



Repair of Boiler Stack and Replacement  
of Dampers in Flue Gas Ducts.  
MEC30412

This tender floated in NIC - CPP Portal with Tender ID: 2024\_HOCL\_795903\_1 dt. 17/02/2024 with due date 09/03/2024 at 02:00 PM and in GeM Portal with GeM Bid No. GEM/2024/B/4647474 dt. 16/02/2024 with due date 09/03/2024 at 06:00 PM.

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

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

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

Sl. No.	Description of Item and Tender No.
1	कार्य का नाम : बॉयलर स्टैक की मरम्मत और फ्लू गैस नलिकाओं में डैम्पर्स का प्रतिस्थापन। HOCL निविदा संदर्भ : MEC30412  Name of Work : REPAIR OF BOILER STACK AND REPLACEMENT OF DAMPERS IN FLUE GAS DUCTS HOCL Tender Ref : MEC30412

निविदा दस्तावेज [www.hoclkochi.com](http://www.hoclkochi.com) या [www.eprocure.gov.in](http://www.eprocure.gov.in) से डाउनलोड किए जा सकते हैं।  
Tender documents may be downloaded from [www.hoclkochi.com](http://www.hoclkochi.com) or [www.eprocure.gov.in](http://www.eprocure.gov.in).

इच्छुक पार्टियां निविदा में भाग लाने के लिए कृपया एनआईसी ई प्रोक्योरमेंट पोर्टल (यूआरएल: <https://eprocure.gov.in/eprocure/app>.) पर पंजीकृत हो सकती हैं। निर्दिष्ट ऑनलाइन प्रक्रिया का अलावा अन्य प्रस्तुत निविदाएं स्वीकार नहीं की जाएंगी। कृपया प्रस्ताव जमा करना प्रहलक 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>.) 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 हुए **दो बोली प्रणाली** के तहत अपनी ई-बोली जमा करें।

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

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

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



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

MEC30412

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 **बॉयलर स्टैक की मरम्मत और फ्लू गैस नलिकाओं में डैम्पर्स का प्रतिस्थापन** 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 **REPAIR OF BOILER STACK AND REPLACEMENT OF DAMPERS IN FLUE GAS DUCTS**. HOCL has entered into an agreement with M/s. NIC for e-procurement through their portal <https://eprocure.gov.in/eprocure/app>. You may please get registered as a vendor with NIC for participating in this tender.

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

**Tender documents are uploaded in HOCL website [www.hoclkochi.com](http://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)



## INDEX

### LIMITED TENDER NOTICE FOR REPAIR OF BOILER STACK AND REPLACEMENT OF DAMPERS IN FLUE GAS DUCTS

1	<b>General Terms and conditions of the tender</b> निविदा के सामान्य नियम एवं शर्तें	ANNEXURE - I
2	<b>Scope of work</b> काम की गुंजाइश	ANNEXURE - II
3	<b>Special Conditions of Contract</b> अनुबंध की विशेष शर्तें	ANNEXURE - III
4	<b>Compliance/No Deviation Statement</b> अनुपालन/कोई विचलन नहीं विवरण	ANNEXURE - IV
5	<b>Compliance of General Conditions of Contract (GCC)</b> अनुबंध की सामान्य शर्तों का अनुपालन (जीसीसी)	ANNEXURE - V
6	<b>Check List</b> जांच सूची	ANNEXURE - VI
7	<b>ESI, PF, Labour Law etc. – Requirements</b> ईएसआई, पीएफ, श्रम कानून आदि - आवश्यकताएँ	ANNEXURE A, B, C & D
8	<b>Labour Laws</b> लेबर रूल्स	
9	<b>Safety, Health &amp; Environment (SHE) Conditions</b> सुरक्षा, स्वास्थ्य एवं पर्यावरण (एसएचई) स्थितियाँ	
10	<b>Proforma of Declaration of Black Listing/ Holiday Listing</b> काली सूची/अवकाश सूची की घोषणा का प्रोफार्मा	
11	<b>Bidder Information</b> बोली लगाने वाले की जानकारी	ANNEXURE - E
12	<b>Self Declaration of Local Content</b> स्थानीय सामग्री की स्व-घोषणा	ANNEXURE - F
13	<b>Bid Security Declaration</b> बोली सुरक्षाघोषणा	ANNEXURE - H
14	<b>Declaration on Code of Integrity for Public Procurement (COIPP)</b> सार्वजनिक खरीद के लिए सत्यनिष्ठा संहिता पर घोषणा।	ANNEXURE - L
15	<b>Declaration of Compliance of Order (Public Procurement No.1, 2 &amp; 3) dt. 23 Jul 2020 &amp; 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017</b> आदेश के अनुपालन की घोषणा (सार्वजनिक खरीद संख्या 1, 2 और 3) दिनांक। सामान्य वित्तीय नियम (जीएफआर), 2017 के नियम 144 (xi) के तहत प्रतिबंधों पर 23 जुलाई 2020 और 24 जुलाई 2020	ANNEXURE - R
16	<b>Instructions to the Contractors for use of Vehicles</b> वाहनों के उपयोग के लिए ठेकेदारों को निर्देश	ANNEXURE - S
17	<b>Scaffolding Checklist, Scaffolding Manual, Scaffolding parts and Erection Procedure</b>	ANNEXURE - AC



