



HINDUSTAN ORGANIC CHEMICALS LIMITED

(A Government of India Enterprise)

AMBALAMUGAL, Ernakulam District, PIN – 682 032.

Phone: (0484) 2720911, FAX No. (0484) 2720893

OPEN E- TENDER NOTICE

HOCL Invites e-Bids under the **two-bid system** for the following work:

Sl. No.	Description of Item and Tender No.
1	SUPPLY, FABRICATION, TESTING & TRANSPORTATION OF C3 C4 OVERHEAD CONDENSER ASSEMBLY (101 E 002) HOCL Tender Ref : MEC30177/2484

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 **two-bid system** confirming to the specifications and the terms and conditions.

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

L. SHANIL LAL
GENERAL MANAGER (MECHANICAL)



HINDUSTAN ORGANIC CHEMICALS LIMITED

(A Government of India Enterprise)

AMBALAMUGAL, Ernakulam District, PIN – 682 032.

Phone: (0484) 2720911, FAX No. (0484) 2720893

MEC30177/2484

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 **SUPPLY, FABRICATION, TESTING & TRANSPORTATION OF C3 C4 OVERHEAD CONDENSER ASSEMBLY (101 E 002)**. 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 and <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/submitting your tender.

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

Thanking you,

Yours Faithfully,

For Hindustan Organic Chemicals Limited (CIN: L99999MH1960GOIO11895),

L. SHANIL LAL
GENERAL MANAGER (MECHANICAL)

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HINDUSTAN ORGANIC CHEMICALS LIMITED

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

Tender Ref. No: MEC30177/2484

**Name of Work: SUPPLY, FABRICATION, TESTING & TRANSPORTATION OF C3 C4 OVERHEAD
CONDENSER ASSEMBLY (101 E 002)**

***THIS DOCUMENT TO BE SIGNED AND STAMPED BY BIDDER ON ALL PAGES AND SUBMITTED ALONG
WITH THE E-TENDER***

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
Co-ordinator (NIC-HOCL)
Mob: 8921387812, 8547196394,

HOCL Work Co-ordinator

Mr. P.V. Babu
Chief Engineer (Mechanical)
Mob: 9446134842

HINDUSTAN ORGANIC CHEMICALS LIMITED

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

Tender Ref. No: MEC30177/2484

CLEANING OF HOT OIL HEATER TUBES, PREPARATION FOR NDT, IN-SITU METALLOGRAPHY & HYDROTEST OF TUBES COILS IN POSITION

THIS DOCUMENT TO BE SIGNED AND STAMPED BY BIDDER ON ALL PAGES AND SUBMITTED ALONG WITH THE E-TENDER

SCOPE OF WORK

1. Supply

Supply, fabrication, testing and transportation of C3 C4 Overhead Condenser Assembly (101 E 002) as per the attached drawings.

Design Data

	Shell side	Tube side
Design Pressure	18.0 Kg/cm ² g	6.5 Kg/cm ² g
Design Temperature	65°c	65°c
Working Pressure	14.7 Kg/cm ² g	4.5 Kg/cm ² g
Hydrotest Pressure	27.0 Kg/cm ² g	9.75 Kg/cm ² g
Joint Efficiency	0.85	0.85
Radiography	SPOT	SPOT

- 1.1. The scope of the work includes procurement of materials, fabrication, testing and supply of the exchanger 101 E 002. Vendor shall supply the exchanger complete with all appurtenances, internals and accessories required for testing, operation and maintenance as per the drawing. This is for one to one replacement of the exchanger 101 E 002 and **hence does not call for designing**. Vendor shall ensure that the material specification/dimensions/weld seam locations and nozzle orientations are identical to the existing exchanger and generally as per the attached drawings. However, the vendor shall submit the shell development & detailed drawing including the material list for review and approval by HOCL.
- 1.2. All gasket faces should be serrated to 125 Ra. (as per B 16.5 clause 6.3.4.).
- 1.3. Radiography has to be done as per ASME code.
- 1.4. Procurement of all materials as per drawing including steel plates, nozzle pipes & flanges, nozzle reinforcement and structural pad plates, structural supports, cleats for shell, tube bundle, tube sheet, baffles, tie rods, spacers of the exchanger, pipes and flanges required for nozzles, shell stiffening rings, external shell stiffeners, lifting lugs, saddle support, structural support cleats required etc. Platforms and ladders are exempted from the scope of supply.

