

DEEN BANDHU CHHOTU RAM THERMAL POWER STATION YAMUNA NAGAR

(A Unit of Haryana Power Generation Corporation Limited)

(Regd. Office : C-7, Urja Bhawan, Sector – 6, Panchkula)

Corporate Identity No. U45207HR1997SGC033517

Website : www.hpgcl.org.in



TENDER DOCUMENT

FOR

**Annual running contract (ARC) of TG System/ Equipments of
SEC, China Make installed at 2X300 MW DCRTTP, Yamuna Nagar.**

**DEEN BANDHU CHHOTU RAM THERMAL POWER STATION, HPGCL,
YAMUNA NAGAR**

E- Mail ID : xentg2.dcrtp@hpgcl.org.in

Mob. No. : 9354782003



NIT No:21/TG-II/ DCRTPP/260/2022-24

Dated:18/08/2022

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BRIEF SUMMARY OF NOTICE INVITING TENDER (e-TENDER)

Tender Enquiry No.& Date	NIT No:21/TG-II/ DCRTTP/260/2022-24 Dated:18/08/2022
Description of work	Annual running contract (ARC) of TG System/ Equipments of SEC, China Make installed at 2X300 MW DCRTTP, Yamuna Nagar.
Contract Period	24 Months and may extendable by three months at the discretion of HPGCL
Date of tender uploading	18/08/2022
Last date and time of submission of online tender	16/09/2022
Due date & time of opening of part – 1 tender.	19/09/2022
Tender fee (Non – refundable)	Rs. 1,180/-
E-service fees (Non – refundable)	Rs. 1,180/-
Earnest Money	Rs 2,35,955/-
Instruction to bidder on Electronic Tendering system.	Annexure – I
Instruction to bidder – Pre Qualifying Requirements (PQRs) / Eligibility Conditions for the tenders.	Annexure – II
General Terms and Conditions of Contract.	Annexure – III A
Technical Terms and Conditions of Contract.	Annexure – III B
Scope of work for Preventive Maintenance – Fixed charges preventive maintenance works (Part – A)	Annexure – IV A
Scope of work for Unit rate based works (Part – B)	Annexure – IV B
Rate quoting sheet /price bid (for Part-A; Fixed Part works) & (Part – B; Unit rate works)	Annexure – V
Statement of Bidder	As per Annexure-VI
Acceptance Certificate	As per Annexure-VII
Check list for Bidders	As per Annexure-VIII
Contact Information	Executive Engineer, T. G. Mtc. – II, DCRTTP, HPGCL, Yamuna Nagar. Mobile : 9354782003

ONLINE NOTICE INVITING TENDER (E-TENDER)

Chief Engineer/DCRTPP, HPGCL, Yamuna Nagar invites e-tenders in two parts from the reputed, registered and experienced firms for ARC of TG System/ Equipments of SEC, China Make installed at 2X300 MW DCRTPP, Yamuna Nagar for the year 2022-24.

NIT No.	Description	Period of contract	Tender Fee (Rs.) (Non-refundable)	EMD (Rs.)	e-service Fees (Rs.)	Last date of submission of EMD online	Last date of submission of Bids online
NIT No:21/T G-II/ DCRTP P/260/2 022-24 Dated :18/08/2022	Annual running contract (ARC) of TG System/ Equipments of SEC, China Make installed at Unit-I&II 2X300 MW DCRTPP, HPGCL, Yamuna Nagar for two years	Two years and extendable by three months at the discretion of HPGCL	1180/-	2,35,955/-	1,180/-	16/09/22	16/09/22

The Bidders can download the tender documents from the Portal: <https://etenders.hry.nic.in>

The Bidders shall have to pay for the Tender documents, EMD Fees & e-Service Fee online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and online payment authorization networks. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/ contractors online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT.

NOTE: If the tenders are cancelled or recalled on any grounds, the tender document fees & e-service fee will not be refunded to the firm.

The following are exempted from depositing the earnest money:-

- Public Sector Undertakings of the Central / Haryana State Government.
- Firms borne on D.G.S. & D/DS&D Haryana rate contracts.
- Firms registered with the Director of Industries, Haryana or registered with National Small scale Industries Corporation, Govt. of India.
- Firms borne on the HPGCL's approved list of suppliers which may have made a permanent earnest money deposit of Rs.10.00 Lacs at the respective Project/office of HPGCL, if they quote the Registration number given by the respective project/office of HPGCL in their tender papers.

The Tenderers can submit their tender documents (Online) as per the dates mentioned in the key dates

Sr. No.	Department Stage	Tenderer's Stage	Start date and time	Expiry date and time
1	Tender Authorization & Publishing	-	18/08/2022	18/08/2022
2	-	Downloading of Tender Documents, Bid Preparation & Bid submissions	18/08/2022 (18:00Hrs)	16/09/2022 (13:00Hrs.)
		Last date of submission of EMD online		16/09/2022
3	Technical Opening (Part-I)	-	19/09/2022	---
4	Short listing of Technical bids & Opening of Price Bid		Will be intimated to the firms on their e-mail	

Executive Engineer/TG-II,
For Chief Engineer/ DCRTPP,
HPGCL, Yamuna Nagar.

Instructions to bidder on Electronic Tendering System

1. Download of Tender Documents :

The tender documents can be downloaded free of cost from the e-Procurement portal <https://etenders.hry.nic.in>

2. Pre-requisites for online bidding:

In order to bid online on the portal <https://etenders.hry.nic.in> , the user machine must be updated with the latest Java. The link for downloading latest java applet is available on the Home page of the e-tendering Portal.

3. Online Viewing of Detailed Notice Inviting Tenders:

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at <https://etenders.hry.nic.in>.

4. Bid Preparation (Technical & Financial) Online Payment of Tender Document fee,e-Service Fee, EMD Fees of online Bids:

- i) The Bidders shall have to pay for the Tender documents, EMD Fees & e-Service Fee (Rs. 1180/-) online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and online payment authorization networks. The Payment for Tender Document Fee and eService Fee can be made by eligible bidders/contractors online directly through **Debit Cards & Internet Banking Accounts** and the Payment for **EMD** can be made online directly through **RTGS / NEFT**.
- ii) The bidders shall upload their technical offer containing documents, qualifying criteria, technical specification and all other terms and conditions except the rates (price bid) The bidder shall quote the price in price bid.
- iii) The tender shall be opened on due date by Tender Opening Committee comprising of Executive Engineer/TGM-II, AEE/TGM-II and a representative of finance/ account department.

5. Key Dates

The Tenderers can submit their tender documents (Online) as per the dates mentioned in the following format:

Sr. No.	Department Stage	Tenderer's Stage	Start date and time	Expiry date and time
1	Tender Authorization & Publishing	-	18/08/2022	18/08/2022
2	-	Downloading of Tender Documents, Bid Preparation & Bid submissions	18/08/2022 (18:00Hrs)	16/09/2022 (13:00Hrs.)
		Last date of submission of EMD online		16/09/2022
3	Technical Opening (Part-I)	-	19/09/2022	---
4	Short listing of Technical bids & Opening of Price Bid		Will be intimated to the firms on their e-mail	

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

If bidder fails to complete the Online Bid Submission stage on the stipulated date and time, his/hers bid will be considered as bid not submitted, and hence not appear during tender opening stage.

6. If the tenders are cancelled or recalled on any grounds, the tender document fees & e-service fee will not be refunded to the firm.

7. Unless exempted specifically, tenders not accompanied with the prescribed EMD/ Cost of Tenders shall be rejected. EMD/Cost of Tender shall be in the prescribed mode of payment as asked in the NIT; otherwise, the tenders shall be liable to be rejected.

8. The bidder shall ensure that payment of earnest money shall be made at least 48 hrs prior of the closing time of submission of bid.

9. The bidder can revise his bid any number of times but only before last date of submission of bid. All previous quotes are deleted & only the latest price quoted shall be visible on date of opening of price bid.

10. The validity of the tender/ quotation should be at least for 120 days from the date of opening of price bid.

11. The rate negotiations could be held up to L3 bidder, if the difference between the overall L1 (fixed rates+ unit rates) quoted rates and those quoted by L2 and L3 is within 5% of the L1 quoted rates. In case where the L1 bidder refuses to further reduce his offered price and the L2 or L3 bidders come forward to offer a price which is better than the price offered by L1 bidder, the bidder whose price is accepted becomes L1 bidder. However, in such a situation, the original L1 bidder shall be given one more opportunity to match the discounted price. In case of acceptance, he would be treated as L1 bidder.

12. The bidders / contractors shall observe the highest standards of ethics during the submission of tender, procurement and execution of the contract. In case of evidence of cartel formation by the bidder(s), EMD is liable to be forfeited.

13. The bidder shall bear all costs associated with the preparation and submission of his bid, and HPGCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

14. Chief Engineer, DCRTTP, HPGCL, Yamunanagar reserves the right to cancel the NIT or to change qualifying requirement or to reject any or all the tenders so received without assigning any reason.

15. **Preliminary Information for bidders :**

a) Registration of bidders on e-Procurement Portal:-

All the bidders intending to participate in the tenders processed online are required to get registered on the centralized e - Procurement Portal i.e. <https://etenders.hry.nic.in> Please visit the website for more details.

b) Obtaining a Digital Certificate:

i) The Bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.

ii) A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – <https://etenders.hry.nic.in>.

The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or

may obtain information and application format and documents required for the issue of digital certificate from: For queries on Tenders Haryana Portal, kindly Contact

Note:- Bidders are requested to kindly mention the URL of the portal and Tender Id in the subject while emailing any issue along with the Contact details. For any issues/ clarifications relating to the tender (s) published kindly contact the respective Tender Inviting Authority.

Tel: 0120-4200462. 0120-4001002

Mobile:8826246593

E-mail:- support-eproc[at]nic[dot]in

For any technical related queries please call at 2X7 Help Desk Number

0120-4001002

0120-4200462

0120-4001005

0120-6277787

International Bidders are requested to prefix 91 as country code

Email Support

A) For any issues or Clarifications relating to the published tenders, Bidders are requested to contact the respective Tender Inviting Authority
Technical – support-eproc(at)nic(dot)in

- iii) Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt the data and sign the hash during the stage of bid preparation & hash submission. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised **to keep a backup of the certificate** and also keep the copies at safe place under proper security (for its use in case of emergencies).
- iv) In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no-objection certificate/power of attorney /lawful authorization to that User. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.
- v) In case of any change in the authorization, it shall be the responsibility of management / partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person / user on behalf of the firm / company. The procedure for application of a digital certificate however will remain the same for the new user.
- vi) The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.
- vii) Bidders participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <https://etenders.hry.nic.in>.
- viii) For help manual please refer to the 'Home Page' of the e-Procurement website at <https://etenders.hry.nic.in>, and click on the available link 'How to..?' to download the file.
- ix) Before submitting tenders the instructions may be read carefully regarding submission of tender. If any bidder finds discrepancies or omissions in the tender documents or is in doubt as to the true meaning of any part, he shall clarify same from tender issuing office in writing before the due date and time of submission of the bid.

Executive Engineer/TG-II,
For Chief Engineer/ DCRTTP,
HPGCL, Yamuna Nagar.

INSTRUCTIONS TO THE BIDDERS**1. Pre Qualifying Requirements (PQRs) / Eligibility Conditions for the tenderers:-****A) The bids will be accepted from those reputed firms who fulfill the following qualifying/eligibility criteria and submit documentary evidences in support of the same:**

(i) The bidder should be Original Equipment Manufacturer / Supplier (OEM/OES) of Turbine or a registered vendor of HPGCL as per Vendor Registration Policy for the specific category of the work.

OR

(ii) Bidders who have successfully carried out erection, testing & commissioning of Turbine & Auxs directly or as sub vendor of BHEL or SEC, China / R Infra of Generating Unit of 110 MW & above and have minimum one year experience of Operation & Maintenance in the preceding 5 years ending on 31.07.2022.