**इस दस्तावेज़ को सभी पृष्ठों पर बोलीदाता द्वारा हस्ताक्षरित और मुद्रांकित किया जाना है और ई-निविदा के साथ जमा किया जाना है**

**हिंदुस्तान ऑर्गेनिक केमिकल्स लिमिटेड**  
(भारत सरकार का एक उद्यम)  
पंबालामुगल पीओ, एर्नाकुलम जिला, केरल - 682 302

**निविदा संदर्भ : MEC30412**  
**कार्य का नाम: बॉयलर स्टैक की मरम्मत और फ़्लू गैस नलिकाओं में डैम्पर्स का प्रतिस्थापन।**

बोलीदाताओं को वैध डिजिटल हस्ताक्षर प्रमाणपत्रों का उपयोग करते हुए केंद्रीय सार्वजनिक खरीद पोर्टल (भारत सरकार) पर इलेक्ट्रॉनिक रूप से अपनी बोलियों की सॉफ्ट कॉपी जमा करनी होगी। नीचे दिए गए निर्देश बोलीदाताओं को सीपीपी पोर्टल पर पंजीकरण करने में सहायता करने, आवश्यकताओं के अनुसार अपनी बोलियां तैयार करने और सीपीपी पोर्टल पर अपनी बोलियां ऑनलाइन जमा करने के लिए हैं।

सीपीपी पोर्टल पर ऑनलाइन बोलियां जमा करने के लिए उपयोगी अधिक जानकारी यहां प्राप्त की जा सकती है:  
<https://eprocure.gov.in/eprocure/app>

**पंजीकरण**

- बोलीदाताओं को सीपीपी पोर्टल पर "ऑनलाइन बोलीदाता नामांकन" लिंक पर क्लिक करके केंद्रीय सार्वजनिक खरीद पोर्टल (यूआरएल: <https://eprocure.gov.in/eprocure/app>) के ई-प्रोक्योरमेंट मॉड्यूल पर नामांकन करना आवश्यक है। जो निःशुल्क है।
- नामांकन प्रक्रिया के भाग के रूप में, बोलीदाताओं को एक विशिष्ट उपयोगकर्ता नाम चुनना होगा और अपने खातों के लिए एक पासवर्ड निर्दिष्ट करना होगा।
- बोलीदाताओं को सलाह दी जाती है कि वे पंजीकरण प्रक्रिया के हिस्से के रूप में अपना वैध ईमेल पता और मोबाइल नंबर पंजीकृत करें। इनका उपयोग सीपीपी पोर्टल से किसी भी संचार के लिए किया जाएगा।
- नामांकन के बाद, बोलीदाताओं को अपने प्रोफाइल के साथ सीसीए इंडिया (जैसे सिफ़ी / एनकोड / ईमुद्रा आदि) द्वारा मान्यता प्राप्त किसी भी प्रमाणन प्राधिकरण द्वारा जारी अपने वैध डिजिटल हस्ताक्षर प्रमाण पत्र (हस्ताक्षर कुंजी उपयोग के साथ तृतीय श्रेणी प्रमाण पत्र) पंजीकृत करने की आवश्यकता होगी।
- एक बोलीदाता द्वारा केवल एक वैध डीएससी पंजीकृत किया जाना चाहिए। कृपया ध्यान दें कि बोलीदाता यह सुनिश्चित करने के लिए जिम्मेदार हैं कि वे अपने डीएससी को दूसरों को उधार नहीं देते हैं जिससे दुरुपयोग हो सकता है।
- इसके बाद बोलीदाता अपना यूजर आईडी/पासवर्ड और डीएससी/ई-टोकन का पासवर्ड दर्ज करके सुरक्षित लॉग-इन के माध्यम से साइट पर लॉग इन करता है।

**निविदा दस्तावेजों की खोज**

- सीपीपी पोर्टल में विभिन्न खोज विकल्प बनाए गए हैं, ताकि बोली लगाने वालों को सक्रिय निविदाओं को कई मापदंडों द्वारा खोजने में सुविधा हो। इन मापदंडों में निविदा आईडी, संगठन का नाम, स्थान, तिथि, मूल्य आदि शामिल हो सकते हैं। निविदाओं के लिए उन्नत खोज का एक विकल्प भी है, जिसमें बोली लगाने वाले कई खोज मापदंडों को जोड़ सकते हैं जैसे संगठन का नाम, अनुबंध का रूप, स्थान, दिनांक, अन्य कीवर्ड आदि सीपीपी पोर्टल पर प्रकाशित निविदा की खोज के लिए।
- एक बार जब बोलीदाताओं ने उन निविदाओं का चयन कर लिया जिनमें वे रुचि रखते हैं, तो वे आवश्यक दस्तावेज/निविदा कार्यक्रम डाउनलोड कर सकते हैं। इन निविदाओं को संबंधित 'माई टेंडर्स' फोल्डर में स्थानांतरित किया जा सकता है। यह सीपीपी पोर्टल को निविदा दस्तावेज में कोई शुद्धिपत्र जारी होने की स्थिति में एसएमएस/ई-मेल के माध्यम से बोलीदाताओं को सूचित करने में सक्षम बनाएगा।
- यदि बोलीदाता हेल्पडेस्क से कोई स्पष्टीकरण/सहायता प्राप्त करना चाहता है तो उसे प्रत्येक निविदा को दी गई विशिष्ट निविदा आईडी को नोट करना चाहिए।



