

(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 **Two Bid** system for the following work:

Sl. No.	Description of Item and Tender No.
1	Name of Work :SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004) HOCL Tender Ref : MEC30241

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)

BENO.P. KURIANS
DEPUTY 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

MEC30241

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 and Transportation of SS Cladded Shell and Dish End of Depropaniser Overhead Condenser E-2004**. 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),

BENO.P. KURIANS
DEPUTY GENERAL MANAGER (MECHANICAL)



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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: MEC30241

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

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. K.B. Noushad
DGM (Mechanical/ Utilities)
Mob: 9446355996



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

ANNEXURE-II

Tender Ref. No: MEC30241

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

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.

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. 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.
4. Information regarding tenderer as stipulated in Clause.1 (given in the next page).
5. Details of work of similar type and magnitude carried out by the tenderer as stipulated in Clause.3.
6. 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.
7. 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.
8. 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.
9. **Details of current commitments of Tenderer.**
10. **Exceptions and deviations, if any, with reference to the Clause No. and page No. of Tender shall be submitted as a separate statement (No Deviation Statement)**
11. A tentative programme for the execution and completion of work within the time specified.
12. **In the case of MSME, necessary certificate (self attested) shall be submitted in the Technical Bid.**
13. Any other technical information the Tenderer likes to furnish.
14. Tender should accompany the details asked in A, B,C, D, E , F & H



Clauses : (NOT APPLICABLE TO MSME)

1. Average annual financial turnover of the bidder during the last 03 years ending 31st March 2020 should be at least **₹1.8 Lakhs** (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 2020 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 **₹ 2.4 Lakhs each.**
 - OR
 - Two similar completed works costing not less than the amount equal to **₹ 3 Lakhs each.**
 - OR
 - One similar completed work costing not less than the amount equal to **4.8 Lakhs each.**

However, if the party is MSME, relaxation on the relevant clauses will be made as per rule/directives

EARNEST MONEY DEPOSIT

NIL - However, party has to submit a declaration under Annexure - H along with Tender, failing which the Tender will be rejected.

GOODS AND SERVICE TAX(GST):

Goods and Service Tax (GST), applicable shall be paid extra, to those who have GSTIN registration, unless otherwise specified elsewhere.

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

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



PERIOD OF CONTRACT

The period of the contract shall be **8 months** from the date of issue of work order/issue of instruction to start the work.

SCOPE OF SUPPLY

MATERIALS

a. HOCL's Scope

Nil.

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.

All the materials including steel plates required for shell, top / bottom /side dished end of the vessel, pipes and flanges required for nozzles, shell stiffening rings, structural supports / saddle support, cleats required for fixing ladder and platforms, etc., as per drawing / TPS shall be supplied by vendor.

Supply of painting material is in the scope of Vendor.

TOOLS AND TACKLES

a. Contractor's Scope

No work at HOCL, Kochi premises is envisaged.

b. HOCL's Scope

No work at HOCL, Kochi premises is envisaged.

TIME OF COMPLETION

The supply of the equipment at HOC site should be completed **within 6 months** from the date of work order / LOI.

SINCE THE WORK IS AN URGENT NATURE, NO EXTENSION OF DELIVERY PERIOD WILL BE PERMITTED. TENDER SHALL BE READY TO ADHERE THE DELIVERY PERIOD AT ANY CIRCUMSTANCES.



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% (Total Order Value) against material identification and certification by IIIrd party inspection agency and submission of Bank Guarantee for the said amount.
- 67%(Total Order Value) payment will be made on completion of the supply of the vessel at HOCL, Ambalamugal along with all documents like final inspection cum release note, test certificate data folder, as built drawing and CD.
- Balance 3% (Total Order Value) 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

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) **12/04/2021 at 02.00 PM.**

SINCE THE WORK IS AN URGENT NATURE, NO EXTENSION OF DUE DATE OF TENDER OR DELIVERY PERIOD WILL BE PERMITTED. TENDER SHALL BE READY TO ADHERE THE DELIVERY PERIOD AT ANY CIRCUMSTANCES.

OPENING OF BIDS: The Bids will be opened on **13/04/2021 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.



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

ANNEXURE-III

Tender Ref. No: MEC30241

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

SCOPE OF WORK

“TIME IS THE ESSENCE OF THIS CONTRACT”

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

1. Supply

Supply, Fabrication, testing and transportation of SS 316 clad (1mm thick) shell and dish ends of Depropaniser Overhead condenser E-2004 as per the attached drawings, Technical specifications etc.

The drawing given along with the Tender is a general arrangement drawing of the existing Shell and Dish End i.e. without SS cladding. However, the supplier has to supply the shell and dish end with 1mm thick SS 316 cladding.

Design Data

	Shell	Tube Side
Design Pressure, Kg/cm ² g	20	12
Design Temperature °C	80	65
Working Pressure	-	-
Working Temperature	-	-
Hyd.Test Pressure, Kg/cm ² g	30	18
Corrosion Allowance, mm	3	3
Radiography/Joint Efficiency	SPOT/0.85	SPOT/0.85
Heat Treatment	Dished Head Normalized	FL.HD assly only to be S.R.
Fluid	HCBN+H ₂ O	Cooling Water
Number of Passes	One	Four
Cladding	-	-
Insulation	-	-
Finish Required		
MOC	SA 516 Gr.70	SA 179
Design Code: ASME Sec VIII Div 1 TEMA CL R 1978		

Detailed Engineering



1. The scope of work includes procurement of materials, fabrication, testing and supply of the Depropaniser overhead condenser shell and dish end(E2004). Vendor shall supply the exchanger 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 E 2004 Shell and dish end 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 drawing. However the vendor shall submit the shell development and detailed drawing including the material list for review and approval by HOCL. (Other parts like tube bundle assembly or channel head are **NOT** covered in this scope of work)
2. Site visit for assessment of critical details / dimensions such as nozzle orientation, nozzle stand out (projection), nozzle flange rating and drilling dimensions, etc. if the party desires so. All nozzle connections on the equipment shall match the pairing nozzle flanges of the connected piping in existing system.
3. All Gasket faces should be serrated to 125Ra (As per B16.5 clause 6.3.4).
4. Procurement of all materials as per drawing including steel plates, dish end, structural, nozzle pipes & flanges, nozzle reinforcement and structural pad plates, structural supports, cleats for shell, Pipes and flanges required for nozzles, shell stiffening rings, external shell stiffeners, lifting lugs, saddle support, structural support cleats required etc.
5. Preparation and obtaining approval from IIIrd Party inspection agency of welding procedure specification (WPS), Procedure Qualification Records (PQR) and welder performance qualification (WPQ).
6. Documents including a detailed quality assurance plan (QAP) to be submitted immediately on receipt of firm work order for the approval of HOCL/III Party Inspection Agency.
7. Fabrication drawings shall be submitted for approval within 10 days from the receipt of work order. (Delay in submission of drawings / getting approval shall in no way relieve the vendor of his responsibility in meeting all the provisions of the enquiry conditions). However, the dimensions and thickness of the shell and dish ends need to be maintained.
8. All test certificates like material test certificates (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 at the time of delivery. The data folder should contain at least the following certificates:
 - a. Material test certificates (Mill test certificates)
 - b. Chemical Analysis Report
 - c. Dimensional Inspection Report
 - d. Visual inspection certificates for deformation of vessel after welding, finish of material / machined surface
 - e. Hydro test certificate



- f. NDT Test certificate
- g. Final Inspection cum release note
- h. WPS/WPQ for all welding, radiography report
- i. Stress relieving report with temperature time graph
- j. As-built drawing (6sets + 1 soft copy in Auto CAD –Editable format)

9. IIIrd Party Inspection is required for

- Material identification
- QAP & Delivery schedule, WPS, WPQ, PWHT, NDT Procedures, Radiography, Stress Relieving etc.
- Stage wise inspection during fabrication as per QAP
- Final Inspection during fabrication as per QAP.

Inspection and testing shall be carried out strictly to the requirements of codes stated in the specification by the IIIrd Party inspection agency. Third party inspector will be appointed by HOCL at their cost.

10. Fabrication of the exchanger SS 316 clad shell and dish end, pipes & flanges required for nozzles (N1 & N2), shell stiffening rings external shell stiffeners, lifting lugs, structural support / saddle support, cleats required etc. Post weld heat treatment of the fabricated equipment.
11. Cladding of the shell and dish end with 1mm SS 316 plate with electric fusion welding of similar method and in accordance with standard engineering practice. Supplier shall ensure and certify that the cladding is leak free. Cladding shall be smooth without any projections or dip, or hence, rough surfaces inside the shell and dish end. Cladding of the shell includes nozzle No.1 (shell inlet), nozzle No.2 (shell outlet also. However, other nozzles are excluded from cladding.
12. Mechanical fabrication and testing shall be as per ASME Sec VIII Div 1 / TEMA Class R (Latest edition).
13. Welding of cleats / brackets for the fixing of ladders and platforms (if any).
14. Post weld heat treatment of the fabricated equipment.
15. Radiography has to be done as per ASME Code.
16. Inspection and testing including hydro test.
- 17. WORK PLANNING CHART AND WEEKLY PROGRESS REPORT SHOULD BE SUBMITTED TO HOC WITHIN 5 DAYS IN THE EVENT OF GETTING ORDER.**
18. Transportation of the equipments to site. Transit insurance will be arranged by HOCL. Vendor shall inform the details prior to the dispatch for insurance purpose.
19. Supply and application of primer and finish paint as per section 6.



