LWHRP   | 10              | 10.0%               | 4423               | 190             | 0                   | 452             | 4612               |
| Г        | Lower Kopili HEP  | 10              | 10.0%               | 4858               | 710             | 0                   | 521             | 5568               |
|          | R&M NTPS  | 10              | 10.0%               | 153                | 0               | 0                   | 15              | 153                |
|          | R&M LTPS  | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|          | LRPP  | 10              | 10.0%               | 400                | 0               | 0                   | 40              | 400                |
|          | 0   | 0               | 10.0%               | 1165               | 0               | 0                   | 117             | 1165               |
| L        | Lungnit SHEP  | 10              | 10.0%               | 1805               | 0               | 0                   | 181             | 1805               |
|          | Myntriang SHEP  | 10              | 10.0%               | 100                | 0               | 0                   | 10              | 100                |
| L        | LTPS, Ph-II   | 10              | 10.0%               | 70                 | 0               | 0                   | 7               | 70                 |
| L        | Development of SHEP   | 10              | 10.0%               | 40                 | 0               | 0                   | 4 4 2 2 5       | 40                 |
| -        | Survey & Investigation of HEP on-Conventional source of energians | 10<br>10        | 10.0%               | 12944<br>215       | 210<br>0        | 0                   | 1305<br>22      | 13154<br>215       |
| -        | KLHEP   | 10              | 10.0%               | 250                | 0               | 0                   | 25              | 250                |
| ⊢        | KLHEP (upper)   | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H        | KLHEP (intermediate)  | 10              | 10.0%               | 104                | 0               | 0                   | 10              | 104                |
| H        | 0   | 0               | 10.0%               | 15                 | 0               | 0                   | 2               | 15                 |
| F        | Dhansiri HEP  | 10              | 10.0%               | 425                | 0               | 0                   | 43              | 425                |
| Г        | Setting up of a 200MW (CCGT)                                      | 10              | 10.0%               | 74                 | 0               | 0                   | 7               | 74                 |
|          | Borgolai  | 10              | 10.0%               | 50                 | 0               | 0                   | 5               | 50                 |
|          | Revival of TPS  | 10              | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |
|          | Development of Amguri   | 10              | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |
| L        | EAP consulting service  | 10              | 10.0%               | 54                 | 0               | 0                   | 5               | 54                 |
|          | Golaghat  | 10              | 10.0%               | 31325              | 0               | 0                   | 3133            | 31325              |
|          | Boundary wall of Jagiroad   | 10              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Station heat Rate   | 10              | 10.0%               | 404                | 0               | 0                   | 40              | 404                |
| $\vdash$ | 0<br>Solar NTDS   | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| $\vdash$ | Solar NTPS<br>0   | 10<br>0         | 10.0%               | 2<br>63558         | 0<br>1110       | 0                   | 0<br>6411       | 2 64668            |
| $\vdash$ | Disaster  | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 64668<br>0         |
| $\vdash$ | Sub-total   | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| $\vdash$ | 0<br>0  | 0               | 10.0%               | 2444               | 0               | 0                   | 244             | 2444               |
| С        | · ·   | 0               | 10.0%               | 46                 | 0               | 0                   | 5               | 46                 |
| É        | LRPP  | 0               | 10.0%               | 140                | 0               | 0                   | 14              | 140                |
| Т        | ADB Consultancy   | 0               | 0.0%                | 2630               | 0               | 0                   | 263             | 2630               |
|          | Lower Kopili HEP  | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|          | Sub-total   | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| _        | ther Interest & Finance Charge                                    | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| os       | st of raising Finance / Bank Char                                 | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Interest on Security Deposit                                      | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Penal Interest Charges  | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Lease Rentals   | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| L        | Sub-total   | 0               | 0.0%                | 98341              | 1110            | -4130               | 10272           | 95321              |
| F        | of Interest & Finance Charges (A                                  | 0               |                     | 00244              | 1110            | 4420                | 10070           | 05224              |
| _        | of Interest & Finance Charges (A<br>nterest & Finance Charges Cap | 0               | 0                   | 98341<br>0         | 1110<br>0       | -4130<br>0          | 10272<br>0      | 95321<br>0         |
| _        | al Of Interest & Finance Charges                                  | 0               | _                   | 0                  |                 |                     | 0               |                    |
| G        | pi Oi iiiterest & Finance Charge                                  | U               | 0                   | U                  | 0               | 0                   | U               | 0                  |

| _        |                                  |                         |
|----------|----------------------------------|-------------------------|
|          | Loan Details                     | Loan<br>Tenure<br>(yrs) |
|          |                                  |                         |
|          |                                  |                         |
| Α        | Secured Loans                    | 0                       |
|          | I PFC Loans                      | 0                       |
|          | KLHEP                            | 15                      |
|          | NTPS(R&M)                        | 13                      |
|          | LTPS(R&M)                        | 20                      |
| Г        | NRPP                             | 15                      |
|          | Sub-total                        |                         |
|          |                                  |                         |
|          |                                  |                         |
| В        | Unsecured Loans                  | 0                       |
| F        | I GOA -Loans                     | 0                       |
| ┢        | Rural electrification            | 10                      |
| ⊢        | NRPP Ph-I                        | 10                      |
| $\vdash$ | LWHRP                            | 10                      |
| $\vdash$ | Lower Kopili HEP                 | 10                      |
| ⊢        | R&M NTPS                         |                         |
| $\vdash$ |                                  | 10                      |
| $\vdash$ | R&M LTPS                         | 10                      |
| L        | LRPP                             | 10                      |
| L        | 0                                | 0                       |
| L        | Lungnit SHEP                     | 10                      |
| L        | Myntriang SHEP                   | 10                      |
| L        | LTPS, Ph-II                      | 10                      |
| L        | Development of SHEP              | 10                      |
| L        | Survey & Investigation of HEP    | 10                      |
| Ν        | on-Conventional source of energ  | 10                      |
| L        | KLHEP                            | 10                      |
| Ĺ        | KLHEP (upper)                    | 10                      |
|          | KLHEP (intermediate)             | 10                      |
|          | 0                                | 0                       |
| Ĺ        | Dhansiri HEP                     | 10                      |
| Г        | Setting up of a 200MW (CCGT)     | 10                      |
| Г        | Borgolai                         | 10                      |
|          | Revival of TPS                   | 10                      |
|          | Development of Amguri            | 10                      |
| Г        | EAP consulting service           | 10                      |
| ┢        | Golaghat                         | 10                      |
| ┢        | Boundary wall of Jagiroad        | 10                      |
| ┢        | Station heat Rate                | 10                      |
| ⊢        | 0                                | 0                       |
| ⊢        | Solar NTPS                       | 10                      |
| ⊢        | 0                                | 0                       |
| $\vdash$ | Disaster                         | 0                       |
| $\vdash$ |                                  |                         |
| $\vdash$ | Sub-total                        | 0                       |
| Ļ        | 0                                | 0                       |
| С        | II GOA -Loans (Source_ADB)       | 0                       |
| L        | LRPP                             | 0                       |
| L        | ADB Consultancy                  | 0                       |
| L        | Lower Kopili HEP                 | 0                       |
| L        | Sub-total                        | 0                       |
| _        | ther Interest & Finance Charge   | 0                       |
| os       | st of raising Finance / Bank Cha | 0                       |
| L        | Interest on Security Deposit     | 0                       |
| L        | Penal Interest Charges           | 0                       |
| L        | Lease Rentals                    | 0                       |
| Ĺ        | Sub-total                        | 0                       |
|          |                                  |                         |
| Ε        | of Interest & Finance Charges (A | 0                       |
| F        | nterest & Finance Charges Cap    | 0                       |
| G        | al Of Interest & Finance Charge  | 0                       |
| Ĺ        | ,                                |                         |

|    | Loan Details                     | Loan<br>Tenure<br>(yrs) |
|----|----------------------------------|-------------------------|
|    |                                  |                         |
| Α  | Secured Loans                    | 0                       |
|    | I PFC Loans                      | 0                       |
|    | KLHEP                            | 15                      |
|    | NTPS(R&M)                        | 13                      |
|    | LTPS(R&M)                        | 20                      |
|    | NRPP                             | 15                      |
|    | Sub-total                        |                         |
|    |                                  |                         |
|    |                                  |                         |
| В  | Unsecured Loans                  | 0                       |
| Ĺ  | I GOA -Loans                     | 0                       |
| Ĺ  | Rural electrification            | 10                      |
|    | NRPP Ph-I                        | 10                      |
|    | LWHRP                            | 10                      |
| Г  | Lower Kopili HEP                 | 10                      |
|    | R&M NTPS                         | 10                      |
|    | R&M LTPS                         | 10                      |
|    | LRPP                             | 10                      |
|    | 0                                | 0                       |
|    | Lungnit SHEP                     | 10                      |
|    | Myntriang SHEP                   | 10                      |
| Г  | LTPS, Ph-II                      | 10                      |
| Г  | Development of SHEP              | 10                      |
| Г  | Survey & Investigation of HEP    | 10                      |
| N  | on-Conventional source of ener   | 10                      |
| Г  | KLHEP                            | 10                      |
| Г  | KLHEP (upper)                    | 10                      |
| Г  | KLHEP (intermediate)             | 10                      |
|    | 0                                | 0                       |
|    | Dhansiri HEP                     | 10                      |
|    | Setting up of a 200MW (CCGT)     | 10                      |
|    | Borgolai                         | 10                      |
|    | Revival of TPS                   | 10                      |
|    | Development of Amguri            | 10                      |
|    | EAP consulting service           | 10                      |
|    | Golaghat                         | 10                      |
|    | Boundary wall of Jagiroad        | 10                      |
| Г  | Station heat Rate                | 10                      |
| Г  | 0                                | 0                       |
| Г  | Solar NTPS                       | 10                      |
|    | 0                                | 0                       |
|    | Disaster                         | 0                       |
|    | Sub-total                        | 0                       |
| Г  | 0                                | 0                       |
| С  | II GOA -Loans (Source_ADB)       | 0                       |
| Г  | LRPP                             | 0                       |
| Г  | ADB Consultancy                  | 0                       |
| Г  | Lower Kopili HEP                 | 0                       |
|    | Sub-total                        | 0                       |
| D  | other Interest & Finance Charge  | 0                       |
| os | t of raising Finance / Bank Char | 0                       |
|    | Interest on Security Deposit     | 0                       |
|    | Penal Interest Charges           | 0                       |
|    | Lease Rentals                    | 0                       |
| Г  | Sub-total                        | 0                       |
| Г  |                                  |                         |
| Ε  | of Interest & Finance Charges (A | 0                       |
| _  | nterest & Finance Charges Cap    | 0                       |
| G  | al Of Interest & Finance Charge  | 0                       |
| _  |                                  |                         |

| Name of Company:        | ASSAM POWER GENERATION CORPORATION LIMITED |
|-------------------------|--|
| Name of Plant/ Station: | KARBI LANGPI HYDRO ELECTRIC PROJECT        |

|   | Return on E   | quity     | Form No: F25 |           |           |  |  |
|---|---|-----------|--------------|-----------|-----------|--|--|
|   | Loon Dotoile  | I I m i 4 | 2019-20      | 2020-21   | 2021-22   |  |  |
|   | Loan Details  | Unit      | Actual       | Estimated | Projected |  |  |
| 1 | Equity (Opening Balance)  | Rs Cr.    | 68.65        | 68.65     | 68.65     |  |  |
| 2 | Add: Increase due to discharges during the year / period                | Rs Cr.    | 0            | 0.00      | 0.00      |  |  |
| 3 | Less: Decrease due to de-<br>capitalisation during the year /<br>period | Rs Cr.    | 0            | 0         | 0         |  |  |
| 4 | Less: Decrease due to reversal during the year / period                 | Rs Cr.    | 0            | 0         | 0         |  |  |
| 5 | Equity (Closing Balance)  | Rs Cr.    | 68.65        | 68.65     | 68.65     |  |  |
| 6 | Average Equity  | Rs Cr.    | 68.65        | 68.65     | 68.65     |  |  |
| 7 | Rate of Return on Equity  | %         | 15.50%       | 15.50%    | 15.50%    |  |  |
| 8 | Return on Equity  | Rs Cr.    | 10.64        | 10.64     | 10.64     |  |  |
|   |   |           |              |           |           |  |  |