## बोली की तैयारी

1. बोलीदाता को अपनी बोली जमा करने से पहले निविदा दस्तावेज पर प्रकाशित किसी भी शुद्धिपत्र को ध्यान में रखना चाहिए।
2. बोली का हिस्सा का रूप में प्रस्तुत किए जाने वाले आवश्यक दस्तावेजों को समझने के लिए कृपया निविदा विज्ञापन और निविदा दस्तावेज को ध्यान से देखें। कृपया उन कवरों की संख्या पर ध्यान दें जिनमें बोली दस्तावेज जमा किए जा रहे हैं, दस्तावेजों की संख्या - जिसमें प्रस्तुत किए जाने वाले दस्तावेज का नाम और सामग्री शामिल है। इनमें से किसी भी विचलन का कारण बोली को अस्वीकार किया जा सकता है।
3. बोलीदाता, निविदा दस्तावेज/अनुसूची में दर्शाए गए अनुसार प्रस्तुत किए जाने वाले बोली दस्तावेजों को अग्रिम रूप से तैयार कर लें और आम तौर पर, वपीडीएफ/एक्सएलएस/आरएआर/डीडब्ल्यूएफ/जपीजी प्रारूपों में हो सकते हैं। बोली दस्तावेजों को 100 डीपीआई के साथ ब्लैक एंड व्हाइट विकल्प के साथ स्कैन किया जा सकता है जो स्कैन किए गए दस्तावेज का आकार को कम करने में मदद करता है।
4. मानक दस्तावेजों का एक ही सेट को अपलोड करने में आवश्यक समय और प्रयास से बचने के लिए, जिन्हें प्रत्येक बोली का एक भाग के रूप में प्रस्तुत करना आवश्यकता होती है, ऐसे मानक दस्तावेजों (जैसे प्रैन कार्ड की प्रति, वार्षिक रिपोर्ट, लक्षा परीक्षक प्रमाण पत्र आदि) को अपलोड करने का प्रावधान।) बोलीदाताओं को प्रदान किया गया है। बोलीदाता ऐसे दस्तावेजों को अपलोड करने के लिए उनका लिए उपलब्ध "माई स्पेस" या "अन्य महत्वपूर्ण दस्तावेज" क्षेत्र का उपयोग कर सकते हैं। बोली जमा करते समय इन दस्तावेजों को सीधे "माई स्पेस" क्षेत्र से जमा किया जा सकता है, और बार-बार अपलोड करने की आवश्यकता नहीं है। इससे बोली जमा करने की प्रक्रिया के लिए आवश्यक समय में कमी आएगी।

नोट: My Documents स्थान के लिए अपलोड करने की प्रक्रिया को आसान बनाने के लिए बोलीदाताओं को दिया गया एक भंडार है। यदि बोलीदाता नए दस्तावेज स्थान में अपन दस्तावेज अपलोड किए हैं, तो यह स्वचालित रूप से प्रह सुनिश्चित नहीं करता है कि य दस्तावेज तकनीकी बोली का हिस्सा हैं।

## बोलियां जमा करना

1. बोलीदाता को बोली जमा करने के लिए काफी पहले ही साइट पर लॉग इन करना चाहिए ताकि वस समय पर यानी बोली जमा करने के समय पर या उससे पहले बोली अपलोड कर सकें। अन्य मुद्दों के कारण किसी भी देरी के लिए बोलीदाता जिम्मेदार होगा।
2. बोलीदाता को निविदा दस्तावेज में दर्शाए अनुसार आवश्यक बोली दस्तावेजों को एक-एक करके डिजिटल रूप से हस्ताक्षरित और अपलोड करना होगा।
3. बोलीदाता को निविदा शुल्क / ईएमडी का भुगतान करने के लिए "ऑफलाइन" के रूप में भुगतान विकल्प का चयन करना होगा और उपकरण का विवरण दर्ज करना होगा।
4. बोलीदाता को निविदा दस्तावेज में निर्दिष्ट निर्देशों के अनुसार ईएमडी तैयार करनी चाहिए। मूल को बोली जमा करने की अंतिम तिथि तक या निविदा दस्तावेजों में निर्दिष्ट अनुसार संबंधित अधिकारी को व्यक्तिगत रूप से प्रोस्ट/कूरियर/दिया जाना चाहिए। भौतिक रूप से भेजा गया डीडी/किसी अन्य स्वीकृत साधन का विवरण स्कैन की गई प्रति में उपलब्ध विवरण और बोली जमा करने के समय दर्ज किए गए डाटा से मिलान खाना चाहिए। अन्यथा अपलोड की गई बोली अस्वीकार कर दी जाएगी।
5. बोलीदाताओं से अनुरोध है कि वे जांच करें कि वे आवश्यक रूप से प्रदान किए गए प्रारूप में अपनी वित्तीय बोलियां जमा करें और कोई अन्य प्रारूप स्वीकार्य नहीं है। यदि मूल्य बोली को निविदा दस्तावेज के साथ मानक बीओक्यू प्रारूप के रूप में दिया गया है, तो इसका डाउनलोड किया जाना है और सभी बोलीदाताओं द्वारा भरा जाना है। बोलीदाताओं को बीओक्यू फ़ाइल डाउनलोड करनी होगी, इसको खोलना होगा और सफ़ेद रंग (असुरक्षित) सेट को उनसे संबंधित वित्तीय उद्धरण और अन्य विवरण (जैसे बोलीदाता का नाम) के साथ पूरा करना होगा। कोई अन्य सेट नहीं बदला जाना चाहिए। एक बार विवरण पूरा हो जाने के बाद, बोलीदाता को फ़ाइल नाम बदल बिना इससे हटाना चाहिए और इस ऑनलाइन जमा करना चाहिए। यदि बोलीदाता द्वारा बीओक्यू फ़ाइल को संशोधित पाया जाता है, तो बोली को अस्वीकार कर दिया जाएगा।
6. सर्वर समय (जो बोलीदाताओं के डैशबोर्ड पर प्रदर्शित होता है) को बोलीदाताओं द्वारा बोली जमा करने के बोलियां खोलने आदि की समय सीमा को संदर्भित करने के लिए मानक समय माना जाएगा। बोलीदाताओं को बोली जमा करने के दौरान इस समय का पालन करना चाहिए।
7. डाटा की गोपनीयता सुनिश्चित करने के लिए बोलीदाताओं द्वारा प्रस्तुत किए जा रहे सभी दस्तावेजों को पीकेआई एन्क्रिप्शन तकनीकों का उपयोग करके एन्क्रिप्ट किया जाएगा। दर्ज किए गए डाटा को अनधिकृत व्यक्तियों द्वारा बोली खोलने के समय तक नहीं देखा जा सकता है। सुरक्षित सॉफ्टवेयर लैयर 128 बिट एन्क्रिप्शन तकनीक का उपयोग करके बोलियों की गोपनीयता बनाए रखी जाती है। संवेदनशील क्षेत्रों का डाटा भंडारण एन्क्रिप्शन किया जाता है। कोई भी बोली दस्तावेज जो सर्वर पर अपलोड किया जाता है, सिस्टम



