NOTICE INVITING TENDER through e-tender

Chief Engineer/RGTPP, HPGCL, Khedar, Hisar invites Sealed Tenders in Two Parts for the Annual Running Contract for Operation & Mtc. of Complete Zero Discharge System at 2 x 600 MW, RGTPP, Khedar, Hisar.

<table>
<thead>
<tr>
<th>Tender ID</th>
<th>Description of Work</th>
<th>Period of Contract</th>
<th>Tender Fee (Rs.) (Non – refundable)</th>
<th>EMD (Rs.)</th>
<th>e-service Fees (Rs.) (Non – refundable)</th>
<th>Last date of Downloading of Tender Documents, Bid Preparation &amp; Bid Submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>36401</td>
<td>Annual Running Contract for Operation &amp; Mtc. of Complete Zero Discharge System at 2 x 600 MW, RGTPP, Khedar, Hisar.</td>
<td>2 years and may be extended by 3 months at the same rates.</td>
<td>1150/-</td>
<td>1,95,000/-</td>
<td>1000/-</td>
<td>12.06.2017 up to 17:00 Hrs.</td>
</tr>
</tbody>
</table>

Information Regarding Online Payment of Tender Document, e-Service & EMD Fee.

The Bidders can download the tender documents from the Portal: https://haryanaeprocurement.gov.in.

The Bidders shall have to pay for the Tender documents, EMD Fees & eService 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 & eservice fee will not be refunded to the agency.

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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Department Stage</th>
<th>Tenderer’s Stage</th>
<th>Start date and time</th>
<th>Expiry date and time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>Downloading of Tender Documents &amp; Bid Preparation</td>
<td>12.05.2017 at 15:00 Hrs.</td>
<td>12.06.2017 up to 17:00 Hrs.</td>
</tr>
<tr>
<td>2.</td>
<td>Technical Opening (Part-I)</td>
<td></td>
<td>13.06.2017 at 11:00 hrs.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Short listing of Technical bids &amp; Opening of Financial Bid</td>
<td></td>
<td></td>
<td>Will be intimated to the firms on their E-mail</td>
</tr>
</tbody>
</table>
Instructions to bidder on Electronic Tendering System

Annexure-A

These conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

1. 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://haryanaeprocurement.gov.in. Please visit the website for more details.

2. Obtaining a Digital Certificate:
   2.1 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.
   2.2 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://haryanaeprocurement.gov.in.
   2.3 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:

   M/s Nextenders (India) Pvt. Ltd.
   O/o. DS&D Haryana, SCO – 09,
   IIrd Floor, Sector – 16, Panchkula – 134108
   E-mail: Chandigarh@nextenders.com
   Help Desk: 1800-180-2097 (Toll Free Number)

   2.4 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).

   2.5 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.

   2.6 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.

   2.7 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.

3. Opening of an Electronic Payment Account:
   Tender document can be downloaded online. Bidders are required to pay the tender documents fees online using the electronic payments gateway service. For online payments guidelines, please refer to the Home page of the e-tendering Portal https://haryanaeprocurement.gov.in.
4. **Pre-requisites for online bidding:**
   In order to bid online on the portal https://haryanaeprocurement.gov.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.

5. **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://haryanaeprocurement.gov.in.

6. **Download of Tender Documents:**
   The tender documents can be downloaded free of cost from the e-Procurement portal https://haryanaeprocurement.gov.in.

7. **Key Dates:**
   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.

8. **Bid Preparation (Technical & Financial) Online Payment of Tender Document Fee, eService fee, EMD fees and Submission of Bid Seal (Hash) of online Bids:**

   8.1 The online payment for Tender document fee, eService Fee & EMD can be done using the secure electronic payment gateway. 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. The secure electronic payments gateway is an online interface between contractors and Debit card / online payment authorization networks.

   8.2 The bidders shall upload their technical offer containing documents, qualifying criteria, technical specification, schedule of deliveries, and all other terms and conditions except the rates (price bid). The bidders shall quote the prices in price bid format.

   8.3 Submission of bids will be preceded by submission of the digitally signed & sealed bid (Hash) as stated in the time schedule (Key Dates) of the Tender.

**NOTE:-**
(A) If bidder fails to complete the Online Bid Preparation & 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.

(B) 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://haryanaeprocurement.gov.in.

(C) For help manual please refer to the ‘Home Page’ of the e-Procurement website at https://haryanaeprocurement.gov.in, and click on the available link ‘System Requirement’ to download the file.
INSTRUCTIONS TO THE BIDDERS

1. Pre Qualifying Requirements (PQRs) / Eligibility Conditions for the tenderer:
The tender of only those bidders shall be considered who will produce documentary proofs in supports of following qualifying criteria:

- The bidder to be OEM of any R.O. Plant / Zero Discharge Plant / DM Plant with minimum capacity of 50 m³/hr per stream and having minimum one year experience in O&M of R.O. Plant / Zero Discharge Plant / DM Plant in preceding 5 years.

  Or

  Bidder to have minimum 2 years experience of O&M of R.O. Plant / Zero Discharge Plant / DM Plant having minimum capacity of 50 m³/hr per stream in the preceding 5 years.

- Bidder must have successfully executed the Work Order(s) for the same or similar item(s) / Work(s) during last 5 years having minimum value as under:
  - Single Work Order of the value not less than Rs. 34 Lacs
  - Two Work Orders of the value not less than Rs. 21 Lacs
  - Three Work Orders of the value not less than Rs. 17 Lacs
  The firm shall produce copies of work orders executed by them along with completion certificate / repeat work orders in support of their claim.

- Bidders must have average annual turnover in last 3 consecutive financial years ended prior to the current financial year not less than Rs. 49 Lacs

  Note: The Work Order value referred above is exclusive of all taxes and duties.

(i) A committee nominated by HPGCL shall evaluate all the bids for fulfillment of qualifying criteria.

(ii) Originals of any / all documents submitted by bidders while tendering, may be asked for verification at the time of evaluating the tender or anytime thereafter.

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

2. Period of contract is Two years and may be extended by three months at the discretion of HPGCL at the same rates and terms & conditions.

3. Before submitting tender online 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 parts, he shall clarify same from tender issuing office in writing before the due date of submission of the bid.

4. The “Application for Bidding” along with the “Terms and conditions of the contract and its all Annexure should be submitted duly filed up completely and signed on each page by the tenderer online. Work offered should be strictly according to the specifications of scope of work and to the terms & conditions of the NIT. Unless a deviation from the specifications and terms and conditions given in NIT is pointed out by the tenderer specifically, it will be presumed that offer/ Tender conforms to the specifications and terms and conditions as laid down in NIT.

5. The tenderer shall submit their tender in two parts- the first part containing documents for qualifying criteria, technical specification, schedule of deliveries, and all other terms and conditions except the rates (price bid), and the second part containing the rates (price bid) quoted for each item as well as other related terms like Works tax, Service Tax, VAT etc. as applicable.

6. All tenders received against this 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 form and in accordance with the Qualifying as well as other tender conditions and specifications.
7. Unless exempted specifically, tenders not accompanied with the prescribed EMD/Cost of Tender shall be rejected. EMD/Cost of Tender shall be in the prescribed mode of payment as asked in the NIT, otherwise, the tender shall be liable to be rejected.

8. The validity of the tender/offer shall be for 120 days from the date of opening of the price bid.

9. The rate negotiations could be held up to L3 bidder, if the difference between the L1 quoted rates and those quoted by L2 and L3 is within 5% of L1 quoted rates. In case where the L1 bidder refuses to further reduce his offered price and L2 or L3 bidder comes 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.

10. No deviation shall be allowed. However, in case of deviation of taxes etc., the same be loaded for comparison purpose.

11. 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.

12. The bidder shall bear all costs including bank charges, if any, 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.

13. CE/RGTPP, HPGCL, Khedar, Hisar 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 and will not be responsible and will not pay for any expenses or losses that may be incurred by the tenderer in preparation of the tenders.

