

# **Assam Power Generation Corporation Limited**

**Office of the Chief General Manager (Gen)**  
APGCL, Bijulee Bhavan, 3<sup>rd</sup> Floor  
Paltan Bazar, Guwahati -781001, Assam  
E mail: cgm-g@apgcl.com



**Tender Notice No. APGCL/CGM (G)/KLHEP/O&M/2017/09 date 3<sup>rd</sup> March, 2018**

**Name of Work:**

**ANNUAL MAINTENANCE WORKS OF UNIT #1 OF 50MW FUJI MAKE VERTICAL SHAFT FRANCIS TURBINE AND GENERATOR AT 2X50 MW KARBI LANGPI HYDRO ELECTRIC PROJECT, AMTRENG, KARBI ANGLONG, ASSAM.**

**Price: Rs. 1000/-**

## **ASSAM POWER GENERATION CORPORATION LIMITED**

**TENDER NO: APGCL/CGM (G)/KLHEP/O&M/2017/09 dated 3<sup>rd</sup> March, 2018**

Invitee	The Chief General Manager, APGCL, Bijulee Bhawan, 3 <sup>rd</sup> Floor, Paltanbazar, Guwahati-781001.
Name of the work	<b>Annual maintenance works of Unit#1 of 50MW Fuji make Vertical shaft Francis Turbine &amp; Generator at 2x50 MW Karbi Langpi Hydro Electric Project, Amtreng, Karbi Anglong, Assam.</b>
Bidder	Firms having experience in carrying out Annual Maintenance works in similar Hydro Turbine and Generator unit of not less than 50MW of capacity (at least 2 units during last 5 years) are eligible for bidding.
Tender fee (non refundable)	Rs. 1000.00 ( Rupees One thousand only) in the form of a/c payee Demand Draft/ Banker's cheque duly pledged in favour of the Dy. General Manager(F&A), APGCL, payable at Guwahati.
Earnest money	Bids shall be accompanied with Earnest Money amounting to <b>Rs 20,000.00</b> in the shape of Demand Draft/ Banker's Cheque of any Nationalized/Scheduled Bank duly pledged in favour of the Dy. General Manager (F&A), APGCL, Bijulee Bhawan, Paltan Bazar, Guwahati-781001 payable at Guwahati
Bid Publishing date	05.03.18 from 13:00 Hrs
Last date of bid submission	12.03.18 upto 13:00 Hrs.
Date of bid opening	12.03.18 at 14:00 Hrs

**The intended bidders may visit APGCL's website ([www.apgcl.org](http://www.apgcl.org)).**

**Sd/-  
CHIEF GENERAL MANAGER (GEN), APGCL.**

## 1. OBJECTIVE

Karbi Langpi Hydro Electric Project is having 2x50MW Fuji Electric make TG Sets.

It is proposed to carry out Annual Maintenance works of TG set of Unit-1 along with its auxiliaries.

The works to be carried out is as per scope of work mentioned in Clause No. 4

## 2. BRIEF DESCRIPTION OF THE MACHINES

The 50 MW set consist of one number of 51.5MW,500 rpm vertical shaft single runner single flow Francis turbine and a directly coupled to 12(Twelve) pole 62.5MVA Generator having output voltage 11KV.

### **SPECIFICATION OF GENERATOR:**

TYPE	GDH60495-06
OUTPUT	62500 KVA
VOLTAGE	11000Volts
CURRENT	3280Amps
POWER FACTOR	0.8
FREQUENCY	50Hz
SPEED	500 RPM
RUNWAY SPEED	850 RPM
WINDING INSULATION CLASS	B
CONNECTIONS	STAR
FLYWHEEL EFFECT GD <sup>2</sup>	500 t-m <sup>2</sup>
APPLICABLE STANDARD	IS : 4722
MAKE	FUJI ELECTRIC SYSTEM Co.Ltd.,JAPAN

### **SPECIFICATION OF TURBINE:**

TYPE	VERTICAL FRANCIS
NET HEAD	239 m
OUTPUT	51500 KW
SPEED	500 RPM
MAKE	FUJI ELECTRIC SYSTEM Co.Ltd.,JAPAN

### 3. BID PROCEDURE

The bid shall be completed in single - Techno-Commercial bid system.