20. Any other items covered in other documents / drawings attached with the enquiry but not specifically mentioned above.

2. Submission of drawings & Documents

Vendor shall submit the following documents to HOCL.

1. Dimensioned general arrangement drawing of the exchanger shell shall be submitted. The party should submit the as-built drawing along with supply of exchanger shell. (6 sets + 1 set soft copy in Auto CAD editable format)
2. Dimensioned shell development drawing showing details of cladding, the circumferential & longitudinal weld seams, nozzle openings & RF pads and external shell stiffeners, ladder / platform support and insulation cleats etc.
3. Detailed QAP for procurement, Fabrication, inspection and supply shall be submitted for approval and weekly progress report should be submitted to HOCL without fail.
4. Welding procedure specification (WPS), Procedure Qualification Record (PQR) and Welder performance qualification (WPQ)
5. Material Test Certificates for brought-out items such as plates, nozzle pipe & flanges, fasteners, gaskets, etc.
6. NDT, Dimensional report and hydro test report.
7. Radiography report
8. Heat treatment procedure and stress relieving record.
9. Final "AS BUILT" drawings as mentioned above.

3. Materials

1. All the materials including steel plates required for shell, dished end, pipes and flanges required for nozzles, shell stiffening rings, structural supports / saddle support, cleats required for fixing ladder and platforms, etc., as per drawing shall be supplied by vendor.
2. Refer the attached drawing for the item-wise material of construction / bill of materials.
3. All nozzle fasteners shall confirm to ASTM A193 Gr.B7 and ASTM A194 Gr. 2H.
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.
5. Supply of painting material is in the scope of Vendor.



6. All gaskets shall be supplied as per the drawing attached.

4. Fabrication

1. Fabrication of the section shall be confirms to ASME Sec VIII Div.1 code / TEMA Class R.
2. The detailed drawing of the existing exchanger shell and dish end (without cladding) 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 they required. It is the responsibility of the vendor to submit the fabrication drawing of the equipment. The scope of the vendor shall include site visit for assessment of critical details / dimensions such as nozzle orientation, nozzle stand-out (projection), nozzle flange rating and drilling dimensions, etc. if the party desires so. All nozzle connections on the equipment shall match the pairing nozzle flanges of the connected piping. Vendor shall submit to HOCL the detailed general arrangement and shell development drawings.
3. Formed parts shall have minimum required thickness after forming as per the drawing. Plate thickness selection shall be done after consideration of thinning while forming.
4. Design and fabrication of the dummy covers (end closure) for shop hydro test is in the vendors scope.
5. This item is required one to one replacement of the shell and dish end of the existing exchanger and supplier has to take care of all nozzle orientation, stand out, padding etc. to avoid any mismatch at site during erection.

5. Testing & Inspections

1. IIIrd Party inspection is required for material identification. Approval of WPS / WPQ and PQR Radiography and NDTs as per QAP.
2. IIIrd Party shall carry out the inspection at various stages of fabrication / procurement, including raw material identification as per QAP.
3. Approval of review of drawings / specifications / QAP etc. by HOCL shall in no way relieve the vendor of his responsibility in meeting all the provisions of the enquiry conditions.
4. All root runs of butt-welds shall be back chipped and dye penetrant tested.
5. All weld joints shall be tested by MPI & UT Flaw check also.
6. All 'T' joints shall be radio graphed (covering a minimum of 100mm on each leg of the tee)
7. Final inspection and hydro testing shall be carried out at shop before dispatch and the same shall be got witnessed by IIIrd Party/HOCL.



6. Painting

1. Grit Blasting - Complete grit blasting of the equipment has to be done to the required finish as per SSPC-SP-5-63 and the same shall be certified by III party inspection.
2. Supply of painting materials & painting of the equipment and attached structural as per the detailed given in Technical Specification.
3. All un-machined CS (external) surfaces shall be shot / slag blasted to SA 2 ½ Standard and painted.
4. All machined surfaces to be coated with rust protecting coats.

7. General

1. Entire work shall be carried out in accordance with relevant standards and accepted codes of practices.
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.
3. All butt welds on the inner surface of the replaced section of the vessel shall be ground flush. Fillet welds shall be ground to smooth contour.
4. Cleats for structural shall not be welded directly to the vessel. Pad plates of the same material as the shell be provided for this purpose.
5. All necessary cleats and pad plates required for platforms and ladders and pipe support cleats are to be provided.
6. 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. All civil works and erection works are exempted from scope of work.
8. Mating flanges exempted from the scope of supply.

8. Transportation

1. The entire section of the vessel, davit arms etc. shall be transported to site in one piece.
2. All flanges and gasket faces should be covered with wooden plank before transportation.
3. Unloading of the equipments at HOCL site shall be carried out by HOCL at their cost.
4. Fasteners shall be properly marked, packed and supplied loose.
5. Transit Insurance will be arranged by HOCL at their cost. However party need to provide the dispatch details in advance to arrange the same.



9. Exclusions

Field Hydro test, 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 the site whichever is earlier.

11. Completion period

The supply of the equipment at HOC site should be completed within 2 months from the date of work order / LOI

12. 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 percentage) of the contract value per week for the delay or part thereof subject to a maximum of 5% (Five percentages) of the contract value.

13. Payment terms

- 30% (Total Order Value) against material identification and certification by third party inspection agency and submission of Bank Guarantee for the said amount.
- 67%(Total Order Value) payment will be made on completion of the supply of the vessel at HOCL, Ambalamugal along with all documents like final inspection cum release note, test certificate data folder, as built drawing and CD.
- Balance 3% (Total Order Value) payment will be made after completion of defect liability period or on production of PBG for the same amount.

14. Security Deposit

- Total security deposit shall be 3% of total contract value.
- 1% of order value of contract remitted 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.

15. 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.



TECHNICAL SPECIFICATION

General

These technical specifications shall be applicable for the work covered by this contract, over and above and without prejudice to the various codes of practices, standard specifications, etc., it being specifically understood that contractor shall carry out the work in all respects with the best quality of materials and workmanship, and in accordance with the best engineering practice and instructions of Engineer-in-Charge.

Wherever it is stated in the specification that a specific material is to be supplied or a specific work is to be done, it shall be deemed that the same shall be supplied or carried out by the contractor of his own cost.

Scope

Scope of work covered in the specification shall include without being limited to the following:

This specification defines the requirements for surface preparation, selection and application of paints, on equipment vessels, machinery, piping, ducts, tanks, steel structures, cable trays etc.

Codes and Standard

IS : 101 - Methods of test for ready mixed paints and enamels

IS : 2074 - Specifications for ready mixed paints, red oxide zinc chrome priming

IS : 2932 - Specification for enamel, synthetic exterior (a) undercoating (b) finishing

The paint manufacturer's instructions shall be followed as far as possible at all times. Particular attention shall be given to the following :

- a. Proper storage to avoid exposure, as well as extremes of temperature.
- b. Surface preparation prior to painting
- c. Mixing and thinning
- d. Application of paints and the recommended limit on time intervals between coats.

Any painting work including surface preparation on piping or equipment shall be commenced only after the system tests have been completed and clearance for taking up painting work is given by the IIIrd Party, who may, however, at his discretion authorize in writing for, the taking up of surface preparation or painting work in any specific location, even prior to completion of system test.

Paint Materials

Manufacturers shall furnish the characteristics of a paints indicating the suitability for the required service conditions. Primer and finish coats shall be of class quality and shall conform to the following:



Primer

Primer (P - 6) - Epoxy Zinc Phosphate Primer

Type	- Two pack.
Composition	- Polyamide cured epoxy resin medium pigmented with Zinc Phosphate
Volume solids	- 40% (min.)
DFT	- 35 microns/coat (min)
Covering capacity	- 11 - 12 M ² /Lit/coat

Finish Coats

Finish Coat (F - 6) - Epoxy Coating

Type	- Two pack.
Composition	- Polyamide cured epoxy resin medium suitably pigmented
Volume solids	- 60 - 65%
DFT	- 35 microns/coat (min)
Covering capacity	- 6 - 6.5 M ² /Lit/coat

Surface preparation and painting of equipment using epoxy paint systems. Surface preparation should be as per SSPC-SP-2-63

Painting System Requirement:

One coat of Zinc Phosphate Epoxy Primer (P - 6)

Two coats of Epoxy finish paint (F - 6)

DFT

a. Primer - (35 + 3) (1 Coat)

b. Finish - (35 + 3) (2 Coats)

Total DFT of all three coats - 105 μ (min)

Colour

Epoxy Grey

Note :

1. Covering capacity and DFT depends on method of application. Covering capacity specified above are theoretical. Allowing the losses during application, minimum specified DFT should be maintained.
2. All primers and finish coats should be cold cured and air drying unless otherwise specified.



3. All painting should be applied in accordance with manufacturer's instructions for surface preparation, intervals, curing and application. The surface preparation, quality and workmanship should be ensured.
4. Technical data sheets for all paints shall be supplied at the time of submission of quotations.

Manufacturers

The paints shall conform to the specifications given above and Class - I quality in their products, range of any of the following manufacturers:

- a. M/s. Asian Paints (India) Ltd:
- b. M/s. Bombay Paints
- c. M/s. Berger Paints India Ltd:
- d. M/s. Goodlass Nerolac Paints Ltd:
- e. M/s. Garware Paints
- f. M/s. Jenson & Nicholson
- g. M/s. Shalimar Paints

Inspection and Testing

All painting materials including primers and thinners shall be procured from reputed manufacturers as per specifications and shall be accompanied by manufacturer's test certificates.

The painting work shall be subject to inspection by IIIrd Party at all times. In particular, following stage inspection will be performed and contractor shall offer the work for inspection and approval at every stage before proceeding with next stage. The record of inspection shall be maintained. Stages of inspection are as follows:

- Surface preparation
- Primer application
- Each coat of paint

Any defect noticed during the various stages of inspection shall be rectified by the contractor to the entire satisfaction of IIIrd Party Inspection before proceeding further. Irrespective of the inspection, repair and approval at intermediate stages of work, contractor shall be responsible for making good any defects found during final inspection/guarantee period/defect liability period as defined in general condition of contract. Dry film thickness (DFT) shall be checked and recorded after application each coat.



Primer Application

After surface preparation, the primer should be worked by brush application to cover the corners, sharp edges etc. in the presence of IIIrd Party inspector nominated by HOCL.

The shades of successive coats should be slightly different in colour in order to ensure application of individual coats. The thickness of each coat and complete coverage should be checked as per provision of this specification. This should be approved by IIIrd Party inspector before application of successive coats.

Prior to application of paints on surfaces, the thickness of the individual coat shall be checked by application of each coat of same paint on test M.S.Panel. The thickness of paint on test panel shall be determined by using thickness gauge such as "Elkometer". The thickness of each coat shall be checked as per provision of this specification. This shall be approved by IIIrd Party before application of paints on the vessel surface.

Final inspection shall include measurement of paint dry film thickness, check of finish and workmanship. The thickness should be measured at as many points/locations as decided by IIIrd Party inspector and shall be within $\pm 10\%$ of the dry film thickness



Standard Specification for surface preparation

Surface preparation shall be done by one of the following methods in accordance with the SSPC specification:

No.	Specification	Subject	Purpose
1.	SSPC-SP-1-63	Solvent Cleaning	Removal of oil, grease, dirt, soil, salts and contaminants by cleaning with solvents, vapour, alkali, emulsion or steam
2.	SSPC-SP-2-63	Hand Tool Cleaning	Removal of loose rust, loose mill scale, and loose paint to degree specified, by hand chipping, scraping, sanding and wire brushing
3.	SSPC-SP-3-63	Power Tool Cleaning	Removal of loose rust, loose mill scale, and loose paint to degree specified, by power tool chipping, descaling, sanding, wire brushing and grinding.
4.	SSPC-SP-4-63	Flame Cleaning on New Steel	Dehydrating and removal of rust, loose mill scale, and some tight mill scale by use of flame, followed by wire brushing
5.	SSPC-SP-5-63	White Metal Blast Cleaning	Removal of all visible rust, mill scale, paint and foreign matter, by blast cleaning by wheel or nozzle (dry or wet) using sand, grit or shot. (for very corrosive atmosphere where high cost of cleaning is warranted)
6.	SSPC-SP-6-63	Commercial Blast Cleaning	Blast cleaning until at least two-thirds of each element of surface area is free of all visible residues (For rather severe conditions of exposure)
7.	SSPC-SP-7-63	Brush-off Blast Cleaning	Blast cleaning of all except tightly adhering residues of mill scale, rust and coatings, exposing numerous evenly distributed flecks of underlying metal.
8.	SSPC-SP-9-63T	Weathering Followed by Blast Cleaning	Weathering to remove all or part of mill scale followed by blast cleaning to one of the above standards.
9.	SSPC-SP-10-63T	Near White Blast Cleaning	Blast cleaning nearly to white metal cleanliness, until at least 95% of each element of surface area is free of all visible residues. (For high humidity, chemical atmosphere, marine or other corrosive environment.)

Other HOCL Details :

TIN : 32070430405

CST :0704C003040

ECC No: AAA CH 266 3PXM002

PAN No. AAACH 2663 P

CENTRAL EXCISE REGN. No. 2/ABL/97 dt. 02/04/1997



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

ANNEXURE-IV

Tender Ref. No: MEC30241

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

SPECIAL CONDITIONS OF CONTRACT

1. 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.
2. 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.
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. You have to put all efforts to complete the work in time. Also you have to deploy people on round the clock basis if situation warrants 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 HOC/3rd party inspection agency.
6. 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. 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.
9. The Contractor shall follow all clause in Annexure –A, B & C like ESI, Safety Regulations and General Conditions of Contract, Workmen Compensation, Personal Protective Equipment (PPE), Labor Laws, PF, Guidelines to contractors / suppliers for environmental protection & Confined Space Entry
10. Contractor shall ensure that a standby person is kept outside the man-way nozzle when the work is inside a confined space.
11. You are requested to visit the site to ascertain the exact quantum of work/site condition before submitting your offer if you desire so.



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

ANNEXURE-V

COMPLIANCE / NO-DEVIATION STATEMENT

Tender Ref. No: MEC30241

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

It is hereby stated that the quotation/offer submitted by us is in full compliance with 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 :



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

ANNEXURE-VI

**Name of Work : SUPPLY, FABRICATION, TESTING AND TRANSPORTATION OF SS 316 CLADDED
SHELL AND DISH END OF DEPROPANISER OVERHEAD CONDENSER (E-2004)**

CHECK LIST

DETAILS OF CURRENT COMMITMENTS (COPIES OF WORK ORDERS TO BE UPLOADED), ANNUAL FINANCIAL TURN OVER (DOCUMENTARY PROOF TO BE UPLOADED), DETAILS OF 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) (NOT APPLICABLE TO MSME)**

Financial Year:	Turnover:
2017 - '18	-
2018 - '19	-
2019 - '20	-



3. Organization chart as per Clause 6 of Pre-Qualification is uploaded **(Yes/No)**.
4. Details of Income Tax return submitted for the last 3 year (Copies to be to be signed, stamped, scanned and uploaded) **(Yes/No)**.
5. Scope of Work, General Terms and Conditions, Special Conditions of Contract, Drawing, (complete set of Tender Documents) to be signed and stamped on all pages, scanned and uploaded **(Yes/No)**.
6. Equipment/tools list is uploaded **(Yes/No)**.
7. Declaration statement as per Clause 10 of Pre-qualification is uploaded **(Yes/No)**.
8. **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)**
9. Annexure A - ESI, PF, LABOUR LAW ETC. – REQUIREMENTS - to be signed and stamped on all pages, scanned and uploaded. **(Yes/No)**.
10. Annexure - B - LABOUR LAWS – CHECK LIST - to be signed and stamped on all pages, scanned and uploaded **(Yes/No)**.
11. Annexure - C - SAFETY, HEALTH & ENVIRONMENT (SHE) CONDITIONS - to be signed and stamped on all pages, scanned and uploaded. **(Yes/No)**.
12. Annexure D - Proforma of Declaration of Black Listing/Holiday Listing - duly filled, signed and stamped, scanned and uploaded **(Yes/No)**.
13. Annexure E - Bidder Information - duly filled, signed and stamped, scanned and uploaded. **(Yes/No)**.
14. Annexure F - Self Declaration of Local Content - duly filled, signed and stamped, scanned and uploaded. **(Yes/No)**.
15. Annexure H - Bid Security Declaration - duly filled, signed and stamped, scanned and uploaded. **(Yes/No)**.

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

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :

ANNEXURE – H

BID SECURITY DECLARATION

ANNEXURE TO BE SUBMITTED ALONG WITH THE BID AGAINST TENDER

No. _____

I/We.....hereby declare that:

1. I will not revoke the tender within the stipulated period/ validity period OR increase the quoted rates.
2. I will commence the work on intimating to start the work/ on receipt of Letter of Indent.
3. I will not withdraw or amend the tender or impair or derogate from the tender in any respect within the period of validity of the tender.
4. I will furnish the required performance security within the specified period.