14. 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.

15. The whole work against this tender shall be awarded to a single firm whose overall quoted/equated prices are lowest for the complete package.

16. The bidders shall supply partnership deed in case of partnership firm and Memorandum of Association and Article of Association in case of a company.

17. The contract shall come into existence immediately after the issue of LOI / WO, whichever is earlier.

18. Eligibility of the black listed firms to participate in NIT:
The firms who have been blacklisted by HPGCL or any other Centre or State Poser Utility / Board or Corporation / or any other Thermal / Hydro Elect. 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 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 36 and 37.

XEN/Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.
SCOPE OF WORK

Operation and Maintenance of Complete Zero Discharge System at RGTPP will be covered under this contract. The process description and Master Equipments List of the system are as follows:

PROCESS DESCRIPTION of Zero Discharge Scheme:

Raw water → Stilling chamber → Inlet chamber → HRSCR
Main → Multi Grade filter → UF → RO → DG
Tower → RO Permeate tank

Raw water is taken to stilling chamber; here Hypo is dosed to avoid bacterial contact. Passing through Parshall fume it collects into Inlet chamber. Lime, FeCl3 and poly are dosed in the HRSCR (high rate Solid contact reactor clarifier) at the rates of 10 ppm, 25 ppm and 1 ppm respectively. For each of Dosing Chemicals, two Dosing Tanks along with two Dosing Pumps have been provided in addition of two Bulk FeCl3 storage tank provided with two unloading pumps. Output Capacity of Clarifier is 355m3/hr and its clarified water is stored in clarified water storage tank whereas under gravity all sludge goes to sludge sump and sludge is transferred to Ash water sump by sludge transfer pumps.

After Clarified water storage tank, water shall be pumped to Multi Grade filter by 3 Nos. (2W+1S) MGF Feed pumps capacity of each pump is 190m³/hr. Four (4) Nos. (3W+1S) Multi grade filter vessels each of 120M³/hr are provided to reduce turbidity of feed water from 15 NTU to 2 NTU. Air scouring is done with 2 Nos. (1W+1S) air blowers before backwashing of MGF. Backwash is done by drawing water from Filter backwash overhead storage tank having capacity of 60m³. This tank is filled by taking tapping from MGF outlet.

Ultra filtration system is pressurized system and removes all suspended solid of particle size up to 0.1 micron, the system operates at recovery of 90% and is designed at flow rate of 115m³/hr with permeate flow of 103.5m³/hr along with Basket Strainer & cleaning system. The permeate from UF is stored in UF Product Water Storage Tank (UFPWST) of 310 m³ capacity and then pumped to RO section by 3 Nos. (2W+1S) RO feed pump having capacity of 170m³/hr. There are three chains operating in parallel in the UF section, with each chain designed to produce 103.5 m³/hr of permeate. Periodic cyclic Backwashing of UF is required. For this purpose, 2 Nos. (1W+1S) UF Backwash Pump of Capacity 224m³/hr shall be provided. UF Product water from UFPWST will be used for Backwash of UF. UF CEB system is provided with 1 No. dosing tanks for NaOH, Hypochlorite and HCl each and 2 Nos. (1W+1S) chemical dosing pumps for each of the three chemicals in addition of two Bulk HCL storage tanks provided with two unloading pumps.

The UF permeate shall be fed to RO section @ 340m³/hr with dosing of SMBS, Antiscalant and HCl to remove traces of free chlorine, reduce scaling potential and adjust its pH. This chemically treated water shall be fed to micron cartridge filters and Fed to high pressure RO feed Supply water pump to RO section. The RO module is
designed such that reject of stage -1 shall act as feed of stage-2 and permeate of both stages will flow to Degasser tower. RO system is designed for permeate production of 272m³/hr @ 80% recovery. Common Chemical cleaning system for RO section shall be provided comprising of chemical cleaning tank, micron cartridge filer and 2 Nos. (1W+1S) chemical cleaning pumps. The permeate water from RO is fed to DG tower in order to strip out dissolved CO₂ and collect water in permeate water storage tank of capacity 300m³. 2 Nos. (1W+1S) DG blowers of capacity 6800 m³/hr is provided to supply air to DG tower to strip off CO₂ from RO permeate. Permeate water is finally pumped to Cooling Tower forebay of the two cooling Tower, CWST or DM Plant Suction as per site requirement with the help of 3 Nos. (2W+1S) RO Permeate water transfer pump of capacity 150m³/hr, as cooling water make-up, thereby reducing fresh water intake for cooling water make-up in the power plant.

<table>
<thead>
<tr>
<th>EQUIPMENT LIST</th>
<th>MOC</th>
<th>SIZE</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stilling Chamber</td>
<td>RCC</td>
<td>1.9m (L) X 1.9m (W) X 3.6m (LD) + 0.3m (FB)</td>
<td>1</td>
</tr>
<tr>
<td>Inlet Chamber</td>
<td>RCC</td>
<td>2m (L) X 2m (W) X 3m (LD) + 0.3m (FB)</td>
<td>1</td>
</tr>
<tr>
<td>HRSCR</td>
<td>RCC</td>
<td>15m Dia x 4.5m SWD</td>
<td>1</td>
</tr>
<tr>
<td>Clarified Water Storage Tank</td>
<td>RCC</td>
<td>9.9m (L) X 9.9m (W) X 4.1m (LD) + 0.3m (FB)</td>
<td>1</td>
</tr>
<tr>
<td>Sludge Sump of each Comp</td>
<td>RCC</td>
<td>4.3m (L) X 8.6m (W) X 2.5m (LD) + 0.4m (FB)</td>
<td>1</td>
</tr>
<tr>
<td>Hypo Dosing Tank for PT</td>
<td>MSRL</td>
<td>0.8m Dia x 1.4m Ht</td>
<td>2</td>
</tr>
<tr>
<td>FeCl₃ Dosing Tank for PT</td>
<td>MSRL</td>
<td>1.3m Dia x 1.6m Ht</td>
<td>2</td>
</tr>
<tr>
<td>Lime Dosing Tank for PT</td>
<td>MSRL</td>
<td>1.1m Dia x 1.6m Ht</td>
<td>2</td>
</tr>
<tr>
<td>PE Dosing Tank for PT</td>
<td>MSRL</td>
<td>1.1m Dia x 1.6m Ht</td>
<td>2</td>
</tr>
<tr>
<td>Multi grade Filter</td>
<td>MSEPT</td>
<td>3200mm (I.D.) X 21000mm (H.O.S.)</td>
<td>4</td>
</tr>
<tr>
<td>Filter Backwash Overhead Tank</td>
<td>RCC</td>
<td>4.75m (L) X 4.75m (W) X 2.9m (LD) + 0.4m (FB+DD)</td>
<td>1</td>
</tr>
<tr>
<td>Ultra filtration Module</td>
<td></td>
<td>103.5m³/hr</td>
<td>3</td>
</tr>
<tr>
<td>Basket Strainer for UF</td>
<td></td>
<td>115m³/hr</td>
<td>3</td>
</tr>
<tr>
<td>UF Product Water Storage Tank</td>
<td>MSEPT</td>
<td>8m Ø X 7m Ht</td>
<td>1</td>
</tr>
<tr>
<td>Hypo Dosing Tank for UF</td>
<td>MSRL</td>
<td>0.9m Ø X 1.2m Ht</td>
<td>1</td>
</tr>
<tr>
<td>Acid Dosing Tank for UF</td>
<td>MSRL</td>
<td>0.9m Ø X 1.2m Ht</td>
<td>1</td>
</tr>
<tr>
<td>Caustic Dosing Tank for UF</td>
<td>MSRL</td>
<td>0.9m Ø X 1.2m Ht</td>
<td>1</td>
</tr>
<tr>
<td>MCF for RO</td>
<td>PP</td>
<td>5 micron</td>
<td>45</td>
</tr>
<tr>
<td>RO Module</td>
<td></td>
<td>18.9liter (7 elements)</td>
<td>3</td>
</tr>
<tr>
<td>SMBS Dosing Tank for RO</td>
<td>MSRL</td>
<td>1m Ø X 1.8m Ht</td>
<td>2</td>
</tr>
<tr>
<td>Antiscalant Dosing Tank for RO</td>
<td>MSRL</td>
<td>1m Ø X 1.8m Ht</td>
<td>2</td>
</tr>
<tr>
<td>Acid Dosing Tank for RO</td>
<td>MSRL</td>
<td>1m Ø X 1.8m Ht</td>
<td>2</td>
</tr>
<tr>
<td>CIP Tank for RO</td>
<td>MSRL</td>
<td>1.7m Ø X 3.5m Ht</td>
<td>1</td>
</tr>
<tr>
<td>MCF - CIP for RO</td>
<td>PP</td>
<td>20 micron</td>
<td>60</td>
</tr>
<tr>
<td>Degasser System</td>
<td>MSRL</td>
<td>2700mm DIA X 2800mm Ht</td>
<td>1</td>
</tr>
<tr>
<td>RO Permeate Tank</td>
<td>RCC</td>
<td>11m (L) X 11m (W) X 2.5m (LD) + 0.3m (FB)</td>
<td>1</td>
</tr>
<tr>
<td>HCL Storage Tank</td>
<td>MSRL</td>
<td>1.5m Ø X 4m LOS</td>
<td>2</td>
</tr>
<tr>
<td>FeCl₃ Storage tank</td>
<td>MSRL</td>
<td>2.2m Ø X 5m LOS</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PUMPS &amp; BLOWERS</th>
<th>CAPACITY</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGF Feed Pump</td>
<td>190m³/hr@40m WC</td>
<td>2W+15</td>
</tr>
<tr>
<td>Sludge Transfer Pump</td>
<td>70m³/hr@21m WC</td>
<td>2W+15</td>
</tr>
<tr>
<td>Hypo Dosing Pump for PT</td>
<td>18.5lit/hr@20mWC</td>
<td>1W+15</td>
</tr>
<tr>
<td>FeCl₃ Dosing Pump for PT</td>
<td>100lit/hr@20mWC</td>
<td>1W+15</td>
</tr>
<tr>
<td>Lime Dosing Pump for PT</td>
<td>5000lit/hr@20mWC</td>
<td>1W+15</td>
</tr>
</tbody>
</table>
PE Dosing Pump for PT | 90lit/hr@15mWC | 1W+1S
MGF Blower | 350m³/hr @ 3.5m WC | 1W+1S
Hypo Dosing Pump for UF | 720LPH @ 30m WC | 1W+1S
Acid Dosing Pump for UF | 140LPH @ 30m WC | 1W+1S
Caustic Dosing Pump for UF | 75LPH @ 30m WC | 1W+1S
UF Blower | 300Nm³/hr @ 8m WC | 1W+1S
UF Backwash Pump | 224m³/hr@23m WC | 1W+1S
RO Feed Pump | 170m³/hr@26m WC | 2W+1S
High Pressure Pump | 180m³/hr@125m WC | 2W+1S
RO CIP Pump | 90m³/hr @ 35m WC | 1W+1S
SMBS Dosing Pump for RO | 17LPH @ 35m WC | 1W+1S
Antiscalant Dosing Pump for RO | 17LPH @ 35m WC | 1W+1S
Acid Dosing Pump for RO | 17LPH @ 35m WC | 1W+1S
RO Permeate Transfer Pump | 150m³/hr @ 35m WC | 2W+1S
DG Blower | 6800Nm³/hr @ 100mm WC | 1W+1S
HCl Unloading Pump | 5m³/hr @ 10m WC | 1W+1S
FeCl3 Unloading Pump | 10m³/hr @ 10m WC | 1W+1S

A) FEED EFFLUENT QUALITY

<table>
<thead>
<tr>
<th>S. No</th>
<th>Parameter</th>
<th>Feed Effluent Value</th>
<th>Design Clarified Effluent value @ 2500 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>pH</td>
<td>7-8</td>
<td>6.5-7.0</td>
</tr>
<tr>
<td>2</td>
<td>Turbidity</td>
<td>100 NTU</td>
<td>100 NTU</td>
</tr>
<tr>
<td>3</td>
<td>TDS</td>
<td>1400 ppm</td>
<td>2500 ppm</td>
</tr>
<tr>
<td>4</td>
<td>M Alkalinity as CaCO₃</td>
<td>190 ppm</td>
<td>200ppm</td>
</tr>
<tr>
<td>5</td>
<td>Calcium as CaCO₃</td>
<td>750 ppm</td>
<td>1500ppm</td>
</tr>
<tr>
<td>6</td>
<td>Magnesium as Mg</td>
<td>65 ppm</td>
<td>180ppm</td>
</tr>
<tr>
<td>7</td>
<td>Sodium as CaCO₃</td>
<td>200 ppm</td>
<td>270ppm</td>
</tr>
<tr>
<td>8</td>
<td>Chlorides as CaCO₃</td>
<td>360 ppm</td>
<td>800ppm</td>
</tr>
<tr>
<td>9</td>
<td>Sulphates as CaCO₃</td>
<td>450 ppm</td>
<td>900ppm</td>
</tr>
<tr>
<td>10</td>
<td>Nitrate as CaCO₃</td>
<td>15 ppm</td>
<td>50ppm</td>
</tr>
<tr>
<td>11</td>
<td>Reactive Silica as SiO₂</td>
<td>48 ppm</td>
<td>40ppm</td>
</tr>
</tbody>
</table>

B) PRODUCT WATER ANALYSIS

<table>
<thead>
<tr>
<th>S. No</th>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Clarified Water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Turbidity</td>
<td>NTU</td>
<td>15</td>
</tr>
<tr>
<td>B.</td>
<td>Multigrade Filter outlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Turbidity</td>
<td>NTU</td>
<td>2</td>
</tr>
<tr>
<td>C.</td>
<td>Ultra filtration Outlet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>SDI Value</td>
<td></td>
<td>&lt;3.0</td>
</tr>
<tr>
<td>D.</td>
<td>Degasser Outlet after R.O.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>Residual CO₂ in Degassed Water</td>
<td>ppm as CO₂</td>
<td>5.0</td>
</tr>
<tr>
<td>E.</td>
<td>R.O. Permeate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>TDS</td>
<td>ppm</td>
<td>&lt;150</td>
</tr>
</tbody>
</table>

OPERATION

1. The scope of work includes complete operation of all the above system round the clock basis throughout the contract period.
2. Contractor will depute adequate skilled and experienced staff capable for operation of the plant / system covered under this contract.
3. Round the clock continuous monitoring of the above plant / system and equipments covered under this contract.
4. Contractor shall be responsible for loading, unloading and handling and storage of chemical required for the operation of the plants from store by arranging his own vehicle & manpower.
5. Contractor shall be responsible for routine analysis to be carried out for proper operation and water chemistry of all the system.
6. Contractor shall depute experienced Chemists / Analysts to carry out the analysis in the lab provided by RGTPP as per the schedule / requirement of HPGCL.
7. Contractor shall ensure working in all the three shifts for dosing of chemicals and their solution preparation for the plants.
8. Contractor will submit records of all analysis in format as per requirement of RGTPP.
9. Contractor will be responsible for maintaining all necessary documentation and records such as log sheets daily, weekly, monthly, performance reports, consumption reports etc. These documents shall be developed in consultation with RGTPP. Relevant important data shall be computerized for easy scrutiny of various parameters as well as graphical form as desired by RGTPP. Contractor will facilitate monitoring of the performance on the monthly basis by the first week of every month.
10. For collection of Gas and water samples empty bottle / cane as per standard will be arranged by the contractor.
11. Cleaning / sludge removal of all the sumps covered under this contract shall also be in the scope of contractor.
12. Housekeeping of all the equipments / instruments / panels which are to be operated by the contractor will also be in the scope of Contractor along with the associated surrounding area / building.

MAINTENANCE

Scope of work w.r.t. Mtc. of above plants.

C & I List of Equipments

1. The contractor has to maintain all types of controls & instrumentations equipment associated with Zero Discharge System.
2. Mtc. of all the computers & printers (SCADA system) shall also be in the scope of the firm.
3. Contractor has to carry out day to day routine preventive / breakdown maintenance.
4. Contractor has to carry out regular cleaning of all the Electrical and C&I panels.
5. Contractor has to carry out the maintenance of PLC systems (make-GE), UPS system (HIREL make) and its battery bank. So contractor has to deploy skilled manpower having knowledge of GE make PLC and HIREL make UPS system. Contractor has to avail services of M/s GE Automations, & M/s HIREL for preventive / Break down Maintenance at his own cost, if required.
6. Contractor has to maintain all type of online analyzers like pH, ORP, Conductivity etc. Contractor has to avail the services of OEM for preventive / breakdown maintenance of these analyzers.
7. Contractor has to keep adequate skilled manpower so that work does not suffer.
8. Laying, testing and termination of instrument / control cables.
9. Transportation of material within the plant, repair / welding of impulse lines, SS tubing etc.
10. Contractor has to maintain all Annunciation / Alarm system in healthy condition.
11. All the electrical inter locks, protections, maintenance of PLC system, maintenance of field instruments such as solenoid valves, switches (Pressure, flow, Temperature level etc.), transmitters, gauges, (Pressure, temperature etc.) etc. will also be in the scope of contractor. However, spares for the replacement of the damaged equipments / spares including indication lamps, control wires, pressure switches, solenoid valves or any other instruments etc. will be supplied by Electrical / C&I section of HPGCL and the work shall be carried out under supervision of respective divisions.

Calibration of Instruments

Contractor has to carry out calibration and servicing of all the online analyzers & all the field instruments like pressure gauges / switch, Temp. gauge / switch, level gauge/switch,
Transmitters, leak detectors and all type of analyzers, pneumatic actuators once in six months and a proper record of the same shall be maintained by firm, at its cost. If officer in-charge feel the need for calibration of instruments earlier than six months, it will be done by firm at its cost.

**ELECTRICAL MAINTENANCE**

The following electrical works will be in scope of contractor:-

(I) Cleaning & greasing of all electrical motors to up keep and maintain their record.

(II) Cleaning & tightening of electrical connectors of all modules / feeders periodically / during shut down to upkeep & maintain their record.

(III) Maintenance and attending routine faults of control panels and all outgoing breakers/ modules. Checking of contactors / kit /fuse, checking of overload relay, control circuit indication lamp, interlocking, protection system, checking/tightening of connections etc.

(IV) Removal, reconnection & tightening of connection of cables at motor & breaker/ modules end as and when needed. Checking / tightening of connection, burnt cable / lugs / socket to be replaced, replacement of cable (Making joint box), laying of cable, crimping of socket/lugs, checking of IR value.

(V) Replacement, servicing & upkeep of various hoists, cranes (electrical part) installed at various location.

**Maintenance of following electrical equipments are excluded from contractors scope of work:-**

- Power Transformers.

**MECHANICAL MAINTENANCE**

The scope of contractor shall be to carry out all running maintenance required for keeping the plant at maximum productivity level. The mtc. shall include day to day mtc, preventive mtc and break down mtc of all equipments & system / facilities in Zero Discharge System.

The mechanical mtc. shall cover servicing and replacement of damage parts of various pumps / blowers / agitators etc. and their piping, valves/actuators and hoists /lifting equipments installed in Zero Discharge system. Top up/ replacement of cartridges / filter media including handling and storage of chemicals shall also be in the scope of contractor.

The contractor shall keep all equipments, piping & structure etc of all plants clean. All leakages of oil / water & chemicals shall be attended on priority. Firm shall carry out cleaning / flushing of tanks, pipe line, vessels, welding and hydro tests as and when required. Transportation of material from store to site and return of scrap to store or any other specified area shall be in scope of contractor.

The scope of contractor shall include supply / provision of all consumable of reputed make like blades, streams cleaning agents, cotton waste & adhesive etc. All tools & tackles, ordinary welding electrodes, gases for cutting, torch, cells, hacksaw blades, lighting lamps & chain pulley block etc shall be arranged by contractor.

All spares for mtc. except the above said items, required for above equipments / systems shall be provided by HPGCL, however contractors will assess the minimum requirement of spares in coordination with HPGCL so that the equipments are maintained with minimum inventory cost.

The above mechanical mtc. is inclusive of all above equipments. Any of equipments / works not mentioned above but are part of above plant equipment or mechanical jobs or activities arising out of day to day plant operation shall be considered in scope of work.

The work done by the contractor shall be up to the entire satisfaction of the Engineer-in-Charge. If a spare part is required again and again due to the contractor's fault i.e. poor workmanship for example - coupling / spider damage due to alignment failure, electrical damage due to wrong connection, lubricants leakage etc. will be supplied by the contractor without any extra charges to HPGCL.
Note:-
1. Any other work which is not included in above activities but it is required for smooth operation & maintenance of Complete Zero Discharge System and samplings & analysis shall be carried by the contractor without any extra charges.

2. For above jobs, the contractor will deploy the adequate skilled manpower. In case of emergency, the contractor has to increase the work force as per site requirement without any extra charges to HPGCL

XEN / Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.
TECHNICAL TERMS & CONDITIONS

1. Consumables like MS / CS welding electrodes, oxygen and acetylene gas, cleaning acid (de-scaling material including tools), cloth, cotton waste, emery paper, sealing agent, anabond 666 or 610, kerosene oil, rustoline, hacksaw blades, grinding wheel, cutting wheel, carbon tetrachloride (CTC), lapping paste, Teflon tapes, araldite, soldering flux, solder, old dhoti, cleaning agent, flexible pipes for cleaning with instrument air, etc. and all small items required for handling & maintenance jobs will be arranged / provided by the Firm. In case contractor fails to bring sufficient, consumables to site without which HPGCL work is suffering, HPGCL shall be procuring the same from the market and recover from the contractor's bill @ 1.5 times the purchase price of the item. However, special electrodes etc will be provided by HPGCL.

2. The contractor has to make his own arrangement including leads, screws, oil, brushes, welding torch gloves, bulbs, wires & holders for temporary lighting at work place.

3. All tools & tackles like spanners, multi meters, megger, welding machine, current source, box-spanner, chain pulley blocks, pull lift, hydraulic jacks. Hoisting arrangement, portable grinding machine, tractor trolley, personnel protective equipments for safety of workers, safety belt, scaffolding material and other general purpose tools and tackles have to be arranged/ provided by the contractor for which contractor has to submit a certificate that arrangement of all the necessary T & P has been done by him which will be verified by the Engineer-In-charge.

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. Any number of jobs can be released for planned mtc/ overhauling and contractor has to carry out the work by deploying sufficient no. of workers in addition to attending to breakdown faults. However, in case of any delay in the supply of spare parts in time or any job involving machining etc., the time extension shall be given accordingly by the HPGCL.

5. All the spares except the consumables and Electricity supply for welding set / lighting, water and air etc. if required for any job will be issued free of charge by HPGCL.

6. The description of works has been given in the scope of work in Annexure-C of the tender document. However, in case of any new job which is not covered under the scope of the contractor, the rate shall be decided by HPGCL on the representation of the contractor. It will be obligatory on the part of the contractor to carry out left over jobs relating to the system.

7. The work shall be started immediately after getting written / verbal instructions from the authorized representative of the Engineer-in-Charge.

8. Any temporary Platform / scaffolding etc. required to execute any work shall be in the scope of contractor.

9. The electricity for site office at nearest point will be provided free of cost. The contractor will be responsible to use the same judiciously.

10. The transportation of material from site to workshop & vice versa will be in the scope of contractor. The contractor will assist the loading / unloading of spares, if the same are to be got repaired from any private workshop.

