



(This tender aims for already enlisted contractors for this work with HOCL Kochi Unit. Any new contractor who wish to empanel for this type of work may submit their credentials so that they will be evaluated and pre-qualified and shall be considered for similar future work).

HINDUSTAN ORGANIC CHEMICALS LIMITED
(A Government of India Enterprise)
AMBALAMUGAL, Ernakulam District, PIN – 682 032.
Phone: (0484) 2720911, FAX No. (0484) 2720893

E- TENDER NOTICE

HOCL Invites e-Bids under the **Single Bid** system for the following work:

Sl. No.	Description of Item and Tender No.
1	MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT HOCL Tender Ref : MEC30307

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

Interested parties 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.

Please submit your E-bids under the **Single Bid system** confirming to the specifications and the terms and conditions.

For and on behalf of Hindustan Organic Chemicals Limited
(GSTN:32AAACH2663P1ZG),(CIN:I99999MN1960GOI011895)

बेनोपी कुरियन्स BENO.P.KURIANS
उप महाप्रबंधक (यांत्रिक/प्रोजेक्ट्स/सी एल आर पी) DGM (MECH/PROJ./CLRP)



HINDUSTAN ORGANIC CHEMICALS LIMITED
(A Government of India Enterprise)
AMBALAMUGAL, Ernakulam District, PIN – 682 032.
Phone: (0484) 2720911, FAX No. (0484) 2720893

MEC30307

M/s.

Dear Sir,

Hindustan Organic Chemicals Limited is a Government of India Undertaking manufacturing Phenol, Acetone & Hydrogen Peroxide at its plant at Kochi, Kerala, India. HOCL invites e-tenders for **MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT**. HOCL has entered into an agreement with M/s. NIC for e-procurement through their portal <https://eprocure.gov.in/eprocure/app>. You may please get registered as a vendor with NIC for participating in this tender.

Tender documents are uploaded in HOCL website www.hoclkochi.com, <https://mkp.gem.gov.in/market> & <https://eprocure.gov.in/eprocure/app>

Index of documents enclosed is attached herewith. You are requested to kindly go through all the documents in detail before preparing/submitted your tender.

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

Thanking you,

Yours Faithfully,

For Hindustan Organic Chemicals Limited (CIN: L99999MH1960GOIO11895),

बेनोपी कुरियन्स BENO.P.KURIANS

उप महाप्रबंधक (यांत्रिक/प्रोजेक्ट्स/सी एल आर पी) DGM (MECH/PROJ./CLRP)



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This Document to be Signed and Stamped by Bidder on All Pages and Submitted along with the E-Tender

ANNEXURE-I

HINDUSTAN ORGANIC CHEMICALS LIMITED
(A Government of India Enterprise)
Ambalamugal P.O., Ernakulam District, Kerala – 682 302.

Tender Ref. No: MEC30307

NAME OF WORK: MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT

General instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement Portal (Govt. Of India), 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 online on the CPP Portal.

More 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 enrol 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 Enrolment**” 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 BID

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.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. 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.
10. 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.

Contact Person (National Informatics Centre)

Mr. Midhun Babu
Sr. Systems Analyst - HOCL
Mob: 8921387812, 8547196394

HOCL Work Co-ordinator

Mr. M.K. Girijan
Deputy General Manager (Mechanical)
Mob: 8547624778



Tender Ref. No: **MEC30307**

NAME OF WORK: MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT

GENERAL TERMS AND CONDITIONS OF THE TENDER

EARNEST MONEY DEPOSIT

Quotation shall accompany an EMD of ₹5,000/- shall be paid by crossed DD/Bankers Cheque/thro' NEFT.

Bank Details - Central Bank of India, Tripunithura
- A/c No. 3580607136
- IFSC - CBIN0284515

Details of bank transfer should be indicated in your technical offer. Quotations not accompanied with EMD, are liable to be rejected.

EMD of the tenderer will be forfeited under the following conditions:-

1. If after opening of the tender, the tenderer revokes his tender or increase his quoted rates.
2. If the tenderer does not commence the work after awarding the contract.
3. No interest on EMD will be paid.
4. EMD of the successful tenderer will be adjusted against the security deposit.
5. EMD of unsuccessful bidders shall be refunded after finalization of the contract and no interest shall be payable.
6. The tender is revoked or varied during its validity period.
7. The Prices are increased unilaterally after the tender opening and during its validity.
8. The tenderer after intimation of acceptance of the tender fails to execute the agreement/or furnish security deposit within the stipulated time.

COST OF TENDER DOCUMENTS - Nil

RATES

Rates quoted shall be inclusive of all taxes, duties, octroi and other levies etc. GST, in case applicable shall be paid extra. The bidder should have GST registration with Central Excise Department.

SECURITY DEPOSIT

- Total security deposit shall be 3% of total contract value.
- 1% of order value of contract referred as Initial Security Deposit shall be furnished within 21 days after notification of the award of work.
- Balance 2% shall be recovered through deductions at the rate of 3% of the value of each running account bill till the total 3% security deposit amount is collected.



LIQUIDATED DAMAGES

If the work is not completed within the stipulated time, the contractor is liable to pay a LD of ½% of the total contract value **per day** of the delay or part there of subject to a maximum of 5% of the contract value.

PERIOD OF CONTRACT

The period of the contract shall be **2 years** from the date of issue of work order/issue of instruction to start the work.

SCOPE OF SUPPLY

MATERIALS

a. HOCL's Scope

- HOCL shall issue hoses, gaskets, fasteners, pressure gauges, tube plugs, air, water, electricity at one point free of cost to the contractor.
- HOCL shall provide only the gasket sheets (CAF) (free of cost) to the contractor. The contractor has to make arrangements to cut the gaskets to the required size.
- Fasteners (if required) for the final box up work shall be issued by HOCL at free of cost.

b. Contractor's Scope

- All skilled & Unskilled manpower require for the work is to be arranged by the contractor. All machines, tools, tackles, lifting equipments such as crane, chain pulleys, slings, D shackles, Hydraulic test pumps and other tools and equipments required for the completion of the work is to be arranged by the contractor.
- **CRANE / DERRICK required for the successful completion of the entire work shall be arranged by the contractors at his own cost.** HOCL shall permit the contractor to hire the HOCL's mobile crane/Forklift on chargeable basis, if it is available and the rate shall be ₹1000/hr. + GST for mobile crane of capacity 18T and ₹600/hr. + GST for Forklift of 3T Capacity.
- **Scaffolding material (pipe, clamps and base plates) and its erection if required should be arranged by the contractor.**

TOOLS AND TACKLES

a. Contractor's Scope

- All machines, tools, tackles, lifting equipments such as crane, chain pulleys, slings, D-shackles, hydraulic test pumps and other tools and equipments required for the satisfactory completion of the work shall be arranged by the contractor.
- **CRANE / DERRICK required for the successful completion of the entire work shall be arranged by the contractors at his own cost.** HOCL shall permit the contractor to hire the HOCL's mobile crane/Forklift on chargeable basis, if it is available and the rate shall be ₹1000/hr. + GST for mobile crane of capacity 18T and ₹600/hr. + GST for Forklift of 3T Capacity.
- NON-AVAILABILITY OF HOCL CRANE SHALL IN NO WAY RELIEVE THE VENDOR OF HIS RESPONSIBILITY IN MEETING ALL THE PROVISIONS OF THE ENQUIRY CONDITIONS).

b. HOCL's Scope

Calibrated pressure gauges for hydrotest shall be given by HOCL which shall be returned back without any damage.



WATER & POWER

HOC will provide water and power at one point free of cost.

GENERAL SITE CLEANING

Working site should always be kept cleaned up to the entire satisfaction of the Engineer/Officer-In-Charge. Upon completion of the work, all materials shall be transported to designated locations in HOCL premises as directed by the Engineer/Officer-In-Charge on daily basis. Material reconciliation has to be carried out before submitting the bill.

TIME OF COMPLETION

Time of Completion for each work shall be **1 to 4 days** from the date of clearance to start the job depending upon the size and urgency of job. Deviations will be permitted as per the work permits issued by HOCL. Works shall commence within 24 hrs. from the time of intimation.

VALIDITY OF THE TENDER

The tender shall be kept valid for acceptance for a period of **THREE months** from the last date prescribed for receipt of the tender.

A Tenderer shall not be entitled during the said period of three months without the consent in writing of the company to revoke or cancel his tender or to vary the tendered rate or any terms thereof.

PRICE

The Contract will be awarded on fixed all-inclusive price unless otherwise specified. All rates in the tender shall cover applicable taxes, levies and duties. However applicable GST will be paid by HOCL subject to the successful tenderer having GST registration with Central Excise.

The price shall be quoted both in figures and words. In case a tenderer has quoted two different prices in words and figures the lower of the two will be considered valid and binding on the tenderer.

PAYMENT TERMS

- 97% payment will be released after completion of work and certification by Engineer-in-Charge.
- Balance 3% payment will be made after defect liability period of one year or on production of PBG for the said amount.

CONTRACT PREFERENCE

Contract / Price Preference or any other concessions applicable for **MSME / SSI Units /PSUs** will be as per latest Government of India Directives. For availing this benefit, the bidder shall make their claim in the Bid itself and enclose necessary documentary evidence to prove their eligibility.



DEFECT LIABILITY PERIOD

Contractor shall guarantee the work for a period of 12 months from the date of issue of completion certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of completion certificate, connected in any way with the workmanship should be rectified by the contractor at his own expense as deemed necessary by the Engineer-in-Charge.

OTHER TERMS AND CONDITIONS

GENERAL CONDITIONS OF CONTRACT (GCC) OF HOCL

The General Conditions of Contract of the company is applicable to, and forms part of the contract. The General Conditions of Contract of HOCL is available in the office of The Chief General Manager (P&A) of HOCL, Ambalamugal or can be downloaded from our Web site www.hoclkochi.com.

RIGHT TO ISSUE ADDENDUM

The company reserves the right to issue any addendum to the tender document to clarify/amend/supplement and/ or delete any of the conditions, clauses or terms stated in the tender documents. Each addendum issued shall be distributed to the tenderer or his authorized representative and each such addendum shall become part of the tender documents.

DUE DATE & TIME: Due date for submission of tender is (Closing date) **04/03/2022 at 02.00 PM.**

OPENING OF BIDS: The Bids will be opened on **05/03/2022 at 02.00 PM** electronically. Technically acceptable bidders will be informed about the date and time of opening of the price bids by emails.

VALIDITY OF OFFER: Offer shall be valid for a minimum period of 90 days from the last date of submission stipulated for the tender.

SUBMISSION OF BIDS: Refer Annexure I.

PRICE BID SUBMISSION-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 blue coloured (unprotected) cells with their respective financial quotes and other details** Refer Instructions to Bidder for Online Bid Submission. **(such as name of the bidder).** No other cells 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.

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 reasons.

SIGNING & STAMPING ON ALL PAGES OF BIDS: The vendor shall sign and stamp on all the pages of the bids uploaded, failing which bids are liable to be rejected.



Tender Ref. No: **MEC30307**

NAME OF WORK: **MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT**

SCOPE OF WORK

Scope of work includes but not limited to the following:

The scope of work includes maintenance of various Heat Exchangers on annual rate contract basis. The Period of Contract of the work will be 2 years from the date of issue of work order/ issue of instruction of start the work Therefore the rate quoted by the party shall be valid for the above period. The Exchangers will be released for maintenance as per the requirement/ shutdown. Party must be ready to do the work at any point of time during the period of contract. Minimum No. of exchangers released for cleaning can be one at a time depending on plant requirement. However, and the party has to mobilize the crew within 24 hrs. from the time of intimation / instruction of start of work.

The scope of work includes, but not confined to the following-

General

1. Once the equipment is ready for maintenance, isolation of equipment by putting blinds/spectacle blinds in feed and outlet nozzles and all other nozzles indicated for the purpose and fix blind number tags.
2. Provide necessary hose connections (if required) for draining, purging, steaming and water washing and airing of the equipment as the case may be as per the instruction of Engineer-in-Charge.
3. Record the blind tag Nos. in the blind register and obtain signature in the register by Engineer-in-Charge.
4. Removal and refixing including to and fro transportation to central workshop of Pressure safety valve on the equipment and connected pipe lines as per the instruction of the Engineer in Charge.
5. Maintenance of the exchanger as explained in Clause No. 1 (see next page)
6. Assisting the inspecting team engaged in the inspection of Heat Exchanger.
7. **CRANE / DERRICK required for the successful completion of the entire work shall be arranged by the contractors at his own cost.** HOCL shall permit the contractor to hire the HOCL's mobile crane/Forklift on chargeable basis, if it is available and the rate shall be ₹1000/hr. + GST for mobile crane of capacity 18T and ₹600/hr. + GST for Forklift of 3T Capacity.
8. **Scaffolding material (pipe, clamps and base plates) and its erection if required should be arranged by the contractor.**



I. Heat Exchanger Maintenance

Floating Head Exchanger

1. Once the equipment is ready for maintenance, isolation of equipment by putting blinds/spectacle blinds in feed and out let nozzles and all other nozzles indicated for the purpose and fix blind number tags.
2. Open and remove channel head cover
3. Open and remove channel head
4. Open and remove shell cover and floating head cover.
5. Pull out the tube bundle as per the instruction of Engineer-in-Charge.
6. Clean the tubes and shell, channel head cover, channel head shell, floating head, floating head cover and dish end cover using hydro blasting machine (Karcher Pump) available in HOCL and all flange serration were cleaned by scrappers / wire brushes. If further cleaning by hydro blasting with higher capacity machine is required for cleaning, the same will be arranged by HOCL at their cost.
7. Preparation for man entry if required ie. provide necessary hose connections for draining, and water washing of the equipment as the case may be.
8. Blinding shell side and tube side in the required sequence and stages suitable for hydrotest of tube side and shell side separately.
9. Assemble the tube bundle, channel head shell, channel head cover, floating head, floating head cover and dish end cover in required sequence and stages suitable for Hydrotest of tube side and shell side separately.
10. Hydrotest the exchanger on shell side and tube side and floating head gasket, dish end cover gasket.
11. Leaking tubes if any noticed during hydrotest should be plugged using CS/SS/Brass plugs as per the instruction of Engineer-in-charge. Required plugs will be supplied by HOC at free of cost. Repeat the hydrotest if any leak at shell side / tube side.
12. You shall get the hydrotest witnessed by Engineer – in-charge / 3rd party Inspector.
13. Test rings should be used for testing floating head type exchangers tube bundle. Test rings are available in main store yard / maintenance workshop, the same has to be identified, cleaned, transported to the heat exchanger. After testing, the test rigs are to be transported back to the original location.
14. Test pressure for hydrotesting should be as per the inspection of the Inspector/Engineer-in-charge.
15. Removal of isolations (ie. blind, spectacle blinds, blind tags etc.) for normalizing the Heat Exchanger.



16. Hot bolting of the flanges after putting the equipment in line if it is required. However, this activity will not be counted for the completion time for the work.
17. In case of cleaning of heat exchanger tubes by hydro blasting (by HOCL through other agencies), there will be a gap of 1 or 2 days (for cleaning) in between opening / boxing up of exchanger. However, time taken for this activity will not be counted for the completion of the work.
18. If any leak is observed after normalizing the equipment, the same has to be arrested by the contractor. However, this activity will not be counted for the completion time for the work.
19. Floating head testing is not applicable in case of straight tube heat exchanger

Clause No. X : 50% of the quoted rate only will be paid to the party if the tube bundle is not pulled out and brought to the ground (ie. only hydro testing of the tube side and shell side and plugging of the leaking tube is done in position)

'U' Tube Heat Exchanger

1. Once the equipment is ready for maintenance, isolation of equipment by putting blinds/spectacle blinds in feed and out let nozzles and all other nozzles indicated for the purpose and fix blind number tags.
2. Open and remove channel head cover
3. Open and remove channel head
4. Open and remove shell cover if available.
5. Pull out the tube bundle as per the instruction of Engineer-in-Charge.
6. Clean the tubes, channel head cover, channel head shell and end cover using hydro cleaning machine (Karcher Pump) available in HOCL and all flange serration by scrappers / wire brushes. If Hydroblasting is required for cleaning, the same will be arranged by HOCL at their cost.
7. Blinding shell side and tube side in the required sequence and stages suitable for hydrotest of tube side and shell side separately.
8. Assemble to tube bundle, channel head, channel head cover, shell cover (if available) etc., in the required sequence and stage. Leaking tubes if any noticed during hydrotest should be plugged using CS/SS/Brass plugs as per the instruction of Engineer-in-charge. Required plugs will be supplied by HOC at free of cost. Repeat the hydrotest if any leak at shell side / tube side.
9. You shall get the hydrotest witnessed by Engineer – in-charge / 3rd party Inspector.
10. Test pressure for hydro test should be as per the inspection of the Inspector/Engineer-in-charge.
11. Removal of isolations (ie. blind, spectacle blinds, blind tags etc.) for normalizing the Heat Exchanger.)
12. Test rings should be used for testing floating head type exchangers tube bundle.(Test rings are available in main store yard / maintenance workshop, the same has to be identified, cleaned, transported to the heat exchanger. After testing, the test rings are to be transported back to the original location).



13. Hot bolting of the flanges after putting the equipment in line if it is required. However, this activity will not be counted for the completion time for the work.
14. In case of cleaning of heat exchanger tubes by hydroblasting (by HOCL through other agencies), there will be a gap of 1 or 2 days (for cleaning) in between opening / boxing up of exchangers. However, this activity will not be counted for the completion of the work.
15. If any leak is observed after normalizing the equipment, the same has to be arrested by the contractor. However, this activity will not be counted for the completion time for the work.

Clause No. X : 50% of the quoted rate only will be paid to the party if the tube bundle is not pulled out and brought to the ground (ie. only hydro testing of the tube side and shell side and plugging of the leaking tube is done.)

Fixed Head Exchanger (101 E 002)

1. Once the equipment is ready for maintenance, isolation of equipment by putting blinds/spectacle blinds in feed and out let nozzles and all other nozzles indicated for the purpose and fix blind number tags.
2. Open and remove channel head cover.
3. Open and remove channel heads.
4. Open and remove shell cover.
5. Clean the tubes, channel head cover, channel head shell and end cover using hydro cleaning machine (Karcher Pump) available in HOCL and all flange serration by scrappers / wire brushes. If Hydroblasting is required for cleaning, the same will be arranged by HOCL at their cost.
6. Blinding shell side and tube side in the required sequence and stages suitable for hydrotest of tube side and shell side separately.
7. Hydrotest the exchanger for any tube leak. Leaking tubes if any noticed during hydrotest should be plugged using CS/SS/Brass plugs as per the instruction of Engineer-in-charge. Required plugs will be supplied by HOC at free of cost. Repeat the hydrotest for any leak.
8. Assemble the channel head and covers and do the hydrotest.
9. You shall get the hydrotest witnessed by Engineer – in-charge / 3rd party Inspector.
10. Test pressure should be as per the inspection of the Inspector/Engineer-in-charge.
11. Removal of isolations ie. blind, spectacle blinds, blind tags and normalizing the Heat Exchanger.
12. If any leak is observed after normalizing the equipment, the same has to be arrested by the contractor. However, this activity will not be counted for the completion time for the work.
13. In case of cleaning of heat exchanger tubes by hydroblasting (by HOCL through other agencies), there will be a gap of 1 or 2 days (for cleaning) in between opening / boxing up of exchangers. However, this activity will not be counted for the completion of the work.



ANNEXURE-IV

Tender Ref. No: **MEC30307**

NAME OF WORK: MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT

SPECIAL CONDITINOS OF CONTRACT

1. All manpower, tools, tackles, lifting tools, ropes, wire brushes, grinding machine, buffing machine, chain pulley block, wheel barrows etc. whatever required for the work are to be arranged by the contractor. A list of tools and tackles intended to be brought for the work by the contractor has to be kept along with the bid.
2. Safety Helmets, safety shoe, goggles, safety belts and other PPEs etc. for the workmen and supervisor employed for the work are to be arranged by the contractor.
3. No work to be carried out without wearing safety gadgets (PPE's), work order, confined space entry record and safety work permit by the employees of the contractor.
4. If the work is urgent, you have to deploy people on round the clock basis to complete the work on time as per the instruction of Engineer-in-Charge.
5. The entire work is to be carried out as per the standard engineering practice and subjected to stage inspection by HOCL.
6. All debris, waste etc. arising out of the job should be segregated weighed, transported and dumped into the scrap yard as per the instruction of Engineer-in-Charge at your cost. The contractor also has to abide by the guidelines for Environmental Protection.
7. HOC has every right to stop the work if the progress and quality of work is found unsatisfactory. The balance work will be carried out by HOC through another agency at the cost and risk of the first contractor.
8. Contractor has to mobilise the complete team with necessary tools and tackles **within 24 hours** from the time of intimation to start the work.
9. Either the contractor or his authorised supervisor should be available at work site throughout the work.
10. The quantity shown can vary i.e. Increase or decrease depending upon the situation. However, the rate and other terms and conditions are same throughout the pendency of the contract for which the contractor must be ready.
11. The Contractor should follow all clause in Annexure - A, B & C like ESI, Safety Regulations and General Conditions of Contract, Workmen Compensation, Personal Protective Equipments (PPE), Labour Laws, PF, Guidelines to contractors / suppliers for environmental protection & Confined Space Entry.
12. Contractor should get prior permission from the Engineer-in-Charge for bringing the material to HOC.
13. Contractor should ensure that a standby person is kept outside the man-way nozzle when the work is inside a confined space and maintain Confined space Entry Register.



14. As a measure to contain the spread of COVID-19, the following PPEs are essentially required to be provide to your workers:

1. Face Mask

2. Face Shield

3. Gloves

Also all your workers are to be subjected to -temperature screening at security, hand wash at the entrance, maintain physical distancing as far as possible.

You shall strictly instruct your workers not to spit in the public places and area of work.



ANNEXURE- V

COMPLIANCE / NO-DEVIATION STATEMENT

Tender Ref. No: **MEC30307**

NAME OF WORK: **MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT**

It is hereby stated that the quotation/offer submitted by us is in full compliance with all the documents issued against the enquiry and also further confirmed that there is no deviation from all the terms and conditions as per the enquiry.

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

SEAL

Date :



COMPLIANCE OF GENERAL CONDITIONS OF CONTRACT (GCC)

Tender Ref. No: MEC30307

NAME OF WORK: MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT

It is hereby stated that we have read and understood General Conditions of Contract (GCC) and confirm that we abide by all the terms and conditions of GCC.

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

SEAL

Date :



ANNEXURE- VII

Tender Ref. No: MEC30307

NAME OF WORK: MAINTENANCE OF HEAT EXCHANGERS - ANNUAL RATE CONTRACT

CHECK LIST

1. Scope of Work, General Terms and Conditions (**Annexure I, II, III, IV, V, VI, A, B & C**) (complete set of Tender Documents) to be signed and stamped on all pages, scanned and uploaded **(YES/NO)**.
2. Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded **(YES/NO)**.
3. Bidder Information (**Annexure - E**) - put **√ mark** in front of your confirmation, signed and stamped, scanned and uploaded **(YES/NO)**.
4. Self Declaration (**Annexure F**) - duly filled, signed and stamped, scanned and uploaded. **(YES/NO)**.
5. Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded **(YES/NO)**.

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :