



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

**OPEN E- TENDER NOTICE**

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

| Sl. No. | Description of Item and Tender No.   |
|---------|--|
| 1       | <b>PAINING OF PIPELINE &amp; STRUTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS</b><br><br><b>HOCL Tender Ref : MEC30179/2516</b> |

Tender documents may be downloaded from [www.hoclkochi.com](http://www.hoclkochi.com) or [www.eprocure.gov.in](http://www.eprocure.gov.in).

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

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

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

L. SHANIL LAL  
GENERAL MANAGER (MECHANICAL)



**HINDUSTAN ORGANIC CHEMICALS LIMITED**  
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AMBALAMUGAL, Ernakulam District, PIN – 682 032.  
Phone: (0484) 2720911, FAX No. (0484) 2720893

**MEC30179/2516**

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 **PAINTING OF PIPELINE & STRUCTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS**. 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](http://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/submitted your tender.**

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

Thanking you,

Yours Faithfully,

For Hindustan Organic Chemicals Limited (CIN: L99999MH1960GOIO11895),

L. SHANIL LAL  
GENERAL MANAGER (MECHANICAL)

## INDEX

LIMITED TENDER NOTICE FOR PAINTING OF PIPELINE & STRUTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS

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**HINDUSTAN ORGANIC CHEMICALS LIMITED**

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

**Tender Ref. No: MEC30179/2516**

**Name of Work : PAINTING OF PIPELINE & STRUTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS**

**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 BIDS**

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

**Note:** My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

## **SUBMISSION OF BIDS**

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

#### **ASSISTANCE TO BIDDERS**

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

#### **Contact Person (National Informatics Centre)**

**Mr.Midhun Babu**  
**Co-ordinator(NIC-HOCL)**  
**Mob: 8921387812, 8547196394,**

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

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

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**Name of Work : PAINTING OF PIPELINE & STRUCTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS**

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

**SCOPE OF WORK**

Scope of work consists of surface preparation, supply of all kinds of paints such as Primers, Epoxies, Heat Resistant Aluminium Paints, Epoxy based Polyurethane, etc. of required colours and specification and its application to our equipments like Bullets, Heater, Stack, pipe lines, structural, 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 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 actuals 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 Equipment at the MRS, N2 and H2 bullets, piping and structural of LPG area, shell plates, stack and structural of Hot Oil Heater and Boiler. 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. <b>Primer (P - 6) - Epoxy Zinc Phosphate Primer</b>  |                   |  |
|---|-------------------|--|
|   | 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 <sup>2</sup> /Lit/coat                                 |
| 4.1.4. <b>Primer (P - 9) - Epoxy based tie coat (suitable for conventional alkyd based coating - prior to application of acrylic polyurethane/epoxy finishing coat)</b> |                   |  |
|   | Type              | Two pack.  |
|   | Composition       | Poly amide cured epoxy resin medium suitably pigmented.          |
|   | Volume solids     | 50 - 60%   |
|   | DFT               | 30 microns/coat (min)  |
|   | Covering capacity | 10 - 12 M <sup>2</sup> /Lit/coat                                 |

|               |  |  |
|---------------|--|--|
| <b>4.2.</b>   | <b>Finish Coats</b>  |  |
| <b>4.2.2.</b> | <b>Finish Coat (F - 2) - Acrylic Polyurethane Paint</b>                            |  |
|               | Type   | Two pack.  |
|               | Composition  | Acrylic resin and isocyanate hardener suitably pigmented             |
|               | Volume solids  | 40% (min)  |
|               | DFT  | 30 - 40 microns/coat (min)   |
|               | Covering capacity  | 10 - 12 M <sup>2</sup> /Lit/coat                                     |
| <b>4.2.4.</b> | <b>Finish Coat (F - 11) - Heat Resistant Aluminium Paint suitable up to 548° C</b> |  |
|               | Type   | Heat resistant special varnish medium combined with Aluminium flakes |
|               | Composition  | Dual container (paste & medium).                                     |
|               | Volume solids  | 20 - 25% (min.)  |
|               | DFT  | 20 microns/coat (min)  |
|               | Covering capacity  | 10 - 12 M <sup>2</sup> /Lit/coat                                     |
| <b>4.2.5.</b> | <b>Finish Coat (F - 6) - Epoxy High Build Coating</b>                              |  |
|               | Type   | Two pack.  |
|               | Composition  | Polyamide cured epoxy resin medium suitably pigmented                |
|               | Volume solids  | 60 - 65%   |
|               | DFT  | 100 microns/coat (min)   |
|               | Covering capacity  | 6 - 6.5 M <sup>2</sup> /Lit/coat                                     |
| <b>4.2.6.</b> | <b>Finish Coat (F - 7) - Coal Tar Epoxy</b>  |  |
|               | Type   | Two pack.  |
|               | Composition  | Polyamide cured epoxy resin blended with Coal Tar.                   |
|               | Volume solids  | 65% (min.)   |
|               | DFT  | 90 - 100 microns/coat (min)  |
|               | Covering capacity  | 6 - 6.5 M <sup>2</sup> /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 manufacturers 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. Asian Paints (India) Ltd:
- b. Bombay Paints
- c. Berger Paints India Ltd:
- d. Goodlass Nerolac Paints Ltd:
- e. Garware Paints
- f. Jenson & Nicholson
- g. Shalimar Paints