11. The transportation of all chemicals, filled/empty chemical drums, filter media etc. and spares & other material from O&M store to site store or place of work & transportation of scrap to store yard will be in the scope of contractor.

12. After attending the job, the area will have to be got cleaned / cleared and scrap etc. to be removed from site. 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.

13. If required, the space for office and store can be provided (if available) by HPGCL. The site office should be well painted and constructed in such a way that it should give a good look.

14. In case spares are not available at site or in store and same are required to be removed from any other unit / system within the plant, the contractor is bound to do the same without any extra cost.

15. The dismantled spares, new spares and chemical drums/containers etc kept at site for emergency use should be properly stacked, kept cleaned and covered properly in safe custody.

16. Contractor will arrange all measuring instruments like micrometers, vernier calipers, scales, dial gauge etc. for testing and calibration of the equipments.
17. Additional manpower will be required to be mobilized during transportation, loading/unloading, stacking and decanting acid/alkali from tankers to storage tank, solution preparation of chemicals etc and overhauling of any plant/system and the contractor will ensure adequacy of manpower so that works/overhauling are completed in time.

18. The contractor shall make an arrangement so that his authorized representative is available round the clock at specified location to take maintenance job on all days including Sundays / Holidays.

19. The contractor will ensure the presence of their representative i.e. Supervisor / contractor himself at the time of cancellation of PTW / running of equipment after completion of work.

20. Cleaning of dust from equipments of above said plants/system hoists and other pipelines will be done daily preferably between 06:00 AM to 10:00 AM. All equipments are to be maintained adequately cleaned dust free.

21. **Service Planning** Servicing of the Plants / Systems & their scheduled / preventive mtc. shall be planned in such a way that there is least interruption.

22. The firm will submit a detail operation and mtc. Schedule equipments wise to up keep the equipment based on daily, weekly, monthly and annual basis.

**23. Documentation:**
- **Daily maintenance:** Inspection of various equipment on daily basis and record all the details of daily maintenance activities that have been carried out in the Daily Diary Register.
- **Breakdown Maintenance:** Details of faults and work carried out during breakdown are to be recorded in the break down maintenance register.
- **Preventive Maintenance:** To follow the procedure the maintenance schedules of C & I / Electrical / Mechanical equipment cover in scope of work as per recommendation of OEM and execute the schedule and records the work carried out in the register.

24. Contractor will be responsible for maintaining all necessary documentation and records such as log sheets, weekly, monthly, performance reports, consumption reports etc. These documents shall be developed in consultation with Engineer-in-charge. Relevant important data shall be computerized for easy scrutiny of various parameters as well as graphical form as desired by Engineer-in-charge. Contractor will facilitate monitoring of the performance on a monthly basis by the first week of every month wherever possible. Also contractor will submit copy of all the maintained data daily, weekly and monthly in the requisite form to the Engineer-in-charge at his own cost.

25. Contractor will be responsible for routine analysis to be carried out for proper operation and water chemistry of all the plants. He may be allowed to use lab instrument for the testing.

26. Contractor will depute experienced Chemist to carry out the analysis in the lab provided by RGTPP. Contactor will submit records of all analysis in format as per requirement of RGTPP.

27. Contractor will ensure working in all the three shifts for dosing of chemicals and their solution preparation. The contractor will monitor, analyzed and ensure the parameters of effluent discharge as set by pollution authorities and other systems included in the scope of work.

28. The contractor will ensure collection and analysis of water samples of above plants in all three shifts. And testing of all type of water samples from inside the plants & as per requirement/instructions of Engineer-in-charge/Chemist-in-charge will be in the scope of Contractor.

29. All the testing chemicals and bulk chemical will be provided by RGTPP. at the stipulated storage area. The contractor will do further unloading/handling/stacking. Quantity of chemicals to be unloaded may vary as per requirement.

XEN/Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.
GENERAL TERMS & CONDITIONS

1. **PRICES**
The rates shall be firm inclusive of taxes & statutory duties (only service tax if claimed will be given at the prevailing rates) during the period of contract.

2. **PERIOD OF CONTRACT**
The period of contract shall be for **two years** from the date of commencement of work. A notice of seven days shall be given for starting the job, but the contractor should be able to mobilize his resources within 24 hours, if necessity arises. The period of contract may be extended up to **three months** at the same rates & terms and conditions at the discretion of HPGCL.

3. **PENALTY / DEDUCTIONS**
   a) In case of non-performance of any assigned work deduction shall be made @ 1% of monthly value of the complete System / w. o. for each particular instance, limited up to 10% of the monthly value of respective systems.
   b) Penalty @ 1% of monthly contract value of system per day shall be levied if proper cleaning in plant/system not found as per satisfaction of Engineer-in-charge/chemical-in-charge.
   c) If the working persons are found inadequate then a penalty of Rs. 200/- per Person per shift shall be levied.
   d) If any contractor's employee found without uniform, the penalty @ Rs. 50/- per person per day will be imposed. Penalty due to clause no. (a) to (d) of above shall be subjected to max. 20% of the total monthly contract value (total order value) in a month without prejudice to the penalty terms & conditions under other clauses.
   d) **Non achievements of guaranteed parameters:** If any parameters are found out of prescribed range as recommended by OEM during the checking by HPGCL or third party testing, a penalty of @2.5% of the monthly contract value will be deducted on each instance for each parameter.
   e) If any of the contractor’s Staff / Worker found absent, the penalty of each absent of each contractor staff will be as under:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Absent Staff</th>
<th>Penalty to be deducted from monthly running bill</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Site-in-Charge</td>
<td>225% of his daily wages</td>
</tr>
<tr>
<td>2</td>
<td>Operators – cum-supervisors</td>
<td>185% of his daily wages</td>
</tr>
<tr>
<td>3</td>
<td>Chemist</td>
<td>200% of his daily wages</td>
</tr>
<tr>
<td>4</td>
<td>Technician / Electrician / Foreman / Fitter</td>
<td>185% of his daily wages</td>
</tr>
<tr>
<td>5</td>
<td>Helper</td>
<td>175% of his daily wages</td>
</tr>
</tbody>
</table>

f) **Deduction on account of non operation of unit/units**
   - For the period when both units will be in operation, 100% payment of monthly contract value shall be made for that period on prorate basis & contractor will deploy tentatively 21 Nos. manpower.
   - For the period when single unit is under operation, 65% payment of monthly contract value shall be made on prorate basis. However, contractor may reduce the manpower to tentatively 15 Nos. for that period.
   - For the period when none of unit is under operation, 50% payment of monthly contract value shall be made on prorate basis. However, contractor may reduce the manpower to tentatively 10 Nos. for that period and the contractor shall deploy adequate highly skilled/unskilled manpower restricted to 10 numbers so that general Mtc. / routine operation & upkeep of the system does not suffer.

**Note:** 1. Operation/Shutdown of more than 12 hrs. will be treated as full day for above purpose.
   2. If one or both the unit is/are placed under shutdown due to backing down or any other reason, Contractor has to be served only 2 days notice and his payment will be deducted/regulated after 2 days till Unit/units are lighted up.
4. **FORCE MAJEURE**
Contractor shall not be liable for any delay for reasons arising out of compliance with regulations, orders or instructions of Central / State Govt., acts of the God, acts of civil and Military authorities, fires, floods, strikes, lockout, freight embargoes, war-risk, riots, civil commotion, epidemics and accidental. If the contractor wants to extend the completion period under this clause, he will request for such extension of the completion period along with all necessary evidence, before the expiry of the schedule date of completion. In no case, the completion period shall be extended under this clause, in case the request is received after the due date of completion. Extension in the completion period may be granted only for the period for which the completion of the work is proved by the contractor to have been delayed for circumstances mentioned in the clause.

