



This tender floated on NIC - CPP Portal is with Tender ID : 2024_HOCL_792401_2 dt. 20/11/2024 with due date 02/12//2024 at 02:00 PM and GeM Portal with GeM Bid No. GEM/2024/B/5627993 dt. 20/11/2024 with due date 10/12/2024 at 02.00PM

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

निविदा सूचना
TENDER NOTICE

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

Sl. No.	Description of Item and Tender No.
1	<p>कार्य का नाम : ऑफसाइट एरिया, टैंकेज, ईटीपी, इलेक्ट्रिकल और यूटिलिटीज में पाइपलाइनों संरचनाओं और उपकरणों की पेंटिंग - पुनः तैराना</p> <p>HOCL निविदा संदर्भ : MEC30378</p> <p>Name of Work : PAINTING OF PIPELINES, STRUCTURALS & EQPTS. IN OFFSITE AREA, TANKAGE, ETP, ELECTRICAL & UTILITES - REFLOAT</p> <p>HOCL Tender Ref : MEC30378</p>

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

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

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

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

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

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

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

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



Painting of Pipelines, Structural & Eqpts. in Offiste Area,
Tankage, ETP, Electrical & Utilites - Refloat
MEC30378

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

MEC30378

Dear Sir,

हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड भारत सरकार का उपक्रम है जो कोच्चि, केरल, भारत में अपने संयंत्र में फिनोल, एसीटोन और हाइड्रोजन पेरोक्साइड का निर्माण करता है। एचओसीएल ने ऑफसाइट एरिया, टैंकेज, ईटीपी, इलेक्ट्रिकल और यूटिलिटीज में पाइपलाइनो, संरचनाओं और उपकरणों की पेंटिंग - पुनः तैराना के लिए ई-निविदाएं आमंत्रित की हैं। एचओसीएल ने मैसर्स एनआईसी के साथ एक समझौता किया है। अपने पोर्टल <https://eprocure.gov.in/eprocure/app> के माध्यम से ई-खरीद के लिए। आप कृपया इस निविदा में भाग लेने के लिए एनआईसी के साथ एक विक्रेता के रूप में पंजीकृत हो सकते हैं।

Hindustan Organic Chemicals Limited is a Government of India Undertaking manufacturing Phenol, Acetone & Hydrogen Peroxide at its plant at Kochi, Kerala, India. HOCL invites e-tenders for **PAINTING OF PIPELINES, STRUCTURALS & EQPTS. IN OFFISTE AREA, TANKAGE, ETP, ELECTRICAL & UTILITES- REFLOAT**. HOCL has entered into an agreement with M/s. NIC for e-procurement through their portal <https://eprocure.gov.in/eprocure/app>. You may please get registered as a vendor with NIC for participating in this tender.

निविदा दस्तावेज एचओसीएल की वेबसाइट www.hoclkochi.com, <https://> बाजार और <https://eprocure.gov.in/eprocure/app> पर अपलोड किए जाते हैं।

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

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

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

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

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

धन्यवाद, Thanking you,

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

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



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ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

Contact Person (for online submission)

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

HOCL Work Co-ordinator

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



ANNEXURE-I

GENERAL TERMS AND CONDITIONS OF THE TENDER

EARNEST MONEY DEPOSIT - NOT APPLICABLE TO MSME / SSI Units /PSUs

Quotation shall accompany an EMD of ₹80,000/- shall be paid by crossed DD/Bankers Cheque/thro' NEFT/Bank Guarantee.

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

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

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

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

Pre-Qualification Criteria (to be included in the Technical Bid)

- Scope of Work, General Terms and Conditions (**Annexure I, II, III, IV, V, VI, A, B & C (complete set of Tender Documents)**) to be signed and stamped on all pages, scanned and uploaded.
- Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded.
- Bidder Information (**Annexure - E**) - put **v mark** in front of your confirmation, signed and stamped, scanned and uploaded.
- Self Declaration of Local Content (**Annexure F**) - duly filled, signed and stamped, scanned and uploaded.
- Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded.
- Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dt. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (**Annexure R**) - duly filled, signed and stamped, scanned and uploaded.