OR

(iii) The bidder must have minimum one year experience of having successful executed Work Order(s) for maintenance of Turbine& Auxs. in HPGCL/NTPC/any SEBs/any PSUs/ any Corporations/ Central Govt./ State Govt. / Semi Govt. or in any Thermal/ Hydel plant during last 5 years on 31.07.2022

Experience of Execution of Work order:

The bidder must have experience of having successful executed Work Order(s) for the AMC work of TG and its auxiliaries of 110 MW or above rating power plant in HPGCL/NTPC/any SEBs/any PSUs. Any Corporations/ Central Govt./ State Govt. / Semi Govt. or in any Thermal/ Hydel plant during last 5 years ending last day of the month previous to the month in which applications are invited having minimum order value as under-

- i) Single work order of AMC /ETC/Overhauling of TG and its auxiliaries of value not less than of **Rs. 47.19 Lacs**
- Or
- ii) Two work orders of AMC/ETC/Overhauling of TG and its auxiliaries of value not less than of **Rs. 29.49Lacs each**
- Or
- iii) Three work orders of AMC/ETC/Overhauling of TG and its auxiliaries of value not less than of **Rs. 23.59 Lacs each**

Note:

1. In Case of ARC/AMC of work more than one year, estimated cost for the purpose of above eligibility criteria shall be taken for the first 12 months only. The criteria will not be applicable in case of less than 12 months contract where the minimum value of the order shall be required accordingly to the estimated cost of such work.
2. Similarly , if the bidder has a work order for a period of more than one year, the period and proportionate value of the order which have been completed prior the month in which applications are invited (duly supported by successful completion/execution certificate for such period/value) shall be taken into consideration for assessing the eligibility criteria.

B) TURNOVER:

Bidders must have average annual turnover in last 3 consecutive financial years ended prior to 2022-23 shall not less than Rs. 58.98 lacs.

C) The tender document of only those bidders shall be considered who fulfil the eligibility criteria and submit documentary evidences in support of same along with copy of performance certificate or repeat orders from the same organization in lieu of successful execution certificate for period/value. The work order value referred above is inclusive of all taxes and duties.

Note 1:-

Average Annual turnover = Sum of the Annual Turn Over of preceding three years / 3 (As per Audited Accounts).

Other income shall not be considered for arriving at annual turnover.

In case where audited results for the last preceding financial year are not available for determining the average turnover, certification of financial statements from a practicing Chartered Accountant shall be considered acceptable.

Note 2: -

The firm should fill statement of bidders as per Annexure-VI and submit authentic supporting documents for proving its credential. Original documents may be asked for verification at the time of finalizing the tender.

- D)** The bidder should possess EPF Account No. PAN No., ESI Registration Number and GST Registration Number.
- E)** The bidder should possess labour license from Labour Department of Haryana or the bidder has to given an undertaking that he will apply within one month from the date of issue of work order, if applicable.
- F) Eligibility of the black listed firms to participate in NIT:**
The firms who have been black listed by HPGCL or any other Central or State Power Utility / Board or Corporation or any other Thermal/ Hydro Electric project shall not be eligible to bid against the NIT of HPGCL. However,
- (i) In case the blacklisting of the firm is for a specific plant and not for the organization as a whole then such blacklisting will not tantamount to ineligibility of the bidder.
 - (ii) Blacklisting of the firm by any unit of the HPGCL shall be considered as ineligibility of the firm at any other project of HPGCL.
 - (iii) In case any firm was blacklisted for a limited period in past by any organization and presently such blacklisting has removed by such organization then it will not tantamount to ineligibility of the bidder.
 - (iv) Firm has to certify for itself for its eligibility with supporting documents to participate in the NIT stating that it has not been blacklisted by any organization presently, however in case at a later stage such certification found wrong then it will lead to misrepresentation of the facts and the firm shall be treated as blacklisted on this ground and action shall be taken as per regulation of HPGCL.
- G)** The Contractor is registered under contractor Labour (Regulation & Abolition) Act, 1970 and possess a valid licence for deploying the workers on the work or will obtain the same within 15 days of issuance of the work order.

Note: The firm should submit authentic supporting documents for proving its credential. Original documents may be asked for verification at the time of finalizing the tender. **A certificate to the effect that the tenderer is not black listed in last 05 years from any Public Sector undertakings of Central Govt. /State Govt./SEBs/Corporations has to be furnished by him.**

Decision of the HPGCL regarding fulfillment of pre-qualification requirement shall be final and binding upon the bidders.

2.
 - i. The Bidders shall have to pay for the Tender documents fees (**Rs. 1180 + 1180/-** as e-Service fees) and EMD (**Rs. 2,35,955/-**) Fees online by using the service of secure electronic payment gateway. The secure electronic payments gateway is an online interface between contractors and online payment authorization networks. The Payment for Tender Document Fee and e-Service Fee can be made by eligible bidders/ contractors online directly through Debit Cards & Internet Banking Accounts and the Payment for EMD can be made online directly through RTGS / NEFT.
 - ii. Cost of Tender and EMD in any other form shall not be accepted.
3. The Tender Document can also be seen on HPGCL website www.hpgcl.org.in.
4. Before submitting tenders the instructions may be read carefully regarding submission of tender. If any bidder finds discrepancies or omissions in the tender documents or is in doubt as to the true meaning of any part, he shall clarify same from tender issuing office in writing before the due date and time of submission of the bid. No arguments on this account whatsoever shall be entertained after the last date & time of submission of tenders.

5. The tenderer shall only be submitted on the centralized e - Procurement Portal i.e. <https://etenders.hry.nic.in>.
6. The tenderer will quote their rates STRICTLY AS PER THE RATE QUOTING SHEET.
7. Tenders through Fax / E-mail / telegraphic tenders shall not be considered. Incomplete, obscure or irregular tender is liable for rejection. If the tenderer deliberately gives wrong information in his tender, HPGCL reserves the right to reject such tender at any stage. The tenderer will quote their rates strictly as per details of specifications.
8. All tenders received against open tender enquiry irrespective of whether they are from the approved contractors on the registered list or others, shall be considered, , provided they are on the prescribed e-tendering process mentioned above.
9. Unless exempted specifically, tenders not accompanied with the prescribed EMD/ Cost of Tenders shall be rejected. EMD/Cost of Tender shall be in the prescribed mode of payment as asked in the NIT, otherwise, the tenders shall be liable to be rejected.
10. The validity of the tender/ quotation should be at least for 120 days from the date of opening of price bid.
11. The rate negotiations could be held up to L3 bidder, if the difference between the L1 quoted rates overall and those quoted by L2 and L3 is within 5% of the L1 quoted rates. In case where the L1 bidder refuses to further reduce his offered price and the L2 or L3 bidders come forward to offer a price which is better than the price offered by L1 bidder, the bidder whose price is accepted becomes L1 bidder. However, in such a situation, the original L1 bidder shall be given one more opportunity to match the discounted price. In case of acceptance, he would be treated as L1 bidder.
12. The bidders are required to quote lump sum fixed rate. The rates quoted shall remain FIRM during the contract period including extension period inclusive of all present & future levies, taxes, duties and any other tax levied by State/Central Govt. during the period. The tenderer's acceptance of this condition should be indicated along with the Bid. Ordinarily the deviation in terms shall not be considered.
13. No deviation from the terms & conditions of tender shall be accepted. Once bidder submits the tender online, it is presumed that all the terms & conditions are accepted including payment terms..
14. The bidders / contractors shall observe the highest standards of ethics during the submission of tender, procurement and execution of the contract. In case of evidence of cartel formation by the bidder(s), EMD is liable to be forfeited.
15. The bidder shall bear all costs associated with the preparation and submission of his bid, and HPGCL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
16. The whole work against this tender shall be awarded to a single firm whose overall annual quoted/equated prices are lowest for the complete package.
17. Chief Engineer, DCRTTP, HPGCL, Yamuna Nagar reserves the right to amend/ cancel the NIT or to change qualifying requirement or to reject any or all the tenders so received without assigning any reason.
18. **INSPECTION OF SITE OF WORK:** - Before tendering, the tenderer is advised to inspect the site of work, the environment & get acquainted with the actual work & other prevalent conditions, facilities available. No claim will be entertained later, on the ground of lack of knowledge.
19. **Disqualification of the Bidder:-**
 - i. Even though the bidders meet the above Qualifying Criteria they are subject to be disqualified, if they have made misleading or false representations in the forms, statements and attachments submitted in the proof of the qualification requirements.
 - ii. The Bidders shall supply partnership deed in case of partnership firm / Memorandum of Association and Article of Association in case of a company.
 - iii. Notwithstanding anything stated above Haryana Power Generation Corporation Ltd. reserves the right to assess the Tenderer's capacity to perform the contract should the circumstances warrant such assessment in the overall interest of the Haryana Power Generation Corporation Ltd. In this regard the decision of corporation will be final.
20. Conditions of the contract and other information can be had from the office of Executive Engineer/TG-II, DCRTTP, HPGCL, Yamuna Nagar (Email ID: xentg2.dcrtp@hpgcl.org.in), on any working day prior to last date of Downloading of Tender Documents & Bid Preparation.
21. **Opening of Tender:-**

The tenders will be opened in the office of Executive Engineer/TG-II, DCRTTP, HPGCL, Yamuna Nagar in the presence of authorized representative of the tenderers, if they so desire, at the time and date set for opening of tenders or in case any extension was given thereof on the extended tender opening date and time. Tenderer's authorized representatives (up to two persons) may attend the opening.

 - (i) The Price Bid (Part-II of the tender) shall be opened after Part-I of the tenders have been scrutinized and evaluated. The tenderers whose Part I have been approved, will be allowed to participate in opening of Price Bid (Part-II). The due date and time for opening of Price Bid (Part-II) shall be informed later on.

22. **Earnest Money:-**

The Tenderer shall deposit requisite Earnest Money along with the tender to ensure that the tenderer takes up the contract in right earnest. An EMD amounting to Rs 2,35,955/- (Rs Two Lakh Thirty Five thousand Nine hundred Fifty five only) is applicable which is to be paid online through RTGS/NEFT.

- i. The EMD of the successful tenderer will be adjusted against security deposit in the event of placement of order. EMD of unsuccessful tenderer will be refunded on finalization of contract.
 - ii. No interest shall be payable on Earnest Money Deposit.
 - iii. HPGCL reserves the right to forfeit Earnest Money Deposit or part thereof in circumstances which may indicate that the contractor is not earnest in executing the contract. EMD shall also be forfeited in case the bidder does not come forward for execution of the contract agreements and submission of balance security deposit.
 - iv. If the tenderer withdraws his tender at any stage during the currency of his validity period, the earnest money shall be forfeited in full in such cases.
23. If the tenderer withdraws his tender at any stage during the currency of his validity period, the earnest money shall be forfeited in full in such cases
24. All the fields of price bid shall be filled by the bidder and the bidder will quote their rates **STRICTLY AS PER THE RATE QUOTING SHEET AS PER ANNEXURE.**

Executive Engineer/TG-II,
For Chief Engineer/ DCRTPP,
HPGCL, Yamuna Nagar.

GENERAL TERMS AND CONDITIONS OF CONTRACT**1) a) CONTRACT PERIOD**

The period of contract shall be for two year from the date of issue of LOI/W.O. normally a notice of seven days shall be given for starting the job, but the contractor shall be able to mobilize his resources within 24hours, if necessary arises. The period of contract may be further extended up to three months at the same rates & terms and condition at the discretion of HPGCL.

b) CONTRACT AGREEMENT

The contractor shall execute a contract agreement with HPGCL on a Non Judicial Stamp Paper of appropriate value within 07 days of receipt of work order.

2) RATE/CONTRACT PRICE

Rate shall be quoted by the bidder, strictly as per rate quoting sheet and the agreed contract price shall remain firm during the currency of the contract. Any statutory taxes/levies, if to be charged extra, should be clearly indicated by tenderer in their offer separately, failing which it will be presumed that the quoted prices are inclusive of all such statutory taxes/levies.

3) EARNEST MONEY AND SECURITY DEPOSIT

The Tenderer shall deposit requisite Earnest Money along with the tender to ensure that the tenderer takes up the contract in right earnest. An EMD amounting Rs 2,35,955/- (**Rs Two Lakh Thirty Five thousand Nine hundred Fifty five only**) is applicable which is to be paid online through RTGS/NEFT.

The earnest money furnished by the successful tenderers on whom the work order is placed shall be converted into security deposits as a guarantee for faithful and satisfactory execution of the work order.

(The EMD of the unqualified bidders will be returned without any interest, as promptly as possible, within 30 days after declaration of qualification result and that of unsuccessful bidder within 15 days of the execution of the contract with the selected bidder).

SECURITY DEPOSIT: In case of successful bidder, the earnest money will be converted into security deposit. Security deposit @10% amount of the monthly running bill shall deducted from monthly running bills. The amount of 10% security deducted from bill. No claim for interest on security amount shall be entertained.

The security deposit of the contractor shall be retained by HPGCL for faithful execution of the contract.

Security deposit shall be released only after completion of the entire period of the contract and after completion of 30 days of Guarantee/Warranty period, on the certificate of Engineer In-charge /EIC for successful completion of Guarantee/Warranty period and submission of requisite documents like last EPF / ESI return by the contractor.

No interest shall be paid on EMD / Security Deposit for the period it remains deposited with HPGCL. The earnest money /security deposit shall be forfeited in part or in full under the following circumstances:-

- i) If the tenderer withdraws his tender at any stage during the currency of validity period.
- ii) If the W.O. has been issued but the contractor refuses to comply with it irrespective of the fact that HPGCL sustains any loss on account of such default or not.
- iii) In the event of a breach of contract in any manner.
- iv) In case of evidence of cartel formation by the bidder(s).
- v) If the contractor fails or neglects to observe or perform any of his obligations under the contract, it shall be lawful for the HPGCL to forfeit either in whole or in part, in its absolute discretion, the EMD/security deposit furnished by the contractor.
- vi) The forfeiture of EMD/security deposit shall be without prejudice to the right of HPGCL to recover any further amount or any liquidated and/or other damages as admissible under the law, under payments or over payments made to the contractor under this contract or any other contract as well as to take such administrative action against the contractor as blacklisting etc.

4) PAYMENT TERMS

Subjected to any deduction which the HPGCL may be authorized to make under this contract, the payment shall be made as follows

“90% payment shall be made against the running bill or monthly bills for the work done & balance 10 % shall be kept as security which shall be released after the satisfactory completion of the contract including the guaranty/warranty”. No interest shall be paid by HPGCL on the security amount.

5) MODE OF PAYMENT

Payment shall be released by the Sr. Accounts Officer/Accounts Officer, DCRTPP, Yamuna Nagar through RTGS/NEFT, in the ESCROW account of the contractor which shall be used by the contractor for payment of wages to the workers in their saving account and other statutory obligations like EPF/ESI/etc. For payment through RTGS/NEFT, the contractor will open the requisite ESCROW account by a tripartite agreement with HPGCL and State Bank of Patiala, within 7 days of issue of the work order and will intimate the complete bank details viz. Name of Bank/Branch, Account Number, Type of Account, IFSC Code etc, to Sr. Accounts Officer/Accounts Officer, No payment to the contractor shall be released other than in an ESCROW account opened for the purpose.

6) COMPLETION PERIOD

The completion period of the work as specified below shall be the essence of the contract.

The work shall be started within 7 days of issue of LOI / Work Order, whichever is earlier unless otherwise directed by the issuer of tender. The work shall be carried out and completed on month to month basis, as per the requirement of the contract.

The work shall be carried out/completed to match with other activities in progress of the unit.

The quantum of any item of the scope of work may increase or decrease to any extent, as per the site requirement, subject to the limit that total contract value shall not exceed by 10% of the contract value. Payment shall not be made for the work not done. In case of increase of quantum of work, the completion period of the contract will not change and the contractor will have to complete the job within stipulated period unless the completion period is extended in writing.

7) RISK AND COST

In case the contractor fails to full fill the contractual obligation, the work shall be got done from some other agency at the risk and cost of the contractor. It shall be without prejudice to the right of HPGCL to recover any further amount or any liquidated and/or other damages.

8) PENALTY FOR DELAY

If the contractor does not engage required manpower then the penalty as given below shall be levied on the contractor:

- i) Supervisor: Rs.750/- per day per Unit
- ii) Foreman: Rs.750/- per day
- iii) HP Welder: Rs.750/- per day per Unit
- iv) Crane Operator: Rs 750/- per day per Unit
- v) Technician: Rs.600/- per day
- vi) Helper: Rs.500/- per day

- If cleaning of equipment is not maintained properly then a penalty of Rs. 500/- per unit per day will be deducted from monthly lump sump charges under Part-A of that Unit.
- For the work covered under Part-B, penalty @ 1.0% per hour (if completion time is in hours) or @1.0% per day (if completion time is in days) shall be liable, subjected to max. 10% of total rate of that particular item. The completion period will be indicated in the indent/Job order.
- In case HPGCL, remains unable to supply the spares in time to the contractor after opening of any equipment and the contractor remains unable to complete the job in absence of these spares, then the contractor will be allowed the extension in schedule time to completion of that delayed equipment for the period for which contractor has not been provided with spares. This extension will be granted with the approval of SE/O&M-I/II. In case any spares, of the equipment under outage are to be repaired & machined in the workshop (O&M)/ Private sector and the job gets delayed, the extension in completion time will also be considered accordingly with the approval of SE/O&M-I/II. Nothing extra will be paid for idling time etc.

9) DOCUMENTATION

The contractor and the executive in-charge of the work shall ensure the following document before forwarding the bill of the contractor to the Accounts wing for pass and payment to avoid delay in payment of the contractor:-

- i) Contractor shall submit monthly bill in duplicate to the respective Executive Engineer of unit I & II along with the followings:
 - a) Monthly bill for the AMC / ARC work and in other cases bill for the work done, in duplicate. The bill should be on the contractor's bill book duly serially numbered and bearing date of issue, contractors EPF code, ESI code, GST number, PAN & TIN. A photo copy of the EPF code, ESI code, GST number, Labour license, PAN & TIN shall be attached with the 1st running bill for reference and record.
 - b) Self attested copy of the deposit challan of EPF & ESI contribution, labour welfare fund deposited by the contractor for the labour engaged for the work duly validated with dossier of workers and their account number in the appropriate prescribed performa.
 - c) Self attested copy of the attendance sheet, wages register and evidence of wage payment.
- ii) The bill of the contractor along with the annexure submitted by the contractor at i) above, should be approved and verified by the officer in-charge for gross value as well as net payable value and accompanied with the certificates/documents mentioned at iii) and iv) below.
- iii) Certificate from the Engineer in-charge that, a) Work has actually been done as per the contract and to the entire satisfaction of EIC. b) The copy of the EPF challan, ESI challan etc. submitted by the contractor pertains to the labour deployed at site and none of the worker has been excluded there from. c) The record entry of the work done has been taken in the small measurement book (SMB) at page no. _____ on dated _____. d) No penalty is leviable on the contractor on any account as per the contract if leviable the amount of penalty is _____. e) Copy of protocol and certificate for stage payment, if required.
- iv) Certificate from Labour Welfare Officer / Factory Manager stating that contractor has complied with all labour laws and safety clearance certificate (Quarterly) from safety officer. In case of non availability of Labour Welfare Officer/Safety Officer, from EIC.

Note:- Documents attached along with the contractor bill should be referred in the forwarding letter of the respective Executive Engineer forwarding the bill for pass and payment.

10) ENGAGEMENT OF ADEQUATE LABOUR

The contractor would station adequate working persons of the category like FM/ supervisor, technician / fitter, welder cum gas cutter, riggers, skilled / unskilled labour etc. and would deployed them in such a way that the maintenance work is carried out effectively and without any delay round the clock. The contractor will deploy minimum one No. technician / fitter and two no helper in each unit in morning & evening shifts & one no. technician & one no. helper in each unit in night shift. One no. high pressure welder having IBR certificate duly endorsed by CIB Haryana or high pressure welder having welding experience of at least 5 years will also to be deployed for both units I & II by the contractor in general shift and as & when required. One no. supervisor shall also be deployed by the contractor for both the units in general shift and as & when required for supervising execution of work by the contracting agency. One no. Foreman & one no. technician in each unit shall also be deployed by the contractor in general shift and as & when required. One no EOT crane operator shall be deployed in general shift and as and when required. However the contractor shall provide weekly rest to their staff as per factory act within the prescribed manpower. Above staff shall be strengthened by the contractor as per site requirement for timely execution of works mentioned under Annexure IV A and B. If more persons are required for completion of work in the time schedule as per emergency defined by Engineer – in – charge the same shall be arranged by the contractor without any extra payment to complete the work. It is also made clear that the deployment of the workers of contractors will subject to approval of Engineer– in– charge of the works.

The contractor would be responsible for the followings:-

- a. All the labour / work man deployed during the execution of the contract shall be adequately got insured by the contract at his own cost.
- b. Any mishappening / accident to any workmen at site of work & compensation payable to workmen on this account. All liabilities arising out of any provision of labour act/ workman's compensation act shall be the responsibilities of the contractor. Any expenditure incurred by HPGCL arising out of the negligence of the contractor would be recovered from his bills/ pending dues.
- c. The good conduct of all the workmen at work site.
- d. The loss/ damaged caused to the property of HPGCL or any other agency by the contractor or any of his workman / employee.
- e. The contractor may employ such employees, as he may think fit to ensure the execution of the work to the entire satisfaction of Engineer in Charge. The employees should not be deemed to be in the employment of HPGCL for any purpose whatsoever. The contract shall abide by the rules, laws and regulations that may be enforced from time to time regarding the employment conditions of service of his employees.
- f. Under no circumstances whatsoever, HPGCL would be held responsible to the labour of the contractor, HPGCL shall have the right to pass on the responsibility on the contractor for any expenses incurred by HPGCL as a result of certain dues on the part of employees of the contractor HPGCL shall be entitled to recover / claim dues / compensation from the contractor in that event.
- g. The labour /employees engaged by the contractor shall not be below the age of 18 years old and exceeding 60 years.
- h. Further the contractor would furnish an undertaking on non judicial stamp paper of appropriate value of each and every worker employed by him that the worker will not claim any lien as a worker of, HPGCL for the services, he is rendering to the contractor
- i. The contractor shall also indemnify HPGCL against any liability towards its labour for non-compliance of laws etc.

11) WARRANTY/ GUARANTEE

- I. The contractor shall give guarantee for the work done for a period of 90 days from the date of successful commissioning of equipment repaired. During the liability period, if any defect is observed in the equipment, which is attributed to poor workmanship or poor quality of material used by the contractor, the same shall be attended by the contractor at his own cost.
- II. During this period if some equipment(s), which has been attended by the contractor, is found to be defective, the same will have to be attended again without any additional charges to HPGCL. In such cases, warranty period shall start from the date of such repair/rectification. In case the contractor fails to respond within a reasonable time, the job will be got done from any other agency at the risk and cost of the contractor.

12) FORCE MAJEURE

The delay in the completion of the work may be treated as force majeure to the contractor only if:-

- a. The delay is resulted from any causes arising out of compliance with regulations, orders or instructions of the Central or State Governments, acts of God, acts of Civil & Military authority, fires, floods, strikes, lock-outs, freight embargoes, war-risk riots and civil commotion. and
- b. The contractor's request for extension of the delivery period along with all necessary evidence comes, before the expiry of the schedule date(s) of delivery.