द्वारा उत्पन्न सममित कुंजी का उपयोग करके सममित एन्क्रिप्शन के अधीन होता है। इसके अलावा यह कुंजी खरीदारों/बोली खोलने वाले की सार्वजनिक कुंजी का उपयोग करके असममित एन्क्रिप्शन के अधीन है। कुल मिलाकर, अपलोड किए गए निविदा दस्तावेज अधिकृत बोली खोलने वालों द्वारा निविदा खोलने के बाद ही षट्ठने योग्य हो जाते हैं।

8. अपलोड किए गए निविदा दस्तावेज अधिकृत बोली खोलने वालों द्वारा निविदा खोलने के बाद ही षट्ठने योग्य हो जाते हैं।
9. बोलियों को सफलतापूर्वक और समय पर प्रस्तुत करने पर (अर्थात पोर्टल में "फ्रीज बिड सबमिशन" पर क्लिक करने के बाद), पोर्टल एक सफल बोली सबमिशन संदेश देगा और बोली संख्या के साथ एक बोली सारांश प्रदर्शित किया जाएगा। और अन्य सभी प्रासंगिक विवरणों के साथ बोली जमा करने की तिथि और समय।
10. बोली सारांश मुद्रित किया जाना चाहिए और बोली प्रस्तुत करने की ढावती के रूप में रखा जाना चाहिए। इस ढावती का उपयोग किसी भी बोली खोलने की बैठक के लिए प्रवेश ढास के रूप में किया जा सकता है।

### बोलीदाताओं को सहायता

1. निविदा दस्तावेज और उसमें निहित नियमों और शर्तों से संबंधित किसी भी प्रश्न को निविदा के लिए निविदा आमंत्रण प्राधिकारी या निविदा में इंगित संबंधित संपर्क व्यक्ति को संबोधित किया जाना चाहिए।
2. ऑनलाइन बोली जमा करने की प्रक्रिया से संबंधित कोई भी प्रश्न या सामान्य रूप से सीपीपी पोर्टल से संबंधित प्रश्नों को 24x7 सीपीपी पोर्टल हेल्पडेस्क को निर्देशित किया जा सकता है।

### व्यक्ति से संपर्क करें (ऑनलाइन सबमिशन के लिए)

श्री. मिथुन बाबू, सीनियर सिस्टम एनालिस्ट - HOCL  
मोबाइल नंबर : 8921387812, 8547196394

### HOCL कार्य समन्वयक

श्री. एल्दोस बेबी सहायक प्रबंधक (यांत्रिक)  
मोबाइल नंबर : 7012497507/9745667399/  
0484 2727394



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

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

**Tender Ref. No: MEC30412**

**NAME OF WORK: REPAIR OF BOILER STACK AND REPLACEMENT OF DAMPERS IN FLUE GAS DUCTS.**

**General instructions for Online Bid Submission**

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement Portal(Govt. Of India), using valid [Digital Signature Certificates](#). The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

**REGISTRATION**

1. Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrolment**” on the CPP Portal which is [free of charge](#).
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

**SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.



3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BID**

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

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

### **SUBMISSION OF BIDS**

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



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

#### **ASSISTANCE TO BIDDERS**

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

#### **Contact Person (for online submission)**

**Mr. Midhun Babu**  
**Sr. Systems Analyst - HOCL**  
**Mobile No. 8921387812, 8547196394**

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

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



**ANNEXURE-I**

**GENERAL TERMS AND CONDITIONS OF THE TENDER**

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

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

- Complete set of Tender Document duly filled in and signed by the Tenderer as prescribed in different clauses of the Tender Document.
- GCC duly filled in the relevant portions, signed and stamped all the pages by the tenderer (The tenderers have to download the GCC (General Conditions of Contract) from our web site [www.hoclkochi.com](http://www.hoclkochi.com) and the same has to be returned along with the technical bid duly signed and stamped in all pages.
- Tender should accompany the details asked in A, B,C, D, E , F, H, L, R, S & AC
- Copies of work orders already completed or in progress
- Completion certificates
- Organization chart with details of key persons
- Tools and tackles available
- Concurrent commitments
- GSTN registration
- Experience on similar works executed during the last five years and details like monetary value, proof of satisfactory completion of works etc.