Regarding procurement/supply of tubes there are two options given in the BoQ.

Option - I is excluding tubes and the tubes shall be supplied by HOCL at vendor's works.

Option - II is inclusive of tubes i.e. the tubes shall be supplied by the vendor.

- 1.5. Preparation and obtaining approval from 3rd Party Inspection Agency of Welding Procedure Specification (WPS), Procedure Qualification Records (PQR) and Welder Performance Qualification (WPQ) and Quality Assurance Plan (QAP).
- 1.6. Documents including a detailed Quality Assurance Plan (QAP) to be submitted immediately on receipt of firm work order.
- 1.7. Fabrication drawings shall be submitted for approval within 15 days from the receipt of work order.
- 1.8. All test certificates like material test certificate (mill test certificate), chemical analysis report etc. should be from a reputed Govt. approved lab duly reviewed by third party. The party should submit 3 copies of the data folder to HOC duly approved by Third party inspection agency. The data folder should contain at least the following certificates:
 - a. Material test certificate (mill test certificate)
 - b. Chemical Analysis report
 - c. Dimensional inspection report
 - d. Visual inspection certificate for -Deformation of exchanger after welding
- Finish of material/machined surface
 - e. Hydrostatic test Certificate
 - f. NDT test reports
 - g. Final inspection cum release note
 - h. WPS/WPQ for all welding, radiography report
 - i. Tube to tube sheet expansion test report
- 1.9. 3rd party inspection is required for
 - Material identification
 - QAP & delivery schedule, WPS, WPQ, PWHT, NDT Procedures, Radiography.
 - Stage wise inspection during fabrication as per QAP
 - Final inspection and hydrotest
 - Mock up test procedure to be reviewed by 3rd Party.

Inspection and testing shall be carried out strictly to the requirement of codes stated in the specification by the 3rd party inspection agency. **THIRD PARTY INSPECTOR SHALL BE ARRANGED BY THE CONTRACTOR AND COST OF THIRD PARTY INSPECTION SHALL BE INCLUDED IN THE BASIC PRICE.**

Third party inspector shall be from the following list.

1. ABS INDL VERIFICATION(INDIA)P.LTD.
 2. BAXCOUNSEL INSPECTION BUREAU PVT, LTD
 3. BUREAU VERITAS INDUSTRIAL SERVICES(INDIA)
 4. FACT ENGG AND DESIGN ORGANISATION (FEDO)
 5. LLOYD'S REGISTER ASIA
 6. IRCLASS INDIAN REGISTER OFSHIPPING
 7. TUV INDIA
- 1.10. Fabrication of the exchanger including shell, tube bundle, tube sheet, baffles, tie rods, spacers of the exchanger, pipes and flanges required for nozzles, shell stiffening rings, external shell stiffeners, lifting lugs, structural support / saddle support, cleats required etc, shall be supplied by vendor.
 - 1.11. Mechanical fabrication and testing shall be as per ASME Sec VIII Div. 1 / TEMA Class R (latest edition).

- 1.12. Welding of cleats / brackets for the fixing of ladders and platforms (if any).
- 1.13. Inspection and testing including hydrotest.
- 1.14. Supply and application of Primer paint as per Section 6.
- 1.15. Any other items covered and other documents/drawings attached with the enquiry but not specifically mentioned above.

2.0. Submission of Drawings & Documents

2.1. Vendor shall submit the following documents to HOCL.

- 2.1.1 Dimensioned General Arrangement drawing of the exchanger drawing shall be submitted. The party shall submit the As-built drawing in AUTO CAD (editable format, 101 E 002.dwg) (latest version) along with supply of exchanger. (6 sets hard copies + 1 soft copy).
- 2.1.2 Dimensioned shell development drawing showing the circumferential & longitudinal weld seams, nozzle openings & RF pads & external shell stiffeners, ladder/platform support and insulation cleats, etc.
- 2.1.3 Detailed Quality Assurance Plan for procurement, fabrication, inspection and supply shall be submitted for approval and weekly progress report should be informed to HOCL in the event of getting order.
- 2.1.4 Welding Procedure Specification (WPS), Procedure Qualification Record (PQR) and Welder Performance Qualification (WPQ).
- 2.1.5 Material Test Certificates for bought-out items such as plates, nozzle pipes & flanges, tubes (as per Option) fasteners, gaskets, etc.
- 2.1.6 NDT, dimensional report and hydrotest report.
- 2.1.7 Radiography report.
- 2.1.8 Tube to tube sheet expansion / mock up test report.
- 2.1.9 Final "AS BUILT" drawings as mentioned above.

3.0. Materials

- 3.1. All the materials including Steel plates required for shell, tube (as per Option), tube sheet, baffles, tie rods, spacers of the exchanger, pipes and flanges required for nozzles, shell stiffening rings, saddle support, structural support cleats required etc, shall be supplied by vendor.
- 3.2. Refer the attached drawings for the item-wise material of construction/bill of materials
- 3.3. All nozzle fasteners shall confirm to SA 193 Gr. B7 and SA 194 Gr. 2H specs.
- 3.4. All materials supplied by the vendor shall meet the requirements of attached drawings / specifications and applicable codes & standards. Test Certificates for the materials shall be submitted to HOCL.

- 3.5. ASTM A 516 (equivalent grade) can be used instead of ASTM 515 given in drawing. IS 2062 can be used instead of IS 226 given in drawing.
- 3.6. All gasket shall be supplied as per the drawing attached.

4. Fabrication

- 4.1. Fabrication of the section shall confirm to ASME Sec. VIII Div. 1 / TEMA Class R.
- 4.2. The detailed drawings of the existing exchanger are attached. If anything is not clear from the drawing the bidder is free to visit our site to clarify their doubts and collect the details required. Vendor shall submit to HOCL for approval the detailed general arrangement and shell development drawings.
- 4.3. Design and fabrication of the dummy covers (end closure) for shop hydrotest (TUBE SIDE) is in the vendor's scope.

5.0. Testing & Inspection

- 5.1. 3rd party inspection is required for material identification. Approval of WRS / WPQ and PQR Radiography and NDTs as per QAP.
- 5.2. 3rd party shall carry out inspection at various stages of fabrication/ procurement, including raw material identification as per QAP.
- 5.3. Approval of work by HOCL shall in no way relieve the vendor of his responsibility in meeting all the provisions of the Enquiry conditions.
- 5.4. All root runs of butt-welds shall be back chipped and dye penetrant tested.
- 5.5. All weld joints shall be tested by MPI & UT Flaw check also.
- 5.6. In addition to spot radiography as per code, all Tee joints shall be radiographed (covering a minimum of 100 mm on each leg of the Tee).
- 5.7. Final inspection and testing shall be carried out at shop before dispatch.

6.0. Painting

- 6.1. All un-machined C.S (external) surfaces shall be shot/slag blasted to SA 2 ½ standard and painted with two coats of Zinc Chromate primer (25 microns DFT/coat).
- 6.2. All machined surfaces to be coated with rust protecting coats.

7.0. General

- 7.1. Entire work shall be carried out in accordance with relevant standards and accepted codes of practices.
- 7.2. All butt welds shall have full penetration. When welding is carried out from both sides of a joint, the root of first side shall be dressed back to sound metal and Dye penetrant tested before commencement of weld on second side.