NAME AND ADDRESS OF THE BIDDER

PLACE:

DATE:

SIGNATURE AND STAMP OF THE BIDDER

ANNEXURE – A

ESI, PF, LABOUR LAW ETC. – REQUIREMENTS

1. ESI As per the ESI Act 1948

The Contractor shall enroll all his men deployed for the work in the ESI scheme. Registration for all workmen under ESI scheme is also to be complied with.

2. Safety Regulations and General Conditions of Contract

The Contractor should be strictly abide all the safety regulation of HOC specified in GCC. Contractor should obtain necessary safety work permit from authorised officer before starting the work every day, in every shift.

3. Workmen Compensation

It will be your responsibility to meet all claims for compensation under workmen's Compensation Act 1923. ESI or under any other law in respect of sickness, accidents injury or death suffered by workmen engaged by you for carrying out the work. It shall be the sole responsibility of the contractor to comply with Employee's State Insurance Act 1948. You will also be responsible and liable in respect of claims for damage to property or persons arising from or in the course of execution of the contract work undertaken by you. You hereby agree that you shall keep HOC fully indemnified in respect of claims under the Workmen Compensation Act and all other claims aforesaid and you shall not under any circumstances raise any dispute with regard to the same.

4. Personal Protective Equipments (PPE)

You are requested to use personal protective equipment such as

1. Safety Helmet
2. Safety belts
3. Welder's Personal Protective equipment like goggles, gloves, shoes and face shield

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.

It is the basic responsibility of the Contractor to provide all the safety gadgets (PPEs) as mentioned above to all their Supervisors/Workers.

And without these PPEs Contractor will not be allowed to carryout any job, which may please be noted.

5. Labour Laws & Provident Fund

You are requested to possess:

1. A License from the Labour Dept. under Contract Labour (Regulation and Abolition) Act 1970.
2. A separate PF Code under the Employee PF Act – 1952 and also furnish details of CPF Contribution payment made with the Regional PF Commissioner.

6. Guidelines to Contractors/Suppliers for Environmental Protection

- Contractors/suppliers shall ensure that impact due to the environmental aspects of goods and services is minimum.
- Effluent generated during the activity is to be routed to effluent treatment plant as per the instructions given by the Engineer-in-Charge.
- Hazardous waste generated during the activity is to be disposed in accordance with Hazardous Waste (Management & Handling) Rules as per the instructions given by the Engineer-in-Charge.
- All other solid wastes are to be disposed as per the instructions given by the Engineer-in-Charge.
- Avoid leaks and spills to minimise the impact on environment. In the case of any leaks/spills immediately inform Engineer-in-Charge to take appropriate corrective action.
- If the item handled falls under hazardous category, please ensure that:
 - a. Product literature including MSDS/TREM Card etc. accompany the consignment.
 - b. Packing and labeling are in accordance with the requirement of Manufacture, Storage & Import of Hazardous Chemicals Rules.

7. B. Confined Space Entry

If entry into a confined space (like inside entry to columns, heat exchanger shells, vessels, filters, spheres, bullets, boilers etc.) is a part of the work, contractor should register the name and other details in the register kept for the purpose each time. All safety regulation has to be adhered and permit to be obtained before entering into a confined space. Also after coming out from the confined space, the worker/supervisor has to report to the Engineer-in-Charge each time without fail. Any deviation in this register will not be permitted in any case.

ANNEXURE - B

LABOUR LAWS – CHECK LIST

1. Contract Labour (Regulation & Abolition) Act – 1970

Contractor should possess Labor License if he engages more than 19 workers at a time for a particular job.

2. ESI Act 1948

A worker whose wages (excluding Overtime Wage) does not exceed `15,000/- per month will be covered under the Act. Please note that workers can be allowed to work inside the Factory Premises / Township only after completing the following procedures:

- a. Those labourers already registered under ESI should submit their ESI card along with a copy.
- b. For new cases, the following documents are to be produced for registering under the Act:
 1. Registration form duly filled in by the worker concerned.
 2. Proof of identity – Address and Age (SSLC / Birth Certificate / Driving License / Passport, etc.)
 3. Family photograph – 2 Nos.
- c. For those workers whose wages is claimed to be more than `15,000/- per month should produce the following documents:
 1. An undertaking from his employer that his wage is more than `15,000/- per month and he is not required to be covered under ESI Act is to be submitted.
 2. A copy of the Personal Accident Policy showing that the worker is covered under the policy.

3. The EPF & MP Act – 1952

- a. The concerned worker has to file nomination form
- b. If already covered under the Act and Scheme, the related document to be submitted.

4. Interstate Migrant Workmen (Regulation of Employment and Conditions of Service) Act 1979

The contractor should possess License under this Act, if he engages 05 or more interstate migrant workmen on any day.

ANNEXURE - C

SAFETY, HEALTH & ENVIRONMENT (SHE) CONDITIONS

The following Safety, Health and Environment conditions shall apply to the Contractor those who are working at HOCL, Ambalamugal.

- Shall ensure the availability and suitability of qualified and experienced personnel at the site for effective and efficient SHE management.
- Shall ensure that the equipment, materials, consumables are in conformity with the requirements.
- Shall ensure that all equipments/scaffolding used are having adequate stability.
- Shall ensure that appropriate and adequate PPEs are provided and worn by the personnel involved.
- Shall ensure that safety signs are posted as appropriate to the activity/hazard as required.
- Shall ensure the removal of material from site, which do not conform to the requirements.
- Shall ensure no adverse impact on environment due to activities.
- Shall maintain proper close supervision over their employee's activities.
- Shall identify the hazards related to their nature of work being executed and develop methods to eliminate/control those hazards where required to prevent any unwanted incidents/accident.
- Shall educate/train the workers throughout the work and improve their SHE awareness.
- Shall ensure adequate hygiene, (i.e. cleanliness, environment free from dust and fume, proper lighting and drinking water to all worker employed by the contractor).
- Shall ensure regular controls are in place for the following by doing regular checks/inspections but not limited to the following:
 - Vehicles & equipments
 - Tools, equipments, lifting appliances
 - Safety equipments
 - Fire protection
- Shall at his own expenses from time to time and whenever required clear away and remove all rubbish/scrap/unwanted materials from its work area to designated area.
- Shall report all incidents/accidents occurring if any connected with the job. The Contractor shall prepare and submit an incident/accident report to OWNER's Safety Department.

ANNEXURE - D

PROFORMA OF DECLARATION OF BLACK LISTING/HOLIDAY LISTING

In the case of a Proprietary Concern:

I hereby declare that neither I in my personal name or in the name of my Proprietary concern M/s. _____ which is submitting neither the accompanying Bid/Tender nor any other concern in which I am proprietor nor any partnership firm in which I am involved as a Managing Partner have been placed on black list or holiday list declared by any Government Public Sector company (CPSU) or any of the administrative ministries, except as indicated below:

(Here give particulars of blacklisting or holiday listing, and in absence there of state "NIL")

In the case of a Partnership Firm:

We hereby declare that neither we, M/s. _____, submitting the accompanying Bid/Tender nor any partner involved in the management of the said firm either in his individual capacity or as proprietor or managing partner of any firm or concern have or has been placed on blacklist or holiday list declared by any Government Public Sector Company (CPSU) or any of the administrative ministries, except as indicated below:

(Here give particulars of blacklisting or holiday listing, and in absence there of state "NIL")

In the case of Company:

We hereby declare that we have not been placed on any holiday list or black list declared by any Government Pubic Sector Company (CPSU) or any of the administrative ministries, except as indicated below:

(Here give particulars of blacklisting or holiday listing, and in absence there of state "NIL")

It is understood that if this declaration is found to be false in any particular, Hindustan Organic Chemicals Limited or its Administrative Ministry, shall have the right to reject my/our bid, and if the bid has resulted in a contract, the contract is liable to be terminated.