13) IDLE LABOUR CHARGES

- a) No idle labour charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour being rendered idle due to any cause.
- b) In case of non operation of the unit/units, due to any reasons, on the prior instruction of HPGCL, of at least 7 days and work/activity is not carried out:
 - i) For up to one month, a deduction @ 35% payment of fixed rate works (Par-A) will be made.
 - ii) For more than one month, a deduction @ 50% payment of fixed rate works (Par-A) will be made.

14) OVER RUN CHARGES

No over run charges shall be paid in the event of the completion period being extended for any reasons.

15) WATCH & WARD

The watch and ward of T&P and other material will be the responsibility of the contractor.

16) FACILITIES TO BE ARRANGED BY CONTRACTOR

The contractor shall make his own arrangement for providing all facilities like lodging, boarding, furniture and transportation etc. for his supervisors/staff engaged by him for the job.

17) STATUTORY DEDUCTIONS

Statutory deduction on account of Income Tax, Works Tax & Sales Tax etc. including surcharge shall be made at source from the bills of the contractor at the prevailing rates.

18) FACTORY ACT/MINIMUM WAGES ACT/INSURANCE ACT/EPF ACT ETC.

Strict adherence of various applicable labour laws like the Factories Act, Minimum Wages Act, ESI Act, Payment of Wages Act, the Workman's Compensation Act, EPF Act, Contractor labour (Regulation & Abolition) Act, 1970 and all other statutory requirements as amended from time to time to the entire satisfaction of Central/State Govt. Authorities, shall be the responsibility of the Contractor and he shall have to make good loss, if any, suffered by HPGCL on account of default in this regard by the contractor. EPF/ESI contributions will be deposited by the contractor in his own EPF/ESI code no. in the respective account of the workers. The contractor will submit the copy of EPF/ESI challan to the Factory Manager, at the time of 90% payment along with corresponding list of workers

The contractor shall make the payment of wages to its labour in their saving account only. Documentary evidence thereof shall be submitted along with the running bills.

19) INSURANCE OF WORKERS

The contractor will be solely responsible for any liability for his workers in respect of any accident, injury arising out and in course of contractor's employment. To meet his aforesaid obligation under the workmen Compensation Act, The contractor shall obtain W.C. Policy from the Insurance Company for the persons employed by him for carrying out the work. The premium payable for the aforesaid Insurance Policy shall be borne by the contractor. The contractor shall ensure that the said Insurance Policy of this insurance cover is required to be submitted by the contractor to Engineer-in-charge of work immediately after issue of LOI, but before the start of work.

20) SAFETY RULES

A Firm shall have to comply with all the provisions of safety rules. The Chief Safety Officer may impose penalty of **Rs.200/- per day per head** if the workers of contractor are found to be working carelessly without proper protective equipments in unsafe conditions. Against violation of any other clause, a penalty of Rs 500 /- per violation (minimum) shall be levied. In case of repeated violation of serious nature resulting in various serious accident or direct loss to the corporation /threatens to cause severe consequences, higher penalty rates may be imposed including suspension/ termination of the contract. If any action is initiated by Chief inspector of factories, Chandigarh or any other authority against occupier/factory manager or any other authority of HPGCL in case of any fatal/non fatal accident or any other violation of factory act, 1948, Pb. Hr. factory rules, 1952 or any other industrial or labour act, the contractor shall be liable for the same and also to deposit the amount of fine/penalty if any. In case of default action as deem fit shall be initiated against the contractor.

A safety clearance certificate on quarterly basis from the chief safety officer shall be obtained by the contractor and has to be attached along with the bill.

This office reserves the right to claim adequate compensation from the contractor on account of any damage caused to the plant & equipment handed over to him for execution of the work, due to careless handling or negligence on the part of the contractor.

21) ARBITRATION

All matters, questions, disputes, differences and / or claims arising out of and / or concerning, and /or in connection with, and /or relating to this contract whether or not obligations of either or both Parties under this contract be subsisting at the time of such dispute and whether or not this contract has been terminated or purported to be terminated or completed, shall be referred to the Sole Arbitrator to be nominated by the Managing Director/HPGCL. The award of the Arbitrator shall be final and binding on both the parties to this contract.

22) LAWS GOVERNING CONTRACTS

All contracts shall be governed by the laws of India for the time being in force.

Irrespective of the place of delivery, place of performance or place of payment under a contract, the contract shall be deemed to have been made at the place from which the acceptance of tender has been issued.

Jurisdiction of Courts- All legal proceeding in connection with contract shall be subject to the territorial jurisdiction of local court at Yamuna Nagar (Haryana).

23) SET OFF

Any sum of money due and payable to the supplier under the contract (including security-deposit returnable to the supplier) may be appropriated by the HPGCL and set-off against any claim of the Corporation for the payment of a sum of money arising out of under that or any other contract entered into by the supplier with the HPGCL.

24) SUBLETTING and ASSIGNMENT

The Supplier shall not, sublet, transfer or assign the contract or any part thereof or interest therein or advantage thereof in any part thereof in any manner whatsoever without prior consent of the purchaser.

25) Any other work relating to preventive maintenance of the equipments not mentioned in Part A of scope of work but otherwise felt necessary will also be in the scope of contractor. No extra payment on this account will be made.

26) The frequency of works covered under Part B can vary depending upon site conditions. But the total value of the work order shall remain fixed for the period mentioned in the order.

27) The firm will intimate (in writing) the name of authorized representative at site to whom necessary instructions regarding the works can be imparted and who will make correspondence regarding contract related issues. The signature of so authorized representative shall be got attested from first class magistrate or Notary Public.

28) INSTRUCTIONS REGARDING GST CERTIFICATIONS:-

Stage-I: Floating of Notice Inviting Tender (NIT)

- It shall be ensured that the prospective bidders to submit copy of Registration Certificate under GST Act.
- The following undertakings (on the letter head of contractor) to be made part of mandatory documents to be submitted by all the bidders:
 - 1.1 GST registration is valid as on date.
 - 1.2 No default has ever been made by bidder in filing the various GST returns and deposit of GST dues with the department.
 - 1.3 Bidders having multiple registrations under GST will submit undertaking for each & every GST number. A default under a GST number even if the GST number pertains to some other state, will make the contractor ineligible to participate in tender.
In addition, the contractor will also submit the following undertakings in addition to above immediately after issue of work order with submission of each & every bill unless mentioned otherwise:
 - 1.4 Undertakings mentioned at 1.1,1.2 and 1.3.
 - 1.5 A CA certificate regarding validity of GST registration will be submitted every six months during the tenure of contract.
 - 1.6 Contractor will submit copies of GSTR I and GSTR 3B/challans as evidence to

deposit of GST with certification that GST collected from HPGCL, to be specified in exact rupees, has been paid to Govt. vide this challan (specifying the challan no. & date of deposit) and returns filed (date of filing of return) includes the transaction of services to HPGCL.

1.7 Contractor will inform immediately the HPGCL about initiation of any proceeding (if any) against him under the GST laws which may result in suspension or cancellation of GST number of the contractor.

1.8 Undertaking to indemnify the HPGCL in case of any financial implication on HPGCL due to non-compliance of prescribed obligation under the GST Law on part of the Contractor.

1.9 In case of ARCs/AMCs having duration above one year copies of GSTR 1, GSTR 2A and GSTR 3B along with copies of invoices raised to HPGCL, duly reconciled with three returns to be submitted on quarterly basis.

Stage-II Scrutiny of bids- (to be followed by bid screening committee)

- The GST registration status of contractors will be verified from the official website www.gst.gov.in
- The address of contractor, the place from which supplies will be made or the invoice will be raised mentioned in bid document should match with the GST registration number on the departments website. In case contractor is having multiple GST registration numbers, executive to ensure that GST number linked to place of contractor should be submitted to HPGCL.
- Filing status of following returns will be verified that the returns are being filed by contractor within due dates:

Return	Periodicity filing	Return for
GSTR1	Monthly	Outward supplies
GSTR2A	Monthly	Its auto populated on GST Portal on the basis of GSTR1
GSTR3B	Monthly	Payment of GST
GSTR9	Yearly	Compilation of outward and inward supplies, made during the FY
GSTR9C	Yearly	Analytical statement on GST returns certified by GST Auditor

- Verify that the undertakings as specified in NIT have been submitted by bidders. Failure to submit unconditional undertakings will render the bidder to ineligible at technical stager of evaluation itself.

Stage III: Award of contract / issue of WO – (to be followed by executive wing.)

- Work order to specify that in case of failure at the end of contractor regarding deposit of tax and in complying with conditions mentioned at Stage I &II, HPGCL will have right to recover the GST amount in default along with interest & penal amount and deposit the same directly with GST department on behalf of contractor to the credit of HPGCL.
- Contractor will undertake to immediately inform the HPGCL about any amendment in the GST certificate and to immediately submit the updated registration certificate.

Stage IV: Receipt of first invoice – (to be followed by executive and accounts wing)

- Executive wing to verify that the invoice is in performa as specified under GST laws(Section 31 to 34 of CGST Act read with rules 46 to 55A of the CGST rules deal with Tax invoice, credit notes and debit noted) with correct GST number of HPGCL so that no difficulty is faced by HPGCL while claiming input Tax Credit of GST due to incorrect GST number and also to reconcile the GST number and address of contractor as per invoice with the GST number and address given in tender submitted by contractor and submit the duly verified invoice to accounts wing.
- After the implication of the E-invoice w.e.f. 01 Oct-2020 generation of e-invoice from common e-invoice portal for B2B supplies by person having aggregate annual turnover of more than Rs. 500 Crs has been made compulsory. And w.e.f. 01Jan 2021 Generation of E-invoice for GST supplies by person having aggregate turnover of more than Rs. 100 Crs has been made compulsory and w.e.f. 01.04.2021 generation of E-invoice for GST supplies by the person having aggregate turnover of more than Rs. 5 Crs is proposed to made compulsory. The nodal officer / Engineer-in-Charge of the contractor / appointed officer of the respective plant should demand from the contractor E-invoice containing the invoice reference number (IRN) and QR code. It is worthwhile to note any tax invoice including tax credit / Debit note issued by such notified person for B2B supplies without following the e-invoice procedure shall not be treated as a valid document.
- Obtain a undertaking from the contractor who are not generating e-invoice in following format:

We M/shaving PANand GSTIN Registration Numberhereby undertake that our aggregate turnover (as per section 2(6) of Central Goods and Services Tax Act, 2017) for FY 2019-20 does not exceed the prescribed threshold (as on the date of this declaration) for generation a Unique Invoice Registration Number (IRN)and QR code as per the provision of Central Goods and Services Tax Act, 2017 and rules there under (“GST Law”). Further wee also undertake that if the aggregate turnover of M/sexceeds the current threshold or revised threshold notified by Government of India at any future date, then we shall issue invoice and credit note in compliance with the required provision of GST Law. In case of any quires from the any state or required provision of GST Law. In case of any queries from the any state or centre goods and services Tax authorities, M/s Will be Solely responsible.

Yours Truly,

For M/s

Authorized Signatory Name : Designation:

- Accounts wing to check Arithmetical Accuracy, Rate of GST charged & other calculations.
- In case there is difference in value of invoice due to deference in quantity or quality actually supplied GST will be applied on revised value of invoice.

Stage V: Receipt of IInd& subsequent invoice – (to be followed by Executive and Accounts wing)

- In addition to procedure mentioned in stage IV, following steps to be undertaken.
- All undertaking mentioned at stage I to be obtained & verified.
- GSTR 2A should be matched with amount of GST paid. In case the details are not there in GSTR2A, Issue needs to be taken up with contractor and GST consultant of HPGCL.