- 7.3 All butt-welds on the inner surface of the exchanger shall be ground flush. Fillet welds shall be ground to a smooth contour.
- 7.4 Cleats for structurals shall not be welded directly to the exchanger. Pad plates of the same material as the shell shall be provided for this purpose.
- 7.5 The bolt holes of saddle support to be fabricated and shall match with the present foundation bolts. Cleats for platforms and ladders to be provided at the present location for use of existing platforms and ladders.
- 7.6 All civil works and erection works are exempted from scope of work.
- 7.7 Transit insurance will be arranged by HOCL. Vendor shall inform the details prior to the dispatch for insurance purpose.
- 7.8 Mating flanges exempted from the scope of supply.

8.0. Transportation

- 8.1. The entire section of the equipment shall be transported to the site in one piece.
- 8.2. All flanges and gasket faces should be covered with wooden planks before transportation.
- 8.3. Fasteners shall be properly marked, packed and supplied loose.

8.4. TRANSPORTATION COST SHALL BE INCLUDED IN THE BASIC PRICE.

8.5. P & F CHARGES SHALL BE INCLUDED IN THE BASIC PRICE

9.0. Exclusions

- 9.1. Field hydrotest, unloading at site, erection, supply and fixing of platforms & ladders is excluded from the vendor's scope.

10. Guarantee

The equipment (section supplied) and parts shall be guaranteed against defects in design, material, workmanship and performance for a period of 18 months from the date of supply or 12 months from the date of installation of the equipment at site whichever is earlier.

HINDUSTAN ORGANIC CHEMICALS LIMITED

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

Tender Ref. No: MEC30177/2484

**Name of Work : SUPPLY, FABRICATION, TESTING & TRANSPORTATION OF C3 C4 OVERHEAD
CONDENSER ASSEMBLY (101 E 002)**

GENERAL TERMS AND CONDITIONS OF THE TENDER

***THIS DOCUMENT TO BE SIGNED AND STAMPED BY BIDDER ON ALL PAGES AND SUBMITTED ALONG
WITH THE E-TENDER***

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

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.

1. Complete set of Tender Document marked "**ORIGINAL**" duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
2. 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 and the same has to be returned along with the technical bid duly signed and stamped in all pages.
3. **Earnest Money in the manner specified in the Tender document.**
4. Power of Attorney or Photostat copy or a true copy' thereof duly attested by a Gazetted Officer in case an authorised representative has signed the Tender.
5. Information regarding tenderer as stipulated in Clause.1 (given in the next page).
6. Details of work of similar type and magnitude carried out by the tenderer as stipulated in Clause.3.
7. Organization chart giving details of field management at SITE, the tenderer proposes to have for this WORK including bio-data of the Site-in Charge and key personnel.
8. The bidder should have well qualified workforce in adequate numbers for handling various stages of the work. The staff/workers details are to be furnished.
9. The bidder should have adequate number of equipments/tools/tackles/scaffolding pipe/clamps/staging materials in sound condition for the execution of the work within the stipulated time. The equipment details should be furnished.
10. Details of concurrent commitments of Tenderer.
11. **Exceptions and deviations, if any, with reference to the Clause No. and page No. of Tender shall be submitted as a separate statement (Deviation Statement)**
12. A tentative programme for the execution and completion of work within the time specified.
13. Any other technical information the Tenderer likes to furnish.

Clauses :

1. Average annual financial turnover of the bidder during the last 03 years ending 31st March 2018 should be at least **₹13.5Lakhs** (Details of annual financial turnover to be submitted with Documentary proof).
2. Details of current commitments with copies of Work Orders to be submitted along with Technical Bid.
3. Experience of having successfully completed similar works during the last 7 years ending 31st March 2018 should be either of the following: (Documentary proof should be attached along with the Technical Bid).
 - Three similar completed works costing not less than the amount equal to **₹18 Lakhs each.**
OR
 - Two similar completed works costing lot less than the amount equal to **₹22.5 Lakhs each.**
OR
 - One similar completed work costing not less than the amount equal to **₹ 36 Lakhs each.**

EARNEST MONEY DEPOSIT

Quotation shall accompany an EMD of **₹22,500/-** shall be paid by crossed DD/Bankers Cheque. 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:-

- a. If after opening of the tender, the tenderer revokes his tender or increase his quoted rates.
- b. If the tenderer does not commence the work after awarding the contract.
 - No interest on EMD will be paid.
 - EMD of the successful tenderer will be adjusted against the security deposit.
 - EMD of unsuccessful bidders shall be refunded after finalization of the contract and no interest shall be payable.

