



This tender floated in NIC - CPP Portal with Tender ID: **2024\_HOCL\_792390\_1** dt. 26/01/2024 with due date 05/02/2024 at 02:00 PM and in GeM Portal with GeM Bid No. **GEM/2024/B/4538133** dt. 26/01/2024 with due date 05/02/2024 at 01:00 PM.

हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड  
**HINDUSTAN ORGANIC CHEMICALS LIMITED**  
(भारत सरकार का एक उद्यम)  
(A Government of India Enterprise)  
अंबालामुगल, एर्नाकुलम जिला, पिन - 682 302  
AMBALAMUGAL, Ernakulam District, PIN – 682 302.  
फोन: (0484) 2720911, फैक्स नंबर (0484) 2720893  
Phone: (0484) 2720911, FAX No. (0484) 2720893

**ई-निविदा सूचना**  
**E- TENDER NOTICE**

HOCL निम्नलिखित कार्य के लिए दो बोली प्रणाली के तहत ई-बोली आमंत्रित करता है:  
HOCL Invites e-Bids under the **Two Bid system** for the following work:

Sl. No.	Description of Item and Tender No.
1	कार्य का नाम : कूलर ट्यूब बंडलों के बाद एसीटोन उत्पाद कूलर (ई 4506) और कंप्रेसर के 2501 सी की रीट्यूबिंग HOCL निविदा संदर्भ : MEC30399  Name of Work : RETUBING OF ACETONE PRODUCT COOLER (E 4506) & COMPRESSOR K 2501 C AFTER COOLER TUBE BUNDLES HOCL Tender Ref : MEC30399

निविदा दस्तावेज [www.hoclkochi.com](http://www.hoclkochi.com), <https://mkp.gem.gov.in/market> & <https://eprocure.gov.in/eprocure/app> से डाउनलोड किए जा सकते हैं।

Tender documents may be downloaded from [www.hoclkochi.com](http://www.hoclkochi.com), <https://mkp.gem.gov.in/market> & <https://eprocure.gov.in/eprocure/app>.

इच्छुक पार्टियां निविदा में भाग लाने के लिए कृपया एनआईसी ई प्रोक्योरमेंट पोर्टल (यूआरएल: <https://eprocure.gov.in/eprocure/app>, & <https://mkp.gem.gov.in/market>) पर पंजीकृत हो सकती हैं। निर्दिष्ट ऑनलाइन प्रक्रिया के अलावा अन्य प्रस्तुत निविदाएं स्वीकार नहीं की जाएंगी। कृपया प्रस्ताव जमा करने से पहले किसी भी परिशिष्ट/शुद्धिपत्र/विस्तार के लिए नियमित रूप से उपरोक्त साइटों पर जाएं।

Interested parties may please get registered with NIC e procurement portal (URL: <https://eprocure.gov.in/eprocure/app>, & <https://mkp.gem.gov.in/market>) 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.

कृपया विशिष्टताओं और नियमों और शर्तों की पुष्टि करत हुए **दो बोली प्रणाली** के तहत अपनी ई-बोली जमा करें।

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

हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड के लिए और उनकी ओर से  
For and on behalf of Hindustan Organic Chemicals Limited  
(GSTN:32AAACH2663P1ZG),(CIN:I99999MN1960GOI011895)

मंगेश वी. शहासने MANGESH V. SHAHASANE  
महाप्रबंधक (यांत्रिक/यूटिलिटीस) GENERAL MANAGER (MECHANICAL/UTILITIES)



हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड  
**HINDUSTAN ORGANIC CHEMICALS LIMITED**  
(भारत सरकार का एक उद्यम)  
(A Government of India Enterprise)  
अंबालामुगल, एर्नाकुलम जिला, पिन - 682 302  
**AMBALAMUGAL, Ernakulam District, PIN – 682 302.**  
फोन: (0484) 2720911, फैक्स नंबर (0484) 2720893  
**Phone: (0484) 2720911, FAX No. (0484) 2720893**

**MEC30399**

Dear Sir,

हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड भारत सरकार का उपक्रम है जो कोच्चि, केरल, भारत में अपने संयंत्र में फिनोल, एसीटोन और हाइड्रोजन पेरोक्साइड का निर्माण करता है। एचओसीएल ने **कूलर ट्यूब बंडलों के बाद एसीटोन उत्पाद कूलर (ई 4506) और कंप्रेसर के 2501 सी की रीट्यूबिंग - एमईसी30399** के लिए ई-निविदाएं आमंत्रित की हैं। एचओसीएल ने मैसर्स एनआईसी के साथ एक समझौता किया है। अपने पोर्टल <https://eprocure.gov.in/eprocure/app> के माध्यम से ई-खरीद के लिए। आप कृपया इस निविदा में भाग लेने के लिए एनआईसी के साथ एक विक्रेता के रूप में पंजीकृत हो सकते हैं।

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 **RETUBING OF ACETONE PRODUCT COOLER (E 4506) & COMPRESSOR K 2501 C AFTER COOLER TUBE BUNDLES.** 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.

निविदा दस्तावेज एचओसीएल की वेबसाइट [www.hoclkochi.com](http://www.hoclkochi.com), <https://> बाजार और, <https://eprocure.gov.in/eprocure/app> & <https://mkp.gem.gov.in/market> पर अपलोड किए जाते हैं।

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

संलग्न दस्तावेजों का सूचकांक इसके साथ संलग्न है। आपसे अनुरोध है कि कृपया अपनी निविदा तैयार करने/प्रस्तुत करने से पहले सभी दस्तावेजों को विस्तार से पढ़ लें।

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

आप अपना प्रस्ताव दो-बोली प्रणाली पर निर्दिष्ट नियत तारीख और समय से पहले ऑनलाइन जमा कर सकते हैं।

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

धन्यवाद, Thanking you,

आपका आभारी, Yours Faithfully,

हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड के लिए (CIN: L999999MH1960GOIO11895),  
For Hindustan Organic Chemicals Limited (CIN: L999999MH1960GOIO11895),

मंगेश वी. शहासने MANGESH V. SHAHASANE  
महाप्रबंधक (यांत्रिक/यूटिलिटीस) GENERAL MANAGER (MECHANICAL/UTILITIES)



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

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

**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 (for online submission)**

**Mr. Midhun Babu**  
**Assistant Manager (Systems/Materials)**  
**Mobile No. 8921387812, 8547196394**

#### **HOCL Work Co-ordinator**

**Mr. Eldhose Baby**  
**Assistant Manager (Mechanical)**  
**Mobile No.**  
**7012497507/9745667399/**  
**0484 2727394**



## ANNEXURE-I

### GENERAL TERMS AND CONDITIONS OF THE TENDER

#### PRE-QUALIFICATION CRITERIA (TO BE INCLUDED IN THE TECHNICAL BID)

The Tenderers shall submit the following in the Technical bid (Un priced Bid) without which the tender will be rejected.

- Complete set of Tender Document duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
- Scope of Work, General Terms and Conditions (**Annexure I, II, III, IV, A, B & C**) (**complete set of Tender Documents**) to be **signed and stamped** on all pages, scanned and uploaded.
- Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded.
- Bidder Information (**Annexure - E**) - put **v mark** in front of your confirmation, signed and stamped, scanned and uploaded.
- Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded.
- Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dt. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (**Annexure R**) - duly filled, signed and stamped, scanned and uploaded.
- GCC duly filled in the relevant portions, signed and stamped all the pages by the tenderer (The tenderers have to download the GCC (General Conditions of Contract) from our web site [www.hoclkochi.com](http://www.hoclkochi.com) and the same has to be returned along with the technical bid duly signed and stamped in all page

EMD - 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.

#### PERFORMANCE SECURITY

Nil

#### SECURITY DEPOSIT

Nil

#### LIQUIDATED DAMAGES

In case the contractor fails to complete the work within the stipulated period, contractor shall be liable to pay a LD of ½% (half percent) of the contract value per day for the delay or part thereof subject to a maximum of 5% (Five percent) of the contract value.

#### PERIOD OF CONTRACT

The period of the contract shall be **6 Months** from the date of issue of work order/issue of instruction to start the work.



## **SCOPE OF SUPPLY**

### **Materials**

#### **a. Contractor's Scope**

All required consumables like oil, TIG Rod, Cutting gas, Argon, grinding wheel, lathe tools, Flaring machine, flaring tool etc. for satisfactory completion of the work shall be arranged by the contractor.