**Clause - 1 & 2 (not applicable to MSME)**

1. Average annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be at least **₹8.5 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 **₹11.34 Lakhs**.

OR

Two similar completed works costing not less than the amount equal to **₹14.0Lakhs**.

OR

One similar completed works costing not less than the amount equal to **₹22.7Lakhs**.

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.

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

Quotation shall accompany an **EMD of ₹57,000/- shall be paid by crossed DD/Bankers Cheque/thro' NEFT.**

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



### **Performance Security**

- Performance security shall be 10% of total work order value of the contract. It shall be furnished within 21 days after notification of award and it shall remain valid for a period of 60 days after completion of work.
- Performance Security shall be furnished in the form of Account Payee Demand Draft/ Bank Guarantee issued from any Commercial Bank in India having a branch in Ernakulam Dist, Kerala / on online payment in an acceptable form.

### **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.

### **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 day of the delay or part there of subject to a maximum of 5% of the contract value.

### **Defect Liability Period (Period Of Liability)**

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

### **Time of Completion**

Time of completion shall be within **15 days** from the date of intimation to start the work/ issue of work order.

### **Period of Contract**

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

### **Scope of Supply**

#### **Materials**

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

All the materials like Channel (CS), Angle (CS/SS), Plate (CS/SS), fasteners, asbestoses tape etc required for satisfactory completion of damper and rain hood fabrication and erection work has to be arranged by the contractor. All the items like paint, primer, painting brush, scaffolding pipes clamps etc required for satisfactory completion of stack painting work has to be arranged by the contractor.

##### **b. HOCL Scope**

HOC will provide MS sheet, MS angles for satisfactory completion of casing sheet repairs work at free of cost.



## **Tools & Tackles**

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

All the tools,tackles, welding rods, welding machine, cutting torch with flash back arrestor, grinding machine, scrapers, wire brush, lifting equipment such as chain pulleys, slings, D shackles, mobile/static crane, derrick, steel scaffolding, metallic ladders, painting brush and other tools and equipment's, all consumables required for the satisfactory completion of the work are to be arranged by the contractor.

Contractor should use the industrial type plug socket with ISI mark for their portable electrical equipments/tools and switch board with ELCB connection.

### **b. HOCL Scope**

NIL

## **Water & Power**

HOC will provide water at 3 kg/cm<sup>2</sup>, air at 5 kg/cm<sup>2</sup> and electricity at 3phase/415V at one point free of cost. The extension boards used by the contractor shall have ELCB with sufficient rating and the same shall be of reputed make (like MDS, Havells &Standard).

## **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.

## **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**

- 95% payment will be made on pro rata basis after completion of work and certification by Engineer-in-Charge.
- 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.

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

### **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 (HR) 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) **09/03/2024 at 02.00 PM.**

**Opening of Bids:** The Bids will be opened on **11/03/2024 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

**The scope of work includes Repair of Boiler stack and replacement of Dampers in Flue gas ducts on annual shutdown 2024. The Period of Contract of the work will be 6 months from the date of issue of work order/ issue of instruction of start the work. Therefore the rate quoted by the party shall be valid for the above period. Party must be ready to do the work at any point of time during the period of contract.**

### GENERAL SCOPE

Following sequences of works has to be strictly followed:

1. Supply and erection of scaffolding/platform to facilitate the work shall be in scope of contractor. Also, the scaffolding shall be suitable for doing the entire work including painting of entire stack, rain hood erection, removal of existing dampers, cutting and welding of mating flanges to duct, erection of new dampers, repair/replacement of damaged casing sheet at all elevation of boiler etc.
2. The Engineer-in-Charge may accept better scaffolding material/ technique than that given here, in case if Contractor prefers to provide. The contractor should follow the scaffolding standards as per spelt in the HOCL scaffolding manual (Attached) throughout the work.
3. Strength and capacity of the scaffolding shall be in the responsibility of the contractor.
4. Removal of scaffolding after completion of work and cleaning of site shall be in the scope of contractor.
5. Transportation of required materials from store to site shall be in the scope of contractor. Proper reconciliation statement shall be submitted regarding the material received after completion of work. Balance material if any in good condition shall be returned to HOCL store by the contractor.
6. The work is at an elevation upto 60Mtrs and hence all necessary safety gadgets and PPE's shall be arranged by the contractor and should be worn by the people employed by you as instructed by the Engineer-in-charge.
7. The entire work is to be carried out as per standard engineering practice and is subjected to stage inspection by HOCL.
8. All the tools, tackles, welding rods, welding machine, cutting torch with flash back arrestor, grinding machine, scrapers, wire brush, lifting equipment such as chain pulleys, slings, D shackles, mobile/static crane, derrick steel scaffolding, metallic ladders, painting brush and other tools and equipment's, all consumables required for the satisfactory completion of the work are to be arranged by the contractor.
9. For cutting Oxy Acetylene gas shall be used. Domestic/industrial LPG Cylinders will not be allowed at site.
10. All skilled and unskilled manpower including supervisor required for the work is to be arranged by the Contractor



11. All scarp/waste generation by fabrication, debris, etc. arising out of the job should be segregated transported, weighed and dumped to the specified areas as per the instruction by Engineer-in-charge.

**12. YOU ARE REQUESTED TO VISIT THE SITE TO ASCERTAIN THE EXACT QUANTUM OF WORK/SITE CONDITIONS BEFORE SUBMITTING YOUR OFFER.**

#### **I. DAMPER FABRICATION AND REPLACEMENT**

1. We have 6 numbers dampers in our existing flue gas duct for the operational flexibility. Now most of them are not in operating condition. Hence 6no's of damper with mating flanges should be fabricated as per the dimensions of existing duct size given below (serial No1 to 6). In addition 2 new dampers are to be fabricated as per the specification given in serial No 7 & 8. All the measurement given below is only for indicating the quantum of work. Exact measurement can be taken from site before fabrication of dampers.

SL. No	Damper Location	Duct Size	Damper Channel Size & MOC	Damper flap type & MOC	Angle size for flange & MOC
1	K-479 Economizer outlet damper	600x1210	ISMC 300X90 IS2062	Single flap SS316	ISA 90X90X8 IS2062
2	K-480 Economizer outlet damper	600x1210	ISMC 300X90IS2062	Single flap SS316	ISA 90X90X8 IS2062
3	K-479 & K-480 Inter connection damper	600x1210	ISMC 300X90 IS2062	Single flap SS316	ISA 90X90X8 IS2062
4	K-479 & K-480 Inter connection damper	600x1210	ISMC 300X90 IS2062	Single flap SS316	ISA 90X90X8 IS2062
5	K-479 ID fan outlet damper	795x630	ISMC 150X75 IS2062	Double flap SS316	ISA 75X75X6 IS2062
6	K-480 ID fan outlet damper	795x630	ISMC 150X75 IS2062	Double flap SS316	ISA 75X75X6 IS2062
7	K-479 Outlet duct to Chimney	1025x820	ISMC 150X75 IS2062	Double flap SS316	ISA 75X75X6 IS2062
8	K-480 Outlet duct to Chimney	1025x820	ISMC 150X75 IS2062	Double flap SS316	ISA 75X75X6 IS2062

2. The fabrication work can be carried out at party's workshop/HOC fabrication yard if available. In case of fabrication at HOCL site, power and water at one point will be given at free of cost.



3. Preparation of necessary drawings, site measurement, supply and fabrication, delivery and erection of the dampers at site has to be completed within 15 days from the date of intimation to start the work.
4. Out of 8 dampers, 6 no of them are existing dampers. 2 no's are to be fabricated and provide additionally at the entrance of flue gas near to chimney. Any structure or materials inside/outside obstructing the work shall be removed by the contractor and the same shall be brought back to its original location at his own cost.
5. The existing 6 damper along with its mating flanges has to be removed from the duct by cutting either by grinding or by gas cutting. For cutting Oxy Acetylene gas shall be used. Domestic/industrial LPG Cylinders will not be allowed at site.
6. Newly fabricated mating flanges are welded to the existing duct inside and outside and erect the damper properly in between the mating flanges. Required numbers of bolt holes are to be provided so as the joints should be leak proof. Damper box-up with fasteners and mating flange face sealed with asbestoses tape. In case of any leak noticed during trial the same shall be rectified by contractor at his own cost.
7. Remaining 2 no's of new damper and its mating flanges should be fabricated as per the existing duct size.
8. Cutting and removing the existing duct (near to chimney) as per size of new damper. Mating flanges are to be welded to the duct inside and outside and erect the damper in between the mating flanges. Required numbers of bolt holes are to be provided so as the joints should be leak proof. Damper box-up with fasteners and mating flange face sealed with asbestoses tape. In case of any leak noticed during trial the same shall be rectified by contractor at his own cost.
9. All the materials like channel, angle, plate, fasteners, asbestos tape, tools, tackles, welding rods, welding machine, cutting torch with flash back arrestor, grinding machine, wire brush, scrapers. All PPE's and other consumables etc. has to be arranged by contractor at his own cost.
10. All steel plates, channel, angle required for the job shall be procured by the contractor and same shall be SAIL/TISCO/JINDAL make only.
11. Gasket/Asbestoses tape, studs & bolts shall be supplied by HOCL at free of cost.
12. Material test certificate for channel, angle and plate has to be submitted to HOC before starting the fabrication.
13. Any failure or rejection of work shall be replaced by contractor at his own cost.
14. Supply and erection of scaffolding/platform to facilitate the work shall be in the scope of contractor. Proper supports should be provided for the duct before removing the dampers
15. All the required welding rod using for the fabrication of dampers and its mating flanges conforms to ESSAB/ADVANI/MODI make.



## II. REFRACTORY WORK OF ID FAN OUTLET DUCT

1. Opening the manway of ID fan outlet duct and provide air educter for ventilation and take clearance for manentry.
2. Cleaning thoroughly inside the duct with proper means of tools and prepare surface before casting of new refractory on the wall.
3. Welding of V hooks (4mm  $\phi$  SS 316) inside the ductat regular intervals of 300mm triangular pitch. 4mm SS 316 Rod will be provided by HOCL, fabrication of V hook and welding to the inside of the shell shall be in the scope of contractor.
4. HOCL shall provide required quantity of castable (Silica based) refractory. Casting will be done as per standard engineering practice. Any special mixing media required for the mixing of casting material shall be arranged by the contractor.
5. Transportation of refractory materials from store to site shall be in the scope of contractor. Proper reconciliation statement shall be submitted regarding the material received after completion of work. Balance material if any in good condition shall be returned to HOCL store by the contractor.
6. To facilitate refractory work, any cutting required in the duct casing or brought down the duct to the ground level and welded back the removed portion or erecting the duct back to its original position shall be done by the contractor at his own cost. Any fitting or attachments found to be removed to facilitate the work to be done by the contractor and the same shall be fitted back to original condition at the cost and risk of the contractor.

## III. MAIN BOILER CHIMNEY AND CONNECTED DUCT PAINTING AND RAIN HOOD FIXING

1. Supply and erection of scaffolding/platform to facilitate the work shall be in the scope of contractor.
2. Scaffolding shall be suitable for painting the entire stack and fixing the Rain hood at the top of the stack with height of 60 meter from ground level.
3. Painting of stack and ID fan outlet duct shall be done as per the attached **technical specification**.
4. Painting shall be started only after getting clearance from engineer concerned.
5. Rain hood should be fabricated as per the attached drawing. Materials used for the fabrication of rain hood should be SS316 instead of CS (IS 2062).
6. All the materials like SS angle, SS plate, tools, tackles, welding rods, welding machine, cutting torch with flash back arrestor, grinding machine, etc. has to be arranged by contractor at his own cost.
7. Material test certificate for angle and plate has to be submitted to HOC before starting the fabrication.
8. Fabrication and erection of Rain hood by welding the rain hood at the top of the stack shall be in the scope of contractor.
9. Removal of existing rain hood supports and preparation for the welding of newly fabricated rain hood shall be done by the contractor.



10. Necessary patch work should be done by the contractor if required, at the top portion of the stack for fixing newly fabricated rain hood.
11. In case the top portion of the stack is very much tinned and patched work is not possible, party should replace the top portion of the stack around 1.5-meter length as per the scope of work mentioned below.
12. All tools and tackles, mobile/static crane, derrick, etc for satisfactory completion of the work shall be arranged by contractor at his own cost.
13. Aviation lamp and lightening arrestor shall be fixed to the top of the stack as per the instruction by engineer-in-charge. Required materials will be supplied by HOCL.

#### **IV. REPLACEMENT OF THE TOP PORTION OF BOILER STACK (IF REQUIRED)**

1. Cut and dismantle the portion of Boiler Stack by grinding/oxy-acetylene torch as per instruction of Engineer-in-Charge. The same shall be cut, removed and brought down to the ground level and shift the scraped portion as per the instruction of the Engineer in charge.
2. The material like steel plate of required thickness (The size of the Plate supplied shall be as available at HOCL/as per the market availability only, however party has to roll/bend the sheet to make joint by welding to suit required size and shape) shall be issued from HOCL free of cost.
3. Plate rolling, fabrication and welding of the shell with dimension (1016mm OD × 8mm thick) for replacing the cut portion of the shell without wrinkles and as per standard engineering practice and exactly same to that of the removed top portion.
4. Welding of V hooks (4mm  $\phi$  in SS 316) on the shell of regular intervals of 300mm triangular pitch. 4mm SS 316 Rod will be provided by HOCL, fabrication of V hook and welding to the inside of the shell shall be in the scope of contractor.
5. HOCL shall provide required quantity of castable (Silica based) refractory. Casting will be done as per standard engineering practice. Any special mixing media required for the mixing of casting material shall be arranged by the contractor.
6. Edge and Surface preparation of the existing stack and new shell should be done by the contractor.
7. Erection of the new shell on the existing stack. Alignment of the stack for verticality with theodolite and same has to be brought by the contractor.
8. Fabrication and fixing of helical strakes as per attached drawing.
9. HOCL will provide MS plate for fabrication of shell and helical strakes, 4mm SS Rod for V hook, refractory material and special welding rod for welding new shell to existing shell. Contractor has to bring all other material like derrick/crane welding machine for welding shell, paint & primer, tool, tackles, and other consumable required for the satisfactory completion of the work shall to be arranged by the contractor.



10. The work is at an elevation of about 60 Mtrs. and necessary scaffolding should be made by the contractor for the safe execution of the work at his own cost.
11. All dimensions/other provisions like trolley helical strakes, welding, painting, etc. to be as per the existing stack and no deviation whatsoever will be permitted
12. Specification of the welding electrodes and procedure of welding shall be as per the prevailing code of standard practice and as per the instruction of engineer-in-charge.
13. Oxy- Acetylene gases only shall be used for gas cutting purpose and no other type of flammable gases/fuels will be permitted for use of cutting/ welding purpose.