Others: (to be Followed by Executive and accounts wings)

- EMD and Securities / Bank Guarantees taken by HPGCL may be refunded only after payment of GST by Contractor which was charged from HPGCL.
- In case any issue arises wrt failure by the firm in GST compliance all future payments to be put on hold after having consultation with HPGCL’s GST consultant.

For Executive Engineer/TG-II,
Chief Engineer/ DCRTPP,
HPGCL, Yamuna Nagar.

TECHNICAL TERMS & CONDITIONS/SCOPE OF WORK

1. All consumables special adhesive like Anabond etc. Oxygen gas, welding electrodes (of reputed make – D&H, L&T, Adore InfoTech. etc.) Acetylene gas cylinders, welding electrodes, Paint (any reputed make – Asian, Burger, Dulux, Narolac etc.), paint spray gun /brush, cleaning agent, cotton wastes, emery paper, Kerosene, diesel, rustoline, and Hexa blades, PVC / Teflon Tape & Flexible pipe etc. will be arranged by the contractor.
2. Contractor has to make his own arrangement separately for each unit for welding set/welding generator set welding accessories and gas cutting set etc.
3. All tools and tackles like spanners, hammers, chain pulley blocks etc. separate for each unit shall have to be arranged the contractor. However available T&P like EOT Crane, electric hoist installed at site in TG & Auxs will be available to the contractor free of charge and contractor will be responsible for upkeep and Mtc. of the hoist without any additional charges.
4. The entire work shall be completed by the contractor within the time given by Engineer- in-charge and to achieve this contractor has to work round the clock. However, In case, there is any delay due to supply of spare parts in time or any Job involving machining etc. then time Extension shall be given accordingly by the Engineer-In-Charge.
5. Bolts/studs, nuts, grease, lubricants and gaskets, Seals and O rings etc. reqd. for any job will be issued free of cost by HPGCL.
6. The description of works and detailed scope of work has been given in Annexure IV A & Annexure IV B & Annexure V. However, in case of any new job, the rate shall be decided by HPGCL on the representation of the contractor, for the job entrusted to him not included in the scope of work. It will be obligatory on the part of the contractor to carry out left over jobs relating to the system.
7. Any temporary Platform etc. required to execute any work shall be in the scope of contractor.
8. The electricity for carrying out the welding/cutting & for site office near Unit-1&2 will be provided free. The contractor will be responsible to use the same judiciously.
9. The work shop facility during any job will be provided free of charges as per availability.
The transportation of job from site to workshop & vice versa will be in the scope of contractor.
10. The transportation of spares from O&M store to site store or place of work will be in the scope of contractor.
11. After attending the job, the area will have to be got cleaned/ cleared and scrap etc. to be removed from site. The transportation of scrap from site to O&M store will be in the scope of contractor. In case Engineer-in-Charge feels that the area has not been cleaned / cleared properly, HPGCL has the right to get the above work done from other agency at the risk and cost of the contractor.
12. The rates quoted by the firm will be firm & no rise/escalation will be allowed on any account.
13. If required, the space for office and store can be provided by HPGCL, near Unit-1&2.
14. The contractor has to start the work immediately after receiving written or verbal instructions from engineers in charge. For the work covered under Annexure IV-B, the completion time will be mentioned in the indent. If work is/not completed within stipulated period, the penalty as per clause - 8 of Annexure of General terms & condition will be liable.
15. The removal of insulation, G. I. sheet/ AL Sheet etc. to carry out any job & then normalization after completing the job will be in the scope of contractor.
16. In the opinion of engineer-in-charge, if the contractor is deliberately delaying the job, HPGCL will be free to get the work completed from other firm at the risk & cost of contractor. The expenditure so incurred & along with penalty as per clause 8 of General Terms & Conditions will be deducted from the bill.

Executive Engineer/TG-II
For Chief Engineer, DCRTPP
HPGCL, Yamuna Nagar.

SCOPE OF WORK FOR PREVENTIVE MAINTENANCE OF TG & AUX. OF UNIT # I & II OF 2X300 MW, DCRTPP, YAMUNA NAGAR.**Part-A**

1. Decoupling/coupling of various pumps of lube oil, governing, HP/LP Bypass oil system, Seal oil & Water pumps, fans & blowers etc. installed in TG area and other miscellaneous sites under TG Mtc. Divisions.
2. To make jammed valves free where complete dismantlement is not required.
3. Replacement of bottom 'O' rings/bearings, Oil seals, coupling bush, shoe pad, bowl gear, heater tank & float etc. for M.O.T centrifuge & central lube oil purifier including cleaning of centrifuge discs & M.O.T basket filters.
4. Greasing/Oiling & tightening of brakes of EOT cranes 125/25T of TG area including 25T crane of CW pump house along with repair/replacement of bearings of main hoist/Aux. hoist/LT/CT for E.O.T Cranes of TG area & CW pump house. Mechanical mtc. of misc auxiliaries hoists of TG area, chlorination plant & misc. pump house/CW pump house & raw water pump house.
5. Cleaning the threads of stems of valves & providing lubricants on them.
6. Topping up of oil in MOT & various other tanks, pumps, actuators, greasing of bearings of pumps and filling of N2 in bladders of HP BP/LP BP/EH fluid system.
7. Setting of safety valves of Deareator, Feed Storage tank, APRDS & HP Heaters/LP Heaters.
8. Cleaning of water strainers of BFPs, CEPs & ACWs and debris filters.
9. Attending of steam/water/oil/gas leakages of mild steel and carbon pipes, valves, bends & tees etc. up to 2" size by welding.
10. Replacement of bushes/coupling for electrical actuators on various valves in TG area.
11. Servicing of gauge glasses of HP/LP heaters, GSC, Deareator/FST, Vacuum pumps, CCW tanks and Condenser & M.O.T., H2SO4 dosing & storage tanks.
12. Replacement of gas system (H2/CO2/N2 for Generator) diaphragm/butterfly valves in TG area.
13. Replacement of glands in valves up to 2" size and tightening of glands of valves and pumps in TG area without dismantlement.
14. Cleaning of equipments and skids of oil/water in TG area for stator water system, seal oil system, HP/LP Bypass system, Turbine and generator and BFPs etc.
15. Cleaning/checking and replacement of O rings/seals/orifice/strainers/ filters of the Governing System/H2, Air Seal oil system/Lube oil system/Stator water system/HPBP/LPBP system/BFP duplex filters/Gland steam filters etc.
16. Cleaning of sliding surfaces of turbine casing supports & lubrication of the casings.
17. Replacement of Lead Gasket of LP Turbine diaphragm for LP turbine, replacement of resign in Stator Water System.
18. Cleaning of Separators, cone strainers and inlet strainers for condenser vacuum pumps and charging/collection of the rubber balls of condenser tube cleaning system.

Deployment of Manpower for Part-A Activities Preventive Maintenance of TG & AUX. of Unit # I & II of 2X300 MW, DCRTPP, HPGCL, Yamuna Nagar

Duty Time	Post Name	Unit-I	Unit-II
General shift and as an when required	Supervisor/Highly Skilled	1 no.	
	High Pressure Welder / Highly Skilled	1 no.	
	EOT Crane operator/ Highly Skilled	1 no.	
	Foreman/ Highly Skilled	1 no.	1 no.
	Technician Fitter (Skilled-A)	1 no.	1 no.
Night	Technician Fitter (Skilled-A)	1 no.	1 no.
	Helper (Semiskilled B)	1 no.	1 no.
Morning	Technician Fitter(Skilled-A)	1 no.	1 no.
	Helper (Semiskilled B)	2 nos.	2 nos.
Evening	Technician Fitter(Skilled-A)	1 no.	1 no.
	Helper (Semiskilled B)	2 nos.	2 nos.
Total Manpower for both unit		23 nos	

Executive Engineer/TG-II
For Chief Engineer, DCRTPP
HPGCL, Yamuna Nagar

DETAILED SCOPE OF WORK FOR PART-B OF EQUIPMENTS UNDER T.G. & AUXs.**A) BOILER FEED PUMP (6 NOS.) SCOPE OF WORK: -**

- A1 MECH. SEAL REPLACEMENT NDE SIDE OF BFP OR BOOSTER PUMP**
Disconnect piping, removal of bearing housing and thrust collar decoupling, checking of shaft lift at bearings. Removal of mech. Seals, cleaning & replacement of worn out parts, refixing of mech. Seal in position, installing bearing housing with proper shaft lift, rebuilding piping and box-up.
- A2 ALIGNMENT OF B/P & MOTORS**
Decoupling; check and correct alignment as per specification, removal & installation of hubs required. make clearances in rear bolts. blue matching and fitting axial keys, drilling of hole and reaming if necessary for redo welling.
- A3 NDE BEARING INSPECTION OF BFP / BOOSTER PUMP**
If Removal of all connecting piping, opening of bearing cover, removal of both half of bearing inspection, repair / replacement of bearings / housing and internals, centering of shaft if required proper box up.
- A4 DE BEARING INSPECTION OF BFP/BP & BFP MOTOR.**
Removal of all connecting piping opening of bearing cover, removal of both half of bearing inspection, repair / replacement of bearings and internals centering of shafts if required. Proper box- UP.
- A5 SUNCTION 'O' RING REPLACEMENT**
Decoupling removal of piping connections and removal of suction 'O' ring, back up ring, rubber 'O' ring, gasket, cleaning of mating faces, providing new 'O' ring and gasket, refixing of back up ring etc. rebuilding of pipe connections ,Coupling and box up
- A6 DISCHARGE 'O' RING REPLACEMENT BY REMOVAL OF CARTRIDGE**
Decoupling and removal of all piping connections and other hindering parts, removal of suction 'O' ring and retaining ring, opening of discharge cover nut and thread out cartridge on rails, proper cleaning of mating surfaces, providing new 'O' ring and back up gaskets. Threading in cartridge sequential tightening of discharge cover nuts, providing suction 'O' ring with new gasket, tightening of retaining ring, rebuilding of all piping connection, checking of alignment and correction if required as per standard valves box up and trial run.
- A7 ALIGNMENT CHECKING & CORRECTION HYDRAULIC COUPLING & BFP**
Decouple, check run out of the pump half coupling DBCF, alignment and correct as per standard values. Alignment to be within +/- 0.5mm. Provide properly cut, clean and minimum no. of shows. Lifting of pump from tight to loose condition should be less than 0.15mm (TIR). After alignment uniform clearance of 0.08 to 0.1 mm to be made between holding down bolts washer and pump heat. Axial keys to be blue matched and properly fitted. Coupling, box up and trail run.
- A8 ATTENDING PARTING PLANE LEAKAGE OF BOOSTER PUMP**
Decoupling, removal of piping connection lifting top cover. Removal of rotating assembly cleaning of water jackets by acid and water / air blowing, repair of parting plane, Casing defect and blue matching of parting plane. Cleaning of mech. Seal parts after cleaning (if required) and assembly back. Alignment checking and correction. Coupling and trial run.
- A9 REPLACEMENT OF BFP CARTRIDGE**
Decoupling, providing attachment for cartridge removal after disconnecting all piping, cleaning of all mating surfaces, removal of cartridge, threading in new cartridge, tightening the discharge bolt sequentially as per design value of torque. Checking of running float and 'C' valve adjustment as per requirement, providing suction 'O' ring, rebuilding of all removed piping, checking / correction of alignment. Coupling run out. and DBCF as per standard values. Box up and trial run. Shifting of removed cartridge and attachment to suitable storages place.
- A10 COOLING JACKET CLEANING OF BFP / BOOSTER PUMP (DE & NDE)**
Removal of all connected pipe of cooling jackets and clean the jacket by acid / water, box up of all the fittings with new gasket.

- B) HYDRAULIC COUPLING OF BFP (6 NOS.)**
- B1 (i) CHECKING OF BEARINGS**
Opening of the top cover of the hydraulic coupling, checking of all bearings, & box up of the hydraulic coupling.
- B1 (ii) SERVICING OF HYDRAULIC COUPLING (HC)**
Decoupling of hydraulic coupling from both ends, opening of top cover of hydraulic coupling checking of all clearances & replacement of bearings, other worn out / damaged parts of HC checking of top clearances of bearings & matching the same if required, taking out of old oil through cleaning of the tank / housing filling of fresh oil, servicing of internals of HC, checking & setting of the alignment of HC w.r.t. motor, coupling of HC with motor commissioning / trail run of HC in decoupled condition
- B2 BFP MOTORS**
- B2 (i) MECHANICAL WORKS FOR BFP MOTOR**
Decoupling of the motor from hydraulic couplings & booster pump, checking / replacement of the bearings DE / NDE of BFP motor, checking & setting of air gap & magnetic axis, alignment , coupling of the motor with booster pump & hydraulic coupling.
- C) CEPs (6 Nos.)**
- C1 CHECKING / REPLACEMENT OF CEP THRUST BEARING INCLUDING LIFTING & PLACEMENT OF CEP MOTOR**
Decoupling of CEP from its motor, lifting of the motor. Dismantling of CEP Thrust bearing, checking /replacement of thrust bearing internals, assembly of the thrust bearings, and placement of the CEP motor, coupling & commissioning of the CEP.
- C2 REPLACEMENT/OVERHAULING OF CARTRIDGE OF CEP**
Decoupling of CEP from its motor lifting of motor disconnection/ connection of water pipe, dismantling checking of CEP thrust bearing internals removal of the cartridge assembly from canster placing cartridge assembly, box up of the thrust bearing, placement of motor, alignment, couplings & commissioning of the pump.
- C3 REPLACEMENT OF MECH. SEALS.**
Removal of damaged of mechanical seal assembly and connected pipes fixing of mech. Seal or damaged parts, connecting of pipes.
- D DM CCW PUMPS (4 Nos.), AOP (2Nos)/EOP (D.C) (2Nos.), Seal Oil Pump(A.C)/DC (8No.)**
- D1 CHECKING/REPLACEMENT OF BEARINGS**
Decoupling of the pump. removal of the coupling. Checking / replacement of the bearings, alignment of the bearings, alignment of the pump with motor coupling & commissioning of pump.
- D2 SERVICING OF PUMPS**
Decoupling of the pump. removal of the coupling, checking / replacement of bearings. dismantlement of the pump, replacement / removal of the sleeves & glands, replacement of wear ring & impellers if required, checking / replacement of bowl assembly internals, replacement of gasket with proper cleaning, matching of pump casing, Box up of the pump, alignment ,coupling & commissioning of the pump.
- D3 REPLACEMENT OF MECHANICAL SEAL : -**
Removal of damaged mechanical seal, cleaning & installing new mechanical seals.
AOP (2Nos)/EOP (D.C) (2Nos.)Seal Oil Pump(A.C)/DC (8No.)
- E1 SERVICING OF PUMP AOP/EOP (D.C.):-**
Over Hauling of AOP/EOP excluding motor, taking out pump from MOT dismantling pump Components, inspection, rectification as required assembly and replacement of pump in position.
- E2 REPLACEMENT OF MECH. SEAL: -**
Removal of damaged Mech. Seal, cleaning and installing of new mech. Seals
- E3 CHECKING/REPLACEMENT OF BEARINGS**
Decoupling of the pump. Removal of the coupling. Checking / replacement of the bearings, alignment of the bearings, alignment of the pump with motor coupling & commissioning of pump.
- E4 Replacement of complete pump:-**
Decoupling of pump, replacement of pump assembly, alignment and coupling commissioning of pump.
- F JOP(6Nos), HP seal oil Pump (2Nos), E/H Fluid pump (4 No). HPBP Pump (4 No) stator water pump (4 No) HPBP filter pump.**

- F 1 COMPLETE PUMP OVERHAULING/ SERVICING OF PUMP.**
Remove the pump from its position, complete dismantling of the pump with relief valve, cleaning the internals replacing worn out parts of (if required) pump box up with alignment and coupling.
- F2 REPLACEMENT OF MECH. SEAL : -**
Removal of damaged Mech. Seal, cleaning and installing of new mech. Seals
- F3 CHECKING/REPLACEMENT OF BEARINGS**
Decoupling of the pump. removal of the coupling. Checking / replacement of the bearings, alignment of the bearings, alignment of the pump with motor coupling & commissioning of pump.
- F4 REPLACEMENT OF COMPLETE PUMP:-**
Decoupling of pump, replacement of pump assembly, alignment and coupling commissioning of pump.
- G CONDENSER TUBE CLEANING PUMPS, SUMP PUMS, LUB OIL TRANSFER PUMP, EH Recirculation Pump.**
- G1 SERVICING OF PUMPS**
Decoupling of pump from its motor, lifting of the motor dismantlement of the pump, checking /Replacement of the bearings, removal / replacement of sleeves, removal /replacement of mechanical Seal, checking / replacement of impeller, checking /replacement of oil seal pump side and internals, Box up of the pump, alignment & coupling and commissioning of the pump.
- G2 MECH. SEAL REPLACEMENT: -**
Decoupling of pump from motor, removal of coupling hub from shafts, opening bearing cover motor side, checking & replacement of oil seal motor side, re-assembly & commissioning of pump.
- G3 CHECKING/REPLACEMENT OF BEARINGS**
Decoupling of the pump. removal of the coupling. Checking / replacement of the bearings, alignment of the bearings, alignment of the pump with motor coupling & commissioning of pump.
- G4 REPLACEMENT OF COMPLETE PUMP:-**
Decoupling of pump, replacement of pump assembly, alignment and coupling, commissioning of pump.
- H Cleaning of MOT / DIRTY OIL TANK/ Clean Oil Tank**
Emptying of MOT/Dirty Oil tank/ clean oil tank Opening of manhole, lifting of trough filter, cleaning of trough filter, cleaning of MOT/Dirty Oil Tank,/ clean oil tank filling of oil to required level, placement of trough filter & closing of manhole.
- I REPLACEMENT OF N2 BLADER IN HPBP/ EH FLUID SYSTEM: -**
- I-1** Replacement of N2 bladder and associated works.
- J VAPOUR EXHAUST FANS FOR MOT/ LOOP SEAL OIL FANS/GSC FANS BLOWERS FOR SSF & CW CHLORINATION BLOWERS.**
- J1 SERVICING OF FANS/BLOWERS.**
Overhauling / Inspection of exhaust Fans. Removal of suction piping, fan cover, and taking out of impeller, inspection of fan components replacement of various components of fan fixing of impeller, alignment and Box up.
- K CONDENSER VACUUM PUMP (4 NOS.)**
- K1 CHECKING/REPLACEMENT OF BEARINGS**
Decoupling of the pump. Removal of the coupling. Checking / replacement of the bearings, alignment of the bearings, alignment of the pump with motor coupling & commissioning of pump.
- K2 SERVICING OF CONDENSER VACUUM PUMP**
Replacement of gland packing of removal of old gland packing and lantern ring inspection, cleaning and lubrication of bearings (changing of bearing if required). Inspection and servicing of system in let valve make up and overflow valve. Cleaning of Y-Strainers, in the system. Inspection of second stage rotor cane after dismantling and doing repair work as per requirement. Checking and correction of alignment. Proper box up of pump after general cleaning and making drain piping through inspection / replacement and re-commissioning vacuum pump assembly.
- L WELDING WORKS**
- LI CARBON STEEL PIPES/VALVES/BENDS/TEES ETC.**
Cutting of old damaged carbon steel pipes / bends / tees / valves etc. & replacing the same by laying, grinding / matching / aligning / welding for plugging the steam / water leakages. The pipe length shall not be more than 3 meter for sizes up to 4' dia size pipe. The measurement for the patchwork will be considered based on the length of the patchwork & its conversion to equivalent joints per inch.
- L2 M.S. PIPES / VALVES / BENDS / TEES ETC.**
Cutting of old damaged Mild steel pipes / bends / tees / valves etc. & replacing the same by laying, grinding / matching / aligning / welding for plugging the steam / water leakages. The pipe length shall not be more than 3 meter for sizes up to 4' dia size pipe. The measurement for the patchwork will be considered based on the length of the patchwork &

its conversion to equivalent joints per inch.

L3 ALLOY STEEL PIPES / VALVES / BENDS / TEES ETC.

Cutting of old damaged alloy steel pipes / bends / tees / valves etc. & replacing the same by laying, grinding / matching / aligning / welding for plugging the steam / water leakages. The pipe length shall not be more than 3 meter for sizes up to 4' dia size pipe. The measurement for the patchwork will be considered based on the length of the patchwork & its conversion to equivalent joints per inch dia. Pre-heating of the joints will be done & the welding will be done with chromotherme-2 electrodes or equivalent of the standard make.

L4 FABRICATION / ERECTION OF THE STRUCTURES BY WELDING PROCESS.

M VALVES

M-1 SERVICING OF VALVES

- a) Removal of actuators electrical / pneumatic.
- b) Dismantlement of valves, after removing of gland sealing lines & replacing back wherever required.
- c) Checking lapping & blue matching of valve seat / wedge / disc & to make the valve free from any passage.
- d) Repair/replacement of gland bush, Compression pin, diaphragm & spindle if required.
- e) Minor repairs of the seat / wedge / disc. etc. However, major repair will be got done by HPGCL.
- f) Box up of the valve & placing of actuators.
- g) Greasing / oiling of the valve spindle for proper opening.

M-2 REPLACEMENT OF GLAND PACKINGS IN VALVES:-

Opening of gland bush assembly removal of old gland packing, filling of the new glands & tightening of the same.

M-3 REPLACEMENT OF HPBP VALVES/LPBP (6No):-

Disconnection of the valve form hydraulic actuator removal of the internal of valve replacing/servicing of the damaged parts & boxup of the valve and connection of the same with actuator.

M-4 SERVICING OF CONTROL VALVES

- a) Removal of actuators electrical / pneumatic.
- b) Dismantlement of valves, after removing of gland sealing lines & replacing back wherever required.
- c) Checking lapping & blue matching of valve seat / wedge / disc & to make the valve free from any passage.
- d) Repair/replacement of gland bush, Compression pin, diaphragm & spindle if required.
- e) Minor repairs of the seat / wedge / disc. etc. However, major repair will be got done by HPGCL.
- f) Box up of the valve & placing of actuators.
- g) Greasing / oiling of the valve spindle for proper opening.

N REPLACEMENT OF GASKET IN FLANGES/ BONNETS

N1 ATTENDING OF STEAM / WATER / OIL / GAS LEAKAGE FROM FLANGES/ BONNETS

- i) Opening of flanges.
- ii) Removal of the gaskets.
- iii) The cleaning/ repair of the surface of the flanges.
- iv) Placing of the gasket / centering.
- v) Boxing up of the flange joint with uniform tightening.

N2 ATTENDING OF HIGH TEMP. STEAM LEAKAGE FOR MAIN STEAM LINE & HRH LINES BY REPLACEMENT OF SERRATIM RINGS.

- i) Opening of flanges.
- ii) Removal of the gaskets.
- iii) The cleaning/ repair of the surface of the flanges.
- iv) Placing of the gasket / centering.
- v) Boxing up of the flange joint with uniform tightening.

- Heaters/ Vessels (LP Heaters (8Nos.), HP Heaters (6Nos.), GSC 2Nos.) & FST/ Deareator (2 No.), CPU Vessels (6Nos.)

O1 LP/H.P. HEATERS (. HORIZONTAL)- SCOPE OF WORK

MANHOLE / WATER SIDE FLANGE LEAKAGES:-

- a) Removal / opening of water side flange / manhole of H.P. heater.
- b) Cleaning / minor repair of the surface of the flange.
- c) Replacement of the gasket in flange / manhole joint.
- d) Box up of flange / manhole joint with uniform tightening.