“Offered Price” dully filled. Offered Price shall have to include all taxes and duties etc. No stipulation, deviation, terms and conditions, presumption, etc shall be stated in priced part of bid. APGCL shall not take cognizance of any such statement and may at their discretion reject such price bids. **Also, price quoted by the bidder must be in INR.**

❖ **Important Note**

**Bidder must submit hard copy of bid along with the Demand Drafts in a sealed envelope. The top of the envelope should duly bear the Tender Number, date and time of opening of the bid along with address of the office and must reach APGCL, Guwahati end before 13.00 hrs of 12/03/2018,. In case the hard copies of Demand Drafts and Bid are not received at this end within due date as stated above, the bid of the bidder will not be considered.**

### 4. SCOPE OF WORK

The annual maintenance works include disassembling, Overhauling/repairing & reassembling works of different TG parts and auxiliaries and also testing & commissioning. The overhauling works as mentioned in the **Annexure-IV** are required to be carried out by the successful bidder. The process of annual maintenance works will be as per the guidelines of Fuji Electric Co. Ltd’s O&M procedures and also with specific directive of APGCL. The approximate weight of different parts of Turbine and Generator and its auxiliaries is also shown in **Annexure-IV** for ready reference of the bidders.

**Any activities or works which is not covered in the above scope of work but requires to be carried out for completion of annual maintenance works and commissioning purposes will also be under the scope of bidder without any extra cost involvement. All the works are to be performed to the full satisfaction of APGCL.**

### 5. BIDDER’S EXPERIENCE

The intended bidder shall have experience in carrying out Annual Maintenance works in similar Fuji make Hydro Turbine and Generator unit of not less than 50MW of capacity (at least 2 units during last 5 years). The bidder shall furnish credentials such as copies of work orders and completion certificates as supporting documents accompanied with performance certificate from their clients. However preference will be given to the bidders having experience in working with Fuji Engineers in overhauling/ Erection and successful completion of similar type of Vertical shaft Francis Turbine. Moreover, bidders as single entity will be preferred than the bidders in the form of Joint Venture.

## 6. SCHEDULE OF WORKS

The works should be carried out as per the work schedule of different activities submitted by APGCL which is given in **Annexure-V** it is proposed to start the annual maintenance works activities by **15<sup>th</sup> March'2017** for Unit -1. However under some special circumstances (which are beyond the control of APGCL) the starting date may vary. But in such case also the days for time of completion of the whole work will remain same as mentioned in the work scheduled Annexure.

**The successful Bidder is to comply with the work schedule submitted in the form of PERT chart by APGCL (Annexure-VI).**

## 7. MANPOWER, EQUIPMENT, TOOLS AND CONSUMABLES

SCOPE OF BIDDER:

- a) All types of tools, machines, equipments, paints, testing and repairing instruments, air compressors that will be needed for carrying out the complete overhauling. Bidder must furnish details of equipments & machineries including tool list along with their technical bid. Any tools and equipments including testing equipments if provided by APGCL will be on chargeable basis.
- b) All consumables such as detergent, cleaning oil, cleaning compound, DP chemical, gases, electrodes and filler rod, sealing compound, STP compound, M seal, Lead wires, S.S shims, C. S. plate, S. S. plate, Gaskets, grinding wheel etc as required.
- c) The bidder should furnish a list of complete man power including the supervisory staff required for executing the work successfully within the stipulated time, indicating their experiences.
- d) The bidder must have TAN/TIN/GRN/PAN and photocopy of the same has to be submitted along with the tender.
- e) The bidder shall furnish up-to-date Income Tax and other clearance certificates along with the tender.
- f) The bidder should provide sufficient proof to show its financial soundness for execution of this work in the form of certified copy of balance sheet/Annual turnover etc. for the last 3 years.

It is the responsibility of the Contractor to make own arrangements for potable water supply for their labours/personnel.

The Contractor has to arrange to and fro transportation of his personnel.

Cleaning up of site during and after every day works. The Contractor shall keep the site and establishment areas clean and tidy. All debris and other rubbish shall be regularly removed to the designated disposal areas on the Site.

All fabrication and engineering work incidental to erection, like scaffolding, structural framing for overhauling shall have to be done by the Contractor at his own cost. The structural steel required for such work shall be arranged by the Contractor. Also, any fabrication work like cutting, grinding, welding, straightening, reaming, drilling, threading, fitting up etc. which in the opinion of the

Engineer are incidental to the overhauling site shall have to be done by the Contractor. Any defect in the fabrication shall have to be rectified by the Contractor at his cost.