- Instructions to the contractors for use of vehicles (**Annexure - S**) - duly signed and stamped, scanned and uploaded.
- Scaffolding Checklist, Scaffolding Manual, Scaffolding parts and Erection Procedure (**Annexure - AC**) - duly signed and stamped, scanned and uploaded.

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

- Complete set of Tender Document duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
- 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.
- Earnest Money in the manner specified in the Tender document.
- Information regarding tenderer as stipulated in Clause.1 .
- 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.
- **In the case of MSME, necessary certificate (self attested) shall be submitted in the Technical Bid.**
- Details of current commitments with copies of Work Orders to be submitted.
- **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)**
- **Paint Data Sheet should be submitted along with Technical Bid.**
- **A Joint Guarantee Certificate has to be submitted to HOCL by the contractor and Paint Manufacturer in the event of an order for a period of two years.**
- A tentative programme for the execution and completion of work within the time specified.
- Any other technical information the Tenderer likes to furnish.
- Copies of work orders already completed or in progress
- Tender should accompany the details asked in A, B,C, D, E , F, H, Q, R, S & AC.
- Completion certificates
- GSTN registration

Clauses:

1. Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least **₹12 Lakhs**. (Details of annual financial turnover to be submitted with Documentary proof).



2. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:

Three similar completed works costing not less than the amount equal to **₹16 Lakhs.**

OR

Two similar completed works costing not less than the amount equal to **₹20 Lakhs.**

OR

One similar completed works costing not less than the amount equal to **₹32 Lakhs.**

3. The parties who have been blacklisted / put in holiday list or parties in respect of whom action has been initiated for Blacklisting / Holiday listing by HOCL/any government / Quasi government agencies or any PSUs shall not be considered for award of job. The tenderer should give a written declaration regarding the same.
4. In addition to Clause No.3.7 of our GCC, the tenderer who do not meet the basic requirements (technical / commercial) as per the tender enquiry document and any other important condition having significant bearing on the cost / utility / performance of the required goods, services etc. will be treated as unresponsive and the tender will be liable to rejection.

SECURITY DEPOSIT

Total security deposit shall be 5% of total contract value. This shall be recovered through deductions at the rate of 5% (Five percent) of the value of each running account bill till the total security deposit amount is collected, after which no further deductions shall be made on this account.

Security Deposit shall be refunded not later than 60 days to the contractor without any interest after the completion of contract in all respects and completion of all such obligations under the contract.

PERFORMANCE SECURITY

The performance security shall be 10% of the total value of the contract. It shall be furnished within 21 days after notification of award of work and it shall remain valid for a period of 60 days beyond the date of completion of all contractual obligations by the contractor. In case of contracts with defect liability period, it shall be released after the defect liability period.

Performance Security shall be furnished in the form of Account Payee Demand Draft/ Bank Guarantee issued from any Commercial Bank in India/ on online payment in an acceptable form.

LIQUIDATED DAMAGES

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

PERIOD OF CONTRACT

The period of the contract shall be one year from the date of issue of work order.



SCOPE OF SUPPLY

Materials

a. Contractor's Scope

Supply of all paints, (finish and primer), thinners, all consumables etc. for the satisfactory completion of work.

Arrangements of necessary storing facilities for the paints, consumables etc. will be arranged by the contractor.

Deploying manpower like supervisory staff, skilled, semiskilled and unskilled manpower etc. as per the scope of work will be arranged by the contractor.

b. HOCL's Scope

Nil.

Tools and Tackles

a. Contractor's Scope

Spray painting equipment with all accessories required for spray painting (if required), all tools, tackles, ladders, platform, brushes, steel scaffolding, DFT Meter etc. as per the scope of work has to be arranged by the contractor.

b. HOCL's Scope

Nil.

Water & Power

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

GENERAL SITE CLEANING

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

TIME OF COMPLETION

Time of completion shall be One Month from the time of instruction to start each area.

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

- All running account/final bill shall be certified by the Engineer in charge and 95% payment shall be made progressively as per our standard terms of payment.
- Balance 5% payment will be kept as security deposit and it will be released after the completion of contract in all respects & completion of all obligations under the contract.

CONTRACT PREFERENCE

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

DEFECT LIABILITY PERIOD

The contractor shall guarantee the entire work for a period of 12 months from the date of completion of entire works. 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

WE HAVE ALSO FLOATED TENDER IN GeM PORTAL. IF ANY PARTY QUOTED THROUGH GeM PORTAL AND BECAME L₁ COMPARED TO THE RATES IN NIC PORTAL, WORK WILL BE AWARDED TO THE GeM BIDDER AND VICE VERSA.

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.hockkochi.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.

AGREEMENT

THE CONTRACTOR HAS TO EXECUTE AN AGREEMENT WITH HOCL IN THE PRESCRIBED FORMAT ON A NON JUDICIAL STAMP PAPER OF ₹ 200/- IN CASE OF PLACEMENT OF WORK ORDER.

DUE DATE & TIME: Due date for submission of tender is (Closing date) **10/12/2024 at 02.00 PM.**

OPENING OF BIDS: The Bids will be opened on **11/12/2024 at 02.00 PM** electronically. Technically acceptable bidders will be informed about the date and time of opening of the price bids by emails.

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



SUBMISSION OF BIDS:

PRICE BID SUBMISSION-BOQ: Bidders are requested to note that they should necessarily **submit their financial bids in the format provided and no other format is acceptable.** If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. **Bidders are required to download the BOQ file, open it and complete the blue coloured (unprotected) cells with their respective financial quotes and other details** Refer Instructions to Bidder for Online Bid Submission. **(such as name of the bidder).** No other cells should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

RIGHT TO REJECT A BID: HOCL reserves the right to reject any bid due to reasons such as (a) Vendor not following above bidding procedures (b) Vendor not being technically acceptable to HOCL (c) Not enclosing EMD with the techno commercial bid or EMD paid being lesser than the stipulated amount (d) Vendor not agreeing with the general conditions of the tender. (e) Not enclosing any particular documents asked for (f) Any other valid reasons.

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



ANNEXURE-II

SCOPE OF WORK

Scope of work consists of surface preparation, supply of all kinds of paints such as Primers, Epoxies, etc. of required colours and specification and its application to our equipments like pipe lines, structural, Tanks, equipments, etc.

Work includes arrangements of necessary storing facilities for the paints, consumables etc. deploying man power like supervisory staff, skilled, semiskilled and unskilled workmen, erection of steel scaffolding at all elevations, providing all tools, tackles, ladders, platform, brushes etc. and other items that may be required to be arranged by the Contractor for the timely and adequate execution of work. Only steel scaffolding with base shall be used at work site, and in any case wooden scaffolding is not permitted. For spray painting all accessories to be provided by the Contractor.

Surface preparation of the items to be painted shall be in contractor's scope as per the specification and by using wire brushes, scrapers, and emery paper etc. In hazardous areas like LPG etc. non sparking tools like brass wire brush and brass scrapers should be used. After surface preparation, the area should be wiped off by cloths and it should get approved by the Engineer-in-Charge before the application of paint. Please note that no surface preparation should be started unless our site Engineer gives the clearance. In all the cases surface preparation should be as per SSPC – SP – 2 – 63 which is enclosed.

Contractor shall have to provide thickness measurement instrument with the required range for measuring DFT (Dry Film Thickness) of each coat. DFT of each coat of paint applied to be taken and accepted by the Engineer-in-Charge before the application of the next coat.

It is to be noted that, all the items required to be painted shall be subjected to the availability of site clearance permit from the concerned department. Surface preparation and painting work can be started only after getting the site clearance permit from the related departments.

The quantity shown in the area required to be painted are approximate only and it can vary based on the actual site condition of the painted surface of various equipments and availability of the clearance from the Departments. Also it may be noted that, for spray painting on gratings, only top full surface area will be considered for taking measurements (ie. Running square meter basis).

While bringing paints to the plant the paint containers should weighed at our weigh bridge and same may be available for inspection by the Engineer-in-Charge. The details of the weighed quantity and the copy of material declaration form have to be handed over to the Engineer-in-Charge for verification. Only after the verification of the Engineer-in-Charge the paints shall be brought to the contractor's store. Reconciliation statement of quantity of paint used with respect to spread rate and the actual area painted should be submitted by the Contractor for the various painting systems asked for. (The volume of solids of various painting system is given below). Bidders have to confirm the volume of solids of each painting system, which they have quoted before submitting the tender. Also test certificate of paints of various painting system indicating the volume of solids, should be submitted to the Engineer-in-Charge along with the supply of paints.

Application Areas

The area shown in the schedule of rates is only indicative and that the said areas may be changed and decided during the discussion/execution of the contract.

The following details also shall be included:

- All technical details like name of paints, technical data sheet, number of coats, DFT of each coat etc. of the paint proposed to be used by the party as per HOC's requirements.



- The certificate from paint manufacturer that they will be supplying the required paints as per HOC's requirements.

The following items shall not be painted unless otherwise specifically required:

1. Non ferrous surfaces and stainless steel
2. Glass, tile, or ceramic surfaces
3. Name plates and identification tags
4. Valve stems
5. Galvanized surfaces
6. Insulation covers
7. Plastics etc.
8. Underground/buried piping and equipment which are provided with special type of protective coatings
9. Surfaces/items which are excluded from painting due to specific reasons.

Technical Specification

1 General

- 1.1 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.
- 1.2 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.

2 Scope

- 2.1 Scope of work covered in the specification shall include without being limited to the following:
 - 2.1.1 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.

2.2 Extend of Works

2.2.1 The following surfaces and materials shall require painting

- a All steel structural and piping inside the plant area to our equipments like Tanks, pipelines & any other equipments etc. Spray painting of gratings of all areas using epoxy primer and Coal tar Epoxy finish.

3 CODES AND STANDARD

- IS : 101 - Methods of test for ready mixed paints and enamels
- IS : 161 - Heat resisting paints
- IS : 2074 - Specifications for ready mixed paints, red oxide zinc chrome priming
- IS : 2339 - Aluminium paint for general purposes individual container
- IS : 2379 - Colour code for identification pipe lines
- IS : 2932 - Specification for enamel, synthetic exterior (a) undercoating (b) finishing

- 3.1. 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.
- 3.2. 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 Engineer-in-Charge, who may, however, at his discretion authorise in writing for, the taking up of surface preparation or painting work in any specific location, even prior to completion of system test.

4 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:

4.1. Primer

4.1.2. 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

4.2. Finish Coats

4.2.1. 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

4.2.2. Finish Coat (F - 7) - Coal Tar Epoxy

Type	Two pack.
Composition	Polyamide cured epoxy resin blended with Coal Tar.
Volume solids	65% (min.)
DFT	90 microns/coat (min)
Covering capacity	6 - 6.5 M ² /Lit/coat



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

- 5.1. All paints and painting material shall be stored only in rooms to be provided by contractor and approved by Engineer-in-charge for the purpose. All necessary precautions shall be taken to prevent fire. The storage building shall preferably be separate from adjacent building. A sign board bearing the words "PAINT STORAGE - NO NAKED LIGHT - HIGHLY INFLAMMABLE" shall be clearly displayed outside.

5 Storage

6 Colour Code for Piping

- 6.1. For identification of pipelines, the colour code should be used as per the code given
- 6.2. The colour code scheme is intended for identification of the individual group of the pipe line. The system of colour coding consists of a ground colour and colour bands superimposed on it.
- 6.3. Colours as per the code shall be applied throughout the entire length for uninsulated pipes.

6.4. Identification Sign

- 6.4.1. Flow direction shall be indicated by an arrow in the location as directed by Engineer-in-Charge.
- 6.4.2. Colours of arrows shall be black or white and in contrast to the colour on which they are superimposed.

6.5. Colour Bands

- 6.5.1. As a rule width of colour band shall conform to the following tables. Banding shall be done by using synthetic enamel and the rate shall be inclusive of the same



Nominal Pipe Size	Width : L (mm)
3" NB and bellow	75
Over 3" NB upto 4" NB	Nominal Pipe size * × 25
Over 4" NB upto 12"OD	Nominal Pipe size * × 50/3
Over 14" OD & Over	Nominal Pipe size * × 15

6.6. Whenever it is required by the Engineer-in-Charge to indicate that a pipeline carries a hazardous material, a hazard marking of diagonal stripes of black and golden yellow as per IS : 2379 shall be painted on the ground colour.

7.1. **Inspection and Testing**

7.2. All painting materials including primers and thinners brought to site by contractor for application shall be procured from reputed manufacturers as per specifications and shall be accompanied by manufacturer's test certificates. In case such certificates are not available, Engineer-in-Charge may direct the contractor to have the materials tested in accordance with relevant specifications of owner/outside laboratories accepted by Engineer-in-Charge, and all costs there shall be borne by the contractor.

7.3. Engineer-in-Charge at his discretion, may call for additional tests in materials accompanied by manufacturers test certificates.

a The painting work shall be subject to inspection by Engineer-in-Charge 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:

b Surface preparation

c Primer application

Each coat of paint

7.4. Any defect noticed during the various stages of inspection shall be rectified by the contractor to the entire satisfaction of Engineer-in-Charge 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

7.5. After surface preparation, the primer should be worked by brush application to cover the crevices, corners, sharp edges etc. in the presence of inspector nominated by Engineer-in-Charge.

7.6. 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 Engineer-in-Charge before application of successive coats.



- 7.7. The contractor shall provide thickness measuring instrument (ELKOMETER) with appropriate ranges(s) for measuring dry film thickness of each coat.
- 7.8. 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 Engineer-in-Charge before application of paints on the surface of chimney.
- 7.9. At the discretion of Engineer-in-Charge, the paint manufacturer must provide the expert technical service at site as and when required. This service should be free of cost and without any obligation to the owner, as it would be in the interest of the manufacturer to ensure that both surface preparation and applications are carried out to their recommendations.

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 Engineer-in-Charge and shall be within $\pm 10\%$ of the dry film thickness.

8 Scheme for Colour Coding for Pipes - Phenol Plant

Sl.No.	Content	Existing Colour Code		
		Ground Colour	1 st Colour Band	2 nd Colour Band
1	All kinds of Water			
a	Drinking Water	Light Oplane Green	White	-
b	Demineralised Water	Light Oplane Green	Light Oplane Green	-
c	Cooling Water	Light Oplane Green	Dark Blue	-
d	Fire Water	Signal Red	Crimson Red	-
e	Boiler Feed Water	Signal Red	Golden Brown	-
f	Chilled Water	Dark Blue	Yellow	-
g	Process Water	Light Oplane Green	White	-
2	Steam			
a	High Pressure Steam	Silver Grey	Dark Blue	-
b	Medium Pressure Steam	Aluminium to IS 2339	Gulf Red	
c	Low Pressure Steam	Silver Grey	Brown	-
d	Saturated Steam	Aluminium to IS 2339	Canary Yellow	
3	Compressed Air			
a	Plant Air	Light Blue	Silver Grey	-



b	Instrument Air	Light Blue	Silver Grey	-
4	Gases			
b	Nitrogen	Golden Yellow	Black	-
c	Flare Gases	Golden Yellow	Signal Red	-
f	Propane	Canary Yellow	Signal Red	
g	Oxygen	Canary Yellow	White	
a	Propylene L.P (liquid)	Orange Grey	Dark Blue	-
b	Propylene C.G. (liquid)	Chocolate Brown	Golden Yellow	-

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-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

Joint Guarantee

You have to provide guarantee for two years for Performance and workmanship for which an amount of 3% of the total executed value will be withheld for a period of two years or shall be released against Bank Guarantee for an equivalent amount and period.

A JOINT GUARANTEE CERTIFICATE HAS TO BE SUBMITTED TO HOC BY THE CONTRACTOR AND PAINT MANUFACTURER IN THE EVENT OF AN ORDER FOR A PERIOD OF TWO YEARS.

Note:

1. Covering capacity and DFT depends on method of application. Covering capacity specified above is 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.**



ANNEXURE-III

SPECIAL CONDITIONS OF CONTRACT

1. 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.
2. 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.
3. 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.
4. All debris, waste etc. arising out of the job should be segregated weighed, transported and dumped into the scrap yard as per the instruction of Engineer-in-Charge at your cost. The contractor also has to abide by the guidelines for Environmental Protection.
5. 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.
6. Contractor has to mobilize the complete team with necessary tools and tackles within reasonable period from the time of intimation to start the work.
7. Either the contractor or his authorized supervisor shall be available at work site throughout the work.
8. The quantity shown can vary ie. Increase or decrease depending upon the situation. However, the rate and other terms and conditions shall be same throughout the pendency of the contract for which the contractor shall be ready.
9. 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.
10. The Contractor shall follow all clause in Annexure – A, B & C like ESI, Safety Regulations and General Conditions of Contract, Workmen Compensation, Personal Protective Equipments (PPE), Labor Laws, PF, Guidelines to contractors / suppliers for environmental protection & Confined Space Entry
11. Contractor shall get prior permission from the Engineer-in-Charge for bringing the material to HOC.



ANNEXURE- IV

COMPLIANCE / NO-DEVIATION STATEMENT

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

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

SEAL

Date :



ANNEXURE - V

COMPLIANCE OF GENERAL CONDITIONS OF CONTRACT (GCC)

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

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

SEAL

Date :



ANNEXURE- VI

CHECK LIST

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

EMD - ₹80,000/-

NOT APPLICABLE TO MSME / SSI Units /PSUs

Details of EMD enclosed: (YES/NO).

DD No. _____ Dated _____ Amounting to _____

Name of the Bank : _____

Pre-Qualification Criteria (to be included in the Technical Bid)

- Scope of Work, General Terms and Conditions (**Annexure I, II, III, IV, V, VI, A, B & C (complete set of Tender Documents)**) to be signed and stamped on all pages, scanned and uploaded.
- Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded.
- Bidder Information (**Annexure - E**) - put **v mark** in front of your confirmation, signed and stamped, scanned and uploaded.
- Self-Declaration of Local Content (Annexure F) - duly filled, signed and stamped, scanned and uploaded.
- Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded.
- Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dt. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (**Annexure R**) - duly filled, signed and stamped, scanned and uploaded.
- Instructions to the contractors for use of vehicles (**Annexure - S**) - duly signed and stamped, scanned and uploaded.
- Scaffolding Checklist, Scaffolding Manual, Scaffolding parts and Erection Procedure (**Annexure - AC**) - duly signed and stamped, scanned and uploaded.
- Complete set of Tender Document duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
- 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.
- Earnest Money in the manner specified in the Tender document.
- Information regarding tenderer as stipulated in Clause.1 .
- 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.



- **In the case of MSME, necessary certificate (self-attested) shall be submitted in the Technical Bid.**
- Details of current commitments with copies of Work Orders to be submitted.
- **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)**
- **Paint Data Sheet should be submitted along with Technical Bid.**
- **A Joint Guarantee Certificate has to be submitted to HOCL by the contractor and Paint Manufacturer in the event of an order for a period of two years.**
- A tentative programme for the execution and completion of work within the time specified.
- Any other technical information the Tenderer likes to furnish.
- Copies of work orders already completed or in progress
- Tender should accompany the details asked in A, B,C, D, E , F, H, Q, R, S & AC.
- Completion certificates
- GSTN registration

Clause

1. Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least **₹12 Lakhs**. (Details of annual financial turnover to be submitted with Documentary proof).
2. Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following:

Three similar completed works costing not less than the amount equal to **₹16 Lakhs**.
OR
Two similar completed works costing not less than the amount equal to **₹20 Lakhs**.
OR
One similar completed works costing not less than the amount equal to **₹32 Lakhs**.
3. The parties who have been blacklisted / put in holiday list or parties in respect of whom action has been initiated for Blacklisting / Holiday listing by HOCL/any government / Quasi government agencies or any PSUs shall not be considered for award of job. The tenderer should give a written declaration regarding the same.
4. In addition to Clause No.3.7 of our GCC, the tenderer who do not meet the basic requirements (technical / commercial) as per the tender enquiry document and any other important condition having significant bearing on the cost / utility / performance of the required goods, services etc. will be treated as unresponsive and the tender will be liable to rejection.

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :