



RAJIV GANDHI THERMAL POWER PLANT, KHEDAR, HISAR

(A UNIT OF HARYANA POWER GENERATION CORPORATION LIMITED)

Corporate Identity Number: U45207HR1997SGC03351

HPGCL
An ISO: 9001, ISO: 14001
OHSAS: 18001 Company.

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NIT No. 11 /RGTPP/CLAB-32/CWT-VOL.-V

Dt. 03.01.2025

NOTICE INVITING TENDER through e-tender

E-tenders in two Parts on behalf of Chief Engineer/RGTPP, HPGCL, Khedar, Hisar is invited from eligible parties for the work as under:

Description of Work	Tender Fee (Rs.) (Non – refundable)	EMD (Rs.)	e-service Fees (Rs.) (Non – refundable)	Last date of Downloading of Tender Documents, Bid Preparation & Bid Submission
Annual running contract the work of Circulating Water Chemical Treatment including supply of special chemicals of 2X600 MW, Unit 1&2, RGTPP, Khedar, Hisar for a period of 3 years.	1180/-	4,18,900/-	1180/-	20.01.2025 up to 13:00 Hrs.

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

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 & 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:

<u>Key Dates</u>				
Sr. No.	Department Stage	Tenderer's Stage	Start date and time	Expiry date and time
1.		Downloading of Tender Documents & Bid Preparation	03.01.2025 at 13:00 Hrs.	20.01.2025 up to 13:00 Hrs.
2.	Technical Opening (Part-I)		22.01.2025 at 13:00 hrs.	
3.	Short listing of Technical bids & Opening of Financial Bid			Will be intimated to the firms on their E-mail

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

Instructions to bidder on Electronic Tendering System

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://etenders.hry.nic.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://etenders.hry.nic.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.

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://etenders.hry.nic.in>

4. 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.

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://etenders.hry.nic.in>

6. Download of Tender Documents:

The tender documents can be downloaded free of cost from the e-Procurement portal <https://etenders.hry.nic.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 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 as stated in the schedule (Key Dates) of the Tender.

9. Tender closing:

After the submission of bid by the bidders, the bidding round will be closed. Once the online tender is closed, no new vendor can bid in 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 bid will 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://etenders.hry.nic.in>.

(C) From the starting date of Tender downloading to final date of submission of bid, the bidder can rework on his bid number of times he wants. If bidder submits the revised bid including price bid, original bid will automatically deleted and this revised bid will become original bid. No revised bid will be submitted after part-I (Technical Bid) is opened.

(D) For help manual please refer to the 'home page' of the e-procurement website at <https://etenders.hry.nic.in>.and click on available link 'how to ? 'To download the file.

(E) Complete bid will only be submitted after realization of tender documents and EMD.

10. Special instructions to the Contractors/ Bidders for the e-submission of the bids online through this e-Procurement Portal.

1. Bidder should do online Enrolment in this portal using the option Click Here to Enroll available in the Home Page. Then the Digital Signature enrollment has to be done with the e-token, after logging into the portal. The e-token may be obtained from one of the authorized certifying Authorities such as e-mudhra CA/GNGNFC/IDBRT/MtnITrustline/Safescrpt/TCS.

2. Bidder then logs into the portal giving user id / password chosen during enrollment.

3. The e-token that is registered should be used by the bidder and should not be misused by others.

4. DSC once mapped to an account cannot be remapped to any other account. It can only be inactivated.
5. The bidders can update well in advance, the documents such as certificates, purchase order details etc. under My Documents option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
6. After downloading / getting the tender schedules, the Bidders should go through them carefully and then submit the document as per the document, otherwise, the bid will be rejected.
7. The BOQ template must not be modified / replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for that tender. Bidders are allowed to enter the Bidder Name and Values only.
8. If there are any clarifications, this may be obtained only through the e-Procurement Portal, or through the contact details given in the tender document. Bidder should take into account of the corrigendum published before submitting the bids online.
9. Bidder, in advance should prepare the bid documents to be submitted as indicated in the tender schedule and they should be in PDF/XLS/RAR/DWF formats. If there is more than one document, they can be clubbed together.
10. Bidder should arrange for the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission and time for the tender.
11. The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids.
12. The bidder has to submit the tender document(s) online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.
13. There is no limit on the size of the file uploaded and the server end. However, the upload is decided on the Memory available at the client system as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds.
14. It is important to note that, the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes Bid Submission Process. Bids Which are not Frozen are considered as Incomplete/Invalid bids and are not considered for evaluation purposes.
15. In case of offline payments, the details of the Earnest Money Deposit(EMD) documents submitted physically to the Department and the scanned copies furnished at the time of bid submission online should be the same otherwise the tender will be summarily rejected.
16. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
17. The bidders may submit the bid documents online mode only, through this portal. Offline document will not be handled through this system.
18. At the time of freezing the bid, the e-procurement system will give a successful bid updation message after uploading all the bid document submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
19. After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
20. Successful bid submission from the system means the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
21. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected.
22. The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc. in the e-Procurement portal. The Time followed in this portal is as per Indian Standard

Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.

23. All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not viewable by any one until the time of bid opening. Overall, the submitted bid document become readable only after the tender opening authorized individual.
24. During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over secured Socked Layer (SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
25. The bidders are requested to submit the bids through online e-Procurement system to the TIA well before the bid submission end date and time (as per Server System Clock).

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 Bidders must have experience of having successfully executed the work order(s) of same or similar work(s) in HPGCL / NTPC / Any SEBs / Any PSUs / Any Corporations / Central Govt. / State Govt. / Semi Govt. or in any Thermal Power Station of minimum capacity of 110MW or above during last five years ending last day of the month previous to the month in which applications are invited and having minimum order value as under: -
 - Single Work Order of the value not less than **Rs. 53.67 Lacs** or
 - Two Work Orders of the value not less than **Rs. 33.54 Lacs** or
 - Three Work Orders of the value not less than **Rs. 26.83 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. 69.80 Lacs**
- The contractor should have GST No., EPF Account No. & PAN No.
- The bidder should have a valid ESI no. or shall submit an undertaking to provide the same within one month of issue of work order.
- The firm should submit a certificate that the firm is not blacklisted in last 05 years in any organization.
- The contractor has registered under Contract Labour (Regulation & Abolition) Act, 1970 and possesses a valid labour license (if applicable) for deploying the workers on the work or will submit under taking to obtain the same within 15 days of issuance of work order. Contractor shall provide LIN No./Shop No. for registration.
- Participating firms be required to submit an undertaking as Under:-

“Firm has to certify itself for its eligibility with supporting documents to participate in the NIT stating that it is not under any default towards compliances under any of the labour laws 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 & 37 of the HPGCL Works & Purchase Regulations. 2015”.
- **The Bidder must have contractor ID (Certificate of Login Account on HEW Portal) on HEWP Portal (Haryana Engineering Works Portal) for participation in the tendering process failing which the firm's tender will be straight away rejected.**

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

- (i) A committee nominated by HPGCL shall evaluate all the bids for fulfillment of qualifying criteria.
 - (ii) The firm should fill statement of bidders Performa as per **Annexure-I** and submit authentic supporting documents for proving its credential. 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.
 - (iv) In case where audited results for the last preceding financial years are not available for determining the average annual turnover, certification of financial statements from a practicing chartered accountant shall be considered acceptable.
- 2. 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.**