The Contractor shall observe strict cleanliness during execution of the work and shall be in possession of vacuum cleaner for cleaning the internals of machinery under installation. They shall check that all the finished surfaces are greased and covered wherever necessary; all pipes and duct ends are covered with plastic or suitable type of cap during storage.

Before boxing up, the Contractor shall examine carefully to ensure that no foreign material, such as welding rod ends, welding beds, metal chips, rope, working tools or anything else has been left inside any equipment or piping.

The Contractor shall take full responsibility of the Works and of all temporary works. If any damage, loss or injury happens to the Works or to any part thereof or to any temporary work from any cause whatsoever, the Contractor shall at his own cost repair and make good the same so that at completion of the works shall be in good order and condition.

#### **SCOPE OF APGCL:**

- a) KLHEP will give shutdown notice of the units two weeks ahead of the shutdown.
- b) Recommended overhauling procedure and technical guidance wherever necessary.
- c) Service of EOT crane.
- d) Electrical power will be made available on chargeable basis.
- e) Detail specification of various kind of cleaning compound, welding electrodes and filler materials, paints etc.
- f) Any spares if required directly related to the TG and its auxiliaries.
- g) Guest House accommodation may be arranged on Chargeable basis. For skilled / un-skilled labour, free area for hutment will be provided with necessary water supply. Electricity to the hutment will be on chargeable basis.
- h) Workshop facility will be provided, if required, on Chargeable basis.

#### **8. PRICE:**

The bidders should quote their prices keeping in view the scope of work, work schedule and the approximate weight of different parts of Turbine and Generator and its auxiliaries which are provided here within **Annexure IV** respectively for their ready reference. The complete price break-up including tax shall have to be uploaded as per the format enclosed in **Annexure -III**. The quoted price should be on lump sum basis & firm. Taxes & duties should be shown extra.

## **9. EARNEST MONEY:**

Bids shall be accompanied with Earnest Money amounting to **Rs 20,000.00** in the shape of Call Deposit / Demand Draft of any Nationalized Bank duly pledged in favour of the Dy. General Manager (F&A), APGCL, Bijulee Bhawan, Paltan Bazar, Guwahati-781001 payable at Guwahati. Bids received without EMD or less amount of EMD shall be rejected outright. The EMD of unsuccessful bidders shall be released on request. The EMD of the successful bidder shall be retained until submission of Security Deposit as per **Clause '10'** below. No interest shall be paid against the EMD.

## **10. SECURITY DEPOSIT CUM PERFORMANCE BANK GUARANTEE:**

On receipt of the formal Work Order, the successful bidder have to sign a contract agreement within 10 days and have to furnish a security cum performance bank guarantee for an amount equivalent to 10% of the total order value including taxes and duties . The BG shall be released after expiry of the Guarantee period. A copy of the BG format is enclosed as (**Annexure-I**).

## **11. VALIDITY OF THE OFFER:**

The offer shall be valid for a period of 120 (one hundred twenty) days from the date of opening of the bid.

## **12. GUARANTEE:**

The overhauling work shall have to carry guarantee against performance for a period of 06 (six) months or 4000 running hours, whichever is earlier from the date of completion of the work. Free service shall have to be provided pertaining to any defect that may develop under normal running condition of the machine during the guarantee period.

## **13. TERMS OF PAYMENT:**

100% payment shall be made after successful completion of entire works including successful commissioning of the unit

## **14. TIME OF COMPLETION OF WORK:**

All itemized works should be completed within the stipulated time frame as fixed for each item in the work schedule of APGCL in **Annexure-V**. If the contractor is found to be liable for the delay in completion from the offered time of completion, he shall be attracted to liquidated damage. However extension of annual maintenance works period beyond the specified period due to any major additional repairing work will be finalized by mutual agreement & in such case the LD **Clause 15** will not be applicable for that extended period. In such cases decision of CGM (G), APGCL will be final.

#### **15. LIQUIDATED DAMAGE:**

In case of failure of completing the job within the time of completion of work as referred in **clause 14**, Liquidated Damage @ 2% of the total contract value per day subject to a maximum of 15% of the contract value, shall be imposed on the bidder. The amount will be recovered from the bill of the contractor; however this is subject to Force Majeure **clause- 19**.

#### **16. PLACE OF WORK:**

Karbi Langpi (Lower Borpani) Hydro Electric Project is located in the Karbi Anglong District of Assam, about 155 Km from Guwahati by road. The nearest train station Kampur is 40Km away from the project site. The postal address of the project office is as follows.

O/O the General Manager,  
2x50MW, Karbi Langpi Hydro Electric Project,,  
Assam Power Generation Corporation Ltd,  
Lengry, P.O. Boithalangso-782 450,  
Dist. Karbi Anglong, Assam,

#### **17. DEVIATION:**

If the Bidder is asking for any deviation, the same is to be furnished in a separate sheet clearly in one place only.

#### **18. WORK SUSPENSION/ CANCELLATION:**

If the bidder is found failed to start/execute/complete work as per schedule for the Reason not attributable to APGCL, then APGCL has their full right to cancel or terminate the work with 7 (Seven) days notice to the bidder through E-mail followed by hard copy. In such case, the security deposit of the vendor will be forfeited. APGCL shall however judiciously review such kind of act of delay , work stop or non performance on the part of the bidder and shall issue one warning notice to the bidder (7 days duration) before issuing the termination / cancellation notice. This clause shall however not be applicable in case of force Majeure **Clause (19)**.

#### **19. FORCE MAJEURE:**

Force Majeure shall cover only act of God, Fire, war, Strikes, riots and civil commotion, act of Government etc. Any constraints other than those specified above will not constitute force majeure condition. In view of the other constraint beyond the control of the Contractor primarily due to statutory compulsion, extension of execution may also be considered on individual merit of the



case. In case of Force Majeure condition the contractor shall notify the purchaser such condition within 10(ten) days from the beginning of such delay in writing for consideration and acceptance.

## **20. GENERAL**

All prospective bidders are hereby notified that, before any bid submitted in response to this invitation is considered for award, the APGCL may ask for further statement of facts in details as to the previous experience of the bidder and the financial resource available with him for performing the contemplated work. The APGCL reserves the right to reject any bid for not complying with the above and is not liable to justify such rejection or accept the lowest rate.

Any other terms & conditions not specifically mentioned above shall be governed by "General Conditions for Supply and Erection of erstwhile APGCL".

Chief General Manager (G), APGCL

**ANNEXURE-I**

**Proforma of Bank Guarantee For Security Deposit cum Performance Bank Guarantee**

(To be stamped)

Bank Guarantee No.....

Date.....

Whereas ASSAM POWER GENERATION CORPORATION LIMITED (hereinafter called APGCL) which expression shall unless repugnant to the context or meaning thereof include its successor ,administrators and assigns has entered in to a contract agreement No       dated       with M/S.....( hereinafter called the 'Contractor') which expression shall unless repugnant to the context or meaning thereof include its successor, administrators, executors and assigns for Annual maintenance works of Unit#1 of 50MW Fuji make Vertical shaft Francis Turbine & Generator. Whereas by virtue of the conditions of the Contract, the contractor is required to furnish a Security Deposit cum Performance Guarantee from a Nationalized/Scheduled Bank for a sum of Rs.....(Rupees.....)

Only towards satisfactory performance of the disassembling, Overhauling/repairing & reassembling works of different TG parts and auxiliaries and also testing & commissioning work within the guarantee period of 6 months from the date of completion of the work.

In consideration of the APGCL entering into the contract aforementioned, we the (Name and address of the Nationalized/Scheduled bank) (Hereinafter called the Bank) which expression shall, unless repugnant to the context or meaning thereof include its successor, administrators, executors and assigns take into indemnity and keep indemnified the APGCL against any damage, injury or loss occasioned to it by any breach or violation of Guarantee stipulated in the aforementioned agreement and shall pay to the APGCL all sums demanded by it towards such, injury, loss or damage or penalties as and when demanded, not withstanding any difference between the APGCL and the Contractor or any dispute pending before any court, tribunal, arbitrator or any other authority provided that the total liability under this Bank Guarantee shall not exceed Rs..... (Rupees.....) only

Provided further that this guarantee shall remain in force till the expiry of the guarantee period stipulated in the order.

Provided further that this guarantee shall not continue in force beyond..... (Date) unless it is renewed at request of the APGCL by the Bank from time to time.

All claims under this Guarantee shall be preferred to the executants Bank before.....We ..... (Name and address of the Nationalized/Scheduled bank) hereby undertake not to revoke this guarantee during the period it is in force without obtaining the prior written consent of the APGCL . Notwithstanding anything contained herein before, our liability under this guarantee

shall be restricted to RS.....(Rupees.....) only our guarantee shall remain in force until.....unless it is renewed as aforesaid.

All rights of APGCL under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities there under unless the APGCL brings any suit or action to enforce a claim under this guarantee against the bank within Six months from the above mentioned date or from the extended date thereof.

Date .....day of .....2017

At .....

(Signature on behalf of the Nationalized/Scheduled Bank)

(Seal of the Nationalized/Scheduled bank)

**ANNEXURE - II**

**TECHNICAL BID**

The bidders are requested to ensure that the following points / aspects in particular have been compiled within their offer failing which the offer is liable to be rejected.

1. Please tick (√) the box, whichever is applicable, and cross (X) the box(es), whichever is/are not applicable (NA).

2. Please sign on each sheet.

3. This "Bid Information Sheets" duly filled in must be submitted along with the offer.

**(A) COMMERCIAL**

1.0 Whether requisite tender fee has been paid?

YES	NO	NA
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2.0 If so, furnish the following

- i) DD/Banker's Chaque no. and date .....
- ii) Name of the Bank .....
- iii) Value .....
- iv) Period of Validity .....

3.0 Earnest Money Deposit (EMD):

i) Whether requisite EMD has been enclosed?

YES	NO	NA
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ii) If yes, furnish the following

- a) Name of the Bank .....
- b) Value .....
- c) Instrument No. ....
- d) Date of Issue .....
- e) Period of Validity .....

4.0 If EMD exemption is claimed, whether copies of current and valid certificates from competent authority have been enclosed?      YES      NO      NA

5.0 Whether the period of validity of the offer is as required in the tender document?      YES      NO

6.0 If not, mention the extent of variation (You can use extra sheet also)      Extent of Variation

7.0	If the bidder is seeking business with APGCL (former Assam State Electricity Board) for the first time, has he given the details of parties to whom the bidder has provided services in past along with performance reports from the parties?	YES	NO	NA
8.0	Is the offer being sent by Regd. Post, Courier Services or proposed to be dropped in Tender Box?			
	Sent by Regd. Post		YES	NO
	Sent by Courier Services		YES	NO
	Dropped in Tender Box		YES	NO
9.0	Has the tender been prepared in sufficient Details clearly so as to avoid post tender opening clarifications?		YES	NO
10.0	Acceptance of the following clauses :			
	i) Security Deposit cum Performance Bank Guarantee clause:		YES	NO
	ii) Guarantee clause:		YES	NO
	iii) Terms of Payment clause:		YES	NO
	iv) Time Period for completion of Work clause:		YES	NO
	v) Arbitration clause:		YES	NO

**(B) TECHNICAL**

1.0 Whether experience certificate has been attached with the offer?

YES	NO
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**(C) BIDDER'S PAST EXPERIENCE PROFORMA**

SI. No.	NAME AND ADDRESS OF CLIENT(S)	BRIEF DESCRIPTION OF WORKS	ORDER VALUE	REMARKS

**NOTE: Certificate from client to be enclosed along with the above proforma.  
Past experience shall include works executed during last 5(seven) years only.  
(Use separate sheets if required)**

.....  
Signature and Seal of the Bidder

**ANNEXURE – III**

**PRICE BID**

1. Tender No. ....
2. Tender Name .....
3. Due Date .....
4. Validity of the Bid .....
5. Payment Terms .....

<b>PARTICULARS</b>	<b>IN FIGURES ( )</b>	<b>Unit-1</b>	<b>IN WORDS (RUPEES)</b>	<b>REMARKS</b>
Total Quoted Price				
Taxes, if any (please specify) ..... .....				
Other charges, if any (please specify) ..... .....				
<b>GRAND TOTAL</b>				

**NOTE:**

1. The above quoted prices shall be firm without any variation in any way till completion of Work at KLHEP site.
2. Statutory charges which will not be borne by the bidder must specifically be indicated in the above format, failing which the bidder shall bear the same and APGCL will not be liable for payment of such charges.
3. Any increase in Service Tax during the period of work until completion shall have to be absorbed by the bidder.
4. Use additional sheets if required.