PLACE:

DATE:

SIGNATURE OF THE BIDDER

अनुबंध “ क”

इएसआई,पीएफ श्रम कानून आदि - अपेक्षाएं

1.इएसआई अधिनियम 1948 के अनुसार इ एस आई

ठेकेदार काम के लिए तैनात अपने सभी कामगारों को इएसआई योजना के तहत नामित करेगा । इएसआई योजना के अधीन सभी कामगारों के लिए पंजीकरण का अनुपालन किया जाना है॥

2.संविदा की सुरक्षा विनियम और सामान्य शर्तें

ठेकेदार संविदा के सामान्य शर्तों में निर्धारित एचओसी के सभी सुरक्षा विनियमों का संख्ती से पालन करेगा । ठेकेदार को प्रतिदिन प्रतिशिफ्ट में काम शुरू करने के पहले प्राधिकृत अधिकारी से आवश्यक सुरक्षा कार्य परमिट प्राप्त करना चाहिए ।

3. कामगार क्षतिपूर्ति

कर्मचारी क्षतिपूर्ति अधिनियम 1923 के तहत क्षतिपूर्ति के लिए सभी दावों का वहन करना आपका दायित्व होगा । कार्य करने के लिए आपके द्वारा तैनात कामगार बीमारी,दुर्घटना,चोट या मृत्यु से पीडित होने में इ एस आई या अन्य किसी नियम के अधीन दायित्व आपका रहेगा । कर्मचारी राज्य बीमा अधिनियम 1948 का अनुपालन करना ठेकेदार का पूर्ण दायित्व होगा। आपके द्वारा लिए गए संविदा कार्य के निष्पादन के दौरान होनेवाले संपत्ति या व्यक्तियों के नुकसान हेतु दावे के लिए आप उत्तरदायी और ज़िम्मेदार रहेगा । आप एतद्वारा सहमत हैं कि आप कामगार क्षतिपूर्ति अधिनियम और उपर्युक्त अन्य सभी दावों के तहत एच ओ सी को पूर्ण रूप से मुक्त करेंगे और आप इस संबंध में किसी भी परिस्थिति में कोई तर्क नहीं उठाएगा ।

4.निजी सुरक्षा उपकरणों (पी पी ई)

आप से अनुरोध है कि निम्नलिखित निजी सुरक्षा उपकरणों का उपयोग करें

- 1.सेफ्टी हेलमेट
- 2.सेफ्टी बेल्ट
- 3.वेलडरों की निजी सुरक्षा उपकरणों जैसे गोग्लस ,ग्लौस ,शूप्स एण्ड फेस शील्ड
4. गोग्लस और फेस शील्ड

यह ठेकेदार का मूल दायित्व है कि वे अपने सभी पर्यवेक्षकों/कामगारों को ऊपर कहे गए सभी सुरक्षा उपकरणों (पी पी ई) प्रदान करें ।

यह भी कृपया नोट करें कि इन सुरक्षा उपकरणों के बिना ठेकेदार को कोई काम करने की अनुमति नहीं दी जाएगी ।

5.श्रम कानून एवं भविष्य निधि

आपसे अनुरोध है कि आपके साथ -

- 1.श्रम विभाग से संविदा श्रम (विनियम एवं उन्मूलन) अधिनियम 1970 के तहत एक लाइसेंस।
- 2.कर्मचारी भविष्यनिधि अधिनियम 1952 के अधीन एक अलग पी एफ कोड हो और क्षेत्रीय भविष्य निधि आयुक्त के साथ किए गए सीपीएफ अंशदान के भुगतान संबंधी विवरण भी प्रस्तुत करें ।

6 पर्यावरण संरक्षण के लिए ठेकेदारों/आपूर्तिकर्ताओं को दिशा - निर्देश :

* ठेकेदार/आपूर्तिकर्ता यह सुनिश्चित करें कि सामग्रियों और सेवाओं की वजह से पर्यावरण पहलुओं पर प्रभाव न्यूनतम हो |

* इस गतिविधि के दौरान सृजित एफ्लुवेन्ट को इंजीनियर प्रभावी द्वारा दिए गए अनुदेशों के अनुसार एफ्लुवेन्ट ट्रीटमेंट प्लांट से छोड़ दें।

* इस गतिविधि के दौरान सृजित जोखिम अवशिष्ट निपटान को प्रभारी इंजीनियर द्वारा दिए गए अनुदेशों के अनुसार जोखिम अवशिष्ट (प्रबंधन एवं उपयोग) नियमानुसार करना है |

* अन्य सभी ठोस अवशिष्टों को प्रभारी इंजीनियर द्वारा दिए गए अनुदेशों के अनुसार निपटाना है |

* पर्यावरण पर प्रभाव कम करने के लिए लीक एवं स्पिल से बचे | यदि कोई लीक / स्पिल हो तो सुधार कार्य करने के लिए प्रभारी इंजीनियर को तत्काल सूचित करें |

* यदि उपयोगित मद् जोखिम वर्ग में आता है तो यह सुनिश्चित करें कि :-

क) एम एस डी एस / ट्रेम कार्ड आदि सहित उत्पाद संबंधी विवरण सामग्री के साथ होना चाहिए |

ख) जोखिम रसायन नियमावली के निर्माण, भंडार एवं निर्यात की अपेक्षा के अनुसार पैकिंग और लेबलिंग होना चाहिए |

7. सीमित क्षेत्र प्रवेश

यदि काम के संबंध में सीमित क्षेत्र (जैसे कॉलम्स, हीट एक्सचेंजर, शेलस, वेसलस, फिल्टर्स, स्पीरिस, बुलेटस, बोइलर आदि) में प्रवेश करना है तो ठेकेदार को इस उद्देश्य के लिए रखे गए रजिस्टर पर नाम और अन्य विवरण प्रत्येक समय दर्ज करना चाहिए | सीमित क्षेत्र में प्रवेश करने के पहले सभी सुरक्षा विनियमों का पालन करना है और परमिट प्राप्त करना है | सीमित क्षेत्र से बाहर आते समय कामगार/ पर्यवेक्षक को प्रत्येक समय प्रभारी इंजीनियर को अवश्य रिपोर्ट करना है | किसी भी मामले में इस रजिस्टर से किसी प्रकार की विचलन की अनुमति नहीं दी जाएगी |

अनुबंध - 'ख'

विषय : श्रम कानून - जाँच सूची

1. संविदा श्रम (विनियम और उन्मूलन) अधिनियम -1970

प्रत्येक काम के लिए एक ही समय 19 से अधिक मजदूरों को लगाते समय ठेकेदार को श्रम लाइसेंस प्राप्त करना चाहिए।

2. कर्मचारी राज्य बीमा अधिनियम 1948

कामगार जिनका वेतन (समयोपरि भत्ता छोड़कर) प्रतिमाह 15000/- से अधिक न हो, इस अधिनियम के तहत आता है। कृपया ध्यान दें कि निम्नलिखित कार्यकलाप पूरा करने के बाद ही फैक्टरी परिसर/टाऊनशिप में कामगारों को काम करने की अनुमति दिया जाएगा।

क) इ एस आई के अधीन पहले ही पंजीकृत मजदूरों को इ एस आई कार्ड और उसकी एक प्रति प्रस्तुत करना चाहिए।

ख) नए मामले में, इस अधिनियम के अधीन पंजीकृत करने के लिए निम्नलिखित दस्तावेजों प्रस्तुत करना चाहिए।

1. संबंधित कामगार द्वारा यथाविधि भरे हुए पंजीकृत प्रपत्र।

2. पहचान के लिए प्रमाण - पता एवं आयु (एस एस एल सी, जन्म प्रमाण पत्र, ड्राइविंग लाइसेंस, पासपोर्ट आदि)।

3. परिवार के दो फोटो -

ग) ऐसे कामगार जिनका वेतन प्रतिमाह 15000/ से अधिक दावा दे रहे हैं, निम्नलिखित दस्तावेजों प्रस्तुत करनी चाहिए।

1. उनके नियोक्ता से यह वचनबंध प्रस्तुत करना है कि प्रतिमाह उनका वेतन रू. 15000/ से अधिक है और उन्हें इ एस आई अधिनियम के तहत शामिल करने की आवश्यकता नहीं है।

2. निजी दुर्घटना पॉलिसी की एक प्रति इसमें यह दर्शाता है कि कामगार इस पॉलिसी की सुरक्षा हैं।

3. इ पी एफ और एम पी अधिनियम 1952

क) संबंधित कामगार को नामांकन प्रपत्र फाईल करना है।

ख) यदि प्रस्तुत अधिनियम और योजना के तहत पहले ही नामित हो, तो संबंधित दस्तावेज प्रस्तुत करें।

4. अन्तर राज्य प्रवासी कामगार (रोजगार और सेवा शर्तों के विनियम) अधिनियम 1979

यदि ठेकेदार किसी भी दिन 05 या उससे अधिक अन्तर राज्य प्रवासी कामगार को काम के लिए लगाते हो तब उन्हें प्रस्तुत अधिनियम के तहत लाइसेंस प्राप्त करना चाहिए।

सुरक्षा, स्वास्थ्य एवं पर्यावरण (एस एच ई) की शर्तें

एच ओ सी एल, अंबलमुगल में काम करने वाले ठेकेदारों के लिए निम्नलिखित सुरक्षा, स्वास्थ्य एवं पर्यावरण शर्तें लागू होंगे।