3. The "Application for Bidding" along with the "Terms and conditions of the contract and its all Annexure should be submitted duly filled 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.
4. The tenderers 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 GST etc. as applicable.
5. The tenderer will quote their rates STRICTLY AS PER THE RATE QUOTING SHEET (On HEW Portal). No deviation in terms shall be allowed.
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.
The following are exempted from depositing the earnest money:-
 - i. Public Sector Undertakings of the Central / Haryana State Government.
 - ii. Firms borne on D.G.S. & D/DS&D Haryana rate contracts.
 - iii. Firms registered with the Director of Industries, Haryana or registered with National Small scale Industries Corporation, Govt. of India.
 - iv. Firms borne on the HPGCL"s approved list of suppliers which may have made a permanent earnest money deposit of Rs.10.00 Lakh 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.
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 shall be held as per Govt. Notification/Guidelines issued from time to time.
- 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. Selection preference of the tendered work may be allowed as per policy of the State Government to the Industrial Units located in Haryana on the lowest valid rates if tenderer so claim with requisite documentary evidence.

19. Earnest money and Earnest money declaration Form

19.1 The Bidder who does not have contractor id on HEWP cannot participate in the tendering process. Bidders who have contractor ID but have not registered on HEWP can participate in the tendering process by paying the earnest money through online payment on the portal. Bidders who have contractor Id and are registered on HEWP and also have deposited one time deposit are eligible for participation in the tender by annexing bid specific Earnest Money Declaration Form generated from HEWP.

20. 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.

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

Scope of work for Circulating Water Chemical Treatment including supply of special chemicals of 2X600 MW, Unit 1&2, RGTPP, Khedar, Hisar.

SCOPE OF WORK

The vendor has to carry out chemical treatment of cooling water at RGTPP, Khedar, Hisar 2X600 MW Units to control scale deposition, corrosion, microbes induced corrosion & microbiological fouling with suitable non chromate based specialized chemicals / formulations and dosing sulphuric acid & chlorine as per system requirement. Design & supply of specialty chemicals shall be the part of this work. The job also includes operation & monitoring of dosing system, chemical analysis of water, and recording of data of performance monitoring equipment etc. during the entire period of treatment program. Any other jobs related to CW treatment to improve the effectiveness of overall system shall be in the scope of the vendor and shall be carried out as per instructions of officer concerned. The detailed scope is further described as under:

1. Scope of work shall include chemical treatment of cooling water at RGTPP, Hisar to control scaling, corrosion, fouling, bio-fouling and microbiologically induced corrosion by supplying and dosing of suitable specialized non chromate based chemicals of organophosphate, Inorganic phosphate and Zinc based, bio-dispersant and or biocide. Execution of work shall be as per the system requirement. Firm will supply chemicals and carry out treatment program including testing works at the site of RGTPP, Hisar.
2. The scope of work shall also include formulation and supply of suitable chemicals, providing monitoring equipments at both cooling towers, analysis of makeup & cooling water, data collection, recording, dosing of treatment chemicals, chlorine & sulphuric acid as per system requirement.
3. The electronic metering pumps required for dosing of chemicals and monitoring equipment such as Deposit monitors, Bio-fouling Monitors, ORP monitor and Corrosion Racks etc. for performance monitoring of the treatment program are to be arranged by the firm. After completion of work, same can be taken back by the firm.
4. Successful operation of 14 nos. side stream filters round the clock including media replacement / top up as and when required and backwashing on daily basis.
5. To maintain & demonstrate the corrosion, fouling, deposition and scaling within the specified limits with effective treatment.

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

Technical Terms & Conditions

Cooling water system:

Cooling water system is an open re-circulating type with one natural draft cooling tower for each 2x600 MW unit and designed to operate at the 3-7 COC (Mg based cycle of concentration). Firm shall design and supply specialized cooling water treatment chemicals with the range of 4-5 COC. Cooling water returns from cooling towers to CW pump house through a common channel/bay of RCC construction. Some of the water requirement of ash handling is met by the tapping from header of condenser outlets to cooling towers during blow down of cooling water. The requirement of input of Zero Discharge System at RGTPP is met with the blow down from fore bay. Successful operation of 14 no's side stream filters round the clock and backwashing on daily basis for unit 1 & 2 is to be carried out by the firm. Depending on the load on steam turbine, either one or two CW pumps per unit may be in service to maintain temperature across the condenser i.e. circulating rate through condenser may vary.

CW Chemical Treatment Systems:

Sulphuric acid storage tank and dosing system by gravity for CW chemical treatment is available at site. Performance monitoring equipments shall be installed at location by the firm as per requirement.

Water Quality:

Cooling water is primarily clarified water & source of water is from Bhakhra canal. Clarification of raw water being carried out using alum, poly aluminum chloride hydrated lime & liquid chlorine. Post chlorination of cooling water is done at CW fore bay to maintain minimum residual chlorine of 0.5 ppm in the system. Cooling water COC is being maintained at 4-5 depending on the number of unit in service but a large scale variation may not be ruled out due to high rate of withdrawal / blow down from cooling water system for various reasons. Presently Cooling Water Chemical treatment is being carried out with continuous dosing of scale inhibitor, corrosion inhibitor and Bio-dispersant along with dosing of sulphuric acid & chlorine.

Requirement

The treatment program shall preferably be carried out using following chemicals:

- (a) Scale inhibitors
- (b) Corrosion inhibitor
- (c) Bio-dispersant and or biocide
- (d) Any other chemical to be decided by the bidder

Treatment of cooling water shall be done in the alkaline range (pH 7.5 to 8.2).

Sulphuric acid: Sulphuric acid will be supplied by RGTPP and shall be used for pH & alkalinity correction. Limited quantity of sulphuric acid will be provided by RGTPP.

Chlorine gas: chlorination system comprising of three streams of capacity 180 kgs/hour each is available and is being operated by the firm carrying out Annual Running Contract for Operation & maintenance of DM Plant, PT Plant, ET Plant, Chlorination System, CPU etc. Limited quantity of liquid chlorine will be provided by RGTPP.

The chemicals proposed should be organic polymers, organic phosphorous components, organic phosphonate based & shall be non-toxic, non-chromate, non-hazardous and easily bio-degradable.

Testing facilities: RGTPP, Khedar, Hisar will provide Laboratory to conduct day to day testing for makeup water, cooling water and specialized CWT chemicals only.

Material: (CW system): MS, CS, CPVC & SS

Circulating water System details 2x600MW, Unit 1&2, RGTPP, Khedar, Hisar are as under:

Type	Natural Draft
No. of cooling towers	02
Re-circulation Rate	146080 m ³ /hr both unit
Hold-up	70000 m ³ /hr both unit
Evaporation, Drift & Wind age loss	2381 m ³ /hr for both unit
Blow down at 3coc	1190 m ³ /hr for both unit
Blow down at 7coc	398 m ³ /hr for both unit
Cycle of Concentration (COC)	3-7
Delta T Deg. C designed	10.8
Metallurgy of system	MS,CS,CPVC & SS
Flow rate, cum/hr	1667.5 x 3 = (5000)

Designed parameters: Designed clarified/make up water to the cooling water system is as per detail given below. Although limit of operation is 3 COC to 7 COC but firm shall design to supply specialized chemicals for sustainable range of **4 COC to 5 COC**.