The Earnest Money Deposit shall be forfeited if: -

- a) The tender is revoked or varied during its validity period.
- b) The Prices are increased unilaterally after the tender opening and during its validity.
- c) 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

The cost of tender documents **₹1000 + GST/-** (non-refundable) shall be paid by crossed DD/ Bankers Cheque. Details of bank transfer should be indicated/ copy to be uploaded in your technical offer. Parties who are not interested in quoting against enquiry may kindly send back the hard copy of the documents to us.

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 10% of contract value/actual value of work.

Initial security deposit @ 2.5% of the contract value shall be remitted with HOCL, Kochi within 21 days from the date of receipt of Work Order.

Balance 7.5% will be recovered from the 1st and subsequent running bills/final bill against security deposit at a rate of 10% of the value of each running bill till the total security deposit 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 WEEK** of the delay or part thereof subject to a maximum of 5% of the contract value.

PERIOD OF CONTRACT

The period of the contract shall be **ONE YEAR** from the date of issue of work order.

SCOPE OF SUPPLY

MATERIALS

a. HOCL's Scope

Option No. I - Nil

Option No. II - Tubes required for the Exchanger will be supplied by HOCL.

b. Contractor's Scope

All material required for the satisfactory completion as per scope of work shall be in contractor's scope.

TOOLS & TACKLES

a. HOCL's Scope

Nil.

b. Contractor's Scope

All tools and tackles required for the satisfactory completion as per scope of work shall be in contractor's scope.

TIME OF COMPLETION

The supply of the equipment at HOC site should be completed within **one month** from the date of work order/LOI.

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

- 30% against material identification and certification by Third Party Inspection Agency and submission of bank Guarantee for the same amount.
- 60% payment will be made on completion of the supply of the heat exchanger at HOCL, Ambalamugal along with all documents like final inspection cum release note, test certificate data folder, as-built drawing and CD.
- Balance 10% payment will be made after completion of defect liability period or on production of PBG for the same 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 Technical Bid itself and enclose necessary documentary evidence to prove their eligibility.

DEFECT LIABILITY PERIOD

As per GCC.

Transit Insurance

HOC shall arrange necessary freight insurance. Vendor shall inform the details prior to the despatch for insurance purpose.

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) 13/03/2019 at 02.00 PM.

OPENING OF BIDS: The Technical Bids will be opened on 14/03/2019 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.

HINDUSTAN ORGANIC CHEMICALS LIMITED

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

Tender Ref. No: MEC30177/2484

CLEANING OF HOT OIL HEATER TUBES, PREPARATION FOR NDT, IN-SITU METALLOGRAPHY & HYDROTEST OF TUBES COILS IN POSITION

CHECK LIST

THIS DOCUMENT TO BE SIGNED AND STAMPED BY BIDDER ON ALL PAGES AND SUBMITTED ALONG WITH THE E-TENDER

PRO-FORMA-TECHNICAL BID

DETAILS OF CURRENT COMMITMENTS (COPIES OF WORK ORDERS TO BE UPLOADED), ANNUAL FINANCIAL TURN OVER (DOCUMENTARY PROOF TO BE UPLOADED), DETAILS OF EMD AND PAN NO. SHALL BE FILLED IN THE FORMAT AND UPLOADED ALONG WITH THE TECHNICAL BID.

1. Details of previous experience(Copies of experience certificates and work orders to be attached)

Sl No.	Name of the Industry/Firm	Period of Contract		Work Order Value (₹)
		From	To	

2. Details of annual financial turnover during the last 3 years. Documentary Proof to be signed, stamped scanned and uploaded)

Financial Year:

Turnover:

2015 - '16 -

2016-17 -

2017-18 -

3. Details of EMD enclosed:

DD No. _____ Dated _____ Amounting to _____

Name of the Bank : _____.

4. Details of Tender Fee enclosed:

DD No. _____ Dated _____ Amounting to _____

Name of the Bank : _____.

5. Organization chart as per Clause 7 of Pre-Qualification is uploaded (Yes/No)
6. Details of Income Tax return submitted for the last 3 year (Copies to be signed, stamped, scanned and uploaded) (Yes/No)
7. Scope of work, general terms and conditions, special conditions of contract, Annexure A, B & C (complete set of tender documents) to be signed and stamped on all pages, scanned and uploaded.
8. Equipment/tools list is uploaded (Yes/No)

9. The third party inspection charge, P&F and Transportation is included in the Basic Price.

10. Declaration statement as per Clause 10 of Pre-qualification is uploaded (Yes/No)

11. Annexure D - duly filled, signed and stamped, scanned and uploaded.

12. Exceptions and deviations, if any, with reference to the Clause No. and page No. of Tender shall be submitted as a separate statement (Deviation Statement)

Enclosed the tender documents signed & sealed in all pages (Tender Notice, Scope of Work, Conditions of Contract, Copies of Experience Certificate, Work Orders, EMD etc.)

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :

Quality Assurance Plan (ANNEXURE - II)

Equipment Type : Fixed Tube Heat Exchanger

Equipment Name : C3 - C4 OVERHEAD CONDENSER

Equipment No: 101 E 002

Design & Fabrication Code : ASME Sec. VIII DIV I / TEMA CLASS R

Work Order No:

Inspection by :

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Verifying Document	Scope of Inspection				Remarks
							Format of Report	Party	TPI	HOCL	
1	MATERIALS INSPECTION										
1.1	Pressure parts (Tube sheet / Plates, forgings, tubes) (To be procured from reputed vendor) Inspection at Party's works	Visual and dimensional check, 100% Eddy current test for Tubes, Ultrasonic test for tube sheet,	100%	PO / ASME SEC VIII DIV-1 / TEMA-R / Approved Drawings / Manufacturer's test certificates Approved TPS	PO / ASME SEC VIII DIV-1 / TEMA-R / Approved Drawings / Manufacturer's test certificates Approved TPS	Approved Drawing	Material test certificate, NDT Reports, Dimensional Reports, Insp. Report	H	R	-	
		Co-relation of markings with test certificates.									
		Chemical and physical properties									
		Transfer of identification marks, wherever required									
1.2	Fasteners and gaskets inspection at Party's works (To be procured from reputed Mfgs.)	Chemical and physical properties Review of test certificates	100%	ASME SEC VIII Div.1 / TEMA-R / PO / Spec / Drawings	ASME SEC VIII Div.1 / TEMA-R / PO / Spec / Drawings	Approved Drawing	Material test certificate, Insp. Report	W	R	-	
1.3	Non pressure parts (including internals, supports, baffles, sliding plates, tie rods etc.) inspection at Party's works	Chemical and physical properties Review of test certificates Check test report Visual and dimensional check	100%	ASME SEC VIII Div.1 / TEMA-R / PO / Spec / Drawings	ASME SEC VIII Div.1 / TEMA-R / PO / Spec / Drawings	Approved Drawing	Material test certificate, Dimensional Reports	W	R	-	
2	WELDING BOOK										
2.1	Weld map	Welding procedure	100%	Drawings / ASME	Drawings / ASME Section IX/ Spec.	Drawings / ASME Section IX/ Spec.	WPS	W	R	-	

H – Hold (Mandatory Inspection) - Work not to proceed without this

R – Review (Verification of Document)

W – Witness (Witness Point) (To be completed within agreed period after which the work may progress)

Quality Assurance Plan (ANNEXURE - II)

Equipment Type : Fixed Tube Heat Exchanger

Equipment Name : C3 - C4 OVERHEAD CONDENSER

Equipment No: 101 E 002

Design & Fabrication Code : ASME Sec. VIII DIV I /TEMA CLASS R

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Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Verifying Document	Scope of Inspection				Remarks
							Format of Report	Party	TPI	HOCL	
2.2	WPS/PQR/WPQ	Welding parameters	100%	Drawings / ASME	Drawings / ASME Section IX/ Spec.	Drawings / ASME Section IX/ Spec.	WPS/PQR	W	R	-	
2.3	Mock up procedure for tube to tube sheet joint	Qualification requirement	100%	Drawings / ASME	Drawings / ASME Section IX/ Spec.	Drawings / ASME Section IX/ Spec.	WPQ	W	W	-	
2.4	Welding consumable	TC verification, chemical, mechanical properties	100%	Drawings / ASME	ASME , SEC. II C	ASME , SEC. II C	Batch Test Certificate and test certificate	R	R	-	
3	INSPECTION DURING FABRICATION										
3.1	Weld edge preparation and set up of major pressure parts like L/S, C/S	Visual and dimensional inspection , marking, WEP, Offset , Ovality etc.	100%	Specification / Drawings ASME Sec. VIII, Div. 1	Spec. / Drawings ASME Sec. VIII, Div.1	Approved Drawings / Specification	Inspection report	W	R	-	
		Sound metal after backchipping	100%	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	ASME Sec.V/sec VIII, Div. 1	Approved Drawings / Specification	Inspection report	W	R	-	
3.2	Assembly of nozzles	WEP, Dimensions, Completeness of assembly	100%	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Approved Drawings / Specification	Inspection report	W	R	-	
3.3	Inspection of completed welds	Visual inspection for reinforcement, undercuts, weld beads , surface defects etc. MPI & UT	100%	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Approved Drawings / Specification	Inspection Report	H	W	-	
3.4	RADIOGRAPHY EXAMINATION OF WELDS (As per approved drawings)	Soundness of full weld (Radiography as per code + all T joints)	As per drawing	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Approved Drawings / Specification	NDT reports Review of RT films	W	R	-	
4	INSPECTION OF TUBE BUNDLES										

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Quality Assurance Plan (ANNEXURE - II)

Equipment Type : Fixed Tube Heat Exchanger

Equipment Name : C3 - C4 OVERHEAD CONDENSER

Equipment No: 101 E 002

Design & Fabrication Code : ASME Sec. VIII DIV I /TEMA CLASS R

Work Order No:

Inspection by :

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Verifying Document	Scope of Inspection				Remarks
							Format of Report	Party	TPI	HOCL	
4.1	Tube sheet machining / drilling	Hole dia/PCD/Ligament/layout OTL/ steps/OD/thk/grooving/hole finish, Go and No Go check, No of holes, gasket seating face (AARH 125)	100%	Drawings/ Spec/TEMA	Drawings/ Spec/TEMA	Approved Drawings / Specification	Inspection report	W	W	-	
4.2	Baffling Inspection After Machining and drilling	Visual and dimensional inspection	100%	Drawings/ Spec/TEMA	Drawings/ Spec/TEMA	Approved Drawings / Specification	Inspection report	W	R	-	
4.3	Tube bundle skeleton Inspection	Visual and Dimensional inspection as per approved drawing	100%	Approved Drgs./ ASME Sec VIII Div.I	Approved Drgs./ ASME Sec VIII Div.1/ TEMA	Approved Drawings / Specification	Inspection report	H	W	-	
4.4	Inspection of tube to tube sheet joint expansion	% of expansion, Thinning	100%	Drawings/ Spec VIII- 1 /TEMA	Drawings/ Spec VIII - 1 /TEMA	Approved Drawings / Specification	Inspection report	W	R	-	
4.5	Inspection of tube bundle before insertion into the shell	Visual and Dimensional inspection as per approved drawing	100%	Drawings/ Spec/TEMA	Drawings/ Spec/TEMA	Approved Drawings / Specification	Inspection report	W	R	-	
4.6	Visual and Dimensional INSP. Shell/CH. Shell Assembly (Internals And Externals)	Dimensions, completeness of assembly, Nozzle Orientation	100%	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Specification / Drawings ASME Sec.V/sec VIII, Div. 1	Approved Drawings / Specification	Inspection report	W	W	-	
5	TESTING										
5.1	Soap Solution test for RF PADS at test pressure as per Appr. Drg	Leak checking	100%	Drawings/Spec. ASME Sec VII Div 1	Drawings/Spec. ASME Sec VII Div 1	Approved Drawings / Specification	Inspection report	W	R	-	

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Quality Assurance Plan (ANNEXURE - II)

Equipment Type : Fixed Tube Heat Exchanger

Equipment Name : C3 - C4 OVERHEAD CONDENSER

Equipment No: 101 E 002

Design & Fabrication Code : ASME Sec. VIII DIV I /TEMA CLASS R

Work Order No:

Inspection by :

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Verifying Document	Scope of Inspection				Remarks
							Format of Report	Party	TPI	HOCL	
5.2	Pneu. Leak test of tube to tube sheet joint expansion	Leak checking from TTS joint	100%	Drawings / Spec ASME Sec. VIII, Div - 1 Apprvd.	Drawings / Spec ASME Sec. VIII, Div -1 Apprvd. Procedure	Approved Drawings / Specification	Inspection report	W	R	-	
5.3	Hydrostatic test as per approved drawing - Shell side tube side	Leak check shell side / tube side	100%	Drawings / Spec ASME Sec. VIII, Div - 1 Apprvd. Procedure	Drawings / Spec ASME Sec. VIII, Div -1 Apprvd. Procedure	Approved Drawings / Specification	Hydro test report	H	H	-	Review of Pressure Gauge calibration certificate
5.4	Surface preparation / cleaning	Visual inspection for workmanship, Nozzle Orientation, Dimensional Check	100%	drawings / Specification / Applicable code Apprvd. Procedure	drawings / Specification / Applicable code Apprvd. Procedure	Approved Drawings / Specification	Inspection report	W	R	-	
5.5	Painting	Visual inspection And DFT measurement	100%	Drawings/Spec.	Drawings/Spec.	Approved Drawings / Specification	Inspection report	W	R	-	
6	FINAL INSPECTION										
6.3	Final stamping of equipment and marking etc.	Verifying stamping details	rub off stamping	drawings / Specification	drawings / Specification	Approved Drawings / Specification	Rub off Report	W	W	-	
6.4	Final inspection (pre- despatch)	Hard stamping, verification of packing list	100%	drawings / Specification	drawings / Specification	Approved Drawings / Specification	Inspection report	W	W	-	
6.5	Final inspection (TPI release note)	Issuance of IRN	100%	drawings / Specification	drawings / Specification	Approved Drawings / Specification	Inspection report	H	H	-	

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Quality Assurance Plan (ANNEXURE - II)

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Equipment Name : C3 - C4 OVERHEAD CONDENSER

Equipment No: 101 E 002

Design & Fabrication Code : ASME Sec. VIII DIV I /TEMA CLASS R

Work Order No:

Inspection by :

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Verifying Document	Scope of Inspection				Remarks
							Format of Report	Party	TPI	HOCL	
6.6	Documentation	Verification, compilation and indexing of : As built drawings, TPI / Inspection Release note, Material test certificate, NDE reports, Hydrostatic test report, Pneumatic test report, Final dimension report, WPS / PQR records and WPC, Rub off, NDE, Hydro and Pneumatic procedure, Certificate of completeness	100%	Drawings / Specification / (VDR)	Specification	Approved Drawings / Specification		W	R	-	

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