1. सुरक्षा, स्वास्थ्य एवं पर्यावरण के प्रभावी एवं दक्ष प्रबंधन के लिए कार्यस्थल में योग्य एवं अनुभवी व्यक्तियों की उपलब्धता एवं उपयुक्तता सुनिश्चित करेंगे।
2. आवश्यकताओं के अनुरूप उपकरण, सामग्री और उपभोज्य सुनिश्चित करेंगे।
3. उपयोग किए जाने वाले सभी उपकरण / पाइ की सामग्रियों को पर्याप्त मजबूती / टिकाऊपन सुनिश्चित करेंगे।
4. यह सुनिश्चित करेंगे कि उचित एवं पर्याप्त पी पी ई प्रदान किए जाएंगे और संबंधित व्यक्तियों द्वारा पहने जाएंगे।
5. आवश्यकतानुसार कार्यकलाप/ जोखिम के उपयुक्त सुरक्षा चिहनों को लगाना सुनिश्चित करेंगे।
6. कार्यस्थल से ऐसे सामग्री जो आवश्यकता के अनुरूप नहीं हो, को हटाया जाना सुनिश्चित करेंगे।
7. यह सुनिश्चित करेंगे कि कार्यकलाप के कारण पर्यावरण में कोई प्रतिकूल प्रभाव न हो।
8. अपने कर्मचारियों की गतिविधियों पर उचित एवं सूक्ष्म पर्यवेक्षण सुनिश्चित करेंगे।
9. कार्यान्वित किए जा रहे कार्य की प्रकृति संबंधी दुर्घटनाओं का पहचान करेंगे और जहां अपेक्षित हो किसी प्रकार की घटनाओं / दुर्घटनाओं को रोकने के लिए ऐसी दुर्घटनाओं को दूर करने / नियंत्रित करने के उपाय विकसित करेंगे।
10. कर्मचारियों को कार्य के दौरान पर शिक्षित / प्रशिक्षित करना सुनिश्चित करेंगे और उनके एस एच ई जागरूकता में सुधार लाना भी सुनिश्चित करेंगे।
11. पर्याप्त स्वास्थ्य की व्यवस्था सुनिश्चित करेंगे (यानि सफाई, धूल एवं धूआं मुक्त पर्यावरण, उचित प्रकाश की व्यवस्था और ठेकेदार द्वारा काम के लिए नियुक्त सभी कर्मचारियों को पेय जल)
12. नियमित जांच / निरीक्षण करके निम्नलिखित के लिए नियमित नियंत्रण सुनिश्चित करेंगे लेकिन केवल निम्नलिखित के लिए सीमित नहीं करेंगे।
 - * वाहनों एवं उपकरणों
 - * टूल्स, उपकरण, लिफ्टिंग उपकरणों
 - * सुरक्षा उपकरणों
 - * आग संरक्षण
13. समय – समय पर और जब कभी आवश्यक हो, अपने व्यय पर कार्य स्थल से निर्दिष्ट क्षेत्र की ओर सभी कूड़े/ रद्दी/अनुपयोगी सामग्रियाँ निकाल देंगे और हटा देंगे।
14. प्रदत्त कार्य के संबंध में घटित होनेवाली सभी घटनाओं / दुर्घटनाओं यदि कोई हो तो, रिपोर्ट करेंगे। ठेकेदार घटना / दुर्घटना रिपोर्ट तैयार करके मालिक (ऑनेर्स) सेफ्टी विभाग में प्रस्तुत करेंगे।।

अनुबंध डी
काली सूची/अवकाश सूची की घोषणा संबंधी पत्र

स्वामित्व प्रतिष्ठान के संबंध में :-

मैं एतद्वारा घोषणा करता/ करती हूँ कि न तो मैं अपने नाम पर या मेरे स्वामित्व प्रतिष्ठान सर्वश्री के नाम पर जिसने संलग्न बोली /निविदा प्रस्तुत न कर रहे हैं या मेरे स्वामित्व में या किसी अन्य साझेदार कंपनी जिसमें मैं प्रबंध भागीदार के रूप में हो, वे नीचे सूचित को छोड़कर किसी केंद्रीय सरकारी सार्वजनिक कंपनी (सीपीएसयू) या किसी प्रशासनिक मंत्रालय द्वारा घोषित काली सूची या अवकाश सूची में न पड़े हैं। (यहाँ काली सूची या अवकाश सूची का विवरण दें , और उसके अभाव में शून्य सूचित करें)

साझेदार कंपनी के संबंध में

हम एतद्वारा घोषित करते /करती हैं कि न तो हम, सर्वश्री ने प्रस्तुत बोली/निविदा प्रस्तुत करता है या कंपनी से शामिल किसी भागीदार न उनके वैयक्तिक क्षमता या स्वामित्व के रूप में या किसी कंपनी/ कारोबार के प्रबंधन भागीदार के रूप में नीचे सूचित को छोड़कर किसी केंद्रीय सरकारी सार्वजनिक कंपनी (सीपीएसयू) या किसी प्रशासनिक मंत्रालय द्वारा घोषित काली सूची या अवकाश सूची में न पड़े हैं। (यहाँ काली सूची या अवकाश सूची का विवरण दें , और उसके अभाव में शून्य सूचित करें)

कंपनी के संबंध में

हम एतद्वारा घोषित करते/ करती हैं कि हमें नीचे सूचित को छोड़कर किसी केंद्रीय सरकारी सार्वजनिक कंपनी (सीपीएसयू) या किसी प्रशासनिक मंत्रालय द्वारा घोषित काली सूची या अवकाश सूची में न पड़े हैं। (यहाँ काली सूची या अवकाश सूची का विवरण दें , और उसके अभाव में शून्य सूचित करें)

यह समझता हूँ कि यदि इस घोषणा के किसी भी विवरण गलत हो जाने पर हिंदुस्तान ओर्गेनिक केमिकल्स लिमिटेड या इसके प्रशासनिक मंत्रालय को मेरा/हमारा बोली अस्वीकार करने का अधिकार है और यदि बोली ठेके के रूप में हो जाने पर , प्रस्तुत ठेका समाप्त करने का अधिकार है।

स्थान:

बोलीदाता का हस्ताक्षर :

तिथि:

यदि हिन्दी और अंग्रेज़ी पाठ में भिन्नता हो तो, अंग्रेज़ी पाठ प्रबल होगा।

In case of variation between Hindi and English version, English version will prevail

ANNEXURE - E

ANNEXURE TO BID AGAINST TENDER No: _____

(KINDLY FILL THIS SHEET AND SUBMIT IN -COMMERCIAL/TECHNICAL BID)

Name of Bidder:		
Sr. No.	Commercial Clauses	Bidder Confirmation (Please put v in front of your confirmation)
1	Whether bidder (a proprietary concern, Partnership Firm, Company) is currently on holiday list/black list/de-listed or has been put on holiday/blacklisted/de-listed at any PSU/govt. Organization. If so, give details.	<input type="checkbox"/> Yes, We are on holiday List/Black List/De-List <input type="checkbox"/> No
2	Whether the party is registered under Micro/Small/Medium Enterprises act 2006 (Please furnish the proof)	<input type="checkbox"/> Micro <input type="checkbox"/> Medium <input type="checkbox"/> Small <input type="checkbox"/> No
	ii Status of MSE Bidder	<input type="checkbox"/> Manufacturer <input type="checkbox"/> Services <input type="checkbox"/> Not Applicable
	iii Whether MSE bidder is offering product manufactured by him/her	<input type="checkbox"/> Yes <input type="checkbox"/> No
3	All MSE bidders shall register / declare their UAM Number on CPP Portal and copy of this registration / declaration shall be attached with the offer; failing which such bidders will not be able to enjoy benefits as per PP Policy for MSME order, 2012. <u>SSI/MSME/NSIC/UAM /DIC registration certificate</u>	<input type="checkbox"/> Mention UAM Number _____ <input type="checkbox"/> Not Applicable
	ii Submitted valid document against clause no 3 (i)	<input type="checkbox"/> Submitted <input type="checkbox"/> Not Applicable
4	Whether the proprietor of "MSME" enterprise is from SC/ST category (Please attach caste certificate issued by competent authority)	<input type="checkbox"/> Yes <input type="checkbox"/> No
	ii Whether the proprietor of "MSME" enterprise is woman (i.e. Woman proprietorship, or holding minimum 51% shares in case of Partnership/Private Limited Companies)	<input type="checkbox"/> Yes <input type="checkbox"/> No
	iii Submitted certificate against clause no 4 (ii)	<input type="checkbox"/> Submitted <input type="checkbox"/> Not Applicable
5	AGREED TO ALL TERMS AND CONDITIONS OF ENQUIRY: It is hereby stated that the quotation/offer submitted is in full compliance with 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. Non-acceptance or deviation to HOCL's standard terms and conditions mentioned in enquiry documents may lead to rejection of offer, no correspondence shall be done for clarifications	<input type="checkbox"/> Agreed <input type="checkbox"/> Not Agreed
DATE: _____ SIGN AND STAMP OF BIDDER		

ANNEXURE (F)

(For Purchase Order/ Work Order with estimated value more than FIVE Lakhs)

**ANNEXURE TO BE SUBMITTED ALONG WITH THE BID AGAINST TENDER
NO _____**

(KINDLY FILL AND SUBMIT ALONG WITH OMMERCIAL/TECHNICAL BID)

Name of the Bidder:		
Sr No.	Commercial Clauses	Bidder Confirmation(Please put \surd)
1	Please mention whether you are a Class-I/Class II Local supplier.(Please see the definition given below)	Class I <input type="checkbox"/> Class II <input type="checkbox"/>
2	Specify the percentage (%) of local content.	----- %
3	Details of location at which the local value addition is made	
4	Mention whether the product offered is manufactured in India under a license from a foreign who hold intellectual property rights and there is a technology collaboration agreement / Transfer of technology agreement.	Yes / No

SELF DECLARATION OF LOCAL CONTENT

We hereby declare that the percentage (%) of local content specified against mentioned against Sr.No.2 is _____%.

We also understand that submitting False self-declarations and auditors will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a Bidder or its successors can be debarred for up to Two Years as per the Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under Law.

DATE:

SGNATURE AND STAMP

Definitions

Local Content: - The amount of value added in India(Total value of item procured minus the value of imported content in the item(including all customs duties) as a proportion of total value, in percentage.

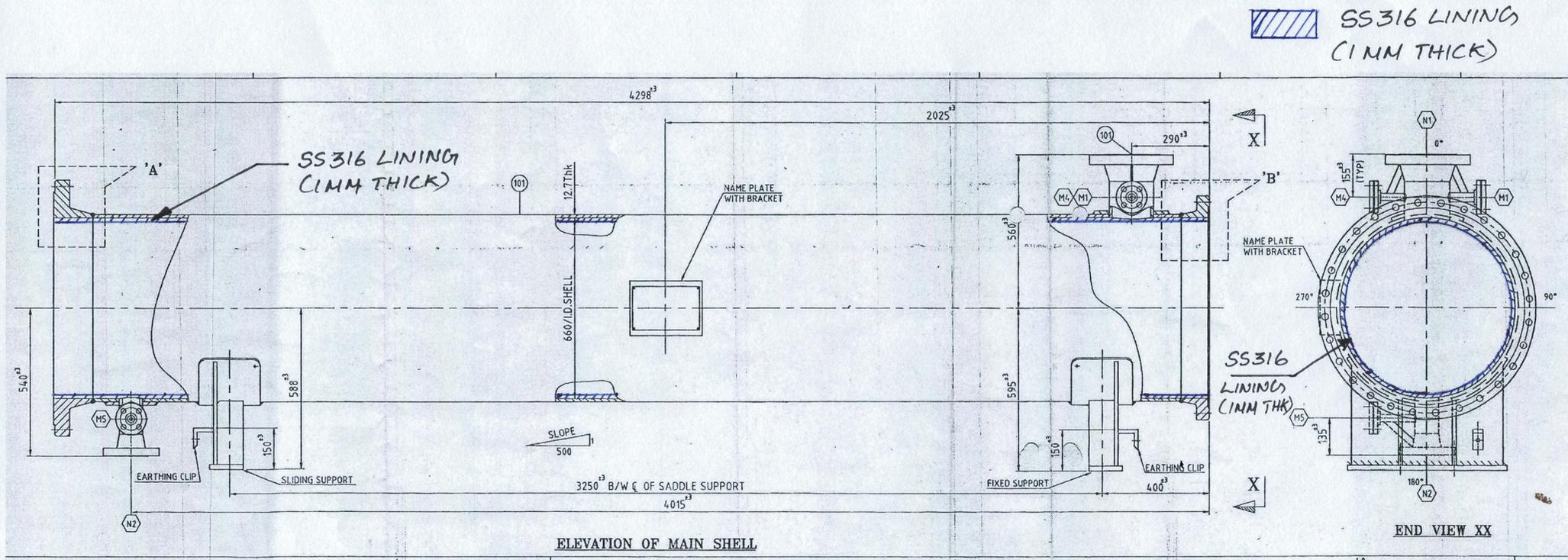
Class I Local Supplier: - Supplier or service provider whose goods AND services or works offered for procurement has local content equal to or more than 50%.

Class II Local Supplier: - Supplier or service provider whose goods AND services or works offered for procurement has local content more than 20% but less than 50 %.

Purchase Preference: -Will be as per the applicable Government order.

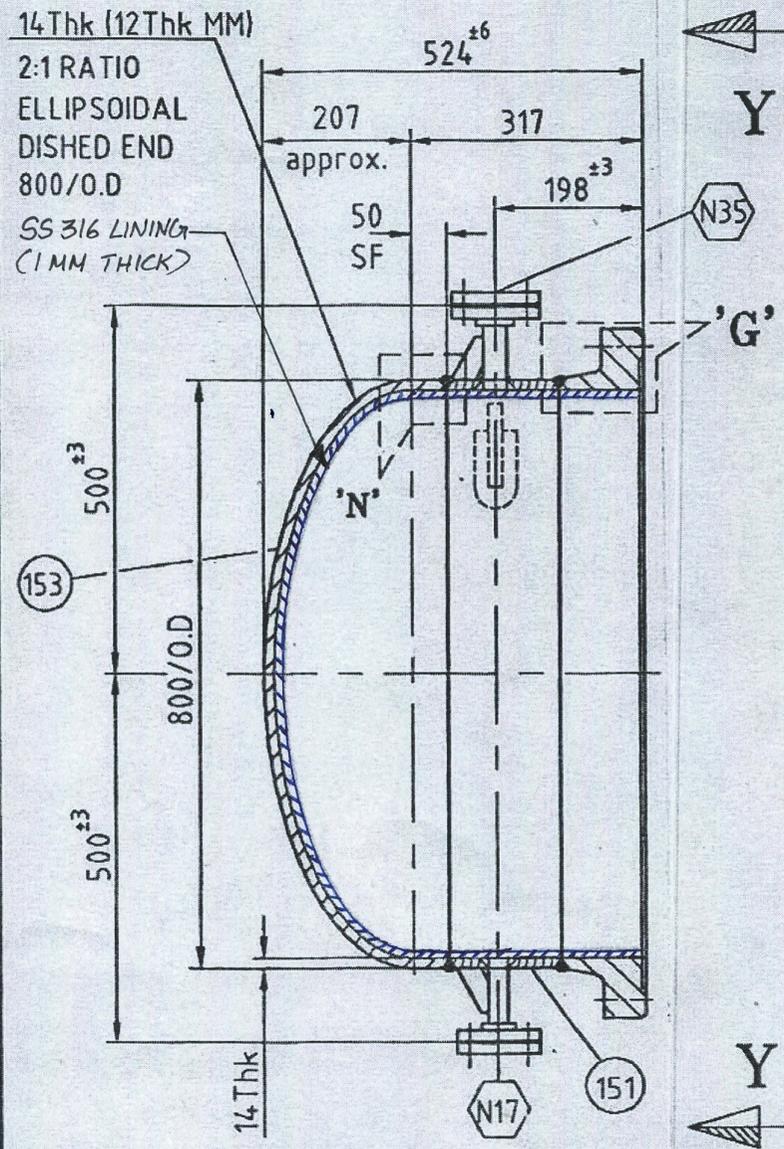
DATE:

SIGNATURE AND STAMP

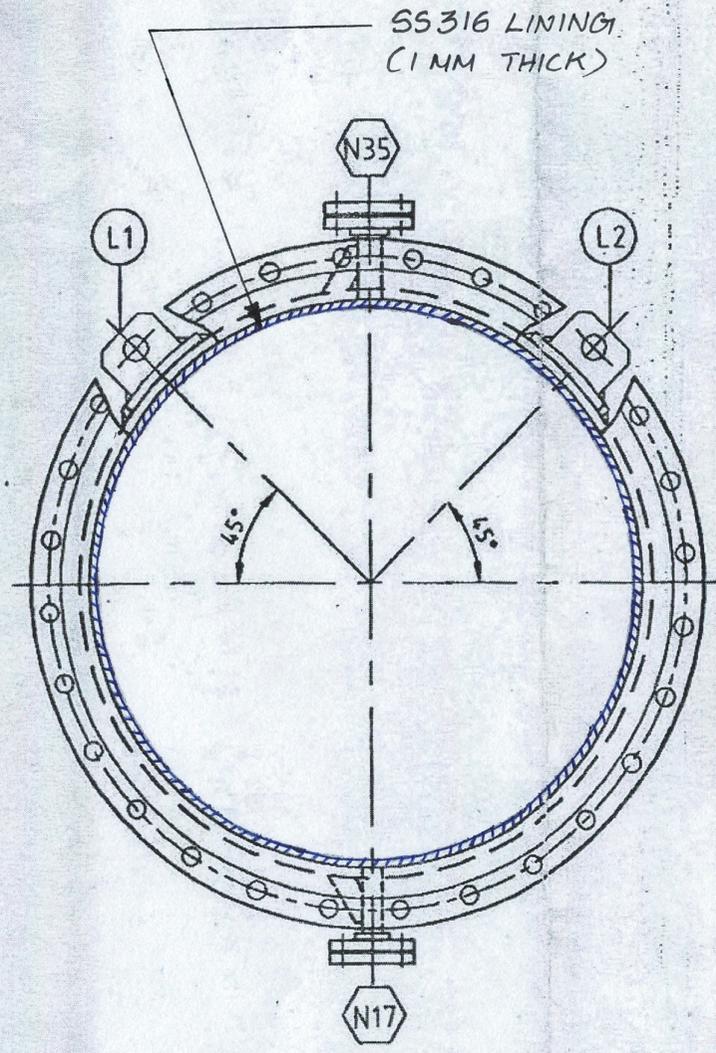


E-2004 DEPROPANISER OVERHEAD CONDENSER

14Thk (12Thk MM)
 2:1 RATIO
 ELLIPSOIDAL
 DISHED END
 800/O.D
 SS 316 LINING
 (1MM THICK)



SS 316 LINING
 (1MM THICK)



DETAIL OF COVER SHELL ASSEMBLY END VIEW - YY

ER004 - DEPROPANISER OVERHEAD CONDENSER

2/EI

Quality Assurance Plan

Equipment Type : Heat Exchanger Shell
Design & Fabrication Code : ASME Sec. VIII DIV I / TEMA
Inspection by IIIrd Party/ HOCL

Equipment No: E - 2004

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Scope of Inspection				Remarks
						Format of Report	Party	TPI	HOCL	
1	MATERIALS INSPECTION									
1.1	Pressure parts (Plates, forgings) (To be procured from reputed vendor) Inspection at Party's works	Visual and dimensional 100% Eddy current test for Ultrasonic test for sheet	100%	PO/ASME SEC.IIA. IIB/SEC VIII DIV-1 / TEMA-R / Approved Drawings / Manufacturer's test certificates Approved TPS / Spec.	PO/ASME SEC.IIA. IIB/SEC VIII DIV-1 / TEMA-R / Approved Drawings / Manufacturer's test certificates Approved TPS / Spec.	Material test certificate, NDT Reports, Dimensional Reports, Insp. Report	H	W		
		Co-relation of markings with test certificates.								
		Chemical and physical properties Transfer of identification marks, wherever required								
1.2	Bought out items (forgings, fittings) inspection at Party's works (To be procured from reputed vendor)	Chemical and physical properties	100%	ASME SEC.IIA / VIII Div.I / TEMA-R / PO / Spec / Drawings	ASME SEC.IIA / VIII Div.I / TEMA-R / PO / Spec / Drawings	Inspection report	W	R		
		Review of test certificates								
1.3	Fasteners and gaskets inspectin at Party's works (To be procured from reputed Mfgs.)	Chemical and physical properties	100%	ASME SEC.IIA / VIII Div.I / TEMA-R / PO / Spec / Drawings	ASME SEC.IIA / VIII Div.I / TEMA-R / PO / Spec / Drawings	Inspection report	W	R		
		Review of test certificates								

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)

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Scope of Inspection				Remarks	
						Format of Report	Party	TPI	HOCL		
1.4	Non pressure parts (including internals, supports, etc.) inspection at Party's works	Chemical and physical properties Review of test certificates Check test report Visual and dimensional check	100%	ASME SEC.IIA / IIB / VIII Div.I / TEMA-R / PO / Spec / Drawings	ASME SEC.IIA / IIB / VIII Div.I / TEMA-R / PO / Spec / Drawings	Inspection report	W	R			
2	INSPECTION OF FORMED COMPONENTS										
2.1	Dished ends	Visual and dimensional inspection, thickness check and Profile, ovality check	100%	Drawings / Spec.	Drawings / ASME Section VIII Div-I.	Inspection report	W	R			
		RT of weld seam	100%	Drawings / ASME Section VIII Div-I./ Spec.	Drawings / ASME Section VIII Div-I./ Spec.	RT Report	W	R			
		DP	On Knuckle portion and edge after forming (inside and outside)		Drawings / ASME Section VIII Div-I./ Spec.	Drawings / ASME Section VIII Div-I./ Spec.	Inspection report	W	R		
		HT chart review	100%	ASME Section VIII Div-I./ Spec.	ASME Section VIII Div-I./ Spec.	Inspection Report	W	R			
3	WELDING BOOK										
3.1	Weld map	Welding procedure	100%	ASME Sec IX / Spec.	ASME Sec IX / Spec.	WPS	W	R			
3.2	WPS/PQR/PQ	Welding parameters	100%	ASME Sec IX / Spec.	ASME Sec IX / Spec.	WPS / PQR	W	R			
3.3	Welding consumable	TC verification, chemical, mechanical properties	100%	ASME Sec II C	ASME Sec II C	Batch Certificate & test certificate	W	R			
3.4	Lining of shell, dish end and nozzle N1 & N2 with 1mm SS 316 plate	Lining procedure	100%	ASME Sec VIII part UCL / IX	ASME Sec IX / Spec.	WPS / PQR /100% UT / Leak proof testing report	W	R			

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

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Scope of Inspection				Remarks
						Format of Report	Party	TPI	HOCL	
4	INSPECTION DURING FABRICATION									
4.1	Weld edge preparation and set up of major pressure parts	Visual and dimensional inspection, marking, WEP, Offset, Ovality, etc.	100%	ASME Sec VIII / Div . 1 / Spec. / drawings	ASME Sec VIII / Div . 1 / Spec. / drawings	Inspection report	W	R	-	
		Sound metal after backchipping	100%			Inspection report	W	R		
4.2	Assembly of nozzles	WEP, Dimensions, completeness of assembly	100%	ASME Sec V / VIII - 1 / Spec. / drawings	ASME Sec V / VIII - 1 / Spec. / drawings	Inspection report	W	R	-	
4.3	Inspection of completed welds	Visual inspection for reinforcement, undercuts, surface defects etc. Weld bead, surface defects etc. MPI & UT	100%	ASME Sec VIII - 1 / ASME Sec V/ drawings / spec.	ASME Sec VIII - 1 / ASME Sec V/ drawings / spec.	Inspection report	W	R	-	
4.4	Radiography examination of welds (as per approved drawings)	Soundness of full weld (Radiography as per code / Drg. + all 'T' Joint)	As per drawing	Drawings / Spec./ ASME Sec VIII - 1 / V	Drawings / Spec./ ASME Sec VIII - 1 / V	NDT Report Review of RT films	W	Film review		

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)

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Scope of Inspection				Remarks
						Format of Report	Party	TPI	HOCL	
4.5	Visual and dimensional insp. Shell Assl. (internals and externals)	Dimensions, completeness of assembly	100%	Spec./ Drawings / ASME Sec VIII-1 / V	Spec./ Drawings / ASME Sec VIII-1 / V	Inspection Report	W	W		
5	TESTING									
5.1	Soap Solution test of RF PADS at test pressure as per approved drawing	Leak checking	100%	Spec./ Drawings / ASME Sec VIII-Div.I	Spec./ Drawings / ASME Sec VIII-Div.I	Inspection report	W	R		
5.2	Hydrostatic test as per approved drawing (shell side)	Leak check shell side / side	100%	Spec./ Drawings / ASME Sec VIII-Div.I Approved Procedure	Spec./ Drawings / ASME Sec VIII-Div.I Approved Procedure	Inspection report	W	W	W	
6	FINAL INSPECTION									
6.1	Surface preparation / cleaning	Visual inspection for workmanship	100%	drawings / Specification / Approved Procedure	drawings / Specification / Approved Procedure	Inspection report	W	R		
6.2	Painting	Visual inspection and DFT measurement	100%	drawings / Specification	drawings / Specification	Inspection report	W	R		
6.3	Spare item verification	Mandatory spare verified as per drawing	100%	drawings / Specification	drawings / Specification	Inspection report	W	R		
6.4	Final stamping of equipment and marking etc.	Verifying stamping details	Name plate and rub off stamping	drawings / Specification	drawings / Specification	Name plate/ rub off	W	W		
6.5	Final inspection (pre despatch)	Hard stamping, verification of packing list	100%	drawings / Specification	drawings / Specification	Inspection report	W	W		
6.6	Final inspection (TPI release note)	Issuance of IRN	100%	drawings / Specification	drawings / Specification	IRN	H	H		

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)

Activity Sl. No.	Inspection Activity & Component	Characteristics / Type of Check	Quantum of Check	Ref. Doc.	Acceptance Standards	Scope of Inspection				Remarks
						Format of Report	Party	TPI	HOCL	
6.7	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 WPQR, Rub off, NDE, Hydro and Pneumatic procedure, Certificate of completeness	100%	Drawings / Specification / (VDR)	Specification		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)