Sr. No.	Constituent, mg/l expect as noted	Unit	Clarified water/Make up water	Limits of operation	
				3 COC	7 COC
1	Physical Characteristic				
	pH		8.3	7.0-8.3	7.0-8.0
	Turbidity	ppm	20	25	25
	Total Dissolved Solids	ppm	163		
2	Cations				
	Calcium Hardness	ppm as CaCO ₃	137	420	1000
	Magnesium Hardness	ppm as CaCO ₃	10	30	70
	Sodium + potassium	ppm as CaCO ₃	16		
	Soluble Iron	ppm as CaCO ₃	Nil	<2	<2
3	Anions				
	M-Alkalinity	ppm as CaCO ₃	68.5	206	50-150
	Chlorides	ppm as CaCO ₃	22.5	<300	<300
	Sulphate	ppm as CaCO ₃	71	<250	As per pH
	Nitrates	ppm as CaCO ₃	0.96	<10	<10
4	Total Hardness	ppm as CaCO ₃	147		
5	P-Alkalinity	ppm as CaCO ₃	Nil	Nil	Nil
6	Reactive Silica	ppm as CaCO ₃	8.3	100	100
7	Colloidal Silica	ppm as CaCO ₃	Traces		

Monitoring of Cooling Water system: The Firm shall conduct the tests during monitoring of CW chemical treatment on Daily, Weekly, Monthly and half yearly basis as listed below.

Sr. no.	Name of the parameter	Daily	Weekly	Monthly	Half yearly
1	pH	√	X	X	X
2	Conductivity micro mhos/cm	√	X	X	X
3	Free residual chlorine, mg/lit	√	X	X	X
4	Total Hardness as CaCo ₃ , mg/lit	√	X	X	X
5	Calcium Hardness as CaCo ₃ , mg/lit	√	X	X	X
6	Magnesium Hardness as CaCo ₃ , mg/lit	√	X	X	X
7	Turbidity	√	X	X	X
8	TDS mg/lit	√	X	X	X
9	TSS, mg/lit	√	X	X	X
10	p-alkalinity as CaCo ₃ , mg/lit	√	X	X	X
11	m-alkalinity as CaCo ₃ , mg/lit	√	X	X	X
12	Sulphate	√	X	X	X
13	Chloride as Cl, mg/lit	√	X	X	X
14	Silica as SiO ₂ , mg/lit	√	X	X	X
15	Total Iron as Fe, mg/lit	√	X	X	X
16	Zinc as Zn , mg/lit	√	X	X	X
17	Total Phosphate as PO ₄	√	X	X	X
18	Bio-fouling Monitor, Visual	√	X	X	X
19	Langelier Saturation Index (LSI)	√	X	X	X
20	Ryznar Stability Index (RSI)	√	X	X	X
21	Bio-fouling Monitor, Pressure drop	X	X	√	X
22	Sulphate reducing Bacteria (SRB), MPN/100 ml	X	√	X	X
23	Total bacterial count (TBC), org/ml	X	√	X	X
24	Deposit Monitor, mg/dm ² /yr	X	X	√	X
25	Corrosion rate (MS), mpy	X	X	√	X
26	Corrosion rate (SS), mpy	X	X	√	X
27	Iron bacterial, MPN/100 ml	X	X	√	X

Chemicals required for treatment of recirculation cooling water:

- i) The cooling water treatment program shall be capable of sustained operation for a period of three years without any shut down of cooling water system. The proposed program for the cooling water treatment shall be capable to sustain 3COC to 7COC in all respect of seasonal effects/unforeseen parameters during CW chemical treatment.
- ii) The bidder shall formulate the chemicals for corrosion inhibitor, scale inhibitor and bio-dispersant polymers on the basis of 4COC-5COC .Firm should ensure that treatment program should also be suitable for higher cycle of concentration.

- iii) The treatment program shall be non-chromate, phosphonate and Zinc based. All chemicals shall be chlorine resistant and shall be suitable for 7.5-8.2 or higher pH and shall meet nonmetallic program.
- iii) The treatment program shall be organic polymers/organic phosphorous components/organic phosphate based and shall be non-toxic non-chromate, non-hazardous and Zinc based. Supplied chemicals shall be easily bio-degradable type. All chemicals shall be chlorine resistant and shall be suitable for high alkaline pH and shall meet nonmetallic program.
- iv) The chemicals and their formulations shall be compatible with clarified water treated with alum / PAC or both.
- v) Corrosion rates shall be controlled based on 30 days exposure except trial run. During trial run exposure will be every fortnight days.
- vi) The system should be free from algae, fungi growth and slime formation on towers, basin sumps etc.
- vii) Magnesium cycle to be consistent with cycle of concentration.
- viii) Firm shall guarantee supply of chemicals without interruptions. Normal schedule of supplies shall be every 03 months such that the site inventory level is minimum one month.
- ix) Condenser tube, water box, tube sheet should be free from any hard deposit / fouling from CW side.

Performance guarantee parameters

Guaranteed values of Scale, Corrosion, Fouling & bio-fouling should be as below:

S. N.	Performance parameters	UOM	Guaranteed values	Test Method	Frequency
1a	Corrosion rate(MS)	Mpy	<3.0 mpy with no pitting	Corrator	Once in a day
1b				Weight loss of corrosion coupons	Once in a month
2a.	Corrosion rate (SS-304)	Mpy	<0.05 mpy (no visual sign of localized corrosion in SS tube)	Corrator	Once in a day
2b.				Weight loss of corrosion coupons	Once in a month
2c	Cupronickel	Mpy	<0.50 mpy	Weight loss of corrosion coupons	Once in a day Once in a month
3.	Deposit monitor/ Scaling Rate	Mg/dm2/yr	15	Weight gain method	Once in a month
4	Bio-fouling monitor		10% of the basic value	Pressure drop/Electrochemical method	Once in a month
			No visible algae formation in CT fills , CT deck, column etc	Visual	Daily
5	Total Bacterial count	Org/ml	<10 ⁴	Microbiological testing	Once in a week
6	SRB	MPN/100 ml	50	Microbiological testing	Once in a week
7	Iron Bacteria	MPN/100 ml	100	Microbiological testing	Once in a month
8	Total Iron as Fe,	mg/lit	<1 ppm	Spectrophotometer	Once in a day
9	Zinc as Zn	mg/lit	0.5 min	Spectrophotometer	Once in a day
10	Total Phosphate as PO ₄	mg/lit	4 ppm min	Spectrophotometer	Once in a day
11	ORP meter reading	mV	+350 to +500	ORP Meter	Once in a day

INPUTS FROM RGTPP, KHEDAR, HISAR

- i) Free of cost Power supply
- ii) Lighting near the area
- iii) Sulphuric acid as per requirement. Unloading and dosing system is available which shall be operated by bidder
- iv) Liquid chlorine/ gas is provided by chlorination system comprising of 3 streams of capacity 180 kilogram/hour each.
- v) Laboratory facility to conduct day to day testing for makeup water & cooling water.
- vi) Testing facility to carry out day to day tests only.

INPUTS BY BIDDER:

Apart from providing the correct chemical formulation and technical assistance, the bidder shall also provide the following:

- i) Regular formulated chemicals treatment including operation of sulphuric acid dosing, analysis of makeup and cooling water, monitoring and recording of data etc.
- ii) All required monitoring devices i.e. Deposit monitor, Bio fouling Monitor, corrosion Rack, ORP monitor, Corrosion Coupons etc. shall be provided and maintained by bidder. The bidder shall keep a Portable Corrosion rate meter (Corrator) at site for daily monitoring of corrosion rate excursions.
- iii) The bidder shall take care of the system during trouble shooting and apply corrective measures to restore the system to normal condition.
- iv) The bidder shall generate the monitoring and testing report/log sheet and submit to the office of Chief Chemist, RGTPP, Hisar daily basis.
- v) The firm shall submit the monthly performance report along with analysis report, chemical consumption, balance stock quantity, observation and recommendation to RGTPP for review.
- vi) In case of breakdown of equipment and/ or short supply of sulphuric acid, dosing of sulphuric acid may be suspended for hours/ days. Firm should design the treatment program accordingly or may take suitable action as and when required so that effectiveness of treatment program remains unaffected. Extra cost involved for such action will be borne by the contractor.

Chlorination system is available to maintain FRC in cooling water. However a feedback shall be given by the firm to control the dosing rate. Normally CW chlorination is done on shock dosing basis to maintain FRC level minimum to 0.5 ppm. In case of break down equipment and /or short supply of liquid chlorine, chlorination may be suspended for few hours/ days. Firm should design the treatment program accordingly or may take suitable action as and when required so that effectiveness of program remains unaffected. Extra cost involved for such action will be borne by the firm. **It is mandatory to provide chlorotex by the firm for testing of FRC.**

OTHER TECHNICAL TERMS & CONDITIONS

- i) Supply of cooling water treatment chemicals, dosing of chemicals, providing technical services, monitoring, data collection & recording etc. for 2x600 MW cooling water system at RGTPP, Hisar falls in the scope of the firm.
- ii) The work shall be performed as per the specification, scope of work and schedule of quantity and further as per instruction of Chief Chemist or his office repetitive. In case of any dispute about scope of work, the decision of Chief Chemist shall be final & binding.
- iii) Differential pressure across bio-fouling monitor should not exceed more than 20 % of the initial value throughout the treatment period.
- iv) The transportation of C.W treatment chemicals from store to working site and empty chemical drums to be returned to store by the firm.
- v) It is mandatory for the firm to provide a portable corrosion rate meter (Corrator) at site for daily corrosion rate execution monitoring. The Corrator should be in perfect condition with a valid calibration certificate. However the performance assessment of corrosion rates of MS and SS shall be made with respective corrosion coupons only.
- vi) Firm shall install corrosion racks & other performance parameters monitoring equipments at condenser outlet for both the units separately. Initial 10 days shall be allowed for system stabilization and on 11th day, the coupons of MS and SS shall be installed in the rack for corrosion monitoring. The coupons shall be taken out on every 15th day during the initial two months trial period and thereafter on every 30th day of the installation.
Every time new coupons should be installed. Maintenance of all performance parameters monitoring equipment falls in the scope of bidder. Bidder shall keep one set of performance parameters monitoring equipment as spare at site for handling exigencies.
- vii) Performance guaranteed monitoring equipment shall be kept under joint lock of the firm & RGTPP representative.
- viii) The side stream filters available at site are to be operated and backwashed on daily basis or as per system requirement.
- ix) The bidder should submit the test certificates of each lot of chemical supplied.
- x) The unit may go under planned/forced shutdown at any time; bidder shall control the dosing of chemicals of treatment program in proportionality.
- xi) Excess quantity of chemicals left unutilized shall be taken back by the bidder on closure of contract.
- xii) During the treatment, if any of the parameter deviates from its normal value, then same shall be immediately brought to the notice of the Chief Chemist, RGTPP, Hisar or his representative.

- xiii) Condenser data i.e. temperature and pressure of inlet and outlet, vacuum and Plant Load etc. of both units shall be recorded once a day by the firm.
- xiv) The firm shall be free to place any additional corrosion racks during start up, unstable and modified treatment periods in consultation with RGTPP to ascertain the effectiveness of the treatment program. RGTPP will not take any responsibility in the failure of the treatment program.
- xv) In case the firm feels that RGTPP lab is not able to analyse the parameters which can affect the performance parameters, he shall be free to collect the water samples and get analysed at an outside Government/reputed Laboratory approved at their cost.
- xvi) The contractor shall provide all consumables, tools etc as required for execution of the job.
- xvii) The contractor shall provide all safety appliances during handling of chemical/ formulation.
- xviii) Transportation and delivery of all chemicals/ formulation from contractor works to RGTPP, Khedar, Hisar site shall be in the contractor's scope.
- xix) RGTPP reserves the right to fore-close the contract at any time without assigning reason and payment will be made for actual chemical consumption till that day.
- xx) The firm shall provide analytical procedures, testing chemicals to verify the composition/active ingredients of all the specialized chemicals supplied by the firm at site of RGTPP, Hisar as reported in the test certificates
- xxi) Compliance of all statutory requirements shall be the responsibility of the contractor.
- xxii) Contractor must ensure that the smooth running of plant is not hampered.
- xxiii) Chemist of the firm shall maintain daily log sheet and register for smooth running of treatment program.
- xxiv) Contractor shall provide sufficient man power in each shift round the clock beside one highly skilled chemist / Site in-charge in general shift for carrying out uninterrupted & smooth circulating treatment program .Minimum wages as per Haryana Labour Law shall be paid to personnel deployed by the firm as per wages rates issued by Labour commissioner from time to time.
- xxiv) The bidder shall carry out additional activities and other specialized testing as per their prevailing practice to meet with the performance guaranteed parameters.
- xxv) The chemicals should not have any deleterious effect on any component of the CW system including the packing materials of the cooling towers, CW pumps, concrete duct & structure, condenser plate & tubes and MS ducts etc.
- xxvi) Cooling water chemical treatment program should follow all applicable norms of Central/state pollution control board.
- xxvii) It is not necessary that both units will be in operation all the time throughout the year. Number of Unit in running condition will be none, one or two. In case of prolong shutdown of both the units, firm will maintain residual chlorine to an extent of 1 PPM in the circulating CT basin water at least once a week or as per system requirement.
- xxviii) Any excess consumption of freezed quantity of RGTPP inputs i.e. Sulphuric acid 790 Kg per day and liquid chlorine 300 Kg per day, then the amount of chemicals consumed extra will be deducted from contracto's monthly bill.

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

GENERAL TERMS AND CONDITIONS OF CONTRACT

1) CONTRACT AGREEMENT

The Firm 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

The quoted rates shall on FOR destination basis inclusive of all taxes, Packaging & forwarding Charges, Freight Charges, Transit Insurance Charges etc. except GST. The rates shall remain firm during the period of contract. However, GST shall be paid extra as per actual / applicable rates at the time of execution of contract.