#### **V. CASING SHEET REPAIR**

1. Damaged casing sheet of boiler K-479 & K480, economizer and its connecting duct on all sides, all elevations should be removed and welded back with newly fabricated suitable size and shape of plate with suitable thickness (normally 6mm) and providing necessary clits/anchors inside or outside the shell plate for holding refractory/insulation as per the instruction of engineer-in-charge. Required MS plates will be supplied by HOCL at free of cost.
2. At most care should be taken while cutting and removing of casing sheet of furnace area. Damaged casing sheet should be removed without damaging the existing refractory.
3. Preparation/fabrication of patch plate to the required size and shape. Cleaning the surface of plate to be patched shall be in the scope of contractor.
4. Any fitting or attachments found to be removed to facilitate the work to be done by the contractor and the same shall be fitted back to original condition at the cost and risk of the contractor.
5. Permission shall be obtained from the engineer in charge prior to removal any fitting or accessories.
6. Shell plate shall be cleaned and new patch plate shall be seal welded(full welded) to the required dimension to the shell using welding rod conforms to AWS E 6013, ESSAB/ADVANI/MODI make.
7. Proper reconciliation statement shall be submitted regarding the material received after completion of the work.
8. Balance material if any in good condition shall be returned to HOCL stores by the contractor.



## **TECHNICAL SPECIFICATION FOR PAINTING**

### **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 : 161 - Heat resisting paints
- IS : 13183 - Aluminium paint ,Heat Resistant
- IS : 2339 - Aluminium paint for general purposes individual container.

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 III<sup>rd</sup> 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 paints indicating the suitability for the required service conditions. Primer and finish coats shall be of class quality and shall conform to the following:



**Finish Coats(F-11) Heat Resistant Aluminium Paint THREE COAT suitable upto 250° C)**

TYPE	:- Heat Resistant Aluminium Paint suitable upto 250° C
Composition	:- Dual container (paste & medium).Composition Heat resistant special varnish medium combined with Aluminium flakes
Volume solids	:- 20 - 25% (min.)
DFT	:- 20 microns/coat (min)
Total DFT	:- 60 microns (min)
Covering capacity	:- 10 - 12 M2/Lit/coat

**Painting System Requirement:**

Three coats of Heat Resistant Aluminium Paint suitable upto 250° C

**DFT**

Finish – (20 μ +3) (3 Coats)

**Colour**

Aluminium

**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 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. GoodlassNerolac Paints Ltd:
- e. M/s. Garware Paints
- f. M/s. Jenson & Nicholson
- g. M/s. Shalimar Paints



### **Inspection and Testing**

All painting materials including 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 III<sup>rd</sup> 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
- Each coat of paint

Any defect noticed during the various stages of inspection shall be rectified by the contractor to the entire satisfaction of III<sup>rd</sup> 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.

### **Application**

After surface preparation, the First Coat should be worked by brush application to cover the corners, sharp edges etc. in the presence of III<sup>rd</sup> Party inspector nominated by HOCL.

The thickness of each coat and complete coverage should be checked as per provision of this specification. This should be approved by III<sup>rd</sup> 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 III<sup>rd</sup> 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 III<sup>rd</sup> 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:

<b>No.</b>	<b>Specification</b>	<b>Subject</b>	<b>Purpose</b>
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.)



### **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. This work is a shutdown activity and you have to put all efforts to complete the work in time. Also you have to deploy people on round the clock basis as per the instruction of Engineer-in-Charge.
4. 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.
5. 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.
6. 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.
7. Contractor has to mobilise the complete team with necessary tools and tackles within 24 hours from the time of intimation to start the work.
8. Either the contractor or his authorised supervisor shall be available at work site throughout the work.
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. HOCL will not entertain any claims or responsible whatsoever in the event of any accident/incident.
11. 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), Labour Laws, PF, Guidelines to contractors / suppliers for environmental protection & Confined Space Entry
12. Contractor shall get prior permission from the Engineer-in-Charge for bringing the material to HOC.
13. Contractor shall ensure that a standby person is kept outside the man-way nozzle when the work is inside a confined space.



**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)**

- 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 (**YES/NO**).
- Proforma of Declaration of Black Listing/ Holiday Listing (**Annexure D**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Bidder Information (**Annexure - E**) - put **√ mark** in front of your confirmation, signed and stamped, scanned and uploaded (**YES/NO**).
- Self Declaration of Local Content (**Annexure F**) - duly filled, signed and stamped, scanned and uploaded. (**YES/NO**).
- Bid Security Declaration (**Annexure H**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Declaration on Code of Integrity for Public Procurement (COIPP) (**Annexure L**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Declaration of Compliance of Order (Public Procurement No.1, 2 & 3) dt. 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 (**Annexure R**) - duly filled, signed and stamped, scanned and uploaded (**YES/NO**).
- Instructions to the contractors for use of vehicles (**Annexure - S**) - duly signed and stamped, scanned and uploaded (**YES/NO**).
- Scaffolding Checklist, Scaffolding Manual, Scaffolding parts and Erection Procedure (**Annexure - AC**) - duly signed and stamped, scanned and uploaded (**YES/NO**).
- GCC duly filled in the relevant portions, signed and stamped all the pages by the tenderer (The tenderers have to download the GCC (General Conditions of Contract) from our web site [www.hoclkochi.com](http://www.hoclkochi.com) and the same has to be returned along with the technical bid duly signed and stamped in all pages.
- **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).**

Signature of the Tenderer :

Name of the Tenderer :

Address :

Place :

Date :