O2 TUBE LEAKAGE FROM HP HEATERS(6 No.) (.HORIZONTAL)

- a) Removal / opening of the waterside flange / manhole & inside main plates / covers of the H.P. heater.
- b) Air leak test of H.P. heater for ascertaining the leaking tubes
- c) Plugging of leaking tubes & plugs will be provided by HPGCL.
- d) Replacement of the gaskets in above covers / flanges
- e) Box up of the main covers ' flanges / main holes etc

O3 TUBE LEAKAGES OF L.P. HEATERS (8NO.) (HORIZONTAL) – SCOPE OF WORK

- a) Removal of side cover! flanges of the L.P. heaters.
- b) Checking of leaking tube by air pressurization / filling of water in L.P. heater drip side & the dummyming of the flanges etc. required for filling the water.
- c) Plugging of leaking tubes if any & plugs will be provide by HPGCL.
- d) Cleaning of the surface of the flanges and replacement of the gaskets in the side covers /flanges & other connected flanges if required.
- e) Box up of the heater.

O4 GSCS(2 No.) - SCOPE OF WORK

- a) Removal / opening of side flanges of GSC.
- b) Cleaning of the surface of flanges.
- c) Plugging of leaking tube if any. Plugs will be provided by HPGCL. The dummyming of various flanges required for checking of tube leakage.
- d) Replacement of gaskets in flanges of GSC

O5 CLEANING OF FST/Acid tank:-

Opening of manholes. Cleaning of FST/Acid tank, replacement of gasket and closing of manholes.

O6 CLEANING OF Hot-well:-

Opening of manholes. Cleaning of Hot well, replacement of gasket and closing of manholes.

P CONDENSER (2NOS) & C.W FILTERATION TANKS (10 NOS)

P1 CONDENSER TUBE LEAKAGES:-

Opening of manholes of front/rear side water boxes. Fixing of transparent tube for detection of water level up to tube nest level. Checking of the leaking tubes & plugging of leaking tube including temporary platform for plugging of tubes, closing of the manholes of the front/rear side water boxes.

P2 MANHOLE LEAKAGES FROM CONDENSER & C.W FILTRATION TANK:-

Opening of the manholes cleaning/repair of the surface replacement of gasket, box up of the manhole by uniform tightening of the bolts.

P3 TOP UP OF FILTER MEDIA IN C.W. FILTRATION TANK:-

Opening of the manholes of C.W. Filtration tanks topping up with filter media as per requirement, box up of the manholes by uniform tightening of the bolts

P4 REPLACEMENT OF FILTER MEDIA IN C.W. FILTRATION TANK:-

Opening of the manholes of C.W. Filtration tanks taking out the exhausted/old filter media, replacing/topping up with old/new filter media, box up of the manhole by uniform tightening of the bolts.

Q Cleaning of PHEs of CCW system/ lub oil system (8 Nos.)

Q1 SCOPE OF WORK

- a) Dismantlement of PHES.
- b) Cleaning of plates with Teflon brush.
- c) Replacement of gaskets / plates if required.
- d) Box up of PHES.

Q2 SEAL OIL COOLERS (8 No.)

- a) Removal of top / side cover of cooler along with other flanges if required.
- b) Lifting of cooler if required.
- c) Cleaning the cooler tubes with wire brush.
- d) Replacement of the gasket / O' ring.
- e) Hydraulic/air testing and plugging of leaking tubes if any plugs will be provided by HPGCL .Box up of the cooler & other above flanges.

Q3 LUB OIL & WORKING OIL COOLERS FOR BFPS

- a) Removal of top / side cover of cooler along with other flanges if required.
- b) Cleaning the cooler tubes with wire brush.
- c) Replacement of the gasket / 'O' ring.
- d) Hydraulic air testing and plugging of leaking tubes if any .Plugs will be provided by HPGCL.
- e) Box up of the cooler & other above flanges.

- Q4 VACUUM PUMP PHE (4 Nos.)**
a) Dismantlement of PHES.
b) Cleaning of plates with Teflon brush.
c) Replacement of gaskets / plates if required.
d) Box up of PHES.
- Q5 STATOR WATER COOLERS(4 No.)**
a) Removal of top / side cover of cooler along with other flanges if required.
b) Lifting of cooler if required.
c) Cleaning the cooler tubes with wire brush.
d) Replacement of the gasket / ' O' ring.
e) Hydraulic air testing and plugging of leaking tubes if any, plugs will be provided by HPGCL.
f) Box up of the cooler & other above flanges.
- Q6 MECH. SEAL COOLERS FOR BFPS (12 No.)**
a) Removal of top / side cover of cooler along with other flanges.
b) Cleaning the cooler.
c) Replacement of the gasket / 'O' ring.
d) Box up of the cooler & other above flanges.
- R SERVICING OF REFRIGERANT TYPE H2 DRYERS (4 NO.)**
Dismantlement of H2 dryer parts servicing of the same / filling of gas & box up of H2 dryers.
- S C.W. PUMPS (5 Nos.)**
- S-1 Checking / Replacement of Pump Thrust Bearings.**
Decoupling of the pump form its motor, lifting of the motor, dismantling of the thrust bearing assembly of thrust bearing, placement of motor back, alignment coupling of pump with motor, commissioning of the pump.
- S-2 SERVICING OF THE C.W. PUMP.**
Decoupling of the pump from its motor, lifting of the motor, inspection / dismantlement of pump thrust bearing, replacement of thrust bearing internals of thrust pad / collar float , cleaning replacement of bands & gland sleeves & shafts checking of run out of shaft, checking/replacement of impeller & other worn out parts, checking replacement of bowl assembly internals, box up of the pump, assembly of thrust bearing, fixing / placement of motor back, tightening of foundation bolts, alignment & coupling of the pump with motor commissioning of C.W Pumps.
- T ACW PUMPS (4 Nos.)**
- T-1 CHECKING / REPLACEMENT OF PUMP THRUST BEARINGS.**
Decoupling of pump form its motor, lifting of the motor, dismantling of pump thrust bearing. Checking / replacement of thrust bearing internals assembly of the thrust bearing, placement of the motor back, coupling of pump with motor, Commissioning of ACW pumps.
- T-2 SERVICING OF PUMP.**
Decoupling of the pump form its motor lifting of the motor, inspection / dismantlement of pump thrust bearing, replacement of bearings internals, opening / cleaning / replacing of glands, checking / replacement of wear rings, openings / removal of shaft sleeves, checking / replacement of impeller checking / replacement of bowl assembly internals box up of pump assembly of thrust bearing fixing / placement of motor back, tightening of foundation bolts, alignments, coupling of the pump with motor, commissioning of the pump.
- U RAW WATER PUMPS (3 Nos.)**
- U-1 Checking / Replacement of Pump Thrust Bearing.**
Decoupling of the pump from its motor, lifting of the motor, dismantling of the thrust bearing, Checking / replacement of the thrust bearing internals, assembly of thrust bearing, and placement of motor. Coupling of pump with motor, Commissioning of the pump.
- U-2 SERVICING OF THE RAW WATER PUMP.**
Decoupling of the pump from its motor, lifting of the motor, inspection / dismantlement of pump thrust bearing, replacement of thrust bearing internals, matching of thrust pad / collar float setting opening / cleaning / replacement of glands & gland sleeves & shafts. Checking of run out of shafts, checking / replacement of impeller & other worn out parts, checking replacement of bowl assembly internals. box up of the pump, assembly of thrust bearing, fixing / placement of motor, tightening of foundation bolts. Alignment & coupling of the pump with motor, commissioning of pumps.
- V SERVICE WATER PUMPS (3 NOS.), C.T. MAKE UP PUMPS (3 NOS.),**
- V-1** Decoupling of the pump form its motor, lifting of motor, dismantlement of the pump, by opening of the shaft / sleeves, checking of the run out the shafts replacement of sleeve / bush / bearings, checking / replacement of impeller, checking / replacement of bowl assembly internals

- box up of the pump, placing of motor back, alignment of coupling & commissioning of the pump.
- V-2** Decoupling, lifting of motor, checking / replacement of bearing, placement of motor alignments / coupling, commissioning of pump.
- W** **BOOSTER PUMP FOR C.W. CHLORINATION SYSTEM (3 NOS.) RAW WATER CHLORINATION, DEWATERING PUMPS, SIDE STREAM FILTRATION B.W. PUMPS (2 Nos.),CAUSTIC RECIRCULATION PUMP(2 NOS)**
- W-1** **CHECKING OF BEARING.**
Decoupling, lifting of motor, checking / replacement of bearing, placement of motor alignments / coupling, commissioning of pump.
- W-2** **SERVICING OF PUMP.**
Decoupling of the pump from its motor, checking / replacement of bearings, dismantlement of the pump, replacement of gland packing, checking / replacement of impeller, box up of the pump internals, alignment, coupling of the pump with motor, commissioning of the pump.
- X-1** **FOR CHLORINATION & ACID DOSING SYSTEM ACID ACID DOSING /TRANSFER PUMP, BASE DOSING PUMP.**
- X1-a)** **SERVICING OF PUMP.**
Decoupling of the pump its motor, checking / replacement of bearings, dismantlement of the pump, replacement of gland packing, checking / replacement of impeller, box up of the pump internals, alignment, coupling of the pump with motor, commissioning of the pump.
- X1-b)** **REPLACEMENT / CHECKING OF BEARING.**
Decoupling of the pump from its motor, lifting of motor, dismantlement of the pump, by opening of the shaft / sleeves checking of the run out the shafts replacement of sleeve / bush/ bearings. Checking / replacement of impeller, checking / replacement of bowl assembly internals box up of the pump, placing of motor back, alignment of coupling & commissioning of the pump.
- X-2** **ATTENDING OF ACID/BASE/CHLORINE DOSING LEAKAGES FROM VALVES/ FLANGES OF HDPE.**
- X2-a)** **REPLACEMENT OF HDPE PIPES.**
Replacement of HDPE pipes in the chlorination & add transfer system for C.W treatment pipe size 1' to 8" dia including laying heating & matching etc. using heating mirror or using fixing solution.
- X2-b)** **REPLACEMENT OF VALVES IN ABOVE SYSTEM.**
Removal of valve and replacement of new valve in the acid / base/ chlorine dosing lines/ tanks.
- X-3** **SERVICING OF CHLORINATORS.**
Attending of chocking of chlorine gas lines, cleaning/repair of the chlorinator by dismantlement checking/ replacement by internals, box up of the same.
- X-4** **SERVICING OF CHLORINE EJECTORS (3 Nos.)**
Ejectors (3 Nos.) opening of the ejector, repairs of the nozzle/ internal, replacement of the gasket box up of the ejector commissioning of ejector.
- Y.** **RE Joints of CW/ACW/CCW SYSTEM.**
- Y-1** **REPLACEMENT OF RE JOINT/CW LINES/1800MM.**
Opening of RE joint flange, cleaning of bolts and flange joint and replacement of new RE bellow with proper tightening.
- Y-2** **REPLACEMENT OF RE JOINT ACW/CCW LINES/600MM & 650 MM.**
Opening of RE joint flange, cleaning of bolts and flange joint and replacement of new RE bellow with proper tightening.
- Y-3** **SERVICING OF BUTTERFLY VALVES 1800 MM SIZES.**
Opening of valve, checking, cleaning, replacement of the worn out parts and box up the valve.
- Y-4** **SERVICING OF BUTTERFLY VALVES 600MM/650MM SIZES.**
Opening of valve, checking, cleaning, replacement of the worn out parts and box up the valve.
- Z** **PAINTING OF T.G. & AUXS. :**
- Z1** Enamel Spray painting : Two coats of enamel spray painting thorough cleaning & repair of all metal surfaces on equipments/ lines in TG& Aux. area.
- Z2** Two coats of spray painting by acid proof paint after thorough cleaning & repair of all metal surfaces on equipments/ lines in H2So4 dosing area.