All skilled & unskilled manpower requirements for the work shall be arranged by the contractor.

#### **b. HOCL's Scope**

HOCL shall issue straight tubes, tube bundle and old tie rods, old spacer tubes, old tube sheet, etc. shall salvaged from old tube bundle. Test rings and gasket will be supplied by HOC. You shall execute an indemnity bond of Rs.50 lakhs before taking material to your shop.

## **TOOLS AND TACKLES**

#### **a. Contractor's Scope**

All machines, tools, tackles, lifting equipments such as chain pulleys, slings, D shackles, expanding / flaring tools, torquing machines, lubricants, rollers, mandrel, welding machine and TIG welding consumables etc. Hydraulic test pumps, hoses, fittings, connectors, pressure gauges and other tools and equipments required for the satisfactory completion of the entire work is to be arranged by the contractor.

The filler wire used should be of L&T/ESSAB/Advani etc. make only.

#### **b. HOCL's Scope**

Nil

## **GENERAL SITE CLEANING**

Working site should always be kept cleaned upto 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**

The entire work has to be completed within **15 days** from the date of intimation to start the work.

## **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**

- 100% payment will be release after completion of work and certification by Engineer-In-Charge.

### **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 Technical Bid itself and enclose necessary documentary evidence to prove their eligibility.

**WE HAVE ALSO FLOATED TENDER IN GeM PORTAL. IF ANY PARTY QUOTED THROUGH GeM PORTAL AND BECAME L<sub>1</sub> COMPARED TO THE RATES IN NIC PORTAL, WORK WILL BE AWARDED TO THE GeM BIDDER AND VICE VERSA.**

### **DEFECT LIABILITY PERIOD**

As per GCC

### **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](http://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) **05/02/2024 at 02.00 PM.**

**OPENING OF BIDS:** The Bids will be opened on **06/02/2024 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.



## ANNEXURE-II

### SCOPE OF WORK

The scope of work includes but not confined to the following:

#### I. Retubing of Acetone Product Cooler (E 4506)

1. Transportation of old tube bundle from HOCL site to party's workshop and back to HOCL after the retubing works.
2. Taking measurements of the tube bundle and record the same.
3. Dismantling of the Fin - tubes (7 Nos. 'U' tubes with 5M length) from the tube sheet.
4. Removing the tube sheet from the existing tube bundle and correct the holes for tube expansion.
5. Cleaning of existing tube sheets, spacers, tie rods and baffles without causing any damages.
6. Tube holes must be cleaned thoroughly by reaming without causing any damage/ dimensional change.
7. Assembling the new tubes with tube sheet, baffle plates, tie rods etc. as per the drawing.
8. Inserting and welding of the new 'U' tubes issued by HOCL to suite the correct length.
9. Party should maintain all dimensions as per the drawings attached and the existing tube bundle.
10. Welding of the tube with extension piece in order to maintain the correct length (tolerance  $\pm 1$ mm).
11. Expansion of the tubes to tube sheet by flaring.
12. Expansion of the tubes by pneumatic/electronic tube expander & welding of tubes to tube sheet (if required). The welding of tube-to-tube sheet will be done by TIG welding. This is in the Contractor's scope. (The TIG welding has to be carried out by an IBR qualified welder.) All the consumables/equipments such as Argon gas, welding helmet, wire brush, TIG welding machine, TIG Torch gloves etc. should be brought by the Contractor including tube expander, etc. (IBR certificate of welders has to be produced before start of work).
13. The seal welding of the tubes to tube sheet shall be done by TIG welding. The welding is to be carried out by a qualified welder and the welding is to be done before the expansion of the tubes. The welding shall be done in such a manner that, there shall be no distortion in the tube sheet.
14. All the consumables /equipments such as Argon gas, welding helmet, and wire brush, TIG welding machine, TIG torch, gloves, and TIG wire, electronic torquing machine, all required turning/machining/drilling equipments, etc., should be arranged by you including expander of required size. The filler wire used should be of L&T/ESSAB/Advani Make only.
15. The suitable Filler wires for welding the tubes to tube sheet (above) has to be arranged by the Contractor.
16. HOC will issue the new 'U' tubes and old tie rods, old spacers tubes, old tube sheet etc. shall be salvaged from old tube bundle. Any minor repair or machining of the same arises during the work has to be done by the contractor at his own cost.