## 5 Storage

- 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.

## 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 below       | 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 <sup>st</sup> Colour Band | 2 <sup>nd</sup> Colour Band |
| <b>1</b> | <b>All kinds of Water</b> |                      |                             |                             |
| 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                       | -                           |
| <b>2</b> | <b>Steam</b>              |                      |                             |                             |
| 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               |                             |
| <b>3</b> | <b>Compressed Air</b>     |                      |                             |                             |
| a        | Plant Air                 | Light Blue           | Silver Grey                 | -                           |

|          |                         |                 |               |   |
|----------|-------------------------|-----------------|---------------|---|
| b        | Instrument Air          | Light Blue      | Silver Grey   | - |
| <b>4</b> | <b>Gases</b>            |                 |               |   |
| 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:

| <b>No.</b> | <b>Specification</b> | <b>Subject</b>     | <b>Purpose</b>  |
|------------|----------------------|--------------------|---|
| 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 |

**HINDUSTAN ORGANIC CHEMICALS LIMITED**

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

**Tender Ref. No: MEC30179/2516**

**Name of Work : PAINTING OF PIPELINE & STRUTURALS OF H<sub>2</sub>, N<sub>2</sub>, PROPYLENE BULLETS AREAS, LPG AREAS, BOILER, HOT OIL AND MRS AREAS**

**GENERAL TERMS AND CONDITIONS OF THE TENDER**

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

**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.hockkochi.com](http://www.hockkochi.com) and the same has to be returned along with the technical bid duly signed and stamped in all pages.
3. **Earnest Money in the manner specified in the Tender document.**
4. Power of Attorney or Photostat copy or a true copy' thereof duly attested by a Gazetted Officer in case an authorised representative has signed the Tender.
5. Information regarding tenderer as stipulated in Clause.1 (given in the next page).
6. Details of work of similar type and magnitude carried out by the tenderer as stipulated in Clause.3.
7. Organization chart giving details of field management at SITE, the tenderer proposes to have for this WORK including bio-data of the Site-in Charge and key personnel.
8. The bidder should have well qualified workforce in adequate numbers for handling various stages of the work. The staff/workers details are to be furnished.
9. The bidder should have adequate number of equipments/tools/tackles/scaffolding pipe/clamps/ staging materials in sound condition for the execution of the work within the stipulated time. The equipment details should be furnished.

10. **Details of concurrent commitments of Tenderer.**
11. **Exceptions and deviations, if any, with reference to the Clause No. and page No. of Tender shall be submitted as a separate statement (Deviation Statement)**
12. A tentative programme for the execution and completion of work within the time specified.
13. Any other technical information the Tenderer likes to furnish.

**Clauses :**

1. Average annual financial turnover of the bidder during the last 03 years ending 31<sup>st</sup> March 2018 should be at least **₹9.3 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 31<sup>st</sup> March 2018 should be either of the following: (Documentary proof should be attached along with the Technical Bid).
  - Three similar completed works costing not less than the amount equal to **₹12.4 Lakhs each.**
  - OR
  - Two similar completed works costing lot less than the amount equal to **₹15.5 Lakhs each.**
  - OR
  - One similar completed work costing not less than the amount equal to **24.81 Lakhs each.**

**EARNEST MONEY DEPOSIT**

Quotation shall accompany an EMD of **₹15,500/-** shall be paid by crossed DD/Bankers Cheque. Details of bank transfer should be indicated in your technical offer. Quotations not accompanied with EMD, are liable to be rejected.

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

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

**COST OF TENDER DOCUMENTS**

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

## **RATES**

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

## **SECURITY DEPOSIT**

- Total security deposit shall be 10% of contract value/actual value of work.
- Initial security deposit @ 2.5% of the contract value shall be remitted with HOCL, Kochi within 21 days from the date of receipt of Work Order.
- Balance 7.5% will be recovered from the 1st and subsequent running bills/final bill against security deposit at a rate of 10% of the value of each running bill till the total security deposit is collected.

## **LIQUIDATED DAMAGES**

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

## **PERIOD OF CONTRACT**

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

## **SCOPE OF SUPPLY**

### **MATERIALS**

#### **a. 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.

### **TIME OF COMPLETION**

Time of completion shall be **ONE MONTH** from the time of instruction to start the work.

## **VALIDITY OF THE TENDER**

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

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

## **PRICE**

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

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

## **PAYMENT TERMS**

- 90% payment will be released after completion of work and certification by Engineer-In-Charge on running bill basis.
- Balance 10% payment will be made after defect liability period of one year or on production of PBG for the said amount.

## **CONTRACT PREFERENCE**

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

## **DEFECT LIABILITY PERIOD**

As per GCC.

## **OTHER TERMS AND CONDITIONS**

## **AGREEMENT**

The contractor has to execute an agreement with HOCL in the prescribed format on a non judicial stamp paper of appropriate value and in case of placement of work order.

## **GENERAL CONDITIONS OF CONTRACT (GCC) OF HOCL**

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

### **RIGHT TO ISSUE ADDENDUM**

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

**DUE DATE & TIME:** Due date for submission of tender is (Closing date) 20/04/2019 at 02.00 PM.

**OPENING OF BIDS:** The Technical Bids will be opened on 22/04/2019 at 02.00 PM electronically. Technically acceptable bidders will be informed about the date and time of opening of the price bids by emails.

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

**SUBMISSION OF BIDS:** Refer Annexure I.

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

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

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

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

**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. **A list of tools and tackles intended to be brought for the work by the contractor has to be kept along with the bid.**
2. Spiral wound Gaskets, bolts, nuts, fasteners required for the work will be supplied by HOCL free of cost as per requirement. But HOC will issue only the gasket sheets for initial blinding. It has to be cut to the correct size by the contractor at his cost.
3. 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.
4. 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.
5. This work is a shutdown activity and you have to put all efforts to complete the work in time. Also you have to deploy people on round the clock basis if situation warrants as per the instruction of Engineer-in-Charge.
6. 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.
7. 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.
8. 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.
9. Contractor has to mobilise the complete team with necessary tools and tackles within 24 hours from the time of intimation to start the work.
10. Either the contractor or his authorised supervisor shall be available at work site throughout the work.
11. 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.
12. 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.

13. 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
14. Contractor shall get prior permission from the Engineer-in-Charge for bringing the material to HOC.
15. Contractor shall ensure that a standby person is kept outside the man-way nozzle when the work is inside a confined space.
16. You are requested to visit the site to ascertain the exact quantum of work/site condition before submitting your offer.



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

**Financial Year:                      Turnover:**

2015 - '16                      -

2016-17                      -

2017-18                      -

**3. Details of EMD enclosed:**

DD No. \_\_\_\_\_ Dated \_\_\_\_\_ Amounting to \_\_\_\_\_

Name of the Bank : \_\_\_\_\_.

**4. Details of Tender Fee enclosed:**

DD No. \_\_\_\_\_ Dated \_\_\_\_\_ Amounting to \_\_\_\_\_

Name of the Bank : \_\_\_\_\_.

- 5. Organization chart as per Clause 7 of Pre-Qualification is uploaded (Yes/No)
- 6. Details of Income Tax return submitted for the last 3 year (Copies to be to be signed, stamped, scanned and uploaded) (Yes/No)
- 7. Scope of work, general terms and conditions, special conditions of contract, Annexure A, B & C (complete set of tender documents) to be signed and stamped on all pages, scanned and uploaded.
- 8. Equipment/tools list is uploaded (Yes/No)
- 9. Declaration statement as per Clause 10 of Pre-qualification is uploaded (Yes/No)
- 10. Annexure D - duly filled, signed and stamped, scanned and uploaded.

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

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

Signature of the Tenderer                      :

Name of the Tenderer                      :

Address                      :

Place :

Date :