3) EARNEST MONEY AND SECURITY DEPOSIT

Every tenderer, while submitting his tender, shall deposit the earnest money specified in the NIT (Rs. 4,18,900/-) online by using service of secure electronic payment gateway directly through RTGS/NEFT. After the EMD payment confirmation, the bid can only be submitted. The secure electronic payment gateway is an online interface between contractors and online payment authorization networks. The earnest money furnished by the successful tenderer on whom the work order is placed shall be converted into security deposit as a guarantee for faithful and satisfactory execution of the W.O.

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 bidders within 15 days of the execution of the contract with the selected bidder.

The security shall be 10% of the contract value. The deduction of the security deposit shall be regulated according to the annual rate contract and 10% amount of the monthly running bill shall be kept as security deposit. However, the EMD already deposited by the bidder shall be converted into the security deposit and the balance amount shall be deducted from the running bill. The security deposit by contractor shall be retained by HPGCL for faithful execution of the contract.

Security deposit of the contractor shall be released only after completion of the entire period of the contract and on the certificate of Chief Chemist for successful completion of work.

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 his validity period.
- ii) If the W.O. has been issued but the firm refuses to comply with it. Irrespective of the fact that HPGCL sustain any loss on account of such default or not
- iii) In the event of breach of a contract in any manner.
- iv) In the 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

- a) 100% payment, after deducting 10% security deposit and statutory deductions, of the monthly running bill shall be made after satisfactory completion of work actually done
- b) No advance payment shall be made under this contract.
- c) Payment of the lot(s) of the material received in store RGTPP or at the site of CW Chemical treatment, RGTPP, Hisar will not be made. Only payment of the material actual Consumption during a particular month will be released.
- d) Payment for the trial period of two months will not be made in first instance but the same will be released only after successful completion of trial period.
- e) Payment shall be released through monthly bill basis for the material consumed during that month. First payment will be released only after 2 months of successful trial run. Further, payment shall be made as per actual chemical consumption, as per term & condition and rate detailed in LOI / Work Order and on certification by Chief Chemist or his authorized representative. Chief Chemist shall have the liberty to withhold the payment citing reason for unsatisfactory performance or any short fall in job required to be carried out by the contractor up to the satisfaction of Chief Chemist.
- f) Firm shall submit separate monthly bills for chemical supply part and service part.

5) MODE OF PAYMENT:

a) **Service Part** :- Payment shall be released by the DDO's 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 India, within 7 days of issue of 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 ESCROW account opened for the purpose.

b) **Supply Part**:- Payment shall be released by the Sr. Accounts Officer, RGTPP, Khedar, Hisar through RTGS/NEFT. For payment through RTGS/NEFT, the supplier will provide complete bank details viz. Name of Bank / Branch, Account Number, Type of Account, IFSC Code etc. to Sr. Accounts Officer, RGTPP, Khedar, Hisar. No Bank charge etc. of any kind shall be paid HPGCL.

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 period of contract is for 03 years from date of start of work with a provision of further extension of 03 months at the same rates, terms and conditions of work order on the discretion of HPGCL only.

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 of any liquidated and/or other damages.

8) PENALTY FOR DELAY

Time is the essence of the contract. The contractor shall insure timely completion of the job as per stipulated completion period. In case of delay in completing the work/job, the penalty for delay will be imposed @ 1% of the total contract value per week or part thereof subject to maximum of 10% of the contract value.

Additional penalty will be imposed to the firm for non-timely payment of wages, deposit of EPF& ESI etc. as per relevant regulation/Act.

9) DOCUMENTATION:-

A) Supply Part:- The supplier shall submit a set of documents as detailed below well in time to the following officers for processing his bill for pass and payment.

i) Chief Chemist (Purchaser copy):-

- | | |
|-----------------------------------|--|
| a) Acceptance of PO | b) Readiness of material / inspection call |
| c) Copy of invoice | d) Copy of RR/GR |
| e) Advance intimation of dispatch | f) Test Certificates |

ii) Concerned Sr. A.O. (Accounts copy):-

- | | |
|---------------------------------------|-----------------------------------|
| a) Copy of invoice in triplicate | b) GST Details |
| c) Proof of Insurance charges if any | d) Guaranty/ Warranty Certificate |
| e) D.D on account of security deposit | f) Copy of inspection report |

iii) Concerned Executive Engineer (Consignee copy):-

- | | |
|-------------------------|------------------------------|
| a) Copy of invoice | b) Copy of Inspection Report |
| c) Dispatch particulars | d) Copy of RR/GR. |

Note: - If the documents shown above are not sent to the appropriate office within due period then document will not be retired and the responsibility for demurrage/ wharf age of material will be on supplier's account. No interest, what so ever on any account shall be paid by HPGCL. Bank Charges if any shall be borne by the supplier.

B) Service Part:- The contractor of the work shall ensure to submit the following document 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. A photocopy of the EPF code, ESI code, Labour license if required, PAN No. shall be attached with the 1st running bill for reference and record.
 - b) Tax invoices shall be raised by the contractor / service provider which should also contain invariably their GST Registration Number, HSN Code, place of business, with address and a unique invoice number suffix with RGTPP so that the invoice could be distinguished with other places of business of HPGCL i.e. PTPS, DCRTTP, FTPS, corporate office.
 - c) 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.
 - d) 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 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 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 forwarding the bill for pass & payment.

10) Performance Bank Guarantee

Contractor shall submit bank guarantee of the nationalized bank equivalent to 10% of the contract value in the prescribed performa valid up to one month after completion of warrantee period.

11) WARRANTEE:

The supplier shall be made responsible to replace free of cost, with no transportation or insurance cost to the Corporation, up to the destination the whole or any part of the material, which in normal and proper use proves defective in quality or workmanship, subject to the condition that the defect is noticed within 12 months from the date of use of material at site or 18 months from the date of receipt, whichever period may expire earlier provided the RGTPP gives proper written notice within the reasonable time actually required to do so and above warranty will also be applicable to the material/equipment so replaced by us".

No interest, whatsoever on any account, shall be paid by HPGCL.

12) FORCE MAJEURE:-

The delay in the delivery of the supply and completion of work may be treated as force majeure to the contract only if:-

- i) The delay in manufacture of delivery of the material / equipment on order result 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
- ii) The supplier's request for extension of the delivery period along with all necessary evidence, 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 particular work will be made.
 - II. For more than one month, a deduction @ 50% payment of particular work will be made.

14) OVER RUN CARGES

No overrun 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 loading, 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, GST 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, 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 works. The contractor will submit the copy of EPF/ESI challan to the

Factory Manager, at the time of 90% payment along with corresponding list workers. The contractor shall make the payment of wages to its labour in their saving account linked with the ESCROW account only. Documentary evidence there of 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 may 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 equipment 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 and 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 form 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 in consequence of, and / or relating to the contract whether or not obligations of either of both the Supplier 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 MD, HPGCL or an officer appointed by the MD, HPGCL as his nominee. The award of the Arbitrator shall be final and binding on both the parties to the 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- The courts of the place from where the acceptance of tender has been issued shall alone have exclusive jurisdiction to decide any dispute arising out of or in respect of the contract.

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) PARTIES:

The parties to the Contract are the Supplier and the Purchaser, Legal address of the Parties to the Contract is as under:

Supplier:

Purchaser: RGTPP, Khedar, Hisar, a unit of Haryana Power Generation Corporation Ltd.

For all purposes of the contract, including the arbitration there under, the address of the Supplier mentioned above, shall be the address to which all communications addressed to the supplier shall be sent, unless the Supplier has specifically intimated a change thereof.

26) AUTHORITY OF THE PERSON SIGNING THE CONTRACT ON BEHALF OF THE SUPPLIER:-

It is presumed that the person who has signed these Tender-papers (including the terms and condition) has got authority to sign on behalf of the supplier. If it is discovered at any time that the person so signing had no authority to do so, the purchaser without prejudice to any other right or remedy available to him, may cancel the contract and make a purchase of the material at the risk and cost of

such person and hold such person liable to the purchaser for all cost and damages arising from the cancellation of contract including any loss which the purchaser may sustain on account of such purchase.

27) DELIVERY PERIOD AND DAMAGES FOR DELAY:-

The date of delivery of material as specified in the purchase order shall be the essence of the contract between the supplier and the Corporation, and the delivery of each consignment must be made as per delivery schedule.

No supplies / consignments received after the date on which they were actually due according to the terms of the purchase order, shall be accepted by the consignee, except with the written approval of the purchasing authority. Even in case of acceptance of delayed supply the supplier shall be liable to pay @ 0.5% per week or part thereof of the delay of the value of the goods so delayed where the part supply is acceptable and of the P.O/W.O value where part supply is not acceptable, subject to a maximum of 5% of the total value of the delayed / undelivered supplies.

28) TESTS AND INSPECTIONS:-

The tests and inspections shall normally be arranged at the supplier's premises before the material is dispatched to the Corporation, and copy of the inspection / test report in such case shall be attached by the supplier in original along with Railway Receipt / GR and other requisite document as per W.O. For this purpose, the supplier shall give at least 15 days' notice to the purchasing authority to arrange for the inspection of goods offered for dispatch, on different occasions, before dispatch if inspection is not waived off. In addition to this, the supplier has to submit copy of test certificates along with inspection call. Without test certificates, pre-dispatch inspection call will not be accepted and delay on this account will be on the part of the supplier.

HPGCL has the right to get the pre-dispatch inspection done from third party along with HPGCL representative.

In case, the supplier is not having its own testing facility and any agency has not been specifically mentioned in the WO, then the supplier will submit the test certificates issued from any Govt. Approved laboratory.

Supplier shall ensure that all the facilities necessary for carrying out the inspection/prescribed tests are made available to the inspection officer at the point of inspection to be carried out.

In case of non-conduct of testing due to non-availability of material, the charges of the inspecting officers shall be borne by the supplier.

The inspection call received after expiry of delivery period may or may not be entertained.

Supplier shall dispatch the material with copy of inspection report and manufacturer test certificate, immediately after inspection but not later than 7 (seven) days falling which the delay shall be on the part of supplier for the purpose of L.D. In case of waiver of inspection, supplier shall dispatch the material within 7 days of receipt of waiver letter or 10 days of dispatch of waiver letter whichever is earlier.

29) PACKING:-

The supplier shall provide for secure protection & packing of the material in accordance with the best established Practices so as to protect the chemicals from damages. Any breakage, damage and/or pilferage including when in transit arising from faulty packing shall be the responsibility of the supplier. All packages shall be visibly marked mentioning work order number & name of buyer in bold letters & must contain copies of challan / packing slips inside. Cost of P&F shall be bear by the supplier.

30) MODE OF TRANSPORT:-

The normal mode of transport for dispatch of material from supplier's end shall be by train / approved road transporter.

31) TRANSIT INSURANCE:

The material could be insured against all risks and loss for its full delivered value up to the destination station. The insurance charges from for dispatching Station up to the destination station will be borne by the supplier at actual. The consignee shall report losses/damage to the Supplier at the earliest possible of the receipt of the consignment at the site.

It will, however, be the responsibility of the Supplier to prefer timely claim on the insurance underwriters. The Supplier will make good the losses / shortages, replace / repair the damage to the consignee irrespective of the claim lodged / to be lodged with the insurance underwriters or other appropriate authorities.

The Supplier shall supply or replace such material or parts as are lost in transit within reasonable time based on the delivery period free of charges.

The Supplier shall be responsible for all loss, destruction, damage; deterioration of the material from any causes whatsoever in the course of transit from the Supplier to the consignee. If insurance is in the scope of consignee, the firm will intimated to consignee advance about dispatch of material otherwise all the losses, if any will be in the account of supplier.

32) DEMURRAGES

The Supplier shall be responsible for all demurrage charges due to late receipt of G.R. and non-receipt of prior intimation of dispatch of material to the consignee. G.R. through bank other than specified one will not be accepted. If any consignment and or its relevant shipping document are dispatched to an incorrect address / destination or parts of the case, the additional expenses involved & delay in delivery shall be to the Supplier's account.

33) RISK PURCHASE:-

In the case of delay or non-supply of any or all the material on the dates they are due, the HPGCL will have a right to refuse to accept such delayed supplies and to make the purchase of the material so delayed or not supplied from any alternative source or through departmental manufacture, at the sole risk and cost of the supplier. Any extra expenditure incurred on such purchase or departmental manufacture shall be recoverable in full from the supplier in addition to the Corporation's right or claim for applicable liquidated damages or penalty.

34) PATENT RIGHT:-

The supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design right arising from use of the Goods or any part thereof in India.

OTHER TERMS & CONDITIONS

- 1) CONSIGNEE:-** For supply part of work order, consignee will be Executive engineer /Store RGTPP, Khedar, Hisar.
- 2) E –Way Bill:** - E way bill is mandatory for all interstate movement of goods value exceeding Rs. 50000/-. You are required to register yourself on e-way bill portal.
- 3) TEST CERTIFICATES OF PRODUCTS:** Test certificate for the tests carried out at the manufacturer's premises conforming to relevant IS, shall be sent for approval prior to any inspection / dispatch. In case supplier is not having its own testing facilities than the supplier will submit test certificates from any govt. approved lab.
- 4) SHORT CLOSE OF CONTRACT:** The purchaser reserves the right to short close the work order without assigning any reasons whatsoever at any time.
- 5) CANCELLATION:** The purchaser reserves the right to cancel, amend or alter the order without assigning any reasons whatsoever at any time before the receipt of intimation to this office regarding dispatch of material to destination in whole or in parts
- 6) INCOME AND OTHER TAXES DEDUCTIONS**

The income tax plus surcharges and any other statutory levies required to be deducted by the HPGCL will be deducted at source at the rate applicable from time to time.
- 7) BANK CHARGES:** All bank charges shall be borne by the supplier.
- 8) INTEREST:** No interest, whatsoever, on any account shall be paid.
- 9) EPF & ESI 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. The contractor / firm shall have ESI registration and shall compliance with ESI Act 1948

10) ENGAGEMENT OF ADEQUATE LABOUR

The contractor shall provide sufficient man power in each shift round the clock beside one highly skilled chemist / Site in-charge in general shift for carrying out uninterrupted & smooth circulating treatment program

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 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 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 Chief Chemist/ Chemists. 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.
- j. Contractor shall remove any person employed on the work who misbehaves or causes any nuisance or otherwise in the opinion of the Chief Chemist or his representative or is not fit to be deployed on the work. Such person shall not be re-employed or allowed on the work without prior written permission of the Chief Chemist.

11) 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.

12) 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.

13) ACCOMMODATION

The contractor will be responsible for the accommodation of his employees / workers deployed for execution of work. However, if the accommodation is available with HPGCL the same may be allotted on chargeable basis as per HPGCL rules revised from time to time.

14) 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.

15) 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 mentioned in the indent will be addition of time of all the jobs / activities as per contract. Chief Chemist 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 Chief Chemist 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 Chief Chemist all the time
- b) The decision of Chief Chemist shall be final with regards to all matters relating to his contract.
- c) The decision of Chief Chemist 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 Chief Chemist. No extra claim / over time will be paid on this account.
- e) In case the contractor fails to do the extra / substituted work, Chief Chemist 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 Chief Chemist

16) TELEPHONE

The successful contractor shall provide the phone facility to his supervisor/site in charge/Chemist to facilitate HPGCL for easy communication with the contractor. The phone Number shall be intimated by the contractor immediately after the award of the contract.

17) AUTHORIZED REPRESENTATIVE

The firm will intimate (in writing) the name of authorized representative/supervisor 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.

18) 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 and without prejudice to the other provisions of the work order.

OR

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

19) SPECIALIZED SERVICES:

The charges for availing all type of specialized testing works from an independent NABL accredited laboratory for ensuring quality of material supplied as well as maintain designed parameters of the cooling water at RGTPP, Hisar shall be carried out by the contractor at his own cost.

20) 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.

22) The successful bidder to whom the work will be allotted has to submit the duly filled performa (as per Annexure-1 to 5) for compliance of SOPs of GST and TDS.

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

SPECIAL TERMS AND CONDITIONS**1. GUARANTEED PARAMETERS**

Firm shall supply specialized cooling water treatment chemicals and carry out cooling water chemicals treatment programs per HPGCL requirements throughout the year. Contractor shall achieve guaranteed performance parameters as defined in the work order as per annexure-D.

Non achievements of guaranteed parameters: In case the guaranteed performance parameters are not achieved, then the penalty will be imposed. **Penalties will be imposed in case the Performance guaranteed parameters as per Annexure; Technical Terms & Condition are not met.**

Daily, weekly and monthly and half yearly reports are required to be generated by the vendor and submitted to Lab RGTPP, Hisar. After conducting first three months program, if general rate of defined parameters are within the guarantee limits as specified above shall be continued. In case the general corrosion rates, TBC, SRB of identified condensers values are higher than the specified limits then the penalty will be imposed as under.

	General corrosion (Based on 30 days evaluation)	Penalty
1	For increase in every 1.0 mpy & part thereof over 3 mpy for MS coupons.	5 % of monthly bill for supply part
2	For increase in every 0.1 mpy & part thereof over 0.3mpy for SS coupons.	5 % of monthly bill for supply part
3	For decrease in every 1ppm total phosphate below 4 ppm of total phosphate on monthly average basis.	5 % of monthly bill for supply part
4	For decrease in every 0.1ppm Zinc below 0.5 ppm of Zinc on monthly average basis.	5 % of monthly bill for supply part
5	For increase in Total Viable Count (TVC) of CWS for every 25 % and part thereof over and above guaranteed value.	5 % of monthly bill for supply part
6	For increase in Iron Bacteria counts of CWS by 25 % and part thereof over and above guaranteed value.	5 % of monthly bill for supply part

2. PROGRESS REPORT

- a) During the execution of the work in pursuance of the contract, firm shall submit the daily, monthly report to the in charge of the laboratory. Such reports shall be as in the form of as may be required by the laboratory. Daily report shall be submitted in the form of prescribed log sheet.
- b) The bidder should clearly indicate the constituents and/or active components of the chemical formulations used for the treatment and also provide the analytical methods/testing chemicals to analyse the formulation and residual concentration levels in the CW system.
- c) The bidder shall also provide the quality control check procedure for the chemicals under usage. Each dispatched lot of the chemical formulation should have the quality test certificate from the manufacturer's lab or any reputed Govt. approved laboratory.
- d) The bidder shall provide complete literatures of the product including the active components/constituents, material safety data sheet, procedure for safe handling of chemicals, first aid requirement in case of accident, working mechanism of the chemicals, troubleshooting guidelines etc. before starting the treatment program.
- e) The chemicals shall be supplied in new HDPE containers only, with two handles on either side
- f) Vendor shall submit Test Certificates along with chemicals of each batch stating that all the chemicals are biodegradable and environment friendly and none of the chemicals are under the list of banned chemicals. Active contents of the chemicals / compounds shall be clearly specified in the test certificates.
- g) Electronic Metering pumps with motors (one running & one standby) with dosing tank for dosing each chemical / Formulation with interconnected corrosion resistant piping with valves etc. Electronic pump + motor shall be mounted on PP/FRP tank with all necessary accessories and shall be obtained from the suppliers.
- h) Deposit monitor should demonstrate the efficacy of fouling/scaling program indicating deposit in the cooling water system.
- i) Deposit monitor shall be based on system metallurgy (i.e. based on one CS Tube and one SS tube).

- j) Bio-fouling monitor by pressure drop/Electrochemical method should demonstrate the efficacy of microbiological program eliminating bio-film formation. The vendor shall install Bio-fouling monitor for each cooling tower as per location specified by RGTPP to meet the specified requirement.
- k) Vendor shall also make arrangements for monitoring of Oxidation Reduction Potential(ORP) through standard portable instruments for each cooling tower to maintain continuous oxidant (i.e. Chlorine)
- l) Vendor shall supply Microbiological test kit to analyse TBC, Iron bacteria & SRB so that indicative status of microbiological load is known.
- m) All equipment / instruments including monitoring instruments will have to be kept in healthy working condition all the times.
- n) In case of failure of any equipment / instrument same shall be repaired within 24 hours in case of minor problems & within 5 working days in case of major problems & beyond specified period, these equipment / instrument shall be replaced.
- o) Checks on other parameters like total hardness, Calcium Hardness, Magnesium Hardness, Silica, Chloride, Sulphate, Zinc, Organic & Inorganic phosphate levels in re-circulating water are also to be kept. In addition to the above, Corrosion monitoring for MS and SS shall be done on daily basis through corrorator.
- p) The treatment program involves round the clock operation; Vendor has to provide adequate & skilled manpower to fulfill the contractual obligation as per the scope of work. The Vendor shall depute qualified technical persons having minimum two years of experience in CW treatment for on the spot/ same day response to suggest corrective measures starting from preparatory work to stabilization of the program along with experienced technicians competent to carry out monitoring of the treatment program. Vendor shall arrange for the round the clock monitoring of CW treatment program.
- q) Vendor shall quote for all the chemicals required for onetime pre cleaning and passivation.
- r) Vendor shall arrange for all civil works and mechanical fitting for installing the coupon rack.
- s) Total Bacterial count (TBC), Sulphate reducing bacteria (SRB) is to be tested once in a week & Iron Bacteria is to be tested on monthly basis. Results of deposit monitor & bio-film probes are to be reported on monthly basis.
- t) Vendor shall make arrangement for third party testing for all bacteriological parameters once in four months through NABL accredited lab. Cost incurred will be borne by the vendor.
- u) Limited quantity of Sulphuric Acid & Liquid Chlorine will be supplied by RGTPP to the vendor free of cost and excess of the quantity of any of the chemical used by the vendor at any time during the contract period will be chargeable as per prevailing rates of latest P.O. Amount involved for excess use of any of the chemical will be deducted from running bill of the vendor.
- v) The firm shall maintain the guaranteed water parameter as mentioned in the contract.
- w) Any excess quantity to meet the guaranteed performance parameter (Minimum of Zinc and total phosphate parameter in the circulating water) shall be provided free of cost by the firm during the entire period of contract.

4. OTHER STANDARD TERMS AND CONDITIONS

- 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 of all CW treatment chemicals, sulphuric acid, supplied by RGTPP for this contract.
- iii) The manpower deployed shall be having sufficient experience in carrying out the above jobs. 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.
- iv) 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 equipment. Contractor should follow the all policy decision of the HPGCL.

- v) 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/provident fund, workman compensation act, ESI etc.
- vi) Contractor shall attend at his own cost the meeting with Chief Chemist, SE/MP&GS, CE/RGTPP and 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.It is mandatory for the firm to **provide Chlorotex by the firm for testing of FRC of CW system**

**Chief Chemist,
For Chief Engineer / RGTPP,
HPGCL, Khedar, Hisar.**

SCHEDULE OF QUANTITY OF THE MATERIAL

NIT No. 11 /RGTPP/CLAB-32/CWT-VOL.-V

Dt.03.01.2025

Sr. No	Description	Product name	Quantity (kg/day)	Quantity required for stabilization/initial fill (kg)	Total quantity for 3 years(along with stabilized quantity)
1.	Corrosion inhibitor				
2.	Scale inhibitor				
3.	Bio dispersant				
4	Biocide				
5	Any other chemical/item if applicable				
6	Sulphuric Acid (Technical grade 98%)	-			
7	Liquid chlorine gas	-			

*Dose of Bio dispersant/Biocide can be per day/week basis at the discretion of the firm.

Note:

1. Above Schedule of Quantity provided by the bidders / tenderers will be used for evaluation of L-1, L-2, L-3.... Etc. bidders which will be based on overall rates quoted by the bidders.
2. Work will be awarded to single firm with having lowest overall quoted rates including the loading of Chemical Supply Part (which is to be supplied by the firm), Cost of Sulphuric Acid & Liquid Chlorine (which will be provided by HPGCL) and Service Part.
3. Rates of Sulphuric Acid and Liquid Chlorine would be taken as Rs. 5.63/- per KG & Rs. 5.90/- per KG respectively (as per PO issued by RGTPP on FOR basis including GST@18%) for the loading purpose as mentioned at Sr. no. 02.
4. **Firm has to supply the Schedule of Quantity and Technical Specifications in Part-1 of the Tender whereas the rates of chemical per unit (as per BOQ) shall be provided in Part-2 i.e. BOQ (Price Bid).**

Technical specifications of the product to be supplied by the firm

NIT No. 11 /RGTPP/CLAB-32/CWT-VOL.-V

Dt. 03.01.2025

Sr. No.	Description	Product name	Active/ingredient component		Specification		
			Active	%age	Appearance	Density /Spl.gr.	pH
1.	Corrosion inhibitor						
2.	Scale inhibitor						
3.	Bio dispersant						
4	Biocide						
5	Any other chemical/item if applicable						

STATEMENTS OF BIDDERS

1. Name of Bidder _____
2. Address of Head Office _____
3. Correspondence Address _____
4. Legal status _____
5. PAN & GST Number of the Bidder (attached self attested photocopies)
PAN _____ GST 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

Name & Designation of Authorized Bid Signatory _____

Undertaking from the vendor (on vendor's letter head for not generating e-invoice

We M/s. having PAN and 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 provisions of Central Goods and Services Tax Act, 2017 and rules thereunder ("GST Law"). Further, we also undertake that if the aggregate turnover of M/s. exceeds 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 provisions 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:

Annexure-2

Undertaking from the vendor (on vendor's letter head) regarding validation of GST registration (for each GST number separately)

1.1.1. GST registration of GST no..... in name of m/s.....is valid as on date.....

1.1.2. No default has ever been made by me/my firm in name of in filing the various GST returns and deposit of GST dues with the department with respect to GSTN.....

Yours Truly,

For M/s.....

Authorized Signatory Name: Designation:

Annexure-3

Undertaking cum declaration from the vendor (on vendor's letter head)

- 1.2. I undertake to submit a CA certificate regarding validity of GST registration on every six months during the tenure of contract.
- 1.3. I undertake to 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 supply of Good or/and services to HPGCL.
- 1.4. I undertake to inform immediately the HPGCL about initiation of any proceeding (if any) against me/my firm under the GST laws which may result in suspension or cancellation of GST number of the Vendor.

Yours Truly,

For M/s.....

Authorized Signatory Name: Designation:

**Undertaking cum indemnity bond from the vendor (on vendor's letter head)
regarding timely deposition of GST**

- a) Certified that we are registered as taxable person under GST Act, our GST no. is -----
--- and which is active as on-----.
- b) Certified that bill for the month of-----in which GST has been claimed, is included in all the GST returns submitted by us to the GST authorities.
- c) Certified that we shall deposit the amount of GST collected from RGTPP/HPGCL to the Government exchequer within the time specified under the GST Law.
- d) Certified that the goods/services on which GST has been charged have not been exempted from GST under GST Act. The rate/amount of GST in these goods/services is correct under the provisions of the GST Act.
- e) We give Undertaking-cum-indemnity bond to RGTPP/HPGCL that we shall indemnify to RGTPP/HPGCL for any loss sustained in case we does not deposit the GST to the government exchequer, which it has recovered from the M/s HPGCL as tax.

Yours Truly,
For M/s.....

Authorized Signatory Name: Designation:

**Performa for declaration under Section 206AB/Section 206CCA
DECLARATION**

I, _____, _____ (Designation) of _____
(Name of the Corporation/Company/Board/Trust), having PAN _____ (here in
after referred as the Corporation/Company/Board/Trust), hereby declare and affirm a under:

- 1. That the Corporation/Company/Board/Trust is a regular income tax assessee.
- 2. That the Corporation/Company/Board/Trust has been filing its return of income tax regularly.
- 3. That the Corporation/Company/Board/Trust has filed returns of income tax for the financial years 2018-19 and 2019-20 under the provisions of section 139(1) of the Income Tax Act, 1961 as per details given below:

Assessment Year	Acknowledgement Number	Date of filing

- 4. That the new provisions of Section 206AB/Section 206CCA which require deduction/collection of tax at source at higher rates are not applicable to our Corporation/Company/Board/Trust and hence tax may not be deducted / collected at source at higher rates.

(Deponent)

That whatever stated above in the above stated para (s) are true to my knowledge and belief.

(Deponent)