17. Dye penetrant test should be carried out to ensure quality of weld joints.
18. Testing of the tube sheet at party's workshop and witnessing of the same by HOCL Engineers.
19. Proper care should be taken to maintain the dimensions since we have close tolerance in all places including tube length.
20. Shell and cover and split ring can be given to party's workshop for testing purpose and same has to be return back without any damage and will be at the cost and risk of contractors.
21. CAF cut sheet and fasteners gaskets will be given by HOCL for testing purpose and the same should be returned to HOCL after the test.
22. All jobs are subjected to site inspection by HOCL.
23. Hydraulic test of the tube bundle to check the rolled & welded joints as per the details given below:  

Test Pressure for shell side – 18.3 kg/cm<sup>2</sup> g @ atm temp.  
Test pressure for tube side – 9.75 kg/cm<sup>2</sup> g @ atm temp.
24. After completion of retubing, the transportation of the tube bundle along with old tubes to HOCL shall be arranged by the contractor.
25. The loading, unloading and transportation of tubes, tube bundle for re-tubing all required material from HOCL to your site and bring back the tube bundle after re-tubing and other materials shall be in the scope of the contractor.
26. Time is the essence of this contract.

## II. Compressor K 2501-C After Cooler Tube Bundles

HOCL intend to retube the tube bundles of the Aftercooler of Process Air Compressor K2501 C in Phenol Plant with new tubes (110 Nos.) and old tube sheet, baffles plates, tie rods and spares, the following are the scope of work.

1. New Copper Tubes (5/8 " size length -2370 mm) and Exchanger with existing tube bundle shell & test rig for the job will be supplied by HOC.
2. Transportation of the tubes and tube bundle from our Stores / storage location to your works has to be arranged by the Contractor.
3. Removing the 110 Nos. tubes from the existing tube bundles, cleaning the expansion grooves and assembling of the new tubes with tube sheet, baffle plates, tie rods, spacers tubes etc.
4. Cleaning of existing tube sheets, spacers, tie rods and baffles without causing any damages.
5. Tube holes must be cleaned thoroughly by reaming without causing any damage/ dimensional change.
6. Expansion of the tubes by using pneumatic/electronic tube expander & to seal tubes to tube sheet.
7. After completion of retubing, the transportation of the new tube/exchanger assembly and old tubes and test rings to and fro HOCL shall be arranged by the contractor
8. In case of any damage happened to any of the material during transit or in the course of operation /storage, the same shall be replaced by you at your risk & cost.



9. All works shall be subjected to stage inspection by HOC/3rd party inspection agency.
10. Hydraulic test of the tube bundle to check the rolled & welded joints as per the details given below:

Test Pressure for shell side – 15.75 kg/cm<sup>2</sup> g @ atm temp.

Test pressure for tube side – 9 kg/cm<sup>2</sup> g @ atm temp.

11. If vendor want to carry out the work in HOC premises, HOC will allow the same in HOC's fabrication yard/at site.
12. The vendor has to carryout the shell side hydro test with the test rig available at HOCL site.

**Note:**

- a. Hydraulic testing at Tube side and shell side at the required pressure will be carried out by HOC once again after putting the tube bundle into service. In case any leak is observed at that time, contractor has to do the necessary repair by flaring at their cost at HOC site.
  - b. Test rings and gasket for tube side pressure test shall be provided by HOC free of cost.
13. After completion of retubing, the transportation of the tube bundle along with old tubes to HOCL shall be arranged by the contractor.
  14. The loading, unloading and transportation of tubes, tube bundle for re-tubing all required material from HOCL to your site and bring back the tube bundle after re-tubing and other materials shall be in the scope of the contractor.
  15. Time is the essence of this contract.

**Note :**

- i. HOC will allow the work at party's workshop. But the party has to execute an **indemnity bond for Rs.10 Lakhs** before taking material to his shop. But storage of the tubes and old tube bundle will be at party's risk and transportation of tubes, tube bundles and other spares to and from your workshop has to be done by the contractor.
- ii. Hydraulic testing at Tube side and shell side at the required pressure will be carried out by HOC once again after putting the tube bundle into service. In case any leak is observed at that time, contractor has to do the necessary repair by flaring/welding at their cost at HOC site.

Test rings and gasket for tube side pressure test shall be provided by HOC free of cost.



## ANNEXURE- III

### Special Conditions- 2024

HOCL is planning to take 30 days shutdown in 2024. Since the external environment is favourable to HOCL, all works has to be completed within the stipulated period for early startup of plant. The contractor has to put people as 12 hrs. shift basis (2 shifts – 8.00AM – 8.00PM, 8.00PM – 8.00AM) in full strength. Contractor has to take care the same while submitting their offer. Any deviation will be viewed very seriously. Also please note that the completion period spelt in NIT is for each work. (Hence, the LD Clause will be applicable to each work also.)

1. Contractor has to ensure that one electrician and one safety officer should be available in both the shifts in each site.
2. Contractor has to ensure that there should not be any delay in shift change overtime. The work has continue in same momentum during shift change time (8.00AM & 8.00PM). Measures to be made by the contractor to bring workers in advance for the same.
3. All manpower, tools, tackles, hydraulic test pumps, lifting tools, ropes, wire brushes, 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.**
4. Spiral wound Gaskets, bolts, nuts, fasteners required for the work will be supplied by HOCL free of cost **as per requirement**. But HOC will issue only the gasket sheets for initial blinding. It has to be cut to the correct size by the contractor at his cost.
5. Safety Helmets, safety shoes, goggles, safety belts and other PPEs etc. for the workmen and supervisor employed for the work are to be arranged by the contractor.
6. 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.
7. This work is a **shutdown activity** and you have to put all efforts to complete the work in time. Also you have to deploy people on round the clock basis as per the instruction of Engineer-in-Charge.
8. The entire work is to be carried out as per the standard engineering practice and subjected to stage inspection by HOC/3rd party inspection agency.
9. 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.
10. **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.
11. Contractor has to mobilize the complete team with necessary tools and tackles within 24 hours from the time of intimation to start the work.
12. Either the contractor or his authorized supervisor shall be available at work site throughout the work in both shifts.
13. Being a shutdown job, the quantity shown can vary ie. Increase or decrease depending upon the situation. However, the rate and other terms and conditions shall be same throughout the pendency of the contract for which the contractor shall be ready.



14. Appropriate insurance shall be arranged by the contractor for the coverage of the liability to the people employed by them, arising out of any accident occurring during the execution of the work.
15. The Contractor shall follow all clauses in Annexures – 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, Scaffolding Checklist, Scaffolding Manual & Scaffolding Parts & Erection Procedure (Tube & Clamp).
16. Contractor shall get prior permission from the Engineer-in-Charge for bringing the material to HOC.
17. Contractor shall ensure that a standby person is kept outside the man-way nozzle when the work is inside a confined space.
18. You are requested to visit the site to ascertain the exact quantum of work/site condition and get acquainted before submitting your offer.



**ANNEXURE- IV**

**COMPLIANCE / NO-DEVIATION STATEMENT**

**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 :



**ANNEXURE - V**

**COMPLIANCE OF GENERAL CONDITIONS OF CONTRACT (GCC)**

**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- VI**

**CHECK LIST**

**PRE-QUALIFICATION CRITERIA (TO BE INCLUDED IN THE TECHNICAL BID)**

**The Tenderers shall submit the following in the Technical bid (Un priced Bid) without which the tender will be rejected.**

- Complete set of Tender Document duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
- Scope of Work, General Terms and Conditions (**Annexure I, II, III, IV, A, B & C**) (**complete set of Tender Documents**) to be **signed and stamped** on all pages, scanned and uploaded (**YES/NO**).
- Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Bidder Information (**Annexure - E**) - put **v mark** in front of your confirmation, signed and stamped, scanned and uploaded (**YES/NO**).
- Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dt. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (**Annexure R**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- GCC duly filled in the relevant portions, signed and stamped all the pages by the tenderer (The tenderers have to download the GCC (General Conditions of Contract) from our web site [www.hoclkochi.com](http://www.hoclkochi.com) and the same has to be returned along with the technical bid duly signed and stamped in all page

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :