



HINDUSTAN ORGANIC CHEMICALS LTD
(A Government of India Enterprise) AMBALAMUGAL, COCHIN – 682302
Phone: (0484) 2720911, FAX No. (0484) 2720893
LIMITED E- TENDER NOTICE

HOCL Invites e Bids under the two bid system for the following item.

Sl. No.	Description of item and Tender No.
1	Supply of chemicals for cooling water treatment and boiler water treatment for a period of 2 years. HOCL tender ref : MAT/PUR/32516/19

Tender documents may be downloaded from www.hoclkochi.com or or www.eprocure.gov.in

Approved vendors may please get registered with NIC e-procurement portal (URL: <https://eprocure.gov.in/eprocure/app>) to participate in the tender. Tenders submitted other than through online procedure specified will not be accepted. Please visit the above sites regularly for any addendum/ corrigendum/extension before submitting the offers.

EMD Amount : Rs.12000/-

Thanking you,
Yours Faithfully,

For Hindustan Organic Chemicals Limited
(GSTIN: 32AAACH2663P1ZG)

K R USHARANI
CHIEF GENERAL MANAGER MATERIALS

MAT/PUR/32516/19

23.08.2019

M/s.

Dear Sir,

Hindustan Organic Chemicals Ltd. is a Govt. of India Undertaking manufacturing Phenol, Acetone & Hydrogen Peroxide at its plant at Kochi, Kerala, India. HOCL invites e tenders for finalizing the contract for the supply of chemicals and monitoring of cooling water treatment and boiler water treatment for a period of 2 years in two bid system. Detailed specification and scope of work is given in the tender documents. HOCL has entered into an agreement with M/s NIC for e- procurement through their portal www.eprocure.gov.in. You may please get registered as a vendor with MSTC for participating in this tender.

Tender documents are uploaded in HOCL website www.hoclindia.com and www.eprocure.gov.in

The details of the tender are as shown in INDEX enclosed

You may submit your online offer on two bid system before the due date and time specified.

EMD : Rs.12000/-

Due Date & time for bid submission : 29.08.2019 at 2.00 PM

Tender Opening Start Time & Date : 30.08.2019 at 2.00 PM

Thanking you,

Yours faithfully,

For Hindustan Organic Chemicals Ltd.

USHARANI.K.R

CHIEF GENERAL MANAGER (MATERIALS)

INDEX - TENDER NOTICE FOR WATER TREATMENT CHEMICALS

PART A – COOLING WATER TREATMENT

1	Scope of work	Annexure I
2	Details to be incorporated in tech bid	Annexure II
3	Special instructions to bidders	Annexure III
4	Specification of cooling tower	Annexure IV
5	Make up water analysis(pond water-main source and PTP water)	Annexure V
6	Check list for cooling water treatment	Annexure VI
7	Chemical requirements for cooling water treatment	Annexure VII

PART B -BOILER WATER TREATMENT

1	Scope of work	Annexure I
2	Details to be incorporated in tech bid	Annexure II
3	Special instructions to bidders	Annexure III
4	Specification of Boiler	Annexure IV
5	Standard boiler water	Annexure V
6	Check list for boiler water treatment	Annexure VI
7	Chemical requirements for boiler water treatment	Annexure VII

PART C -E BID SUBMISSION

1	General instructions to the bidders for e bid submission	Annexure-I
2	E procurement tender process	Annexure IA
3	Eligibility criteria for participating in the bid	Annexure-II
4	General Terms and conditions of the tender	Annexure-III
5.	Technical Bid Format	Annexure IV
6.	Price bid Format	Annexure V
7.	Commercial term format	Annexure VI

PART A - COOLING WATER TREATMENT

ANNEXURE -I

SCOPE OF WORK

The work involves the detailed study of the cooling water system of our No.1 cooling tower and the supply of various water treatment chemicals for the pre-cleaning, passivation and regular treatment of the cooling water of No.1 cooling tower in our plant at Ambalamugal. Presently we are using the water treatment chemicals supplied by M/s. Anco India Chemicals (P) Ltd. Please note that in case of a changeover of the chemicals to another one, we'll not be able to stop the cooling tower and the required water treatment has to be done in continuation to the existing ones. The programme shall be based on corrosion inhibitors, scaling inhibitors, fouling inhibitors, with minimum 2 broad spectrum non oxidizing biocide, chlorine, bio-dispersants and other mineral dispersants. In no cases, the stoppage of system/cooling tower is possible. The programme including flushing, passivation etc shall be implemented on line i.e. without varying the load of the cooling tower, heat exchangers etc.

The circulation of the No1 Cooling Tower is around 5100 M³/hr and the holdup capacity is (sump) + (Piping) is 3750 M³ and side stream filter having capacity of 50 M³. Average consumption of makeup water is 55 M³/Hr. The design bleed off (Blow down + Drift loss) is 22 M³/Hr.

The specification detail of Cooling Tower is given in Annexure IV and make up water analysis is given in Annexure V. The vendors are free to verify these values using their facilities at their cost.

The parameters to be controlled in the system have to be specifically mentioned in the offer and should be adhered during the treatment programme. The dosage of the chemicals offered / recommended should be strictly adhered, to maintain the required parameters. At any cost, there should not be any deviation in the consumption of chemicals recommended for the treatment to maintain the specified parameters; especially the consumption should not go high with respect to recommended dosage. The chemicals actually consumed in excess of the quantity specified in your offer shall be borne by the party.

Corrosion Coupon

- (a) Corrosion evaluation shall be done every month. The corrosion on MS Coupon shall not exceed 3MPY.
- (b) The corrosion coupons should be free from inorganic & biological fouling, deposit corrosion & pitting corrosion.
- (c) The installation & evaluation of corrosion coupon shall be in accordance with ASTM D-2688-1992.

Microbiological Analysis

- A. TVC to be less than 1×10^5 /ml
- B. SRB to be less than 60 Col/100ml
- C. Iron Bacteria to be less than 5 org/100ml

Service personnel have to be posted at site to stabilize the treatment programme and to monitor it daily. Service Personnel shall visit our site on daily basis as a part of monitoring the treatment programme and for recommendation of dosage. Weekly report has to be submitted to the Engineer-in-charge by the Service Personnel. In addition a Monthly report has to be submitted to the Engineer-in-charge. The reports are to be submitted as per special instruction (Annexure-III) & Checklist..

Technical Assistance shall be offered till such time the ordered quantity of chemicals is fully used (consumed) or 2 years whichever is more.

Interested vendors can visit our site on any working days to collect any further required details / samples of water before submitting the bids.

PART A - COOLING WATER TREATMENT

ANNEXURE - II

DETAILS THAT ARE TO BE INDICATED IN PART I – TECHNICAL BID

- A. System details and Water analysis
- B. Chemical Treatment Programme
- C. Chemical Consumption on PPM basis, daily, monthly & yearly consumption of each chemical for evaluation purpose.
- D. Control Parameters.
- E. Technical Services offered shall be as per our (ANNEXURE I & ANNEXURE III Clause 6).
- F. Qualifying Requirements
- G. Compliance to attached special instructions (ANNEXURE-III)
- H. MSDS, specification and functions & shelf life of each product
- I. Priced Bid Format PART C (ANNEXURE V)

PART A - COOLING WATER TREATMENT

ANNEXURE - III

Special Instructions

Following details shall be clearly mentioned in the Technical Bid.

1. The procedure for change over from the present treatment system to your system without stoppage of cooling towers.
2. The type of chemicals intended to be used for the following and its dosage to be given in Technical Bid.
 - Corrosion Inhibitor
 - Dispersant
 - Antiscalant
 - Biodispersant
 - Non-oxidising biocides (2 Nos.) minimum out of which one should be 45% glutaraldehyde + Chemicals for generating ClO_2 (oxidizing biocide)
 - Chemicals/biocides required in the absence of Chlorination
3. Copy of MSDS of all chemicals offered. All the chemicals shall be biodegradable and non hazardous. The function of each chemical, specification, shelf life and safe handling procedure to be given in MSDS of each product/chemical.
4. Caustic soda and chlorine for ClO_2 dosing (apart from 2 non oxidising biocides) required for the treatment will be supplied by HOCL at free of cost. Vendor shall specify the dosages of caustic soda and chlorine very clearly in the technical bid which shall be a parameter for evaluation of the offer. The cost of the above chemical consumed in excess of the specified dosages shall be to the vendor's account.
5. Contingency plan has to be detailed in the technical bid for the following
 - Hydrocarbon ingress into system
 - Chlorination failure
 - pH fluctuation
 - Lube Oil/grease ingress into system
 - High iron content
 - High turbidity of Make up water

6. Services to be provided by the vendor till such time the ordered quantity of chemicals are fully used or 2 years whichever is more. Charges for the services to be included in the prices of chemicals. No additional charges will be given by HOCL.
 - a. Your service representatives shall be available on daily basis to monitor the programme (for corrective, preventive actions & routine analysis).
 - b. Your expert technical personnel shall be made available within 24 hrs, as and when required.
 - c. You shall supply and maintain all the monitoring equipments, dosing equipments and kits/aids for monitoring, dosing, controlling and reporting the treatment programme. The details of such items to monitor corrosion, fouling monitor, deposit monitor, microbiological analysis and complete laboratory test kits including all testing reagents and all glass wares for daily monitoring of all control parameters of make up and circulating cooling water etc. shall be detailed in your technical bid.
 - d. All control parameters of circulating and make up water to be analysed by you at site on daily basis to control the parameters and to optimise the chemical consumption and for trouble shooting. The procedure/ method for analysis of above parameters are to be given to you.
 - e. Microbiological analysis for TVC, SRB & Iron Bacteria to be done by you fortnightly. (First fortnight sample shall be tested using Microbe detection test slides at HOCL and second fortnight sample shall be done through outside approved laboratories)
 - f. Reports to be submitted
 - Daily monitoring shall include, monitoring of all the control parameters of circulating cooling water and make up water and control measures / corrective actions to be adopted and quantity of chemicals to be added.
 - Weekly reports shall contain the average of control parameters, chemical stock position (stock at site & at Stores), deviation if any, corrective/preventive actions made, suggestion if any.
 - Monthly reports shall contain trends of all control parameters, measurement of COC (cycles of concentration), corrosion study calculation/details, microbiological study, actual consumption including chlorine & caustic vs. projected consumption, chemical stock, analysis, deviation, corrective/preventive actions and improvements including identification and arresting the system leakages to maintain/improve the cycle of concentration, cause analysis of deviations in any of the parameters & reporting of key performance indicators.
 - g. A training on general water treatment and subjects specific to this programme shall be arranged.

PART A - COOLING WATER TREATMENT

ANNEXURE – IV SPECIFICATION OF THE COOLING TOWER NO.1

Circulation rate	5100 M ³ /Hr
Hold up volume (sump)+(Piping)	3750 M ³
Hot water temp.(Design)	42 degree C
Cold water temp.(Design)	32 degree C
Delta T degree C (design)	10 degree C
System Metallurgy	SS/Carbon Steel
Evaporation loss	33 M ³ /Hr (approx)
Cycles of concentration	1.7 to 2.2
Design Blow down + Drift Loss (Total Bleed Off)	22 M ³ /Hr
Average Make up water quantity	55 M ³ /Hr

- Side stream filter provided
- Chlorination facility provided

PART A - COOLING WATER TREATMENT

ANNEXURE – V

SOURCE OF COOLING WATER MAKE UP

I. (PTP WATER)

PH	: 6.8 –7.2
M-alkalinity	: 15.5 ppm
Hardness	: 12ppm
Chloride	: 10ppm
Iron	: 0.2 ppm
TDS	: 37ppm

III. PARAMETER TO BE MAINTAINED BY THE VENDOR			
1. Cooling Water - PO_4^{3-}	10 - 12	6. Cooling water - P^{H}	6.5 - 7.2
(Other Control Parameter is to be given by the vendor based on their study of the system and feed water details)			

II. ANOTHER SOURCE OF COOLING WATER MAKE UP (POND WATER)-(Sparingly used)

	<u>Min.</u>	<u>Max.</u>
PH	4.0	7.5
TDS	91 PPM	192 PPM
* Fe	0.13 PPM	4.0 PPM
Chloride	75 PPM	105 PPM
Hardness	28 PPM	62 PPM
Turbidity	1.2 NTU	8.1 NTU

* During some period **Fe** content is found to be on higher side (upto 4 PPM). Accordingly dosage may be recommended as a contingency plan.

This may please quote separately . However same will not be considered for comparison purpose

CHECK LIST FOR COOLING WATER TREATMENT ANNEXURE VI

QUALIFYING REQUIREMENTS TO BE SUBMITTED ALONG WITH TECHNICAL BID

Page 1 of 7

Sl. No.	Description	Submitted by Vender	Deviation if Any
Relevant documents / purchase order copies to be provided for all Qualifying requirements listed below:			
1.	Start up experience in a large chemical / petrochemical plant of cooling towers of minimum similar capacity. A minimum of two references are required		
2.	Experience in treating low hardness and low alkalinity water.		
3.	Vendor should have full-fledged manufacturing and R&D set up on India and service support facility at Kochi and carryout servicing directly by the company.		
4.	There should be at least one order for cooling water treatment with a minimum value of Rs. 7.5 Lakhs, in the last three financial years.		
5.	Annual turnover details for the supply of water treatment chemicals for the last three financial years		
6.	ISO certified company (preferred)		
7.	Concurrent commitments of the vendor		
9.	Technical data sheet, write up and material safety and data sheet of the offered chemicals.		

Page 1 of 7

Signature of vendor:

Date:

DETAILS THAT ARE TO BE INCLUDED IN THE IN TECHNICAL BID

Page 2 of 7

Sl. No.	Description	Offer from Vender	Deviation if Any
1.	System details and water analysis after the vendor's study.		
2.	Chemical treatment programme details		
3.	Chemical consumption, daily, monthly and yearly. The recommended dosage in PPM to be given separately for each chemical Including calculation details.		
4.	The procedure for change over from the present treatment system to new system without stoppage of cooling tower.		
5.	Exact quantity of extra chemicals required for smooth change over to the new system		
6.	The treatment shall have the following <ol style="list-style-type: none">1. Corrosion Inhibitor2. Bio-Dispersant3. Mineral-Dispersant4. Antiscalant & Antifoulant5. Non-oxidising biocides (2 Nos.) minimum out of which one should be 45% glutaraldehyde6. Chemicals required for generation of ClO_2 generation7. Chemicals/biocides required in the absence of ClO_2 dosing.		

Page 2 of 7

Signature of vendor:

Date:

DETAILS THAT ARE TO BE INCLUDED IN THE IN TECHNICAL BID

Page 3 of 7

Sl. No.	Description	Offer from Vender	Deviation if Any
7.	All Cooling water Control Parameters shall be specified. The parameters to be controlled in the system have to be specifically mentioned in the offer and should be adhered during the treatment programme.		
8.	Contingency plan has to be detailed in the technical bid for the following		
	a) Hydrocarbon ingress into system		
	b) Chlorination failure		
	c) pH fluctuation		
	d) Lube Oil/grease ingress into system		
	e) High iron content		
	f) High turbidity of Make up water.		
	g) High Chloride in Make up water.		
9.	Vendor shall specify the dosages of caustic soda and chlorine very clearly. Caustic soda and Chlorine required for the treatment will be supplied by HOCL free of cost.		
10.	The cost of Caustic soda and Chlorine consumed in excess of the specified dosages shall be to the vendor's account.		

Page 3 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 4 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
1.	All services and technical assistance shall be Provided by the Vendor till such time the ordered quantity of chemicals is fully used or 2 years whichever is more.		
2.	a) Service personnel have shall be posted at site to stabilize the treatment programme		
	b) Your service representative shall visit the cooling tower on daily basis to monitor the programme (for corrective, preventive actions & routine analysis) and recommendation dosage.		
3.	Your expert technical personnel from head quarters shall be made available within 24 hrs. as and when required.		
4.	You shall supply and maintain all dosing equipments (minimum 3 dosing pumps) and aids for dosing, controlling the treatment programme.		
5.	You shall supply and maintain all the monitoring equipments and kits / aids for daily monitoring, controlling and reporting the treatment programme and for monitoring of all control parameters of makeup and circulating cooling water. The items shall include		
	1. Corrosion monitor		
	2. Fouling monitor		
	3. Deposit monitor		
	4. ClO ₂ generator using chlorinated water. (Party shall visit site to ascertain the existing chlorination system for compatibility with your ClO ₂ generation.)		
	5. Chemical analysis Kits including all reagents and Microbe detection test slides		
	6. All Glass Ware		

Page 4 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 5 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
6.	All control parameters including ORP of circulating and make up water shall be analysed by the vendor at site on daily basis to control the parameters and to optimise the chemical consumption and for troubleshooting.		
7.	The procedure / method for analysis of above parameter shall be given.		
8.	a) Microbiological analysis shall be done fortnightly. Microbiological analysis for TVC, SRB & Iron Bacteria shall be done fortnightly. (First fortnight sample shall be tested using Microbe detection test slides at HOCL and second fortnight sample shall be done through outside approved laboratories)		
	b) Corrosion evaluation shall be done monthly.		
9.	Daily monitoring shall include, monitoring of all the control parameters of circulating cooling water and make up water and control measures to be adopted and quantity of chemicals to be added.		
10.	There shall be no deviation in the consumption of chemicals recommended for the treatment to maintain the specified parameters; especially the consumption should not go high with respect to recommended dosage. The chemicals actually consumed in excess of the quantity specified in your offer shall be borne by the vendor.		
11.	Training (class room lecture) on general water treatment and subjects specific to this programme is to be arranged at site.		

Page 5 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 6 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
12.	All the parameters to be controlled in the system should be adhered during the treatment programme. The dosage of the chemicals offered / recommended should be strictly adhered, to maintain the required parameters.		
13.	Following Reports shall be submitted		
	a) Weekly reports shall contain the average, maximum, minimum of all control parameters, consumption of chemicals, stock position (stock at site & at Stores), deviation if any, corrective / preventive actions made, suggestion if any.		
	b) Monthly reports shall contain trends of all control parameters (Tabular form and graphical), measurement of COC (cycles of concentration), corrosion evaluation, ORP study, calculation / details, microbiological study (Results of TVC, SRB & Iron Bacteria), actual consumption vs. projected consumption, chemical stock, analysis, deviation, corrective / preventive actions and improvements including identification and arresting the system leakages to maintain/improve the cycle of concentration & key performance indicators.		

Page 6 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 7 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
14.	Guarantee		
	a) The corrosion on MS Coupon shall not exceed 3MPY.		
	b) The corrosion coupons shall be free from inorganic & biological fouling, deposit corrosion & pitting corrosion.		
	c) The installation & evaluation of corrosion coupon shall be in accordance with ASTM D-2688-1992.		
	d) TVC to be less than 1×10^5 / ml		
	e) SRB to be less than 60 Col / 100 ml		
	f) Iron Bacteria to be less than 5 org/ 100 ml		
	g) All the control parameters will be maintained within limits with the recommended dosages of respective chemicals.		

PARAMETER TO BE MAINTAINED BY THE VENDOR

1. Circulating Water - P^H - 6.8 - 7.2 Circulating Water - PO_4^{3-} - 10.0 - 12.0
 (Other Control Parameters are to be given by the vendor based on their study of the system and Make Up water details)

Page 7 of 7

Signature of vendor:

Date:

ANNEXURE VII (1 of2)

CHEMICAL REQUIREMENTS FOR COOLING WATER TREATMENT AND THE
DOSAGE OF CHEMICALS TO BE SUBMITTED ALONG WITH TECHNICAL BID

Sl. No.	Description	Name of Chemical	Recommended Dosage (PPM)	Daily Requirement / Basis of Addition (Calculation to be as specified below)
	Regular Chemicals			(Daily Requirement in kG)
	a) Corrosion Inhibitor			
	b) Bio-Dispersant			
	c) Mineral- Dispersant			
	d) Antiscalant			
	e) Antifoulant			
	f) Non-oxidising biocide - 1			
	g) Non-oxidising biocide – 2 (shall be glutaraldehyde 45%)			
	h) Chemical required for generating ClO_2 using chlorinated water			
	Contingency Chemicals			(Basis of Addition)
	(a) Hydrocarbon ingress			
	(b) Chlorination failure			
	(c) pH fluctuation			
	(d) Lube Oil / grease ingress			
	(e) High iron content			
	(f) High Turbidity in Make up			
	(g) High Chloride in Make up			

THE BASIS OF CALCULATION SHALL BE BASED ONLY ON TOTAL BLEED-OFF: 22 M³/HR.
AND HOLD UP VOLUME OF 3750 M³.

Signature of vendor:

Date:

QUANTITY OF CHEMICALS TO BE SUBMITTED ALONG WITH TECHNICAL BID

Sl. No.	Description	Name of Chemical	Recommended Dosage (PPM)	Daily consumption	Monthly consumption	Yearly consumption
	Regular Chemicals					
	a) Corrosion Inhibitor					
	b) Bio-Dispersant					
	c) Mineral-Dispersant					
	d) Antiscalant					
	e) Antifoulant					
	f) Non-oxidising biocide - 1					
	g) Non-oxidising biocide – 2 shall be glutaraldehyde 45%					
	h) Chemical required for generating ClO_2 using chlorinated water					
	i) Caustic Soda (Will be supplied by HOCL)					
	j) Chlorine (Will be supplied by HOCL) – Chlorinated water for use in ClO_2 generator		Reqd. Flow (Kg/Hr)	No. of Hrs Reqd.		

(Vendor shall specify the dosages of caustic soda and chlorine (for use in ClO_2 generator) which shall also be a parameter for evaluation of the offer.)

Signature of vendor:

Date:

PART B - BOILER WATER TREATMENT CHEMICALS

ANNEXURE -I

SCOPE OF THE WORK

The work involves detailed study of the boiler water system and supply of conventional boiler water treatment chemicals and treatment of Boiler water in our plant at Ambalamugal. Presently we are using the water treatment chemicals supplied by M/s. Anco India Chemicals (P) Ltd.. Please note that in case of a changeover of the chemicals to a new one, we'll not be able to stop the Boiler and the required water treatment has to be done in continuation to the existing ones. The details of our Boiler is given in ANNEXURE IV enclosed herewith.

The vendor shall specify the parameters to be controlled in the Boiler system.

- a) In the event of placing order, the vendor shall ensure adherence to these parameters during the contract period. The dosage of the chemicals offered/ recommended shall be strictly adhered to. The chemicals supplied shall be accompanied with test certificates. The containers of chemicals to be properly identified with item description, quantity, date of manufacture, date of expiry, Batch number etc.
- b) Any higher requirements of chemicals to maintain the boiler water parameters in control as compared to the originally recommended dosage of the chemicals shall be to the vendor's account.
- c) A performance bank guarantee has to be furnished for maintaining the Boiler water parameters in control using the recommended dosage of the chemicals. (Refer clause no: 8 of GENERAL TERMS & CONDITIONS in Annexure.)
- d) Service personnel as required are to be posted by the vendor in site to stabilize the boiler water treatment programme and to monitor it daily and maintain the parameters.
- e) Regular analysis of boiler feed water, boiler water, DM water and Condensate will be done by HOCL. (The standard water parameters analyzed by HOCL are given in Annexure V).
- f) Reports have to be submitted to the Engineer in charge indicating the treatment parameters, chemical stock position at site, deviations if any and corrective / preventive action to be taken (See Annexure II).
- g) The details that are to be indicated in Technical Bid are given in a consolidated format as Annexure – II & III. These formats have to be filled up and signed by the vendor and enclosed along with the Technical Bid.
- h) The chemical requirements are to be given by the vendor in the format given in ANNEXURE VII. This is to be enclosed in the Technical Bid.

Interested vendors can visit our site on any working day to collect any further details required prior to submitting the bids.

PART B - BOILER WATER TREATMENT CHEMICALS

ANNEXURE II

DETAILS THAT ARE TO BE INDICATED IN PART I – TECHNICAL BID

- a. System details and water analysis after your study.
- b. Chemical treatment programme.
- c. Chemical Consumption / recommended dosage per day.
- d. Boiler water Control Parameters
- e. Technical services offered. (Such as training, optimization of dosage, expertise in monitoring and control.)
- f. Qualifying Requirements as listed below
- g. Technical data sheet and Material safety data sheet of offered chemicals.
- h. Chemical supplied to be accompanied with Test Certificate & all containers of chemicals to be properly identified with item description, quantity, date of manufacture, date of expiry, batch No. etc.
- i. A training on general water treatment to be arranged by you.
- j. Monthly monitoring of reports to be submitted to Engineer-in-charge
- k. Weekly monitoring of system to be done by you.
- l. Priced Bid Format PART C (ANNEXURE V)

G. SpecialInstructions

Following details shall be clearly mentioned in the Technical Bid.

1. The procedure for change over from the present treatment system to your system without stoppage of BOILERS.
2. The type of chemicals indented to be used for the following and its dosage to be given in Technical Bid.
 - Antiscalant, Corrosion inhibitor & sludge Conditioner
 - Oxygen Scavenger
 - Condensate line protection
 - Feed Water PH Booster (volatile)
3. Copy of MSDS of all chemicals offered. All the chemicals shall be biodegradable and non hazardous. The function of each chemical, specification, shelf life and safe handling procedure to be given in MSDS of each product/chemical.
4. Services to be provided by the vendor till such time the ordered quantity of chemicals are fully used or 2 years whichever is more. Charges for the services to be included in the prices of chemicals. No additional charges will be given by HOCL.
 - a. Your service representative shall be available on daily basis to monitor the programme (for corrective, preventive actions & routine analysis).
 - b. Your expert technical personnel shall be made available within 24 hrs, as and when required.
 - c. The details of complete laboratory test kits including all testing reagents and all glass wares for daily monitoring of all control parameters of Feed Water, Boiler Water and Condensate Water etc. shall be detailed in your technical bid. **Colloidal Silica in feed water shall be analysed twice in a month.**
 - d. All control parameters of circulating and make up water to be analysed by you at site on daily basis to control the parameters and to optimise the chemical consumption and for trouble shooting. The procedure/ method for analysis of above parameters are to be given to us.
 - e. Reports to be submitted
 - Daily monitoring shall include, monitoring of all the control parameters of boiler water and condensate. Control measures to be adopted and quantity of chemicals to be added.
 - Weekly reports shall contain the average of control parameters, chemical stock position (stock at site & at Stores), deviation if any, corrective/preventive actions made, suggestion if any.
 - Monthly reports shall contain trends of all control parameters, measurement of COC (cycles of concentration), calculation / details, actual consumption vs. projected consumption, chemical stock, analysis, deviation, corrective / preventive actions and improvements including cause analysis of deviations in any of the parameters & reporting of key performance indicators.
 - f. A training on general water treatment and subjects specific to this programme shall be arranged.

PART B - BOILER WATER TREATMENT CHEMICALS

ANNEXURE IV

SPECIFICATION OF BOILERS

No.ofBoilers	: 3 Boilers (2 main Boilers of which one is standby + 1 Package Boiler
Type	: BI drum, natural circulation, oilfired, Water TubeBoilers
Capacity	: 24.25T/Hr
Pressure	: 20Kg/cm ²
SteamQuality	: Drysaturated
Makeup	: De-mineralized water and condensate.

PART B - BOILER WATER TREATMENT

Annexure – V

I. STANDARD BOILER WATER PARAMETERS ANALYSED BYHOCL

Boiler Drum Water	Boiler Feed Water	DM Water	Condensate
p ^H	p ^H	p ^H (5 -6.8)	p ^H
Conductivity (Mhos)	Conductivity (Mhos)	Conductivity (0.7 - 1.57) (Mhos)	Conductivity (Mhos)
Total Phosphate as PO ₄ PPM	-	-	-
Iron as Fe PPM	Iron as Fe PPM	Iron (0.02) PPM	Iron as Fe PPM
Silica as SiO ₂ PPM	Silica as SiO ₂ PPM	Silica (0.21) as SiO ₂ PPM	-
Hydrazine N ₂ H ₄ PPM	Hydrazine as N ₂ H ₄ PPM	-	-
P Alkalinity as CaCO ₃ PPM	-	-	-
M Alkalinity as CaCO ₃ PPM	-	-	-
TDS PPM	-		
TH as CaCO ₃ PPM	TH as CaCO ₃ PPM	-	-

* Regular analysis of boiler feed water, boiler water, DM water and condensate will also be done by HOCL. (As given above) in addition to youranalysis.

* Condensate utilisation 40% (only in case of MainBoilers)

* Average Steam generator - 13MT/hr

* Average Feed Water Consumption - 15MT/hr

II. PARAMETER TO BE MAINTAINED BY THEVENDOR			
1. Feed Water - P ^H -	8.5 - 9.5	5. Condensate - P ^H	8.0 - 9.0
2. Boiler Drum Water - P ^H	10.0 - 11.0	(Other Control Parameter is to be given by thevendor based on their study of the system and feed waterdetails)	
3. Boiler Drum Water - PO ₄	25.0 - 40.0		
4. Boiler Drum Water - Hydra-zine	0.1 - 1.0		

CHECK LIST FOR BOILER WATER TREATMENT ANNEXURE VI

QUALIFYING REQUIREMENTS TO BE SUBMITTED ALONG WITH TECHNICAL BID

Page 1 of 7

Sl. No.	Description	Submitted by Vender	Deviation if Any
Relevant documents / purchase order copies to be provided for all Qualifying requirements listed below:			
1.	Start up experience in a large chemical / petrochemical plant of BOILERS of minimum similar capacity. A minimum of two references are required		
2.	Vendor should have full fledged manufacturing and R&D set up on India and service support facility at Kochi and carryout servicing directly by the company.		
3.	There should be at least one order for Boiler water treatment with a minimum value of Rs. 2 Lakhs, in the last three financial years.		
4.	Annual turnover details for the supply of water treatment chemicals for the last three financial years		
5.	ISO certified company (preferred)		
6.	Concurrent commitments of the vendor		
7.	Technical data sheet, write up and material safety and data sheet of the offered chemicals.		

Page 1 of 7

Signature of vendor:

Date:

DETAILS THAT ARE TO BE INCLUDED IN THE IN TECHNICAL BID

Page 2 of 7

Sl. No.	Description	Offer from Vender	Deviation if Any
1.	System details and water analysis after the vendor's study and control parameters to be specified.		
2.	Chemical treatment programme details		
3.	Chemical consumption, daily, monthly and yearly. The recommended dosage in PPM to be given separately for each chemical including calculation details.		
4.	The procedure for change over from the present treatment system to new system.		
5.	The containers of chemicals to be properly identified with item description, quantity, date of manufacture, date of expiry, batch No. etc.		

Page 2 of 7

Signature of vendor:

Date:

DETAILS THAT ARE TO BE INCLUDED IN THE IN TECHNICAL BID

Page 3 of 7

6.	All Control Parameters of FEED WATER, BOILER WATER and CONDENSATE shall be specified. The parameters to be controlled in the system have to be specifically mentioned in the offer and should be adhered during the treatment programme. Colloidal Silica in feed water shall be analysed twice in a month.		
7.	Higher requirements of chemicals to maintain the control parameters shall be to the vendor's account		
8.	Performance bank guarantee for maintaining the Boiler water control parameters using the recommended dosage of the chemical shall be furnished by the vendor.		
9.	The treatment shall have the following 1. Antiscalant, Corrosion inhibitor & sludge Conditioner 2. Oxygen Scavenger 3. Condensate line protection 4. Feed Water PH Booster (Volatile)		

Page 3 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 4 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
1.	All services and technical assistance shall be Provided by the Vendor till such time the ordered quantity of chemicals is fully used/consumed or 2 years whichever is more.		
2.	c) Service personnel have shall be posted at site to stabilize the treatment programme		
	d) Your service representative shall visit the boilers on daily basis to monitor the programme (for corrective, preventive actions & routine analysis) and recommendation dosage.		
3.	Your expert technical personnel from head quarters shall be made available within 24 hrs. as and when required.		
4.	You shall supply all the kits / aids for daily monitoring, controlling and reporting the treatment programme and for monitoring of all control parameters of make up and circulating cooling water.		
6.	All control parameters of Feed Water, Boiler Water and Condensate water shall be analysed by the vendor at site on daily basis to control the parameters and to optimise the chemical consumption and for troubleshooting.		

Page 4 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 5 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
7.	The procedure / method for analysis of above parameter shall be given.		
8.	Daily monitoring shall include, monitoring of all the control parameters of Feed Water, Boiler Water and Condensate water and the necessary control measures to be adopted and quantity of chemicals to be added.		
9.	There shall be no deviation in the consumption of chemicals recommended for the treatment to maintain the specified parameters; especially the consumption should not go high with respect to recommended dosage. The chemicals actually consumed in excess of the quantity specified in your offer shall be borne by the vendor.		
10.	Training (class room lecture) on general water treatment and subjects specific to this programme is to be arranged at site.		

Page 5 of 7

Signature of vendor:

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 6 of 7

Sl. No.	Description	Agreement by Vender	Deviation if Any
11.	All the parameters to be controlled in the system should be adhered during the treatment programme. The dosage of the chemicals offered / recommended should be strictly adhered, to maintain the required parameters.		
12.	Following Reports shall be submitted		
	c) Weekly reports shall contain the average, maximum, minimum of all control parameters, consumption of chemicals, stock position (stock at site & at Stores), deviation if any, corrective / preventive actions made, suggestion if any.		
	d) Monthly reports shall contain trends of all control parameters (Tabular form and graphical), including but not limited to measurement of COC (cycles of concentration), Calcium and Magnesium hardness, Silica, Colloidal Silica in feed water (fortnightly), corrosion evaluation, study, calculation / details, actual consumption vs. projected consumption, chemical stock, analysis, deviation, corrective / preventive actions and improvements including identification & reporting of key performance indicators.		

Signature of vendor:

Page 6 of 7

Date:

REQUIREMENTS TO BE AGREED BY VENDOR IN TECHNICAL BID

Page 7 of 7

THE FOLLOWING PARAMETERS SHALL BE MAINTAINED			
1. Feed Water - PH -	8.5 - 9.5	5. Condensate - PH	8.0 - 9.0
2. Boiler Drum Water - PH	10.0 - 11.0	(Other Control Parameter shall be given by the vendor based on their study of the system and feed water details)	
3. Boiler Drum Water - PO ₄	25.0 - 40.0		
4. Boiler Drum Water - Hydrazine	0.1 - 1.0		

Page 7 of 7

Signature of vendor:

Date:

ANNEXURE VII

QUANTITY OF CHEMICALS TO BE SUBMITTED ALONG WITH TECHNICAL BID

Chemical Requirement Boiler Water Treatment							
SL.NO	Purpose	Basis of Calculation	Product Name	Dosage	Qty/day	Qty/Month	Qty/year
1	Antiscalant, Corrosion inhibitor & sludge Conditioner	Feed water Consumption 15 Mt/hr.					
2	Oxygen Scavenger	Feed water Consumption 15 Mt/hr.					
3	Condensate line protection	Steam generation 13 Mt/hr					
4	Feed Water PH Booster(Volatile)	Feed water Consumption 15 Mt/hr.					
1. Antiscalant& Corrosion inhibitor sludge conditioner (To be Calculated based on feed water consumption)							
2.OxygenScavenger (To be Calculated based on feed waterconsumption)							
3. Condensatelineprotects (To be Calculated based on steamgeneration)							
4. Feed Water P ^H booster (Volatile). (To be Calculated based of Feed water Consumption)							

Signature of vendor:

Date:

PART C ANNEXURE-I

GENERAL INSTRUCTIONS TO BIDDERS FOR E BID SUBMISSION

Please submit your e-bids under the two bid system conforming to the specifications and the terms and conditions attached as per instructions given below:-

1. HOCL has entered into an Agreement with NIC for e procurement through their portal www.eprocure.gov.in. Quotations shall be submitted online on or before the due date and time of closing the tender. The Techno commercial bid containing the Technical specification of the Products and Proof of satisfactorily meeting the Qualifying requirements and all commercial terms should be uploaded as per instructions given in Annexure I A. EMD should be submitted by bank transfer as per details given in clause no 3 Annexure IV. EMD may also be submitted by way of Bank Guarantee from any scheduled banks. The Price bid should be submitted in price bid format (BOQ) given.
2. Techno commercial bid shall be opened electronically on specified date and time given in NIT. Bidders can witness the electronic opening of bid. The date and time of opening of the price bids will be intimated to the Technically qualified bidders after evaluation of the Technical bids via email alert through the valid email confirmed.
3. The bid shall contain as integral part of the same the following compliance statement: "We have read, understood and accepted the terms and conditions of purchase and related documents forming part of this enquiry and agree to supply the goods in compliance with the same."
4. The bids shall be neatly typed in English language with pages consecutively numbered and shall be signed on all pages by authorized persons. Bids shall be free from over writing and all corrections shall be duly attested by the bidder.
5. Bidders should carefully study the documents of this enquiry. All terms and conditions set out there in the enquiry shall be binding on the bidders unless conflicting with any terms and conditions expressly stated by HOCL while accepting any bid, in the event of such acceptance.
6. HOCL reserves the right, without assigning any reason whatsoever, to accept or reject any or all bids in part or in full or cancel this enquiry.
7. HOCL reserves the right to extend without giving any reason(s) the closing date/time of the enquiry.
8. Bids shall be valid for a minimum of 90 days from the due date for receipt and opening of the bids.
9. Purchase Preference to Central Public Sector Enterprises of Govt Of India and MSMEs shall be as per Govt. of India policy in vogue.

Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids on-line on the CPP Portal.

Information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: *My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.*

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

.....

ELIGIBILITY CRITERIA FOR PARTICIPATING IN THE BID

1. Start up experience in a large chemical/petrochemical plant including pre-cleaning, passivation etc. A minimum two references are required each for both cooling water treatment and boiler watertreatment.
 2. Experience in treating low hardness and low alkalinity water (cooling water treatment). Vendor should have full-fledged manufacturing and R & D set up.
 3. Vendor must also have service support facility at Cochin to carry out servicing directly by the Company.
 4. Vendor must have executed orders of value of 34 lakhs for cooling water treatment works and 12 lakhs for boiler water treatment work in the last three years.
 5. Vendor must have executed at least one single order of value of 8 lakhs for cooling water treatment work and 4 lakh for boiler treatment work in the last three years.
 6. Vendor shall submit a solvency certificate of a scheduled bank worth minimum 6 lakhs.
 7. Concurrent commitments of the vendor
- Relevant documents/purchase order copies are to be submitted to substantiate the above qualifying requirements. Please note that technical evaluation shall be done on the basis of criteria fixed by HOC and HOC reserves the right to accept or reject any or all bids without assigning any reasons whatsoever. Vendor should sign and upload the required documents given in PART A and PART B
 - Vendors who are already registered with HOCL for the supply of water treatment are not required to furnish credentials against point no 4,5&6

ANNEXURE-III

GENERAL CONDITIONS OF TENDER MAT/PUR/32516/19 dated 23.08.2019 due
on 29.08.2019

Page 1 of 2

1. VALIDITY OF OFFER : Offer shall be valid for a minimum period of 90 days from the last date of submission stipulated for the tender. The bidder shall not be entitled during the contract period, to revise the rate or withdraw from the contract or vary any of the tender conditions without the consent of HOCL in writing.
2. SUBMISSION OF BIDS: Bids shall be uploaded as per the instructions given in Annexure I & IA.
3. EARNEST MONEY DEPOSIT (EMD) : A refundable EMD of Rs.12000/- to be submitted along with the technical bid. EMD may be submitted in the form of Bank transfer through our banker M/s State Bank Of India, Ambalamedu Branch, A/c No:10342163665; IFS Code: SBIN0001108. Details of bank transfer should be indicated in your technical offer. EMD may also be submitted by way of Bank Guarantee from any scheduled banks. EMD of the successful tender may be adjusted against the security Deposit payable. EMD of unsuccessful bidder will be returned after finalization of the tender. EMD of a tenderer shall be forfeited if he withdraws or amends his tender or impairs or derogates from the tender in any respect within the validity period of the tender.

PSUs and Vendors registered with MSME need not submit EMD, but have to submit valid documentary proof like NSIC/UAM certificate etc along with the Techno-commercial bid.

4. Security Deposit: Successful bidder will have to pay a Security deposit of 5% of the order value towards satisfactory performance of the contract. SD has to be submitted by way of Bank Guarantee from a Scheduled bank within 21 days of placement of Order. SD will be forfeited in the event of any breach of contract by the supplier. SD will be refunded to the contractor within 60 days of completion of contract. PSU's are exempted from payment of Security Deposit. Also MSME Vendors registered with NSIC are exempted from SD up to the monetary limit mentioned in the certificate. This guarantee should be valid for 6 months beyond the expiry of the contract period and should be submitted within 15 days of placing the purchase order.
5. RIGHT TO REJECT A BID: HOCL reserves the right to reject any bid due to reasons such as
a) Vendor not following above bidding procedures (b) Vendor not being technically acceptable to HOCL
(c) Not enclosing EMD with the techno commercial bid or EMD paid being lesser than the stipulated amount (d) Vendor not agreeing with the general conditions of the tender. (e) Not enclosing any particular documents asked for (f) Any other valid reason
6. PRICE : The price quoted shall be for delivery at our factory at Ambalamugal, Ernakulam District, Kerala state. The price shall be quoted in detail as per statement given in Annexure V. The price quoted by the vendor shall remain firm during the period of contract.
7. BOQ : Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
8. PAYMENT TERMS : Payment shall be released by HOCL within 30 days of receipt and acceptance of the material at HOCL site.

9. INSURANCE : HOCL shall arrange the transit insurance for the materials.. However, the vendor shall promptly inform HOCL regarding despatches for arranging insurance. The transporter engaged should have necessary public liability insurance coverage.
10. OPENING OF BIDS : Techno commercial bids will be opened electronically at 2.00 pm on 30.08.2019. HOCL, after evaluation of the techno commercial bids, will subsequently inform all those technically acceptable vendors regarding the date and time of opening of the price bids.
11. DISPUTES : : In the event of a contract being executed, all cases of disputes between seller and buyer shall be settled through arbitration as per Indian arbitration and Conciliation act 1996 or any amendments from time to time. The decision of the arbitration shall be final and binding on both the parties.
12. PURCHASE/PRICE PREFERENCE: Purchase/Price Preference or any other concessions applicable for SSI Units /PSUs will be as per latest Government Of India Directives. For availing this benefit, the bidder should make their claim in the Technical Bids itself and enclose necessary documentary evidence to prove their eligibility.
13. PERIOD OF CONTRACT The contract for supply of chemicals shall be for a period of 2 years. No guarantee can be given about the exact quantity of chemicals that will be lifted from you. The chemical treatment programme will have to be started as soon as the tender is finalised and the supply of chemicals will have to be effected as soon as the letter of intent is placed. The vendor shall carry sufficient inventory of chemicals at Cochin to meet the demands in time. Though the contract is for a period of 2 years. The work order will be initially awarded for a period of 1 year. The performance will be reviewed after one year and if found satisfactory the contract will be renewed for next year.
14. DELIVERY: The delivery schedule shall be given by HOCL and you shall be responsible for arranging supplies as per the schedule. In case the supplier fails to deliver the consignment within the period prescribed, HOCL shall be entitled to recover from supplier's pending bills against the order or from any other bills a penalty of ½% of the price of the goods in arrears per week at discretion of the HOC subject to maximum of 5%. Technical Assistance shall be offered till such time the ordered quantity of chemicals is fully used (consumed) or 2 years whichever is more.

At present the treatment programme is indented for a period of 2 years. Since we want to start the chemical treatment programme immediately on finalization of tender, the supply of chemical should be effected immediately on placement of the Letter of Intent and hence the chemicals should be available ex-stock preferably at Cochin. Therefore, the tenderer should indicate their best firm delivery time in the offer. Also, the prices should be firm for the above said period. Vendor has to take utmost care that there is no stock out situation. Stock out situation will be viewed very seriously.

15. TERMINATION OF ORDER: The order is subject to termination if the chemicals fail in giving the desired performance parameters agreed upon or if you fail to supply items as per delivery schedule agreed. In such case the performance guarantee will be invoked and HOCL shall make alternate arrangements to carry out the work at the risk and cost of failed supplier.

TECHNICAL BID FORMAT

(Techno commercial Bid should contain the following details which must be uploaded in the NIC website in pdf format)

- 1.Commercial Terms as per format given in tender term (ANNEXURE-VI PART C)
- 2.Required EMD bank transfer details.
- 3.Detailed Technical specification of the Chemical offered as per PART A and PARTB
4. Proof of satisfactorily meeting all the Eligibility criteria Conditions given in Annexure-II
- 5.Signed copy of the terms and conditions of the enquiry as given in Annexure-III
6. Un priced price bid format

COOLING WATER & BOILER WATER TREATMENT
ANNEXURE – V
PRICE BID FORMAT- AGAINST TENDER NO.MAT/PUR/32516/19

- a) Quantity (total quantity required for 12 months :
to be mentioned in respective coloumn inBOQ)
- b)Basic Cost of chemical per Kg
(for Caustic & Chlorine only quantity to be specified in BOQ) :
- b) P & F Charges (%) :
- c) Freight (%) :
- d) GST (%) :

(SUPPLY RATE TO BE INCLUSIVE OF SERVICE CHARGES ALSO)

The quantity recommended by technical department will be considered for price evaluation which will be done manually. Contingency chemical's rate to be mentioned in the respective column in BOQ . However the same will not be considered for financial evaluation.

-Annexure VI

Commercial Terms Format

(Please fill up the details mentioned below in your letter head and upload alongwith your bid)

Name and Address of Organization :

Phone & Fax No :

GSTIN :

e-mail id for correspondence :

Contact Person Name and Mobile No:

MSME registration status of bidder: Registered/Non Registered.

EMD Transfer Details :

(If you are an MSME vendor, Pl. upload documentary evidence for same. If proof is not uploaded along-with bid the same may not be considered)

Payment Term offered.

Terms of delivery offered :

Validity of offer :

Taxes Applicable :

Signature and Stamp