| Name of Company:        | ASSAM POWER GENERATION CORPORATION LIMITED |
|-------------------------|--|
| Name of Plant/ Station: | KARBI LANGPI HYDRO ELECTRIC PROJECT        |

| Workin                          | nts                |                     | Form No:         | F26              |                |
|---------------------------------|--------------------|---------------------|------------------|------------------|----------------|
| Particula                       | ure .              | Unit                | 2019-20          | 2020-21          | 2021-22        |
| Faiticula                       | 115                | Oilit               | Actual           | Estimated        | Projected      |
| For Coal Based Generating       | g Stations         |                     |                  |                  |                |
| Cost of Coal for 1.5 months     | for pithead & 2    |                     |                  |                  |                |
| 1 months for non-pit head gen   |                    | Rs Cr.              |                  |                  |                |
| 2 Cost of Secondary Fuel Oil f  |                    | Rs Cr.              |                  |                  |                |
| 3 Maintenance Spares @ 20%      | of O&M             | Rs Cr.              |                  |                  |                |
| 4 O&M expenses for 1 month      |                    | Rs Cr.              |                  |                  |                |
| Receivables equivalent to 2     | months of capacity |                     |                  |                  |                |
| 5 and energy charge^            |                    | Rs Cr.              |                  |                  |                |
| Total Working Capital Req       | uirement           | Rs Cr.              |                  |                  |                |
| Rate of Interest #              |                    | %                   |                  |                  |                |
| Interest on Normative Wor       | king Capital       |                     |                  |                  |                |
| Requirement                     |                    | Rs Cr.              |                  |                  |                |
|                                 |                    |                     |                  |                  |                |
| For Open-cycle Gas Turbir       | -                  |                     |                  |                  |                |
| thermal generating station      |                    |                     |                  |                  |                |
| 1 Fuel expenses for 1 month *   |                    | Rs Cr.              |                  |                  |                |
| 2 Liquid fuel stock for 15 days | <b>t</b>           | Rs Cr.              |                  |                  |                |
| 3 Maintenance spares @ 30%      | of O&M             | Rs Cr.              |                  |                  |                |
| 4 O&M expenses for 1 month      |                    | Rs Cr.              |                  |                  |                |
| Receivables equivalent to 2     | months of capacity |                     |                  |                  |                |
| 5 and energy charge^            |                    | Rs Cr.              |                  |                  |                |
| Total Working Capital Req       | uirement           | Rs Cr.              |                  |                  |                |
| Rate of Interest #              |                    | %                   |                  |                  |                |
| Interest on Normative Wor       | king Capital       |                     |                  |                  |                |
| Requirement                     |                    | Rs Cr.              |                  |                  |                |
| For Hydro Generating stat       | ions               |                     |                  |                  |                |
| 1 O&M expenses for 1 month      |                    | Rs Cr.              | 2.40             | 2.53             | 2.69           |
| 2 Maintenance spares @ 15%      | of O&M             | Rs Cr.              | 8.64             | 9.10             | 9.68           |
| Receivables equivalent to 2     |                    | 1.00.               | 0.04             | 5.10             | 0.00           |
| 3 fixed charge                  |                    | Rs Cr.              | 11.51            | 12.99            | 15.1           |
| Total Working Capital Req       | uirement           | Rs Cr.              | 22.55            | 24.62            | 27.48          |
| Rate of Interest #              |                    | %                   | 10.00%           | 10%              | 10%            |
| Interest on Normative Wor       | king Capital       |                     | 10.0070          | . 5 76           | ,              |
| Requirement                     | J - 1              | Rs Cr.              | 2.26             | 2.46             | 2.7            |
| * corresponding to target ava   | ailability         |                     |                  |                  |                |
| ^ calculated on target availal  | •                  |                     |                  |                  |                |
| # shall be equal to theinteres  | <u> </u>           | ⊥<br>ate Bank of In | ndia hase rate a | s on 1st Anril o | f the respecti |

| Name o  | of Company:                            | ASSAM POWER GENERATION CORPORATION LIMITED  KARBI LANGPI HYDRO ELECTRIC PROJECT |           |           |           |           |  |
|---------|--|---|-----------|-----------|-----------|-----------|--|
| Name o  | of Plant/ Station:                     |   |           |           |           |           |  |
| Details | of Expenses Capitalised                |   | Form No:  | F 28      |           |           |  |
|         | i i                                    |   |           | (Rs Cr.)  |           |           |  |
|         |  | 2019-20   | 2020-21   | 2021-22   | 2020-21   | 2021-22   |  |
|         |  | Actual  | Estimated | Projected | Projected | Projected |  |
|         |  |   |           |           |           |           |  |
| 1       | Interest & Finance charges Capitalised |   |           |           |           |           |  |
| 2       | Employee expenses                      |   |           |           |           |           |  |
| 3       | A&G Expenses                           |   |           |           |           |           |  |
| 4       | Others, if any                         |   |           |           |           |           |  |
|         | Grand Total                            | 0.00  | 0.00      | 0.00      | 0.00      | 0.00      |  |

| Name  | of Company:  | POWER GENERATION CORPORATION |                 |             |  |  |  |
|-------|--|------------------------------|-----------------|-------------|--|--|--|
| Name  | of Plant/ Station:   | BI LANGPI                    | <b>HYDRO EL</b> | ECTRIC PRO  |  |  |  |
|       |  |                              |                 |             |  |  |  |
| Incon | ne Tax Provisions  |                              | F               | orm No: F29 |  |  |  |
|       |  |                              |                 | (Rs Cr.)    |  |  |  |
|       |  | 2019-20                      | 2020-21         | 2021-22     |  |  |  |
|       |  | Actual                       | Estimated       | Projected   |  |  |  |
| 1     | Income Tax on the Retun on Equity  |                              |                 |             |  |  |  |
| 2     | As Per Return Filed For The Year   | 0.23                         | 0.00            | 0.00        |  |  |  |
| 3     | As Assessed For The Year   |                              |                 |             |  |  |  |
| 4     | Credit/Debit Of Assessment Year(s) (Give Details)                              |                              |                 |             |  |  |  |
|       | Total  | 0.23                         | 0.00            | 0.00        |  |  |  |
| Note: | 'Income Tax Provisions' details which could not be pro                         | vided by the Ge              | neration Com    | pany at the |  |  |  |
|       | time of this filing shall be furnished as and when they become due/ available. |                              |                 |             |  |  |  |

|         |                                      |                   | IERATION COF         |                      |
|---------|--------------------------------------|-------------------|----------------------|----------------------|
| Name of | f Plant/ Station:                    | BI LANGPI         | HYDRO ELI            | ECTRIC PRO           |
| Non Tor |                                      |                   |                      |                      |
| Non-Tar | iff Income                           |                   |                      | (Po Cr               |
|         | <u> </u>                             | 0040.00           | 0000 04              | (Rs Cr.              |
| S. No.  | Particulars                          | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projected |
|         |                                      | Actual            | LStillated           | Frojected            |
|         | Income from Investment, Fixed        |                   |                      |                      |
| Α       | & Call Deposits                      |                   |                      |                      |
|         | Income from Investments:             |                   |                      |                      |
|         | Interest on securities               |                   |                      |                      |
|         | Interest on fixed deposits           | 14.08             |                      |                      |
|         | Income on other investments          | 1                 | 1                    |                      |
|         | Interest from Banks                  | 0.00              |                      |                      |
|         | Interest on (any other items)        | 0.00              |                      |                      |
|         | Sub-Total                            | 14.08             |                      |                      |
| В       | Other Non-Tariff Income              | 1                 | İ                    |                      |
|         | Interest on Loans and Advances       |                   | 1                    |                      |
|         | to staff                             |                   |                      |                      |
|         | Interest on Loans and Advances       |                   | 1                    |                      |
|         | to Licensee                          |                   |                      |                      |
|         | Interest on Loans and Advances       |                   | 1                    |                      |
|         | to Lessors                           |                   |                      |                      |
|         | Interest on Loans and Advances       |                   | j , ,,,              | F 75                 |
|         | to Suppliers/ Contractors            |                   | 5.75                 | 5.75                 |
|         | Income from trading                  | 0.00              | 1                    |                      |
|         | Gain on sale of Fixed Assets         |                   | 1                    |                      |
|         | Income/Fees /Collections against     |                   | 1                    |                      |
|         | staff welfare activities:            |                   |                      |                      |
|         | Miscellaneous Receipts:              | 1.64              | ]                    |                      |
|         | Delayed Payment charges from         | 0.9666362         |                      |                      |
|         | Beneficiaries                        | 0.9000302         |                      |                      |
|         | Net profit from UI charges           |                   |                      |                      |
|         | Penalty for contractor/ supplier for |                   |                      |                      |
|         | delay etc                            |                   | ]                    |                      |
|         | Misc Charges                         |                   | ]                    |                      |
|         | Sub-Total                            | 2.61              |                      |                      |
|         | One and Table                        | 40.00             | F 7-                 |                      |
|         | Grand Total                          | 16.69             | 5.75                 | 5.75                 |

REGULATORY FORMATS FOR ARR & TARIFF FILING BY GENERATION LICENSEE -LAKWA REPLACEMENT POWER PLANT

| Name of Company:        | ASSAM POWER GENERATION CORPORA | ATION LIMITED |
|-------------------------|--------------------------------|---------------|
| Name of Plant/ Station: | LAKWA REPLACEMENT POWE         | R PROJECT     |

|   | Annual Revenue Requirement Sumn  | nary                |            |                   | orm No:           |
|---|--|---------------------|------------|-------------------|-------------------|
|   |  | ····,               |            | Rs Cr.            |                   |
|   |  | Form                | 2019-20    | 2020-21           | 2021-22           |
|   |  | Form                | Actual     | Estimated         | Projected         |
| Α | Generation   |                     |            |                   |                   |
| 1 | Gross Generation (MU)  | F4                  | 504.20     | 519.40            | 519.40            |
| 2 | Aux Consumption (%)  | F4                  | 2.92%      | 2.92%             | 3.50%             |
| 3 | Net Generation (MU)  | F4                  | 489.48     | 504.22            | 501.22            |
| В | Capacity Charges (Annual Fixed Charges)  |                     |            |                   |                   |
| 1 | O&M expenses   |                     | 20.98      | 21.30             | 22.64             |
| а | Employee Expenses  | F21                 | 13.30      |                   |                   |
| b | R & M Expense  | F20                 | 6.64       |                   |                   |
| С | A&G Expense  | F22                 | 1.04       |                   |                   |
|   | Increase in AERC Tariff Filing Fees  |                     |            | 0.10              | 0.10              |
| 2 | Depreciation   | F23                 | 2.60       | 2.63              | 2.63              |
| 3 | Interest on Loans  | F14B                | 3.66       | 3.54              | 3.23              |
| 4 | Return on Equity   | F25                 | 2.37       | 2.44              | 2.44              |
| 5 | Interest on Working Capital  | F26                 | 3.72       | 3.05              | 2.89              |
| 6 | Income Tax   | F29                 | 0.32       | -                 | -                 |
| 7 | Prior Period items   |                     |            |                   |                   |
| 8 | Special allowance in lieu of R&M or separate compensation allowance            |                     |            |                   |                   |
| 9 | Other income   |                     |            |                   |                   |
|   | Capacity Building  |                     |            |                   |                   |
|   | Total  |                     | 33.65      | 33.07             | 33.94             |
| С | Variable Charges (Energy Charges)  |                     |            |                   |                   |
|   | Energy Charges from Primary Fuel (Rs Cr) C1, C2, C3, C4                        | F4                  | 95.13      | 67.40             | 58.37             |
|   | Energy Charges from Primary Fuel (Rs/ kWh)                                     | F4                  | 1.94       | 1.34              | 1.10              |
| _ | · · · · · · · · · · · · · · · · · · ·  |                     |            |                   |                   |
|   | C1 - If multifuel is used simultaneously, energy charges to be given in respec | t of every fuel inc | dividually |                   |                   |
|   | C2 - Energy charge shall be computed for open cycle operation and combine      |                     |            | se of gas/ liquid | fuel fired plants |