Executive Engineer/TG-II
For Chief Engineer, DCRTPP
HPGCL, Yamuna Nagar

Rate Quoting Sheet/Price Bid of TG system/Aux Unit I & II for Two Years

Sr. no.	Description of work	Tentative Frequency (a)	Unit	Rate (Rs) (b)	Amount (Rs) (c=a*b)
	Part-A (Fixed part works)				
1	As per IV-A i.e. Supply of minimum 23 no. man power for preventive maintenance of T.G. & Auxs. enlisted below 01 no. Supervisors (Highly Skilled) 01 no. High Pressure Welder(Highly Skilled) - IBR certified duly endorsed by CIB Haryana or high pressure welder having experience of at least 5 years 01 no. EOT Crane operator (Highly Skilled) - minimum experience of at least 2 years 02 nos Foreman(Highly Skilled) - minimum experience of at least 5 years 08 nos Technician/Fitter (Skilled-A) - minimum experience of at least 2 years 10 nos Helper (Semiskilled B)	24	Month		
	Part-B (Unit rate works)				
A 1	A) BFP (6 Nos)	Replacement of Mech. Seals of BFP/BP	8	No	
A 2		Alignment of BP/ Motor	4	No	
A 3		NDE bearing inspection for BFP/BP	8	No	
A 4		DE Bearing inspection of BFP/BP & BFP motor	4	No	
A 5		Suction 'O' ring replacement	4	No	
A 6		Discharge 'O' ring replacement	4	No	
A 7		Alignment checking & correction of Hydraulic coupling & BFP	4	No	
A 8		Attending of parting plane leakage of Booster Pump	4	No	
A 9		Replacement of BFP Cartridge	4	No	
A 10		Cooling water jacket cleaning of BFP/ Booster Pump	4	No	
B1(i)	B) Hydraulic Coupling of BFP (6 Nos)	Checking of bearing of Hydraulic Coupling	4	No	
B1(ii)		Servicing of Hydraulic Coupling	4	No	
B2 (i)		Decoupling replacement/Checking of bearing & alignment of motor	4	No	
C 1	C) CEPS (6 Nos)	Checking / replacement of thrust bearing including lifting placement of motor	4	No	
C 2		Replacement/Overhauling of Cartridge of CEP	2	No	
C 3		Replacement of Mech Seal	4	No	
D 1	D) TG DMCW Pumps (4 Nos),	Checking/ Replacement of Brgs.	4	No	
D 2		Servicing of Pumps/ Replacement of complete pump.	4	No	
D 3		Replacement of Mech. Seals	2	No	
E 1	E) AOPs (2 Nos) EOP (DC) (2 Nos)/Seal oil pump (AC)/DC (8 Nos)	Servicing of Pumps	4	No	
E 2		Replacement of Mech. Seals	4	No	
E3		Checking /Replacement of Bearings	4	No	
E 4		Replacement of complete pump	4	No	

F 1	F) JOP (6Nos) HP Seal oil pump (2 Nos) Stator water pumps (4 Nos) EH pump (4Nos) HPBP oil pumps (4 Nos)	Complete pump Overhauling/Serviceing of pump	4	No		
F 2		Replacement of Mech. Seals	6	No		
F3		Checking /Replacement of Bearings	8	No		
F 4		Complete Pump replacement	4	No		
G 1	G) Condenser tube cleaning pumps, sump pumps, lub oil transfer pump, EH Recirculation Pump	Serviceing of Pump	4	No		
G 2		Mech. Seals Replacement	4	No		
G3		Checking /Replacement of Bearings	8	No		
G 4		Complete pump Replacement	8	No		
H 1	H)Cleaning of MOT / Dirty Oil tank / Clean oil Tank	Cleaning of any of above tank	4	No		
I 1	I) Replacement of N2 Bladders in HPBP / EH fluid System	Replacement ofN2 bladder in above system	8	No		
J 1	J) Vapour Fans for MOT / Loop Seal Oil fans / GSC fans / C.W treatment / SSF blowers.	Serviceing of Vapour Exhaust Fans/Loop seal oil fans/GSC fans/blowers for C.WT/SSF	6	No		
K 1	K)Condenser Vacuum Pumps (4 Nos)	Checking/Replacement of Bearing of condenser Vacuum Pumps	6	No		
K 2		Serviceing/Overhauling of condenser Vacuum Pumps	6	No		
L 1	L) Welding of C.S/MS/AS pipes/Valves bends/Tees etc.	Welding of Carbon steal pipes Valves bends /tees etc of above 2" size.	1200	Per Inch dia		
L 2		Welding of Ms Pipes Valves bends /tees etc. of above 2" size.	400	Per Inch dia		
L 3		Alloy steel pipes & S.S pipes Valves bends /tees etc.	400	Per Inch dia		
L 4		Steel structure	20	MT		
M 1	M) Valves	Serviceing of gate / globe/Diaphragm/ Safety valves	1000	Per Inch dia		
M 2		Replacement of gland packings in valves above 2" size.	600	Per Inch dia		
M 3		Serviceing of HPBP Valve/LPBP Valves	4	No		
M4		Serviceing of control valve	600	Per Inch dia		
N 1	N) Flanges	Replacement of gaskets in flanges/ bonnets	800	Per Inch dia		
N 2		Replacement of Serration rings/gaskets in main steam/HRH flanges.	200	Per Inch dia		
O 1	O) Heaters/Vessels (LP Heaters (8 Nos), HP Heaters (6 Nos), GSC (2Nos) & FST/Deaerator (2Nos) HP/LP flash tanks/Acid Tank.	Manholes / water side flange of LP Heater/ HP Heaters & FST/D/A & HP/LP flash tanks.	4	No		
O 2		Tube leakage of HP Heaters	4	No		
O 3		Tube Leakage of LP Heater	4	No		
O 4		Tube Leakage from GSC or flenge leakage	4	No		
O 5		Opening of Manhole of Deaerator /FST, Acid Tank & Clearing of FST	4	No		
O 6		Opening of Manhole of Hotwell & Clearing of Hotwell	4	No		
P 1	P) Condenser (2Nos) & C.W filtration tanks (10 Nos)	Attending of Tube Leakage	4	No		
P 2		Attending of Manhole Leakage from condenser & C.W filtration tanks	20	No		
P3		Top up of filter media in C.W. Filtration Tanks	8	No		

P 4		Replacement of filter media in C.W filtration tanks	4	No		
Q 1	Q) Cleaning of PHES(8Nos)/Seal oil Coolers(8Nos)/BFP Coolers (12 Nos) Condenser Vacuum pump PHES(2 Nos) & Stator Water Coolers (2Nos)	Cleaning of PHES of CC W System / Lube oil system	8	No		
Q 2		Cleaning of seal oil coolers	16	No		
Q 3		Cleaning of BFP Lube oil / working oil coolers including Hyd. Test	16	No		
Q 4		Cleaning of condenser vacuum pump PHES	16	No		
Q 5		Cleaning of stator water coolers	8	No		
Q 6		Mechanical seal coolers for BFPs	4	No		
R1	R) Servicing of refrigerant type H2 dryer (4 Nos)	Dismantlement of H2 Dryer parts, servicing of the same & box up of the H2 dryer	4	No		
S1	S) C.W. Pumps(5 Nos)	Checking/Replacement of Thrust Brg.	4	No		
S2		Servicing of C.W. Pumps.	4	No		
T1	T) A.C.W. Pump (4 Nos)	Checking/Replacement of Thrust Brg.	4	No		
T2		Servicing of A.C.W. Pumps.	4	No		
U 1	U) Raw water pumps (3 Nos)	Checking/Replacement of Thrust Brg.	4	No		
U 2		Servicing of raw water pump	4	No		
V 1	V) Service water pump (3No), C.T make up pump (3 No)	Servicing of pump	6	No		
V 2		Checking/ Replacement of Brgs.	6	No		
W 1	W) Chlorination booster pump, SSF back wash pump, raw water chlorine dosing pump , Caustic recirculation & Dewatering pump	Checking of Brgs.	6	No		
W 2		Servicing of pump	6	No		
X 1(a)	X-1) Acid dosing / Transfer pump , Base dosing pumps	Servicing of pump	4	No		
X 1(b)		Replacement/ Checking of Bearings	8	No		
X 2(a)	X-2) Attending of acid/Base/chlorine dosing leakage from various valves/pipes of HDPE etc.	Replacement of attending of water/acid/base leakage from HDPE pipes	800	Per Inch dia		
X 2(b)		Replacement of Valves in Chlorination/Acid dosing system	300	Per Inch dia		
X 3(a)	X-3) Chlorinators	Servicing of chlorinators etc.	4	No		
X 4(a)	X-4) Chlorine Ejectors	Servicing of Chlorine ejectors	4	No		
Y 1	Y) RE Joints of CW/ACW/CCW system	Replacement of RE joints of C.W lines(1800mm)	4	No		
Y 2		Replacement of RE joints of A.C.W lines of CCW line (600mm & 650mm)	4	No		
Y 3	Butterfly Valves	Servicing of butterfly valve of 1800mm size	4	No		
Y 4		Servicing of butterfly valve of 600 mm/650mm size.	4	No		
Z1	Enamel spray Painting in TG & Aux. Area	Two coats of enamel spray painting thorough cleaning & repair of all metal surfaces on equipments/ lines in TG& Aux. area	2000	Per m2		
Z2	Acid Proof Painting in Acid area	Acid proof painting on equipments/lines in H2So4 dosing area	200	Per m2		

- GST/Taxes applicable shall be extra as applicable (For Part-A & Part-B).
- The firm whose overall rates shall be lowest i.e. Total rates for Part-A and Part-B shall be considered as L1 firm.

For **Executive Engineer/TG-II
Chief Engineer, DCRTPP
HPGCL, Yamuna Nagar.**

STATEMENTS OF BIDDERS

1. Name of Bidder _____
2. Address of Head Office _____
3. Correspondence Address _____

4. Legal status
5. PAN & TIN Number of the Bidder (attached self attested photocopies)
PAN _____ TIN _____

CST No. _____.
6. Bank Details (attached signed cancelled cheque)
 - i) Bank Name & Address
 - ii) Bank Account Number
 - iii) Bank Branch Code
 - iv) IFSC Code of Branch
 - v) Nature of account (current/saving/OD/CC)
7. Main lines of Business
 - i. _____ since _____
 - ii. _____ since _____
 - iii. _____ since _____
8. Annual Turnover of past three year
 - i. _____
 - ii. _____
 - iii. _____
9. Past Experience:-

Name of Organization	Period	Reference of Contract	Order Value contract wise

10. Any other

Signature & Stamp of Bidder

Acceptance certificate

I _____ Designation _____

_____ of (Name of Company)

Here by accept the terms and conditions given on page no.-..... of the tender document

(NIT No:

Dated:06/06/2020).

For M/s _____

Date:

Place:

CHECK LIST FOR BIDDER

Sr. No.	Technical Specification	Bidder Response (Yes or No)
1.	Acceptance of all terms & conditions of tender.	
2.	Documentary Evidence regarding Qualification Criteria	
	i) Proof for possessing the Labour License from Labour Department, Govt. of Haryana or requisite undertaking.	
	ii) Permanent EPF Registration number from Provident Fund Commissioner.	
	iii) Experience Certificates duly attested for successfully providing work as prescribed in NIT.	
	iv) ESI Number.	
	v) PAN Number / TAN Number.	
	vi) GST Registration Number along with HSN code	
	vii) Proof Regarding Pre Qualifying Requirements (PQRs) / Eligibility Criteria.	
3.	Authority letter in the name of the Authorized Person who has signed the Tender Document / Price Bid on behalf of the Contractor / Company if any.	