5. **NEGLIGENCE**
If the contractor neglects to execute the work with due diligence and expedition or refuses to do the work, then HPGCL may serve 15 days notice, in writing to the contractor to make good the failure within the stipulated time otherwise HPGCL shall be at liberty to take the work wholly or partially at the risk and cost of the contractor at a reasonable price along with the penalties mentioned under the above said clauses. It shall be lawful for the HPGCL to retain any balance which may otherwise be due to the contractor on any account, if dues of the contract are not sufficient to cover the amount thus recoverable from the contractor and to recover the whole of the balance of the amount from the contractor by action at law or otherwise. The remedy under this clause will be in addition to and without prejudice to rights available to the HPGCL under other clauses of the terms and conditions.

6. **SUBLETTING NOT ALLOWED**
Contractor shall neither sublet the contract nor suspend the work at any time during the period of contract without any lawful excuse and without the earlier permission of the project authorities. However EPC contractors will be allowed to engage service providers for taking educated and experienced manpower except the key personals, in such case EPC contractor will be fully responsible for all supervision and legal consequences and to follow all norms as per work order The service provider should have minimum last two year association with the contractor, EPC contractor will only be responsible to execute the work. However Firm will record in their offer (Part-I) to involve the service provider to execute the work.

7. **SECURITY DEPOSIT AND EMD**
10% of the monthly running bill will be retained as security deposit from each running / monthly bill of the contractor. However, the earnest money deposited by the contractor shall be adjusted into the security deposit. Security Deposit & EMD shall be returned to the contractor after the faithful execution and satisfactory completion of contract including guarantee / warranty period and completion of all pending documentary formalities. No claim for interest on security amount shall be acceptable. 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 at its absolute discretion, the security deposit furnished by the contractor. The forfeiture of security deposit shall be without prejudice to the right of the HPGCL to recover any further amount of any liquidated or other damages, under payments or over payments made to the contractor under this contract or any other contract.

8. **PERIOD OF LIABILITY**
The contractor shall give guarantee for the work done for a period of 45 days or 500 running hours whichever is earlier 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.
9. **MEASUREMENT AND BILLING**

All measurement shall be in metric system. All the works completed will be measured by the representative of the Engineer-in-Charge.

10. **ENGAGEMENT OF ADEQUATE LABOUR**

The contractor shall provide minimum staff as per Annexure – F and would deploy them in such a way that the operation & maintenance work is carried out effectively and without any delay round the clock. The contractor shall also deploy sufficient manpower such as fitter, helpers to assist the chemist, analyst, operators and maintenance staff for smooth operation & maintenance of Complete System. The work shall have to be started immediately as per the instructions of Engineer-in-Charge/Chemical-in-Charge or his representative. The contractor should be able to mobilize the working force as per the quantum of work and should be capable of executing maintenance work simultaneously at all the fronts depending upon the site requirements. If more persons are required for completion of work in the time schedule as per emergency defined by Engineer-in-Charge/Chemical-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 be subject to approval of Engineer-in-Charge of the works.

The contractor would be responsible for the following:-

a. All the labour / workmen deployed during the execution of the contract shall be adequately got insured by the contractor at his own cost.

b. Any mis-happening / 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 responsibility 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 / damage caused to the property of HPGCL or any other agency of 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/Chemical-in-Charge. The employees would not be deemed to be in the employment of HPGCL for any purpose whatsoever. The contractor 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 expense 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 and above 60 years.

h. Further, the contractor would furnish an undertaking on non judicial stamp paper of appropriate value by 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. **TERMS OF PAYMENT**

Subject 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 period of guarantee / warranty”. No interest shall be paid by HPGCL on the security amount.

12. **CONTRACTOR TO REMOVE UNSUITABLE LABOUR**

On instruction of the Engineer-in-Charge, the contractor would immediately remove
any person employed on the work, who misbehaves or causes any nuisance or otherwise in the opinion of the Engineer-in-Charge is not fit to be deployed on the work, such person shall not be re-employed or allowed on the work without the prior written permission of the Engineer-in-Charge.

13. **MODE OF PAYMENT**
   The payment shall be made through account payee cheque in favour of contracting firm by the Sr. Accounts Officer, RGTPP, HPGCL, Khedar, Hisar or through RTGS / NEFT. No Bank charges etc. of any kind shall be paid by HPGCL.

14. **STATUTORY DEDUCTIONS**
   Statutory deduction on account of income Tax, Works Tax & Tax etc. including surcharge shall be made at source from the bills of the contractor at the prevailing rates.

15. **SERVICE TAX**
   No service tax will be paid extra until and unless it is liable on the services provided by the contractor and specifically demanded for the same in his offer. However, non-claiming of service tax from the HPGCL by the contractor cannot help the contractor in escaping from his liability to the Govt. against the taxable service. In case, the service tax is to be paid by the HPGCL, the contractor will have to submit the proof of submission of service tax claimed from HPGCL to the relevant authority.

16. **TAXES AND DUTIES**
   No taxes or duties will be paid extra until and unless the same has been demanded by the firm in its offer specifically. In case the same is to be paid by the HPGCL, an undertaking is to be submitted by the firm in this regard stating that the taxes or duties as claimed from the HPGCL have been deposited with the relevant authority.

17. **EPF REGISTRATION**
   The contractor / firm should be registered with the Regional Employees Provident Fund Commissioner, Govt. of India and should possess valid EPF Registration number. Contractor shall ensure the deposit of monthly EPF contribution of his workers engaged on said works with EPF Department in the accounts of the workers. Documentary evidence in respect of the amount deposited for the previous month must be submitted before submitting the bill for the following month by the contractor. Annual EPF inspection from the respective inspector is also required to be submitted by the contractor before closing of the contract.

18. **OEM Services:**
   The charges for availing services of OEM, for all type of specialized works related to SCADA, HIREL make UPS, GE make PLC, various analyzers of pH, conductivity, ORP etc. for carrying out preventive as well as breakdown maintenance shall be carried out by the contractor at his own cost.

19. **INSURANCE**
   Immediately before the commencement of the work, a group insurance policy of appropriate value valid for the term of the contract in respect of all the workers deployed on work under Workman Compensation Act 1923 shall be obtained by the contractor to cover up the risk of injury / death /fatal / non-fatal accident. The documentary proof of the same shall have to be furnished with the first running bill. The contractor shall be fully and wholly responsible for any mishappening, injury, fatal / non-fatal accident sustained by him / his employees / workers at site during performance of the work under the contract and HPGCL shall not entertain any claim of this account. However, if HPGCL is forced to pay any compensation to any workman employed / engaged by the contractor, the amount so paid shall be recovered from the contractor from his pending dues against this contract or any other contract with the HPGCL.

20. **LABOUR LAWS**
   I. The contractor must get himself registered with the Labour Department, Haryana under Section-7 of Labour Contract Act 1970.
   II. He should also obtain a valid Labour License as applicable under Section 12 of Act for the work awarded to him immediately after the allotment of work and a copy of the
same must be submitted along with the contract Agreement.

III. The contractor shall abide by all labour-laws required to be followed under Factories Act, 1948, Industrial Dispute Act 1947, Workmen Compensation Act 1923, Employees State Insurance Act 1948, EPF Act 1952, Payment of Wages Act 1936 & Minimum Wages Act 1948 and other rules & regulations framed by Central / Haryana Govt. from time to time in this regard.

IV. The contractor shall maintain necessary records viz. Register of wages, Muster roll / Attendance register, Employment card / Gate Pass, Overtime Register and other necessary records etc. as required under aforesaid Acts and the same shall be made available to the Engineer-in-Charge / Project Authorities / Govt. of Haryana for checking / inspection as and when required.

V. The contractor shall indemnify the HPGCL against all the obligations of the Labour Rules and Regulations under any Statutory Act as mentioned above.

VI. The contractor shall submit an undertaking stating that all risks & responsibilities towards labour will be owned by him.

VII. The contractor will engage labour after getting the character antecedents verified from the Police department.

VIII. The workmen engaged by the contractor shall not be treated as employees of HPGCL. The HPGCL shall have no relation with workers engaged by the contractor. An affidavit from the labour / workmen shall be submitted by the contractor that they will not claim themselves as employees of HPGCL.

IX. The contractor shall deduct labour welfare fund @Rs. 5/- from each worker with employers share @ Rs. 10/- per worker (i.e. total Rs. 15/- per worker) and deposit the same with the Welfare Commissioner, Haryana, Chandigarh and present its documentary proof along with the bill.

X. Contractor shall also ensure to carry out the medical fitness checkup at his own cost as per Factory Act.

21. SAFETY RULES

I. A firm shall have to comply with all the provisions of safety rules. The Engineer-in-Charge or 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 or in violation of use of proper protective equipments i.e. safety helmets, shoes, safety belts, goggles, ear plugs etc. and against violation of any other clause. A penalty of Rs. 500/- per violation (minimum) shall be levied in case of repeated violation. Further, if the violation made by the contractor / labour which may cause any serious accident or direct loss to the corporation or threatens to cause severe consequences, the higher penalty may be imposed including suspension / termination of the contract. The Contractor will arrange all the necessary safety equipments by himself at his own cost.

II. Following undertaking is also required to be submitted by the contractor:-

"I / We have gone through all the terms & conditions on safety regulations and undertake to strictly enforce the same during the execution of this contract including mobilization period, if any". In case of violation of these terms & conditions, the HPGCL is free to take action as deemed fit.

III. In case of any fatal / non fatal accident or any other violation of Factory Act 1948. Pb Hr Factory Rules 1952 or under other Industrial or Labour Act are made by / with the workers of the contractor and if prosecution is launched by Chief Inspector of Factories, Chandigarh against occupier / Factory Manager or any other authority of HPGCL, the contractor shall be liable to deposit the amount of fine / penalty decided by the Court, on the same day. In case of default, the amount will be recovered from the outstanding dues / liabilities of the contractor against this contract or any other contract at RGTPP besides other action as the HPGCL may deem fit like black listing of the firm etc.

IV. The liability of the injured person shall be borne by the contractor, irrespective of the location at which the accident has occurred.
22. **LOSS OF PLANT / HPGCL PROPERTY DURING EXECUTION OF THE WORK**
The contractor shall ensure that no damage or loss is done to HPGCL / Plant property or any other agency in the jurisdiction of work site. In case, it is found that there is any loss to the plant equipment, HPGCL property or human being due to negligence of the labour / worker of the contractor, the same shall be made good to HPGCL by the contractor at his own cost.

23. **BREACH OF CONTRACT**
If the contractor fails to adhere to the time schedule or if his services are found to be unsatisfactory, the HPGCL will be entitled at its option either:-

a) To recover damages as per penalty clause mentioned as above, if the said delay is not covered under the Force Majeure reasons.
   OR

b) To get the work done from any other agency after serving a notice of three days to the contractor at his risk and cost without prejudice to the other provisions of the work order. OR

c) To cancel the contract by giving 15 days notice & forfeit the security.

24. **CONTRACT AGREEMENT**
The contractor shall execute a contract agreement on specific Performa on Non judicial Stamp Paper of appropriate value within 7 days of date of issue of LOI / W.O. Cost of the stamp paper will be borne by the contractor. The person who has signed the tender papers should have got authority to sign on behalf of the contractor. If it is discovered at any time that the person so signing has no authority to do so, the HPGCL without prejudice to any other right or remedy available to it, may cancel the contract and get the work done from any other agency at risk and cost of the contractor. The contractor shall mean the contractor's legal representatives, successors and assigns.

25. **ARBITRATION**
All matters, questions, disputes, differences and / or claims arising out of and / or concerning, and / or in connection with, and / or in consequence of, and / or relating to the contract whether or not obligations of either of both the contractor and the Corporation under that contract be subsisting at the time of such dispute and whether or not the contract has been terminated or purported to be terminated or completed, shall be referred to the sole arbitration of CE/RGTPP or an officer appointed by the CE/RGTPP as his nominee. The award of the Arbitrator shall be final and binding on both the parties to the contract.

26. **JURISDICTION**
All legal proceedings in connection with contract shall be subject to the territorial jurisdiction of local court at Hisar (Haryana).

27. **ELECTRICITY / AIR / WATER**
Electricity/ Air / Water will be provided free of cost at one point per unit as per requirement of job. HPGCL may provide suitable space for site store / temporary workshop free of charges to the contractor. The electricity for site store / office will be provided by HPGCL free of cost. The contractor will use electricity / air / water judiciously.

28. **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. However, if the accommodation is available with HPGCL the same may be allotted on chargeable basis as per HPGCL rules.

29. **TRANSPORTATION OF MATERIAL**

a) The contractor shall make his own arrangement for transportation of the material from O&M stores to site of work, from site of work to O&M workshop, if required and return of scrap back to stores. The contractor shall also assist in loading / unloading of material being sent for repairs or received after repair to / from outside of RGTPP.

b) The contractor shall make his own arrangement for removal of old as well as unused material from the site to the place as specified by the Engineer-in-Charge after completion of work.
30. **PRESERVATION & STORAGE OF MATERIAL**
All the material issued to the contractor by the HPGCL or brought by the contractor for its bonafide use shall be stored and preserved against any loss, damage, shrinkages or deterioration in any form. Any damage / loss suffered on this account shall be considered as loss due to willful negligence on part of the contractor and shall be liable to compensate HPGCL for these losses suffered at penal rates to be determined by the HPGCL. The rates charged for the purpose of recovery shall be final and binding on the contractor.

31. **SUPERVISION OF WORK**

a) The Engineer-in-Charge/Chemical-in-Charge shall have the general supervision of the work. The work shall have to be started by the contractor as per the instruction of Engineer-in-Charge or his authorized representative at any time on working day, on holiday or after office hours, and shall be confirmed by post dated indent. The indent will indicate the date / time of start of work, details of work and scheduled time of completion of work as per contract. The time allowed for a work maintained in the indent will be addition of time of all the jobs / activities as per contract. The Engineer-in-Charge/Chemical-in-Charge may reduce the total cumulative time of various activities, keeping in view of emergency to bring back the equipment in time. The total time allowed by the Engineer-in-Charge/Chemical-in-Charge will be final & binding on the contractor. He has the authority to stop the work whenever such stoppage is necessary to ensure the proper execution of the contract. He shall also have authority to reject all works or part thereof and give necessary direction to carry out work again to his satisfaction. No claim whatsoever on this account will be entertained. The work shall be subjected to the inspection by Engineer-in-Charge/Chemical-in-Charge all the time.

b) The decision of Engineer-in-Charge/Chemical-in-Charge shall be final with regards to all matters relating to his contract.

c) The decision of Engineer-in-Charge/Chemical-in-Charge for determining the category of the work with reference to the items not mentioned in scope of work shall be final.

d) The execution of work may entail working at all the sites and weather conditions and no extra claim will be considered on this account. The contractor may have to carry out jobs and work round the clock, as per the requirement to be decided by Engineer-in-Charge/Chemical-in-Charge. No extra claim / over time will be paid on this account.

e) In case the contractor fails to do the extra / substituted work, Engineer-in-Charge/Chemical-in-Charge will have the option to get the work done through any other agency at the risk & cost of the contractor.

f) In case of any dispute, the contractor may represent in writing to the Engineer-in-Charge/Chemical-in-Charge.

32. **TELEPHONE**
The successful contractor shall provide the phone facility to his supervisors to facilitate HPGCL for easy communication with the contractor. The phone Numbers shall be intimated by the contractor immediately after the award of the contract.

33. **AUTHORIZED REPRESENTATIVE**
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 signatures of the aforesaid authorized representative shall be got attested from First Class Magistrate or Notary Public.

34. **OWNERSHIP DEED**
The firm will give ownership deed / partnership deed / proprietorship deed (as applicable) duly attested by Notary Public for record and reference of his office.

35. **Uniform**
Contractor will provide the uniform with firm’s logo to their employees at his own cost.
36. **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.

37. **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 the monthly bill in duplicate to the executive in-charge along with the followings:
   a) Monthly bill for the AMC / ARC work and in other cases 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 (if applicable), Service Tax No., PAN & TIN. A photocopy of the EPF code, ESI code (if applicable), Service Tax No, 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 (if applicable), 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 certificate / documents mentioned at iii and iv below.

iii. Certificate from the Engineer in-charge that, a) work has actually been done as per contract and to the entire satisfaction of EIC. b) The copy of EPF Challan, ESI Challan (if applicable), 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 dt. ................. d) No penalty is leviable on the contractor on the contractor on any account as per the contractor 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 from Safety Officer. In case of non availability of Labour Welfare Officer / Safety Officer, certificate from Engineer-in-charge is required to be submitted.

**Note:** Documents attached along with the contractor bill should be referred in the forwarding letter of the executive office forwarded the bill for pass & payment.

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

39. **OVER RUN CHARGES**
No over run charges shall be paid in the event of the completion period being extended for any reasons.

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

41. **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, EPG 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.
42. **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.

43. Contract may be short closed at any time during the period of contract by HPGCL, without assigning any reason by giving a notice of one month, for which no compensation shall be payable to the contractor.

XEN/Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.
Tentative per day Staff Deployment for Operation and Maintenance of complete Zero Discharge System including the testing works, housekeeping etc. is as under:

It is envisaged that a minimum of 20 skilled, semi-skilled, unskilled persons along with one site-in-charge will be needed for O&M of complete Zero discharge system for 2x600 MW Unit 1 & 2 at RGTPP, HPGCL, Khedar (Barwala), Hisar.

The detail of daily manpower requirement will be as under:

<table>
<thead>
<tr>
<th>Sr. no.</th>
<th>Description</th>
<th>Min. Qualification</th>
<th>Min. Experience</th>
<th>Nos. per Day</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Site-in-Charge</td>
<td>B. Tech. / BE or equivalent</td>
<td>3 years of supervision of ZD ETP</td>
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<tr>
<td>2.</td>
<td>Operators-cum-supervisors</td>
<td>Dip. In any stream</td>
<td>2 years of operation of ZD ETP</td>
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<tr>
<td>3.</td>
<td>Chemist</td>
<td>M.Sc. / B.Sc.</td>
<td>2 years of chemist operation of ZD ETP</td>
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<td>4.</td>
<td>Foreman (electrical, Mechanical and C&amp;I)</td>
<td>Diploma / ITI</td>
<td>5 years / 10 years of mtc experience</td>
<td>03</td>
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<tr>
<td>5.</td>
<td>Fitter / welder</td>
<td>ITI</td>
<td>2 years of Mtc. experience</td>
<td>02</td>
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<tr>
<td>6.</td>
<td>Helpers (for operation and maintenance)</td>
<td>-----</td>
<td>----</td>
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**TOTAL -- 21 nos.**

For the period when single unit of RGTPP is under operation

<table>
<thead>
<tr>
<th>Sr. no.</th>
<th>Description</th>
<th>Nos. per Day</th>
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<tbody>
<tr>
<td>1.</td>
<td>Site-in-Charge</td>
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<tr>
<td>2.</td>
<td>Operators-cum-supervisors</td>
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<tr>
<td>3.</td>
<td>Chemist</td>
<td>02</td>
</tr>
<tr>
<td>4.</td>
<td>Foreman (electrical, Mechanical and C&amp;I)</td>
<td>03</td>
</tr>
<tr>
<td>5.</td>
<td>Fitter / welder</td>
<td>02</td>
</tr>
<tr>
<td>6.</td>
<td>Helpers (for operation and maintenance)</td>
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</tr>
</tbody>
</table>

**Total** 15

For the period when none of the unit of RGTPP is under operation

<table>
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<th>Sr. no.</th>
<th>Description</th>
<th>Nos. per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Site-in-Charge</td>
<td>01</td>
</tr>
<tr>
<td>2.</td>
<td>Operators-cum-supervisors</td>
<td>01</td>
</tr>
<tr>
<td>3.</td>
<td>Chemist</td>
<td>01</td>
</tr>
<tr>
<td>4.</td>
<td>Foreman (electrical, Mechanical and C&amp;I)</td>
<td>03</td>
</tr>
<tr>
<td>5.</td>
<td>Fitter / welder</td>
<td>01</td>
</tr>
<tr>
<td>6.</td>
<td>Helpers (for operation and maintenance)</td>
<td>03</td>
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</tbody>
</table>

**Total** 10

XEN/Chemical,  
For Chief Engineer / RGTPP,  
HPGCL, Khedar, Hisar.
1. GUARANTEED PARAMETERS
Contractor shall treat and supply water of the required specification for the HPGCL requirements throughout the year. Maintenance scheduled shall be worked out stream wise so to ensure availability of water requirements. Contractor shall guarantee to achieve the following:

Quality and quantity: Contractor shall be responsible towards operation and maintenance of the system to achieve the desired quality as per the designed standards or as per the takings over the protocol and the quantity as per the requirement of plant.

Compliance to maintenance schedule: Contractor shall offer service to achieve the overall maintenance schedule.

- **Non achievements of guaranteed parameters:** If any parameters are found out of prescribed range as recommended by OEM during the checking by HPGCL or third party testing, a penalty of @2.5% of the monthly contract value will be deducted on each instance for each parameter.

- To ensure reasonability of consumption of chemicals it is desired that if quantity of bulk chemical consumption is more than +5% the quantity as per DBR, it would be chargeable to the contractor as per the landing cost at site as per purchase order issued by the plant.

2. LIQUIDITY DAMAGES
The work shall be executed strictly as per requirements of HPGCL as detailed in the scope of the work. The contractor shall be responsible for providing timely and uninterrupted services. Failure to complete the work as per the requirement shall attract liquidity damages but not as penalty from the due payment/contractor performance guarantee.

It is expressly understood and agreed that if contractor fails to perform as per the conditions in the guaranteed parameters clause above of the special conditions of the contract, contractor has to pay liquidity damages not as penalty.

Failure to generate water of desired quality as per the designed parameters shall be treated as plant outage. Any expenditure incurred by RGRTPP towards operation & maintenance of system shall be recovered by way of not paying the O & M charges for day.

3. PROGRESS REPORT
During the execution of the work in pursuance of the contract, contractor shall at his cost submit the daily, weekly and monthly report to the Engineer in charge. Such reports shall be as in the form of as may be required by the Engineer in charge and shall be submitted in at least three copies.

4. Other STC
   i) Supervision of work to be done by supervisors deputed by contractor. He will keep records of the chemicals used and submit them to RGTPP as & when required.
   ii) Contractor shall maintain accounts of receipts, consumption and inventory of all chemical resins, membranes, cartridges, spares and consumables supplied by RGTPP for this contract.
   iii) The manpower deployed shall be having sufficient experience in carrying out the above jobs. The contractor shall submit the bio-data of all the staffs that he intends for O & M for prior approval of RGTPP.
   iv) The Contractor shall at his own expenses carry out and maintain third party insurance to extent of Five Lacs and also indemnify and hold RGTPP harmless from liability whatsoever on this account.
   v) Safeties of the person deployed by the contractor will be contractor’s responsibility. Contractor has to provide necessary safety items like shoe, safety goggles, hand gloves, helmets and aprons etc. The contractor will provide necessary safety guidance to his personnel for use of safety equipments. Contractor should follow the all policy decision of the HPGCL.
   vi) Non-compliance of safety will results into penalties as shall be decided by the RGTPP. Contractor has to also abide by the statutory requirement related to insurance/provided fund, workman compensation act/ESI etc.
   vii) Contractor shall attend at his own cost the meeting with Engineer in charge, other officers of the plant as and when required. Contractor shall attend such meetings as and when required and remain fully cooperative with the other concerned sections.

XEN/Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Clause No.</th>
<th>Description of deviation</th>
<th>Justification</th>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
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</table>

XEN/Chemical,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.