|       | of Company:  |                      |         | POWER GEN |             |          |          |          |  |
|-------|--|----------------------|---------|-----------|-------------|----------|----------|----------|--|
| ame d | of Plant/ Station:   |                      | LAK     | WA REPLA  | CEMENT P    | OWER PRO | OJECT    |          |  |
| ont C | haratariating Thormal  |                      |         |           |             |          | Form No. | E2a      |  |
| ant C | harateristics-Thermal  |                      |         |           |             |          | 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)   | 9.97                 | 9.97    | 9.97      | 9.97        | 9.97     | 9.97     | 9.97     |  |
|       | Schedule COD as per Investment Approval                                      |                      |         |           |             |          |          |          |  |
|       | Actual COD /Date of Taken Over (as applicable)                               |                      |         |           | 26-04-2018  |          |          |          |  |
|       | 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 <sup>1</sup> .            | 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) <sup>1</sup> Main Steam flow at Turbine inlet under MCR                 |                      |         |           | N/A         |          |          |          |  |
|       | condition (tons /hr) <sup>2</sup>  |                      |         |           | N/A         |          |          |          |  |
|       | Main Steam flow at Turbine inlet under VWO condition (tons /hr) <sup>2</sup> |                      |         |           | N/A         |          |          |          |  |
|       | Unit Gross electrical output under MCR /Rated                                | 9.97                 | 0.07    | 0.07      | 9.97        | 0.07     | 0.07     | 9.97     |  |
|       | condition (MW) <sup>2</sup>  | 9.97                 | 9.97    | 9.97      | 9.97        | 9.97     | 9.97     | 9.97     |  |
|       | Unit Gross electrical output under VWO condition (MW) <sup>2</sup>           | 9.97                 | 9.97    | 9.97      | 9.97        | 9.97     | 9.97     | 9.97     |  |
|       | Guaranteed Design Gross Engine Heat Rate on                                  | 4070                 | 4070    | 4070      | 4070        | 4070     | 4070     | 4070     |  |
|       | NCV (kCal/kWh) <sup>3</sup>  | 1873                 | 1873    | 1873      | 1873        | 1873     | 1873     | 1873     |  |
|       | Conditions on which design turbine cycle heat                                | NCV                  | NCV     | NCV       | NCV         | NCV      | NCV      | NCV      |  |
|       | rate guaranteed % MCR  |                      |         |           |             |          |          |          |  |
|       | % Makeup Water Consumption   |                      |         |           | NI/A        | !        | 1        |          |  |
|       | Design Capacity of Make up Water System                                      |                      |         |           | N/A         |          |          |          |  |
|       | 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)  |                      |         |           | N/A         |          |          |          |  |
|       | Steam Temperature at Reheater outlet at                                      |                      |         |           | 19/75       |          |          |          |  |
|       | BMCR condition (0C)  |                      |         |           |             |          |          |          |  |
|       | Design / Guaranteed Boiler Efficiency (%) <sup>4</sup>                       |                      |         |           |             |          |          |          |  |
|       | Design Fuel with and without Blending of                                     |                      |         |           |             |          |          |          |  |
|       | domestic/imported coal Type of Cooling Tower                                 |                      |         |           |             |          |          |          |  |
|       | Type of cooling rower  Type of cooling system5                               |                      |         |           |             |          |          |          |  |
|       | Type of Boiler Feed Pump6  |                      |         |           |             |          |          |          |  |
|       | Fuel Details7  |                      |         |           |             |          |          |          |  |
|       | -Primary Fuel  |                      | •       | •         | Natural gas | •        | •        |          |  |
|       | -Secondary Fuel  |                      |         |           | N/A         |          |          |          |  |
|       | -Alternate Fuels   |                      |         |           | N/A         |          |          |          |  |
|       | Special Features/ Site Specific Features <sup>8</sup>                        |                      |         | MAKEL     | JP WATER S  | SYSTEM   |          |          |  |
|       | Special Technological Features <sup>9</sup>                                  |                      |         |           | N/A         |          |          |          |  |
|       | Environmental Regulation related features <sup>10</sup>                      |                      |         |           |             |          |          |          |  |
|       | Any other special features   |                      |         | •         |             |          | ·        |          |  |
|       |  |                      |         |           |             |          |          |          |  |

| Name of Company:        | <b>ASSAM POWER GENERATION CORPO</b> | RATION LIMITED |
|-------------------------|-------------------------------------|----------------|
| Name of Plant/ Station: | LAKWA REPLACEMENT POW               | ER PROJECT     |

|    | Particulars   | Unit      | 2019-20  | 2020-21   | 2021-22   |
|----|---|-----------|----------|-----------|-----------|
|    |   |           | Actual   | Estimated | Projected |
|    |   |           |          |           |           |
| 1  | Base Rate of Return on Equity                         | %         | 15.50    | 15.50     | 15.50     |
| 2  | Target Availability                                   | %         | 85.00%   | 85.00%    | 85.00%    |
| 3  | Auxiliary Energy Consumption                          | %         | 3.50%    | 3.50%     | 3.50%     |
| 4  | Gross Station Heat Rate                               | kCal/ kWh | 2150     | 2150      | 2150      |
| 5  | Specific Fuel Oil Consumption ml/kWh                  | ml/ kWh   |          |           |           |
| 6  | Cost of Coal/ Lignite                                 | Rs/ Ton   |          |           |           |
| 7  | Cost of Main Secondary Fuel Oil                       | Rs/ kL    |          |           |           |
| 8  | Cost of Gas   | Rs/ SCM   | 8.26     | 5.78      | 4.92      |
| 9  | Primary Fuel (Coal/ Lignite/ Gas) for Working Capital | in Months |          |           |           |
| 10 | Secondary Fuel for Working Capital                    | in Months |          |           |           |
| 11 | O&M Expenses  | Rs/ MW    |          |           |           |
| 12 | Maintenance Spares for Working Capital                | % of O&M  | 30       | 30        | 30        |
| 13 | Receivebles for Working Capital                       | in Months | 2 months | 2 months  | 2 months  |
| 14 | Base Rate of SBI as on01-04-2018                      | %         | 10.00%   | 10.00%    | 10.00%    |

|     | ne of Company:  |                                | ION LIMITED       |                      |                      |  |
|-----|---|--------------------------------|-------------------|----------------------|----------------------|--|
| ۱an | ne of Plant/ Station:   | LAKWA REPLACEMENT POWER PROJEC |                   |                      |                      |  |
|     | Generation Details and Va   | riable Cost                    |                   |                      | Form No:             |  |
|     | Soliciation Botails and va  | riable dost                    |                   |                      | omi No.              |  |
|     | Particulars   | Unit                           | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projected |  |
| 1   | Installed Capacity  | MW                             | 69.76             | 69.76                | 69.76                |  |
| 2   | Plant Load Factor   | %                              | 82.78%            | 82.73%               | 90.00%               |  |
| 3   | Gross Generation  | MU                             | 504.20            | 519.40               | 519.40               |  |
| 4   | Auxiliary Consumption   | %                              | 2.92%             | 2.92%                | 3.50%                |  |
| 5   | Auxiliary Consumption   | MU                             | 14.72             | 15.18                | 18.18                |  |
| 6   | Net Generation  | MU                             | 489.48            | 504.224              | 501.221              |  |
| 7   | Station Heat Rate   | kCal/ kWh                      | 2144              | 2153                 | 2150                 |  |
|     | Primary Fuel Consumption (Coal/ Lignite)  | 1                              |                   |                      |                      |  |
| 8   | GCV of Coal/ Lignite  | kCal/ kg                       |                   |                      |                      |  |
| 9   | Quantity of Coal/ Lignite (Fired)   | MT                             |                   |                      |                      |  |
| 10  | Specific Coal Consumption (Fired)   | kg/ kWh                        |                   |                      |                      |  |
|     | Transit Loss  | MT                             |                   |                      |                      |  |
| 12  | Transit Loss  | %                              |                   |                      |                      |  |
| 13  | Gross Quantity of Coal (Purchased)  | MT                             |                   |                      |                      |  |
|     | Rate of Coal/ Lignite   | Rs/ Ton                        |                   |                      |                      |  |
|     | Cost of Coal/ Lignite   | Rs Cr.                         |                   |                      |                      |  |
|     | Primary Fuel Consumption (Gas/ LNG/ Liquid)                                       |                                |                   |                      |                      |  |
| 16  | GCV of Gas/ LNG/ Liquid Fuel  | kCal/ SCM                      | 9388.83           | 9419.27              | 9419.27              |  |
|     | Quantity of Gas/ LNG/ Liquid Fuel   | MMSCM                          | 115.46            | 118.72               | 118.56               |  |
|     | Specific Fuel Consumption   | SCM/ kWh                       | 0.23              | 0.23                 | 0.23                 |  |
|     |   |                                |                   |                      |                      |  |
|     | Rate of Gas/ LNG/ Liquid Fuel   | Rs/ SCM                        | 8.26              | 5.78                 | 4.92                 |  |
| 20  | Cost of Gas/ LNG/ Liquid Fuel   | Rs Cr.                         | 95.13             | 67.40                | 58.37                |  |
|     | Secondary Fuel Oil Consumption  |                                |                   |                      |                      |  |
|     | GCV of Secondary Fuel Oil   | kCal/ kL                       |                   |                      |                      |  |
|     | Quantity of Secondary Fuel Oil  | kL                             |                   |                      |                      |  |
| 23  | Specific Secondary Fuel Oil Consumption   | ml/ kWh                        |                   |                      |                      |  |
| 24  | Rate of Secondary Fuel Oil  | Rs/ kL                         |                   |                      |                      |  |
| 25  | Cost of Secondary Fuel Oil  | Rs Cr.                         |                   |                      |                      |  |
|     | Primary Fuel Cost (Coal/ Lignite)   | Rs Cr.                         |                   |                      |                      |  |
|     | Primary Fuel Cost (Gas/ LNG/ Liquid)  | Rs Cr.                         | 95.13             | 67.40                | 58.37                |  |
|     | Secondary Fuel Cost   | Rs Cr.                         |                   |                      |                      |  |
| С   | Variable Charges (Energy Charges)   | 1                              |                   |                      |                      |  |
|     | Energy Charges (Energy Charges)  Energy Charges from Primary Fuel (Coal/ Lignite) | Rs/ kWh                        |                   | 1                    |                      |  |
|     | Energy Charges from Primary Fuel (Gas/ LNG/ Liquid)                               | Rs/ kWh                        | 1.94              | 1.34                 | 1.16                 |  |
|     | Linergy Charges from Filmary Fuel (Gas/ Ling/ Liquid)                             | I/2/ KAAII                     | 1.94              | 1.34                 | 1.10                 |  |

# ASSAM POWER GENERATION CORPORATION LIN LAKWA REPLACEMENT POWER PROJECT

Form No: E5

|   | Abstract of admitted Capital Cost for the existing r   | FORM NO: F5 |         |  |  |  |  |  |  |
|---|--|-------------|---------|--|--|--|--|--|--|
|   | Particulars  | Unit        | Details |  |  |  |  |  |  |
|   | Last date of order of Commission for the project as per Order dated 01.03.2020   |             |         |  |  |  |  |  |  |
| 1 | Capital Cost as admitted by AERC   | Rs Cr.      | 255.33  |  |  |  |  |  |  |
| 2 | Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)  | Rs Cr.      | 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 Cr.      | NIL     |  |  |  |  |  |  |
| 4 | Gross Normative Debt   | Rs Cr.      | 34.323  |  |  |  |  |  |  |
| 5 | Cumulative Repayment   | Rs Cr.      | NIL     |  |  |  |  |  |  |
| 6 | Net Normative Debt   | Rs Cr.      | 34.32   |  |  |  |  |  |  |
| 7 | Normative Equity   | Rs Cr.      | 14.707  |  |  |  |  |  |  |
| 8 | Cumulative Depreciation  | Rs Cr.      | NIL     |  |  |  |  |  |  |
| 9 | Freehold land  | Rs Cr.      | NIL     |  |  |  |  |  |  |

Abstract of admitted Capital Cost for the existing Project

# ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

### Statement showing claimed capital cost

Form No:

| Particulars                                       | Unit   | 2019-20 | 2020-21 | 2021-22 |
|---|--------|---------|---------|---------|
| 1 Opening Capital Cost                            | Rs Cr. | 257.68  | 268.41  | 268.41  |
| 2 Add: Addition during the year / period          | Rs Cr. | 10.73   | 0.00    | 0.00    |
| 3 Less: Decapitalisation during the year / period | Rs Cr. |         |         |         |
| 4 Less: Reversal during the year / period         | Rs Cr. | 0       | 0       | 0       |
| 5 Add: Discharges during the year / period        | Rs Cr. | 0       | 0       | 0       |
| 6 Closing Capital Cost                            | Rs Cr. | 268.41  | 268.41  | 268.41  |
| 7 Average Capital Cost                            | Rs Cr. | 263.04  | 268.41  | 268.41  |

## ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

| De  | etails of Project Spe | cific Loans |           |           | Form No:  | F13       |
|---|-----------------------|-------------|-----------|-----------|-----------|-----------|
|   |                       |             |           |           |           | Rs Cr.    |
| Particulars   | Package 1             | Package 2   | Package 3 | Package 4 | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>   | GOA Loan              |             |           |           |           |           |
| Currency <sup>2</sup>   | INR                   |             |           |           |           |           |
| Amount of Loan sanctioned   | 270.8                 |             |           |           |           |           |
| Amount of Gross Loan drawn upto 31.03.2016 COD <sup>3,4,5,13,15</sup> | 268.7                 |             |           |           |           |           |
| Interest Type <sup>6</sup>  | FIXED                 |             |           |           |           |           |
| Fixed Interest Rate, if applicable                                    | 10%                   |             |           |           |           |           |
| Base Rate, if Floating Interest <sup>7</sup>                          |                       |             |           |           |           |           |
| Margin, if Floating Interest <sup>8</sup>                             | Yes/No                | Yes/No      | Yes/No    | Yes/No    | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>                                 |                       |             |           |           |           |           |
| If above is yes, specify caps/floor                                   |                       |             |           |           |           |           |
| Moratorium Period <sup>10</sup>                                       |                       |             |           |           |           |           |
| Moratorium effective from   |                       |             |           |           |           |           |
| Repayment Period <sup>11</sup>  |                       |             |           |           |           |           |
| Repayment effective from  |                       |             |           |           |           |           |
| Repayment Frequency <sup>12</sup>                                     |                       |             |           |           |           |           |
| Repayment Instalment 13,14  |                       |             |           |           |           |           |
| Base Exchange Rate <sup>16</sup>                                      |                       |             |           |           |           |           |
| Are foreign currency loan hedged?                                     |                       |             |           |           |           |           |
| If above is yes,specify details <sup>17</sup>                         |                       |             |           |           |           |           |

#### Note:

Petitioner

<sup>&</sup>lt;sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

<sup>&</sup>lt;sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given seperately

<sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of heging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>20</sup> 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.

| me of Company:<br>me of Plant/ Station:  | SSAM POWER GENERATION CORPORATION LIM  LAKWA REPLACEMENT POWER PROJECT |           |           |  |  |
|--|--|-----------|-----------|--|--|
|  |  |           | Form No:  |  |  |
| Particulars  | 2019-20  | 2020-21   | 2021-22   |  |  |
| Particulars  | Actual   | Estimated | Projected |  |  |
| Loan-1 from PFCL   |  |           |           |  |  |
| Gross loan - Opening   |  |           |           |  |  |
| Cumulative repayments of Loans upto previous year  |  |           |           |  |  |
| Net loan - Opening   | 387.03   | 364.92    | 321.53    |  |  |
| Add: Drawal(s) during the Year   | 21.28  | 0.00      | 0.00      |  |  |
| Less: Repayment (s) of Loans during the year   | 43.39  | 43.39     | 41.30     |  |  |
| Net loan - Closing   | 364.92   | 321.53    | 280.23    |  |  |
| Average Net Loan   | 375.97   | 343.23    | 300.88    |  |  |
| Rate of Interest on Loan on annual basis   | 11.54%   | 11.21%    | 11.19%    |  |  |
| Interest on loan   | 44.68  | 40.91     | 35.97     |  |  |
| Loan- Loan from Govt. of Assam   |  |           |           |  |  |
| Gross loan - Opening   |  |           |           |  |  |
| Cumulative repayments of Loans upto previous year  |  |           |           |  |  |
| Net loan - Opening   | 239.80   | 271.48    | 318.46    |  |  |
| Add: Drawal(s) during the Year   | 9.98   | 25.29     | 11.10     |  |  |
| Less: Repayment (s) of Loans during the year   | -21.69   | -21.69    | -21.69    |  |  |
| Net loan - Closing   | 271.48   | 318.46    | 351.25    |  |  |
| Average Net Loan   | 255.64   | 294.97    | 334.85    |  |  |
| Rate of Interest on Loan on annual basis   | 7.61%  | 8.73%     | 8.82%     |  |  |
| Interest on loan   | 18.25  | 23.71     | 28.09     |  |  |
| Total Loan   |  |           |           |  |  |
| Gross loan - Opening   |  |           |           |  |  |
| Cumulative repayments of Loans upto previous year  |  |           |           |  |  |
| Net loan - Opening   | 626.83   | 636.40    | 639.99    |  |  |
| Add: Drawal(s) during the Year   | 31.26  | 25.29     | 11.10     |  |  |
| Less: Repayment (s) of Loans during the year   | 21.69  | 21.69     | 19.61     |  |  |
| Net loan - Closing   | 636.40   | 639.99    | 631.48    |  |  |
| Average Net Loan   | 631.61   | 638.19    | 635.74    |  |  |
| Interest on loan   | 62.93  | 64.62     | 64.06     |  |  |
| Weighted average Rate of Interest on Loans   | 10.04%   | 10.15%    | 10.01%    |  |  |
| Note:  1.In case of Foreign Loans, the calculations in Indian F the calculations in Original currency is also to be furnis | •  |           |           |  |  |

|       | e of Company:<br>e of Plant/ Station:                             | ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT |           |           |  |  |  |
|-------|---|--|-----------|-----------|--|--|--|
|       | Calculation of Interest o   | n Normative Loan   |           | Form No:  |  |  |  |
|       |   |  | Rs Cr.    |           |  |  |  |
| c Na  | Particulars   | 2019-20  | 2020-21   | 2021-22   |  |  |  |
| S. No | Particulars   | Actual   | Estimated | Projected |  |  |  |
|       |   |  |           |           |  |  |  |
| 1     | Gross Normative Ioan – Opening                                    |  |           |           |  |  |  |
|       | Cumulative repayment of Normative loan                            |  |           |           |  |  |  |
| 2     | upto previous year  |  |           |           |  |  |  |
| 3     | Net Normative Ioan – Opening                                      | 36.71  | 36.21     | 33.57     |  |  |  |
| 4     | Add: Increase due to addition during the year / period            | 2.10   | 0.00      | 0.00      |  |  |  |
| 5     | Less: Decrease due to de-capitalisation during the year / period  |  |           |           |  |  |  |
| 6     | Less: Decrease due to reversal/repayment during the year / period | 2.60   | 2.63      | 2.63      |  |  |  |
| 7     | Add: Increase due to discharges during the year / period          |  |           |           |  |  |  |
| 8     | Net Normative Ioan - Closing                                      | 36.21  | 33.57     | 30.94     |  |  |  |
| 9     | Average Normative loan  | 36.46  | 34.89     | 32.26     |  |  |  |
| 10    | Weighted average rate of interest                                 | 10.04%   | 10.15%    | 10.01%    |  |  |  |
| 11    | Interest on Loan  | 3.66   | 3.54      | 3.23      |  |  |  |
| 12    | Bank charges  | 0.00   | 0.00      | 0.00      |  |  |  |
| 13    | Interest on Loan plus bank charges                                | 3.66   | 3.54      | 3.23      |  |  |  |

# ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

| Details of Alloca                             | tion of corporate | loans to vario | us projects |           | Form No:  | F15       |
|---|-------------------|----------------|-------------|-----------|-----------|-----------|
|   |                   |                |             |           |           | Rs Cr.    |
| Particulars                                   | Package 1         | Package 2      | Package 3   | Package 4 | Package 5 | Package 6 |
| Source of Loan <sup>1</sup>                   |                   |                |             |           |           |           |
| Currency <sup>2</sup>                         |                   |                |             |           |           |           |
| Amount of Loan sanctioned                     |                   |                |             |           |           |           |
| Amount of Gross Loan drawn upto               |                   |                |             |           |           |           |
| 31.03.2016/ COD 3,4,5,13,15                   |                   |                |             |           |           |           |
| Interest Type <sup>6</sup>                    |                   |                |             |           |           |           |
| Fixed Interest Rate, if applicable            |                   |                |             |           |           |           |
| Base Rate, if Floating Interest <sup>7</sup>  |                   |                |             |           |           |           |
| Margin, if Floating Interest <sup>8</sup>     | Yes/No            | Yes/No         | Yes/No      | Yes/No    | Yes/No    | Yes/No    |
| Are there any Caps/Floor <sup>9</sup>         |                   |                |             |           |           |           |
| If above is yes,specify caps/floor            |                   |                |             |           |           |           |
| Moratorium Period <sup>10</sup>               |                   |                |             |           |           |           |
| Moratorium effective from                     |                   |                |             |           |           |           |
| Repayment Period <sup>11</sup>                |                   |                |             |           |           |           |
| Repayment effective from                      |                   |                |             |           |           |           |
| Repayment Frequency <sup>12</sup>             |                   |                |             |           |           |           |
| Repayment Instalment <sup>13,14</sup>         |                   |                |             |           |           |           |
| Base Exchange Rate <sup>16</sup>              |                   |                |             |           |           |           |
| Are foreign currency loan hedged?             |                   |                |             |           |           |           |
| If above is yes,specify details <sup>17</sup> |                   |                |             |           |           |           |

| Distribution of loan packages to various projects |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Name of the Projects Total                        |  |  |  |  |  |  |  |
| Project 1   |  |  |  |  |  |  |  |
| Project 2   |  |  |  |  |  |  |  |
| Project 3 and so on                               |  |  |  |  |  |  |  |

#### Note:

<sup>&</sup>lt;sup>1</sup> Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

<sup>&</sup>lt;sup>2</sup> Currency refers to currency of loan such as US\$, DM, Yen,Indian Rupee etc.

<sup>&</sup>lt;sup>3</sup> Details are to be submitted as on 31.03.2015 for existing assets and as on COD for the remaining assets.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> 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

<sup>&</sup>lt;sup>6</sup> Interest type means whether the interest is fixed or floating.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Margin means the points over and above the floating rate.

<sup>&</sup>lt;sup>9</sup> At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

<sup>&</sup>lt;sup>10</sup> Moratorium period refers to the period during which loan servicing liability is not required.

<sup>&</sup>lt;sup>11</sup> Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

<sup>&</sup>lt;sup>12</sup> Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual,

<sup>&</sup>lt;sup>13</sup> Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayement may also be given

<sup>&</sup>lt;sup>14</sup> If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment

<sup>&</sup>lt;sup>15</sup> In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

<sup>&</sup>lt;sup>16</sup> Base exchange rate means the exchange rate prevailing as on 31.03.2015 for existing assets and as on COD for the remaining

<sup>&</sup>lt;sup>17</sup> In case of hedging, specify details like type of hedging, period of hedging, cost of hegging, etc.

<sup>&</sup>lt;sup>18</sup>In case of foreign loans, provide details of exchange rate considered on date of each repayment of principal and date of interest payment.

<sup>&</sup>lt;sup>19</sup> At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately.

<sup>&</sup>lt;sup>20</sup> 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:
Name of Plant/ Station:

# ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

|    | Statement of Add                      | Form No: | F16     |         |                                 |               |                                    |
|----|---------------------------------------|----------|---------|---------|---------------------------------|---------------|------------------------------------|
|    |                                       | Rs Cr.   |         |         |                                 |               |                                    |
| No | Head of Work/ Equipment               |          |         |         | Regulations under which claimed | Justification | Admitted Cost by Commission if any |
|    |                                       | 2019-20  | 2020-21 | 2021-22 |                                 |               |                                    |
| 1  | Land                                  | 0        | 0       | 0       |                                 |               |                                    |
| 2  | Building                              | 0        | 0       | 0       |                                 |               |                                    |
| 3  | Hydraulic works                       | 0        | 0       | 0       |                                 |               |                                    |
| 4  | Other civil works                     | 0        | 0       | 0       |                                 |               |                                    |
| 5  | Plant & machinery- Gas                | 11       | 0       | 0       |                                 |               |                                    |
| 6  | Plant & machinery- Hydel              | 0        | 0       | 0       |                                 |               |                                    |
| 7  | Lines & cables                        | 0        | 0       | 0       |                                 |               |                                    |
| 8  | Vehicle                               | 0        | 0       | 0       |                                 |               |                                    |
| 9  | Furniture                             | 0        | 0       | 0       |                                 |               |                                    |
| 10 | Other office equipment                | 0        | 0       | 0       |                                 |               |                                    |
| 11 | Roads on land belonging to others     | 0        | 0       | 0       |                                 |               |                                    |
| 12 | Capital spares at Generating Stations | 0        | 0       | 0       |                                 |               |                                    |
|    | Total                                 | 11       | 0       | 0       |                                 |               |                                    |

#### 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

Petitioner

|    | e of Company:<br>e of Plant/ Station:           | ASSAM POWER G |                  |                           |
|----|---|---------------|------------------|---------------------------|
|    | R&M Ex  | penses        |                  | Form No:                  |
|    |   |               | Rs Cr.           |                           |
|    | Particulars                                     | 2019-20       | 2020-21          | 2021-22                   |
|    | Faiticulais                                     | Actual        | Estimated        | Projected                 |
| 1  | Plant and Machinery                             | 6.64          |                  |                           |
| 2  | Building  | -             |                  |                           |
| 3  | Civil Works                                     | -             |                  |                           |
| 4  | Hydraulic Works                                 | -             |                  |                           |
| 5  | Lines, Cables Net Works etc.                    | -             |                  |                           |
| 6  | Vehicles  | -             | Consolidated O&M | Consolidated O&M approved |
| 7  | Furniture and Fixtures                          | -             | approved for the |                           |
| 8  | Office Equipments                               | -             | year             | for the year              |
| 9  | Station Supplies                                | -             |                  |                           |
| 10 | Lubricants & Consumable stores                  | -             |                  |                           |
| 11 | Oil/Turbine Oil consumed in internal combustion | -             |                  |                           |
| 12 | Any other items (Spl R&M)                       | -             |                  |                           |

6.64

Total

| Name of Company:        | <b>ASSAM POWER GENERATION CORPOR</b> | RATION LIMITED |
|-------------------------|--------------------------------------|----------------|
| Name of Plant/ Station: | LAKWA REPLACEMENT POW                | ER PROJECT     |

|    | Employee Expenses                                 |         | Form No:                      |                              |
|----|---|---------|-------------------------------|------------------------------|
|    |   | Rs Cr.  |                               |                              |
|    | Particulars                                       | 2019-20 | 2020-21                       | 2021-22                      |
|    | Particulars                                       | Actual  | Estimated                     | Projected                    |
| 1  | Salaries  | 8.57    |                               |                              |
| 2  | Additional Pay                                    | ı       |                               |                              |
| 3  | Dearness Allowance (DA)                           | 1.48    |                               |                              |
| 4  | Other Allowances & Relief                         | 1.39    |                               |                              |
| 5  | Addl. Pay & C.Off Encashment                      |         |                               |                              |
| 6  | Interim Relief / Wage Revision                    | -       |                               |                              |
| 7  | Overtime  | 0.40    |                               | Consolidated<br>O&M approved |
| 8  | Bonus To Employees                                | 0.01    |                               |                              |
| 9  | Medical Expenses Reimbursement                    | 0.02    |                               |                              |
| 10 | Travelling Allowance(Conveyance Allowance)        | ı       |                               |                              |
| 11 | Leave Travel Assistance                           | 0.00    |                               |                              |
| 12 | Earned Leave Encashment                           |         | Consolidated O&M approved for |                              |
| 13 | Payment Under Workman's Compensation And Gratuity | -       | the year                      | for the year                 |
| 14 | Subsidised Electricity To Employees               | ı       | and your                      | let alle year                |
| 15 | Any Other Item                                    | ı       |                               |                              |
| 16 | Staff Welfare Expenses                            | -       |                               |                              |
| 17 | Capacity Building Expenses                        | -       |                               |                              |
| 18 | Apprentice And Other Training Expenses            | ı       |                               |                              |
| 19 | Contribution To Terminal Benefits                 | 1.44    |                               |                              |
| 20 | Provident Fund Contribution                       | -       |                               |                              |
| 21 | Provision for PF Fund                             | -       |                               |                              |
| 22 | Any Other Items(Revision of Pay @ 24% of Salary)  | 0.00    |                               |                              |
|    | Total Employee Costs                              | 13.30   |                               |                              |
| 23 | Less: Employee expenses capitalised               | 0.00    |                               |                              |
|    | Net Employee expenses (D)-(E)                     | 13.30   | 13.88                         | 0.00                         |

|               | ne of Company:<br>ne of Plant/ Station:                      | AM POWER GE |                       |                       |
|---------------|--|-------------|-----------------------|-----------------------|
|               | Administration & General Expenses                            |             |                       | Form No:              |
|               |  |             | Rs Cr.                |                       |
|               | Particulars  | 2019-20     | 2020-21               | 2021-22               |
|               | raiticulais  | Actual      | Estimated             | Projected             |
| 1             | Lease/ Rent  | -           |                       |                       |
| 2             | Insurance  | 0.10        |                       |                       |
| 3             | Revenue Stamp Expenses Account                               | -           |                       |                       |
| 4             | Telephone, Postage, Telegram & Telex Charges                 | 0.03        |                       |                       |
| 5             | Incentive & Award To Employees/Outsiders                     | -           |                       |                       |
| 6             | Consultancy Charges  | -           |                       |                       |
| 7             | Technical Fees   | -           |                       |                       |
| 8             | Other Professional Charges                                   | -           |                       |                       |
| 9             | Conveyance And Travelling                                    | 0.10        |                       |                       |
|               | License and Registration Fees                                | -           |                       |                       |
|               | Vehicle Expenses   | 0.19        | 9                     |                       |
|               | Security / Service Charges Paid To Outside Agencies          | -           |                       |                       |
|               | Fee And Subscriptions Books And Periodicals                  | -           |                       |                       |
| 14            | Fees Paid to AERC  | 0.32        |                       |                       |
| 15            | Printing And Stationery                                      | 0.03        |                       |                       |
| $\neg$        | Advertisement Expenses                                       | 0.06        |                       |                       |
| -             | Contributions/Donations To Outside Institutes / Associations | 0.04        | Consolidated          | Consolidated          |
| 18            | Electricity Charges To Offices                               | -           | O&M                   | O&M                   |
| _             | Water Charges  | 0.00        | approved for the year | approved for the year |
| _             | Entertainment Charges  | 0.03        | . ille year           | lile year             |
| -             | Miscellaneous Expenses                                       | 0.07        |                       |                       |
| -             | Legal Charges  | _           |                       |                       |
| _             | Auditor's Fee  | 0.04        |                       |                       |
| -             | Freight On Capital Equipments                                | _           |                       |                       |
| -             | Purchase Related Advertisement Expenses                      | _           |                       |                       |
| _             | Vehicle Running Expenses Truck / Delivery Van                | _           |                       |                       |
| _             | Vehicle Hiring Expenses Truck / Delivery Van                 | _           | 1                     |                       |
| _             | Other Freight  | -           |                       |                       |
|               | Transit Insurance  | -           | 1                     |                       |
| $\overline{}$ | Octroi   | -           | 1                     |                       |
| $\overline{}$ | Incidental Stores Expenses                                   | 0.00        | 1                     |                       |
| -             | Fabrication Charge   | -           | 1                     |                       |
| $\overline{}$ | CSR  | 0.03        | 1                     |                       |
| $\neg$        | Total A&G Expenes  | 1.04        | 1                     |                       |
| $\overline{}$ | Less: A&G Expenses Capitalised                               | 0.00        | 1                     |                       |
|               | Total A&G Expenses   | 1.04        |                       |                       |

# CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### LAKWA REPLACEMENT POWER PROJECT

|                            |   |                      |             |      |                             |      |                          |           |                          |      | Form No:        | 23    |
|----------------------------|---|----------------------|-------------|------|-----------------------------|------|--------------------------|-----------|--------------------------|------|-----------------|-------|
|                            |   |                      |             |      |                             |      | F۱                       | Y 2019-20 |                          |      |                 |       |
| Group of Asset             | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | e balance ( |      | Adjustment as on 01/04/2018 |      | Addition during the year |           | Deletion during the year |      | Closing balance |       |
|                            |   | le asset             | Asset       | Depr | Asset                       | Depr | Asset                    | Depr      | Asset                    | Depr | Asset           | Depr  |
| Land                       | 0.00%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Building                   | 3.34%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Hydraulic works            | 5.28%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Other civil works          | 3.34%                                       | 21.76                | 24.36       | ###  | -                           | ı    | -                        | 0.81      | -                        | -    | 24.36           | 0.98  |
| Plant & machinery- Gas     | 5.28%                                       | 207.38               | 233.31      | ###  | -                           | ı    | 10.73                    | 12.66     | -                        | -    | 244.05          | 15.26 |
| Plant & machinery- Hydel   | 5.28%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Lines & cables             | 5.28%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Vehicle                    | 9.50%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Furniture                  | 6.33%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Other office equipment     | 6.33%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Roads on land belonging to |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| others                     | 3.34%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
| Capital spares at          |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Generating Stations        | 5.28%                                       | -                    | -           | -    | -                           | -    | -                        | -         | -                        | -    | -               | -     |
|                            |   |                      | 257.68      | ###  | -                           | -    | 10.73                    | 13.47     | -                        | -    | 268.41          | 16.24 |
|                            | -   |                      |             | -    |                             |      |                          |           |                          |      |                 |       |
| Less: Depreciation on      |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Grant                      |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Total Grant in Capital     |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Asset                      |   |                      |             |      |                             |      |                          | 215.96    |                          |      |                 |       |
| i. Depreciation on 90% of  |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| the Assets funded by       |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Grants/subsidies           |   |                      |             |      |                             |      |                          | 0.05      |                          |      |                 |       |
| ii. Depreciation of CTPS & |   |                      |             |      |                             |      |                          |           |                          |      |                 |       |
| Myntriang                  |   |                      |             |      |                             |      |                          | 10.87     |                          |      |                 |       |
| Net Depeciation            |   |                      |             |      |                             |      |                          | 2.60      |                          |      |                 |       |

# CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### LAKWA REPLACEMENT POWER PROJECT

|                            |   |                      |              |       |       |                      |       |                     |                      |       | Form No: | 23      |
|----------------------------|---|----------------------|--------------|-------|-------|----------------------|-------|---------------------|----------------------|-------|----------|---------|
|                            |   |                      |              |       |       |                      | FY 2  | 2020-21             |                      |       |          |         |
| Group of Asset             | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | Open<br>bala | •     | _     | tment as<br>/04/2018 |       | on during<br>e year | Dele<br>during<br>ye | g the | Closing  | balance |
|                            |   | le asset             | Asset        | Depr  | Asset | Depr                 | Asset | Depr                | Asset                | Depr  | Asset    | Depr    |
| Land                       | 0.00%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Building                   | 3.34%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Hydraulic works            | 5.28%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Other civil works          | 3.34%                                       | 20.94                | 24.36        | 0.98  | -     | -                    | -     | 0.81                | -                    | -     | 24.36    | 1.80    |
| Plant & machinery- Gas     | 5.28%                                       | 204.38               | 244.05       | 15.26 | -     | -                    | -     | 12.66               | -                    | -     | 244.05   | 27.92   |
| Plant & machinery- Hydel   | 5.28%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Lines & cables             | 5.28%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Vehicle                    | 9.50%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Furniture                  | 6.33%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Other office equipment     | 6.33%                                       | -                    | -            | -     | -     | -                    | -     | -                   | -                    | -     | -        | -       |
| Roads on land belonging to |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| others                     | 3.34%                                       | -                    | -            | -     | -     | -                    | -     | -                   | _                    | -     | -        | -       |
| Capital spares at          |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Generating Stations        | 5.28%                                       | -                    | -            | -     | -     | -                    | -     | -                   | _                    | -     | -        | -       |
|                            |   | 225.33               | 268.41       | 16.24 | -     | -                    | -     | 13.47               | -                    | -     | 268.41   | 29.72   |
|                            |   |                      |              |       |       |                      |       |                     |                      |       | ·        |         |
| Less: Depreciation on      |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Grant                      |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Total Grant in Capital     |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Asset                      |   |                      |              |       |       |                      |       | 215.96              |                      |       |          |         |
| i. Depreciation on 90% of  |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| the Assets funded by       |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Grants/subsidies           |   |                      |              |       |       |                      |       | 0.05                |                      |       |          |         |
| ii. Depreciation of CTPS & |   |                      |              |       |       |                      |       |                     |                      |       |          |         |
| Myntriang                  |   |                      |              |       |       |                      |       | 10.84               |                      |       |          |         |
| Net Depeciation            |   |                      |              |       |       |                      |       | 2.63                |                      |       |          |         |

# CONSOLIDATED STATEMENT OF APGCL ASSETS

#### ASSAM POWER GENERATION CORPORATION LIMITED

### LAKWA REPLACEMENT POWER PROJECT

|                            |   |                      |              |       |                |      |       |                    |            |                   | Form No: | 23      |
|----------------------------|---|----------------------|--------------|-------|----------------|------|-------|--------------------|------------|-------------------|----------|---------|
|                            |   |                      |              |       |                |      |       | FY 202             | 1-22       |                   |          |         |
| Group of Asset             | Rate of<br>Depreciation<br>AERC 2015<br>REG | Balance<br>depreciab | Open<br>bala | _     | Adjust<br>as 0 | on   |       | dition<br>the year | Deletion o | luring the<br>ear | Closing  | balance |
|                            |   | le asset             | Asset        | Depr  | Asset          | Depr | Asset | Depr               | Asset      | Depr              | Asset    | Depr    |
| Land                       | 0.00%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Building                   | 3.34%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Hydraulic works            | 5.28%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Other civil works          | 3.34%                                       | 20.13                | 24.36        | 1.80  | -              | -    | -     | 0.81               | -          | -                 | 24.36    | 2.61    |
| Plant & machinery- Gas     | 5.28%                                       | 191.72               | 244.05       | 27.92 | -              | -    | -     | 12.66              | -          | -                 | 244.05   | 40.58   |
| Plant & machinery- Hydel   | 5.28%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Lines & cables             | 5.28%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Vehicle                    | 9.50%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Furniture                  | 6.33%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Other office equipment     | 6.33%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Roads on land belonging to |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| others                     | 3.34%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
| Capital spares at          |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Generating Stations        | 5.28%                                       | -                    | -            | -     | -              | -    | -     | -                  | -          | -                 | -        | -       |
|                            |   |                      | 268.41       | 29.72 | -              | -    | -     | 13.47              | -          | -                 | 268.41   | 43.19   |
|                            |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Less: Depreciation on      |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Grant                      |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Total Grant in Capital     |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Asset                      |   |                      |              |       |                |      |       | 215.96             |            |                   |          |         |
| i. Depreciation on 90% of  |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| the Assets funded by       |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Grants/subsidies           |   |                      |              |       |                |      |       | 0.05               |            |                   |          |         |
| ii. Depreciation of CTPS & |   |                      |              |       |                |      |       |                    |            |                   |          |         |
| Myntriang                  |   |                      |              |       |                |      |       | 10.84              |            |                   |          |         |
| Net Depeciation            |   |                      |              |       |                |      |       | 2.63               |            |                   |          |         |

## ASSAM POWER GENERATION CORPORATION LIMI LAKWA REPLACEMENT POWER PROJECT

| г |   | 1                    |                  |                    | 2019-20         |                      |                 |  |  |
|---|---|----------------------|------------------|--------------------|-----------------|----------------------|-----------------|--|--|
|   |   | l i                  |                  |                    |                 | tual                 |                 |  |  |
|   | Loan Details                                | Loan<br>Tenure (yrs) | Rate of Interest | Opening<br>Balance | Amount received | Principal repayme nt | Interest<br>Due |  |  |
| _ |   |                      |                  |                    |                 |                      |                 |  |  |
| Α | Secured Loans                               | 0                    | 10.1%            | 2294               | 0               | -834                 | 190             |  |  |
|   | I PFC Loans                                 | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | KLHEP                                       | 15                   | 12.0%            | 5765               | 0               | -1335                | 611             |  |  |
|   | NTPS(R&M)                                   | 13                   | 12.0%            | 30643              | 2128            | -2169                | 3667            |  |  |
|   | LTPS(R&M)                                   | 20                   | 11.9%            | 38703              | 2128            | -4339                | 4468            |  |  |
|   | NRPP  | 15                   | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Sub-total                                   |                      | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   |   |                      | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
| В | Unsecured Loans                             | 0                    | 0.0%<br>10.0%    | 0<br>10            | 0               | 0                    | 1               |  |  |
|   | I GOA -Loans                                | 0                    | 10.0%            | 1473               | 264             | 0                    | 147             |  |  |
| _ | Rural electrification                       | 10                   | 10.0%            | 886                | 0               | 0                    | 89              |  |  |
|   | NRPP Ph-I                                   | 10                   | 10.0%            | 1975               | 0               | 0                    | 198             |  |  |
| _ | LWHRP                                       | 10                   | 10.0%            | 4109               | 166             | 0                    | 411             |  |  |
|   | Lower Kopili HEP                            | 10                   | 10.0%            | 2992               | 1129            | 0                    | 300             |  |  |
|   | R&M NTPS                                    | 10                   | 10.0%            | 153                | 0               | 0                    | 15              |  |  |
|   | R&M LTPS                                    | 10                   | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | LRPP  | 10                   | 10.0%            | 400                | 0               | 0                    | 40              |  |  |
|   | 0   | 0                    | 10.0%            | 1165               | 0               | 0                    | 117             |  |  |
|   | Lungnit SHEP                                | 10                   | 10.0%            | 1805               | 0               | 0                    | 181             |  |  |
|   | Myntriang SHEP                              | 10                   | 10.0%            | 100                | 0               | 0                    | 10              |  |  |
|   | LTPS, Ph-II                                 | 10                   | 10.0%            | 70                 | 0               | 0                    | 7               |  |  |
|   | Development of SHEP                         | 10                   | 10.0%            | 40                 | 0               | 0                    | 4               |  |  |
|   | Survey & Investigation of HEP               | 10                   | 10.0%            | 9601               | 1698            | 0                    | 972             |  |  |
| _ | Non-Conventional source of energy           | 10                   | 10.0%            | 215                | 0               | 0                    | 22              |  |  |
|   | KLHEP<br>KLHEP (upper)                      | 10<br>10             | 10.0%<br>0.0%    | 250<br>0           | 0               | 0                    | 25<br>0         |  |  |
| _ | KLHEP (intermediate)                        | 10                   | 10.0%            | 104                | 0               | 0                    | 10              |  |  |
|   | n   | 0                    | 10.0%            | 15                 | 0               | 0                    | 2               |  |  |
| _ | Dhansiri HEP                                | 10                   | 10.0%            | 425                | 0               | 0                    | 43              |  |  |
|   | Setting up of a 200MW (CCGT)                | 10                   | 10.0%            | 74                 | 0               | 0                    | 7               |  |  |
|   | Borgolai                                    | 10                   | 10.0%            | 50                 | 0               | 0                    | 5               |  |  |
|   | Revival of TPS                              | 10                   | 10.0%            | 37                 | 0               | 0                    | 4               |  |  |
|   | Development of Amguri                       | 10                   | 10.0%            | 37                 | 0               | 0                    | 4               |  |  |
|   | EAP consulting service                      | 10                   | 10.0%            | 54                 | 0               | 0                    | 5               |  |  |
|   | Golaghat                                    | 10                   | 10.0%            | 31325              | 0               | 0                    | 3133            |  |  |
|   | Boundary wall of Jagiroad                   | 10                   | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Station heat Rate                           | 10                   | 10.0%            | 404                | 0               | 0                    | 40              |  |  |
|   | 0   | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Solar NTPS                                  | 10                   | 10.0%            | 0                  | 2               | 0                    | 0               |  |  |
|   | 0   | 0                    | 0.0%             | 57770              | 3260            | 0                    | 5789            |  |  |
|   | Disaster                                    | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Sub-total<br>0                              | 0                    | 0.0%<br>10.0%    | 0<br>2317          | 126             | 0                    | 0<br>242        |  |  |
| С | II GOA -Loans (Source ADB)                  | 0                    | 10.0%            | 39                 | 7               | 0                    | 4               |  |  |
| U | LRPP  | 0                    | 10.0%            | 82                 | 58              | 0                    | 12              |  |  |
|   | ADB Consultancy                             | 0                    | 0.0%             | 2439               | 191             | 0                    | 258             |  |  |
|   | Lower Kopili HEP                            | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Sub-total                                   | 0                    | 0.0%             | 0                  | 0               | 0                    | 7               |  |  |
| D | Other Interest & Finance Charges            | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Cost of raising Finance / Bank Charges      | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Interest on Security Deposit                | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
| Ξ | Penal Interest Charges                      | 0                    | 0.0%             | 0                  | 0               | 0                    | 7               |  |  |
|   | Lease Rentals                               | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
|   | Sub-total                                   | 0                    | 0.0%             | 98911              | 5578            | -4339                | 10522           |  |  |
|   |   |                      |                  |                    |                 |                      |                 |  |  |
|   | otal Of Interest & Finance Charges (A + B   |                      | 0.0%             | 98911              | 5578            | -4339                | 6329            |  |  |
|   | ess: Interest & Finance Charges Capitalise  |                      | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |
| G | et Total Of Interest & Finance Charges (E - | 0                    | 0.0%             | 0                  | 0               | 0                    | 0               |  |  |

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## ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

|   |   |              | 24              |                     |                    |                 |                     | Form No:        | 24                 |
|---|---|--------------|-----------------|---------------------|--------------------|-----------------|---------------------|-----------------|--------------------|
| П |   |              |                 |                     |                    | 20-21           |                     |                 |                    |
|   |   | Loan         |                 |                     |                    | Esti            | mated               |                 |                    |
|   | Loan Details                                | Tenure (yrs) | Closing Balance | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest<br>Due | Closing<br>Balance |
| Н |   |              |                 |                     |                    |                 |                     |                 |                    |
| Α | Secured Loans                               | 0            | 1460            | 10.1%               | 1460               | 0               | -834                | 105             | 626                |
| ^ | I PFC Loans                                 | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 020                |
| H | KLHEP                                       | 15           | 4430            | 12.0%               | 4430               | 0               | -1335               | 451             | 3095               |
| H | NTPS(R&M)                                   | 13           | 30602           | 12.0%               | 30602              | 0               | -2169               | 3534            | 28433              |
| H | LTPS(R&M)                                   | 20           | 36492           | 0.0%                | 36492              | 0               | -4339               | 4091            | 32153              |
| П | NRPP  | 15           | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|   | Sub-total                                   |              | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|   |   |              | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| Ш |   |              | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| В | Unsecured Loans                             | 0            | 10              | 10.0%               | 10                 | 0               | 0                   | 1               | 10                 |
| Ш | I GOA -Loans                                | 0            | 1737            | 10.0%               | 1737               | 0               | 0                   | 174             | 1737               |
| Н | Rural electrification                       | 10           | 886             | 10.0%               | 886                | 0               | 0                   | 89              | 886                |
| Н | NRPP Ph-I                                   | 10           | 1975            | 10.0%               | 1975               | 0               | 0                   | 198             | 1975               |
| H | LWHRP                                       | 10           | 4275            | 10.0%               | 4275               | 147             | 0                   | 435             | 4423               |
| Н | Lower Kopili HEP                            | 10<br>10     | 4121            | 10.0%               | 4121<br>153        | 737             | 0                   | 449<br>15       | 4858               |
| H | R&M NTPS<br>R&M LTPS                        | 10           | 153<br>0        | 10.0%<br>0.0%       | 0                  | 0               | 0                   | 0               | 153<br>0           |
| Н | LRPP  | 10           | 400             | 10.0%               | 400                | 0               | 0                   | 40              | 400                |
| Н | 0   | 0            | 1165            | 10.0%               | 1165               | 0               | 0                   | 117             | 1165               |
| H | Lungnit SHEP                                | 10           | 1805            | 10.0%               | 1805               | 0               | 0                   | 181             | 1805               |
| H | Myntriang SHEP                              | 10           | 100             | 10.0%               | 100                | 0               | 0                   | 10              | 100                |
| Н | LTPS, Ph-II                                 | 10           | 70              | 10.0%               | 70                 | 0               | 0                   | 7               | 70                 |
| П | Development of SHEP                         | 10           | 40              | 10.0%               | 40                 | 0               | 0                   | 4               | 40                 |
| П | Survey & Investigation of HEP               | 10           | 11299           | 10.0%               | 11299              | 1645            | 0                   | 1212            | 12944              |
| П | Non-Conventional source of energy           | 10           | 215             | 10.0%               | 215                | 0               | 0                   | 22              | 215                |
|   | KLHEP                                       | 10           | 250             | 10.0%               | 250                | 0               | 0                   | 25              | 250                |
| Ш | KLHEP (upper)                               | 10           | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| Ш | KLHEP (intermediate)                        | 10           | 104             | 10.0%               | 104                | 0               | 0                   | 10              | 104                |
| Н | 0   | 0            | 15              | 10.0%               | 15                 | 0               | 0                   | 2               | 15                 |
| Н | Dhansiri HEP                                | 10           | 425             | 10.0%               | 425                | 0               | 0                   | 43              | 425                |
| Н | Setting up of a 200MW (CCGT)                | 10           | 74              | 10.0%               | 74                 | 0               | 0                   | 7<br>5          | 74                 |
| Н | Borgolai Revival of TPS                     | 10<br>10     | 50<br>37        | 10.0%<br>10.0%      | 50<br>37           | 0               | 0                   | 4               | 50<br>37           |
| Н | Development of Amguri                       | 10           | 37              | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |
| Н | EAP consulting service                      | 10           | 54              | 10.0%               | 54                 | 0               | 0                   | 5               | 54                 |
| H | Golaghat                                    | 10           | 31325           | 10.0%               | 31325              | 0               | 0                   | 3133            | 31325              |
| H | Boundary wall of Jagiroad                   | 10           | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H | Station heat Rate                           | 10           | 404             | 10.0%               | 404                | 0               | 0                   | 40              | 404                |
| П | 0   | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
|   | Solar NTPS                                  | 10           | 2               | 10.0%               | 2                  | 0               | 0                   | 0               | 2                  |
|   | 0   | 0            | 61029           | 0.0%                | 61029              | 2529            | 0                   | 6229            | 63558              |
| П | Disaster                                    | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| Ц | Sub-total                                   | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| Щ | 0   | 0            | 2444            | 10.0%               | 2444               | 0               | 0                   | 244             | 2444               |
| С | II GOA -Loans (Source_ADB)                  | 0            | 46              | 10.0%               | 46                 | 0               | 0                   | 5               | 46                 |
| Н | LRPP  | 0            | 140             | 10.0%               | 140                | 0               | 0                   | 14              | 140                |
| Н | ADB Consultancy                             | 0            | 2630            | 0.0%                | 2630               | 0               | 0                   | 263             | 2630               |
| Н | Lower Kopili HEP                            | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| D | Sub-total Other Interest & Finance Charges  | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H | Cost of raising Finance / Bank Charges      | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| Н | Interest on Security Deposit                | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H | Penal Interest Charges                      | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H | Lease Rentals                               | 0            | 0               | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |
| H | Sub-total                                   | 0            | 100151          | 0.0%                | 100151             | 2529            | -4339               | 10583           | 98341              |
| П |   | _            |                 |                     | 1                  |                 |                     |                 |                    |
| E | otal Of Interest & Finance Charges (A + B   | 0            | 100151          | 0                   | 100151             | 2529            | -4339               | 10583           | 98341              |
| F | ess: Interest & Finance Charges Capitalise  | 0            | 0               | 0                   | 0                  | 0               | 0                   | 0               | 0                  |
| G | et Total Of Interest & Finance Charges (E - | 0            | 0               | 0                   | 0                  | 0               | 0                   | 0               | 0                  |

## ASSAM POWER GENERATION CORPORATION LIMITED LAKWA REPLACEMENT POWER PROJECT

|          |   |              | Form No: 24         |                    |                 |                     |                 |                    |  |  |
|----------|---|--------------|---------------------|--------------------|-----------------|---------------------|-----------------|--------------------|--|--|
|          |   |              |                     |                    |                 | 21-22               |                 |                    |  |  |
|          |   | Loan         |                     |                    | Pro             | jected              |                 |                    |  |  |
|          | Loan Details                                | Tenure (yrs) | Rate of<br>Interest | Opening<br>Balance | Amount received | Principal repayment | Interest<br>Due | Closing<br>Balance |  |  |
| _        |   |              |                     |                    |                 |                     |                 |                    |  |  |
| Α        | Secured Loans                               | 0            | 10.1%               | 626                | 0               | -626                | 32              | 0                  |  |  |
|          | I PFC Loans                                 | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          | KLHEP                                       | 15           | 12.0%               | 3095               | 0               | -1335               | 291             | 1760               |  |  |
| Г        | NTPS(R&M)                                   | 13           | 12.0%               | 28433              | 0               | -2169               | 3274            | 26263              |  |  |
| Г        | LTPS(R&M)                                   | 20           | 0.0%                | 32153              | 0               | -4130               | 3597            | 28023              |  |  |
|          | NRPP  | 15           | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          | Sub-total                                   |              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          |   |              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          |   |              | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| В        | Unsecured Loans                             | 0            | 10.0%               | 10                 | 0               | 0                   | 1               | 10                 |  |  |
|          | I GOA -Loans                                | 0            | 10.0%               | 1737               | 0               | 0                   | 174             | 1737               |  |  |
|          | Rural electrification                       | 10           | 10.0%               | 886                | 0               | 0                   | 89              | 886                |  |  |
|          | NRPP Ph-I                                   | 10           | 10.0%               | 1975               | 0               | 0                   | 198             | 1975               |  |  |
| ᆫ        | LWHRP                                       | 10           | 10.0%               | 4423               | 190             | 0                   | 452             | 4612               |  |  |
|          | Lower Kopili HEP                            | 10           | 10.0%               | 4858               | 710             | 0                   | 521             | 5568               |  |  |
|          | R&M NTPS                                    | 10           | 10.0%               | 153                | 0               | 0                   | 15              | 153                |  |  |
|          | R&M LTPS                                    | 10           | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| ╙        | LRPP  | 10           | 10.0%               | 400                | 0               | 0                   | 40              | 400                |  |  |
| ╙        | 0   | 0            | 10.0%               | 1165               | 0               | 0                   | 117             | 1165               |  |  |
| ╙        | Lungnit SHEP                                | 10           | 10.0%               | 1805               | 0               | 0                   | 181             | 1805               |  |  |
| _        | Myntriang SHEP                              | 10           | 10.0%               | 100                | 0               | 0                   | 10              | 100                |  |  |
| _        | LTPS, Ph-II                                 | 10           | 10.0%               | 70                 | 0               | 0                   | 7               | 70                 |  |  |
| _        | Development of SHEP                         | 10           | 10.0%               | 40                 | 0               | 0                   | 4               | 40                 |  |  |
| ⊢        | Survey & Investigation of HEP               | 10           | 10.0%               | 12944              | 210             | 0                   | 1305            | 13154              |  |  |
| $\vdash$ | Non-Conventional source of energy           | 10           | 10.0%               | 215                | 0               | 0                   | 22              | 215                |  |  |
| L        | KLHEP                                       | 10           | 10.0%               | 250                | 0               | 0                   | 25              | 250                |  |  |
| $\vdash$ | KLHEP (upper)                               | 10<br>10     | 0.0%                | 0<br>104           | 0               | 0                   | 0<br>10         | 0<br>104           |  |  |
| ⊢        | KLHEP (intermediate)                        |              | 10.0%               |                    |                 |                     |                 |                    |  |  |
| ⊢        | 0<br>Dhansiri HEP                           | 10           | 10.0%<br>10.0%      | 15<br>425          | 0               | 0                   | 2<br>43         | 15<br>425          |  |  |
| ⊢        | Setting up of a 200MW (CCGT)                | 10           | 10.0%               | 74                 | 0               | 0                   | 7               | 74                 |  |  |
| $\vdash$ | Borgolai                                    | 10           | 10.0%               | 50                 | 0               | 0                   | 5               | 50                 |  |  |
| H        | Revival of TPS                              | 10           | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |  |  |
| $\vdash$ | Development of Amguri                       | 10           | 10.0%               | 37                 | 0               | 0                   | 4               | 37                 |  |  |
| ⊢        | EAP consulting service                      | 10           | 10.0%               | 54                 | 0               | 0                   | 5               | 54                 |  |  |
| Н        | Golaghat                                    | 10           | 10.0%               | 31325              | 0               | 0                   | 3133            | 31325              |  |  |
| H        | Boundary wall of Jagiroad                   | 10           | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| H        | Station heat Rate                           | 10           | 10.0%               | 404                | 0               | 0                   | 40              | 404                |  |  |
| Н        | 0   | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| Т        | Solar NTPS                                  | 10           | 10.0%               | 2                  | 0               | 0                   | 0               | 2                  |  |  |
| Г        | 0   | 0            | 0.0%                | 63558              | 1110            | 0                   | 6411            | 64668              |  |  |
| Г        | Disaster                                    | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| Г        | Sub-total                                   | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          | 0   | 0            | 10.0%               | 2444               | 0               | 0                   | 244             | 2444               |  |  |
| С        | II GOA -Loans (Source ADB)                  | 0            | 10.0%               | 46                 | 0               | 0                   | 5               | 46                 |  |  |
|          | LRPP  | 0            | 10.0%               | 140                | 0               | 0                   | 14              | 140                |  |  |
|          | ADB Consultancy                             | 0            | 0.0%                | 2630               | 0               | 0                   | 263             | 2630               |  |  |
| Ľ        | Lower Kopili HEP                            | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| Ĺ        | Sub-total                                   | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| D        | Other Interest & Finance Charges            | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| L        | Cost of raising Finance / Bank Charges      | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
|          | Interest on Security Deposit                | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| L        | Penal Interest Charges                      | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| L        | Lease Rentals                               | 0            | 0.0%                | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| L        | Sub-total                                   | 0            | 0.0%                | 98341              | 1110            | -4130               | 10272           | 95321              |  |  |
| Ļ        |   |              |                     |                    | 44:5            |                     | 40              | 05                 |  |  |
|          | otal Of Interest & Finance Charges (A + B   | 0            | 0                   | 98341              | 1110            | -4130               | 10272           | 95321              |  |  |
|          | ess: Interest & Finance Charges Capitalise  | 0            | 0                   | 0                  | 0               | 0                   | 0               | 0                  |  |  |
| G        | et Total Of Interest & Finance Charges (E - | 0            | 0                   | 0                  | 0               | 0                   | 0               | 0                  |  |  |

| Name of Company:        | SAM POWER GENERATION CORPORATION LIM |
|-------------------------|--------------------------------------|
| Name of Plant/ Station: | LAKWA REPLACEMENT POWER PROJE        |
|                         |                                      |
| Return on Equity        | Form No                              |

|   | Loan Details  | Unit   | 2019-20 | 2020-21   | 2021-22   |
|---|---|--------|---------|-----------|-----------|
|   | Loan Details  | Offic  | Actual  | Estimated | Projected |
| 1 | Equity (Opening Balance)  | Rs Cr. | 14.84   | 15.73     | 15.73     |
| 2 | Add: Increase due to discharges during the year / period                | Rs Cr. | 0.90    | 0.00      |           |
| 3 | Less: Decrease due to de-<br>capitalisation during the year /<br>period | Rs Cr. |         |           |           |
| 4 | Less: Decrease due to reversal during the year / period                 | Rs Cr. |         |           |           |
| 5 | Equity (Closing Balance)  | Rs Cr. | 15.73   | 15.73     | 15.73     |
| 6 | Average Equity  | Rs Cr. | 15.29   | 15.73     | 15.73     |
| 7 | Rate of Return on Equity  | %      | 15.5%   | 15.5%     | 15.5%     |
| 8 | Return on Equity  | Rs Cr. | 2.37    | 2.44      | 2.44      |
|   |   |        |         |           |           |

| Name of Company:        | ASSAM POWER GENERATION CORPORATION LIMITE |
|-------------------------|---|
| Name of Plant/ Station: | LAKWA REPLACEMENT POWER PROJECT           |

|   | T T T T T T T T T T T T T T T T T T T          |        |                   |                      |                     |
|---|--|--------|-------------------|----------------------|---------------------|
|   | Particulars                                    | Unit   | 2019-20<br>Actual | 2020-21<br>Estimated | 2021-22<br>Projecte |
|   | For Coal Based Generating Stations             |        |                   |                      | , ,                 |
|   | Cost of Coal for 1.5 months for pithead & 2    |        |                   |                      |                     |
| 1 | months for non-pit head generating station*    | Rs Cr. |                   |                      |                     |
| 2 | Cost of Secondary Fuel Oil for 2 months*       | Rs Cr. |                   |                      |                     |
| 3 | Maintenance Spares @ 20% of O&M                | Rs Cr. |                   |                      |                     |
| 4 | O&M expenses for 1 month                       | Rs Cr. |                   |                      |                     |
|   | Receivables equivalent to 2 months of capacity |        |                   |                      |                     |
| 5 | and energy charge^                             | Rs Cr. |                   |                      |                     |
|   | Total Working Capital Requirement              | Rs Cr. |                   |                      |                     |
|   | Rate of Interest #                             | %      |                   |                      |                     |
|   | Interest on Normative Working Capital          |        |                   |                      |                     |
|   | Requirement                                    | Rs Cr. |                   |                      |                     |
|   |  |        |                   |                      |                     |
|   | For Open-cycle Gas Turbine/ Combined Cycle     |        |                   |                      |                     |
|   | thermal generating stations                    |        |                   |                      |                     |
| 1 | Fuel expenses for 1 month *                    | Rs Cr. | 7.93              | 5.62                 | 4.8                 |
| 2 | Liquid fuel stock for 15 days*                 | Rs Cr. |                   |                      |                     |
| 3 | Maintenance spares @ 30% of O&M                | Rs Cr. | 6.14              | 6.39                 | 6.                  |
| 4 | O&M expenses for 1 month                       | Rs Cr. | 1.71              | 1.78                 | 1.8                 |
|   | Receivables equivalent to 2 months of capacity |        | 04.40             | 40.75                | 45                  |
| 5 | and energy charge^                             | Rs Cr. | 21.46             | 16.75                | 15.3                |
|   | Total Working Capital Requirement              | Rs Cr. | 37.24             | 30.53                | 28.9                |
|   | Rate of Interest #                             | %      | 10.00%            | 10.00%               | 10.00               |
|   | Interest on Normative Working Capital          |        | 0.70              | 2.05                 | 0.                  |
|   | Requirement                                    | Rs Cr. | 3.72              | 3.05                 | 2.8                 |
|   |  |        |                   |                      |                     |
|   | For Hydro Generating stations                  |        |                   |                      |                     |
| 1 | O&M expenses for 1 month                       | Rs Cr. |                   |                      |                     |
| 2 | Maintenance spares @ 15% of O&M                | Rs Cr. |                   |                      |                     |
|   | Receivables equivalent to 2 months of annual   | -      |                   |                      |                     |
| 3 | fixed charge                                   | Rs Cr. |                   |                      |                     |
|   | Total Working Capital Requirement              | Rs Cr. |                   |                      |                     |
|   | Rate of Interest #                             | %      |                   |                      |                     |
|   | Interest on Normative Working Capital          |        |                   |                      |                     |
|   | Requirement                                    | Rs Cr. | <u> </u>          |                      | <u></u>             |
|   | * corresponding to target availability         |        |                   |                      |                     |
|   | ^ calculated on target availability            |        |                   |                      |                     |

| • |  | SAM POWER G                     | ENERATION CORF | PORATION LIMIT |  |
|---|--|---------------------------------|----------------|----------------|--|
|   |  | LAKWA REPLACEMENT POWER PROJECT |                |                |  |
|   | Details of Expenses Ca                 | pitalised                       |                | Form No:       |  |
|   |  |                                 | (Rs Cr.)       |                |  |
|   |  | 2019-20                         | 2020-21        | 2021-22        |  |
|   |  | Actual                          | Estimated      | Projected      |  |
|   |  |                                 |                |                |  |
| 1 | Interest & Finance charges Capitalised | 0.00                            | 0.00           | 0.00           |  |
| 2 | Employee expenses                      | 0.00                            | 0.00           | 0.00           |  |
| 3 | A&G Expenses                           | 0.00                            | 0.00           | 0.00           |  |
| 4 | Others, if any                         | 0.00                            | 0.00           | 0.00           |  |
|   | Grand Total                            | 0.00                            | 0.00           | 0.00           |  |

| Name of Company: Name of Plant/ Station: |   | ASSAM POWER GE    | NERATION CORPO                  | PRATION LIMITE       |
|--|---|-------------------|---------------------------------|----------------------|
|  |   | LAKWA REPLA       | LAKWA REPLACEMENT POWER PROJECT |                      |
| Incor                                    | ne Tax Provisions                                 |                   |                                 |                      |
|  |   | 2019-20<br>Actual | 2020-21<br>Estimated            | 2021-22<br>Projected |
| 1  | Income Tax on the Retun on Equity                 |                   |                                 |                      |
| 2  | As Per Return Filed For The Year                  | 0.32              | 0.00                            | 0.00                 |
| 3  | As Assessed For The Year                          |                   |                                 |                      |
| 4  | Credit/Debit Of Assessment Year(s) (Give Details) |                   |                                 |                      |
|  | Total   | 0.32              | 0.00                            | 0.00                 |

|         | Company:                             | SAM POWER GENERATION CORPORATION LIMIT |           |           |  |
|---------|--------------------------------------|--|-----------|-----------|--|
| Name of | Plant/ Station:                      | LAKWA REPLACEMENT POWER PROJECT        |           |           |  |
|         |                                      |  |           |           |  |
| Non-Tar | iff Income                           |  |           |           |  |
|         |                                      | (Rs Cr.)                               |           |           |  |
| S. No.  | Particulars                          | 2019-20                                | 2020-21   | 2021-22   |  |
| 0.110.  |                                      | Actual                                 | Estimated | Projected |  |
|         |                                      |  |           |           |  |
| Α       | Income from Investment, Fixed        |  |           |           |  |
|         | & Call Deposits                      |  |           |           |  |
|         | Income from Investments:             |  |           |           |  |
|         | Interest on securities               | 0.00                                   |           |           |  |
|         | Interest on fixed deposits           | 0.00                                   |           |           |  |
|         | Income on other investments          |  |           |           |  |
|         | Interest from Banks                  | 0.00                                   |           |           |  |
|         | Interest on (any other items)        |  |           |           |  |
|         | Sub-Total                            | 0.00                                   |           |           |  |
| В       | Other Non-Tariff Income              |  |           |           |  |
|         | Interest on Loans and Advances       | 0.00                                   |           |           |  |
|         | to staff                             | 0.00                                   |           |           |  |
|         | 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                  | 0.00                                   |           |           |  |
|         | Gain on sale of Fixed Assets         |  |           |           |  |
|         | Income/Fees /Collections against     |  |           |           |  |
|         | staff welfare activities:            |  |           |           |  |
|         | Miscellaneous Receipts:              | 0.00                                   | 1         |           |  |
|         | Delayed Payment charges from         |  | 1         |           |  |
|         | Beneficiaries                        |  |           |           |  |
|         | Net profit from UI charges           |  | 1         |           |  |
|         | Penalty for contractor/ supplier for |  | 1         |           |  |
|         | delay etc                            |  |           |           |  |
|         | Misc Charges                         |  | 1         |           |  |
|         | Sub-Total                            | 0.00                                   | 1         |           |  |
|         |                                      |  |           |           |  |
|         | Grand Total                          | 0.00                                   | 0.00      | 0.00      |  |