.....  
Signature and Seal of the Bidder

**ANNEXURE-IV  
SCOPE WITH WEIGHT**

<b>SL NO.</b>	<b>ITEM DESCRIPTION</b>
<b>1</b>	<b>Air Duct TOP Cover (6 segments) wt 750 kg apprx.</b>
(i)	Dismantling
(ii)	Re-erection
<b>2</b>	<b>Generator Air Cooler, wt 3000 kg apprx.</b>
(i)	Dismantling
(ii)	Re-erection
<b>3</b>	<b>Generator Upper oil Cooler,(wt 20% of 600kg = 120kg)</b>
(i)	Dismantling
(ii)	Re-erection
<b>4</b>	<b>Lower Guide Bearing Works, wt 300 kg apprx.</b>
(i)	Unloading of oil & Dismantling of Guide
(ii)	Loading of oil & Re-erection of Guide
<b>5</b>	<b>Oil Sump Tank, strainer &amp; presure pipeline, (wt 5% of 1900 kg=95kg)</b>
(i)	Unloading of oil/Cleaning of Sump Tank & presure pipeline
(ii)	Loading of oil/Re-erection of Strainer & presure pipeline
<b>6</b>	<b>Job of opening/cleaning/fitting of spiral casing Manhole, wt 200kg apprx.</b>
(i)	Opening
(ii)	Re-fitting
<b>7</b>	<b>Job of opening/cleaning/fitting of water strainer system, wt 700 kg apprx</b>
	Dismantling of strainer for water & shaft seal system
	Re-erection of strainer for water & shaft seal system
<b>8</b>	<b>Filtering oil of 21 MVA GT, wt=33 KL(11KLx3)</b>



## ANNEXURE-V TIME SCHEDULE

**ANNEXURE:-**

**WORK SCHEDULE FOR CLEANING OF GEN AIR COOLER ALONG WITH FILTRATION OF TURBINE LUBE OIL AND 21 MVA GT OIL OF KHEP UNIT-1**

Sl. No.	Calendar Date	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	Days on blockwise activities	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
	ITEM	March - April 2018																	
1	Meeting & Preparation	Off Day / Reserved Day																	
2	Disassembly of Air Duct Cover	Off Day / Reserved Day																	
a	Disassembly of Air Duct Cover	Off Day / Reserved Day																	
b	Disassembly of Gen. Air Cooler	Off Day / Reserved Day																	
c	Disassembly of Gen. upper oil cooler	Off Day / Reserved Day																	
d	Disassembly of LGB Oil Guide/Pan	Off Day / Reserved Day																	
3	Repairing Work	Off Day / Reserved Day																	
a	Cleaning and pressure testing of Gen. Air Cooler	Off Day / Reserved Day																	
b	Cleaning of Gen. upper oil cooler	Off Day / Reserved Day																	
c	Unloading and Cleaning Oil sump tank and pressure pipe lines	Off Day / Reserved Day																	
d	Opening, cleaning & closing of water supply system	Off Day / Reserved Day																	
e	Filtering of existing Turbine Oil (UGB,LGB,TGB,OPU)	Off Day / Reserved Day																	
f	Filtering of existing Oil (21 MVA GTs)	Off Day / Reserved Day																	
4	Assembly work	Off Day / Reserved Day																	
a	Assembly of Gen. Air cooler	Off Day / Reserved Day																	
b	Assembly of Gen. upper oil cooler	Off Day / Reserved Day																	
c	Assembly of Air Duct Cover	Off Day / Reserved Day																	
d	Assembly of UGB Oil Guide/Pan	Off Day / Reserved Day																	
e	Opening, Inspection & closing of Spiral Casing Manhole	Off Day / Reserved Day																	
f	Loading of filtering oil (UGB,LGB,TGB,OPU)	Off Day / Reserved Day																	
5	Pre-Commissioning and Commissioning	Off Day / Reserved Day																	

Countersigned by

*[Signature]*  
20/11/17  
DAE, Lucknow  
APC, Lucknow

Prepared by

*[Signature]*  
20/11/17  
DAE, Lucknow  
APC, Lucknow