



हुगली कोचीन शिपयार्ड लिमिटेड  
(भारत सरकार का उद्यम)  
**HOOGLY COCHIN SHIPYARD LIMITED**  
(A Govt. of India Enterprise)



वसुधैव कुटुम्बकम्  
ONE EARTH • ONE FAMILY • ONE FUTURE

**Tender No: HCSL/PUR/TEN/2024/016**

**Dt. 14.09.2024**

### TENDER NOTICE

Competitive offers are invited on behalf of Hooghly Cochin Shipyard Limited (HCSL) for the under mentioned work, so as to reach the undersigned on or before the date and time mentioned below. Please refer technical specification, General Terms and Conditions as attached.

Tender No. & date	<b>HCSL/PUR/TEN/2024/016, Dt. 14.09.2024</b>
Scope of Supply / Work	Supply and execution (laying) of underlay materials onboard 06 nos. of hybrid aluminum catamaran vessels at HCSL at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah
Type of Tender	<b>Two Bid</b>
Last date & time of receipt of tender	24.09.2024 at 1500 Hrs.
Date & time of opening of technical bid	24.09.2024 at 1530 Hrs. (10 days)
Delivery & execution Period	<b>Within 25 Days</b> (from the date of issuance of Purchase Order/LOI).



**Registered Office:** Administrative Building, HCSL Premises, Satyen Bose Road, P.O. Danesh Shaikh Lane, Nazirgunge, Howrah, West Bengal - 711 109.  
☎ +91 (33)-2688 8282 ✉ contact@hooghlycsl.com 🌐 www.hooghlycsl.com

**Shipyard:** Nazirgunge Unit, Satyen Bose Road, P.O. Danesh SK Lane, P.S. Sankrail, Howrah, West Bengal - 711109  
☎ +91 (33)-2955 8283

CIN : U35900WB2017GOI223197, GSTIN : 19AAECH3640L1ZD



हुगली कोचीन शिपयार्ड लिमिटेड  
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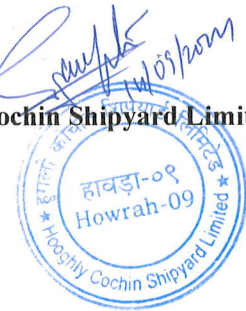
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Officer - in - Charge	Name: Girish Gupta Designation: Asst. Manager (Materials) Email: <a href="mailto:girish.gupta@hooghlycsl.com">girish.gupta@hooghlycsl.com</a> Phone No: +91 8085278430
	Name: Saikat Biswas Designation: Dy. Manager (Materials) Email: <a href="mailto:saikat.biswas@hooghlycsl.com">saikat.biswas@hooghlycsl.com</a> Phone No: +91 8250792208

**Tender to be submitted by Email only. Tender reference should be clearly indicated on the subject of the Mail.**

Tenders should be submitted in two separate files as **PART-I "TECHNO-COMMERCIAL" & PART-II "PRICE" (Password Protected)** indicating the tender number, due date of the tender in the Mail and addressed to The Assistant General Manager (Material), Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.

For Hooghly Cochin Shipyard Limited



Signature and Seal of the Bidder(s)



Registered Office: Administrative Building, HCSL Premises, Satyen Bose Road,  
P.O. Danesh Shaikh Lane, Nazirgunge, Howrah, West Bengal - 711 109.  
☎ +91 (33)-2688 8282 ✉ [contact@hooghlycsl.com](mailto:contact@hooghlycsl.com) 🌐 [www.hooghlycsl.com](http://www.hooghlycsl.com)

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P.S. Sankrail, Howrah, West Bengal - 711109  
☎ +91 (33)-2955 8283

CIN : U35900WB2017GOI223197, GSTIN : 19AAECH3640L1ZD

**Bidders are requested to submit the bid by e-mail (Price part password protected) only to the following email address clearly mention the tender reference in the subject line for easy identification.**

[girish.gupta@hooghlycsl.com](mailto:girish.gupta@hooghlycsl.com)  
[saikat.biswas@hooghlycsl.com](mailto:saikat.biswas@hooghlycsl.com)

The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial part. Bidders will be intimated the date of opening of the price part, whose techno- commercial bids are acceptable in due course.

**Tender administration:** Tender procedure/administration/evaluation including correspondences and awarding of contract will be done by M/s. Hooghly Cochin Shipyard Limited, Howrah, West Bengal.

Officer - in - Charge for the above work/supply:

Name: Girish Gupta  
Designation: Asst. Manager (Materials)  
Email: [girish.gupta@hooghlycsl.com](mailto:girish.gupta@hooghlycsl.com)  
Phone No: +91 8085278430

Name: Saikat Kumar Biswas  
Designation: Deputy Manager (Materials)  
Email: [saikat.biswas@hooghlycsl.com](mailto:saikat.biswas@hooghlycsl.com)  
Phone No: 8250792208

**For Hooghly Cochin Shipyard Limited**

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**Minimum Pre-qualification criteria for participating in the tender will be as follows:**

- i. Successful experience for supply and execution of similar material within the last 2 years ending last day of month previous to the one in which applications are invited. (Satisfactory completion certificate from the Client for work done should be submitted along with bid).

Similar Supply means: Supply and execution of deck compound/epoxy primer/ marine adhesive underlay materials to any State/Central Govt., Shipyards, MNCs within the respective years.

- ii. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (**Financial Year :2020-21, 2021-22, 2022-23**) should be submitted along with the application for prequalification).
- iii. The Tenderer should enclose copy of PAN, GST registration certificate, Income tax returns for last three (**Financial Year :2020-21, 2021-22, 2022-23**).
- iv. Offers from joint ventures/consortium will not be accepted.
- v. Net worth of the bidder must be positive as per the latest balance sheet. (MSME/NSIC will get exemptions)

## TABLE OF CONTENTS

Sl. No.	Description	Annexure
1.	Technical Specification	Annexure-1
2.	Price Bid Format	Annexure-2
3.	Instruction to bidders	Annexure-3
4.	General Terms & Conditions	Annexure-4
5.	Tender condition- Preference to Make in India	Annexure-5
6.	Restriction of bidders sharing land border with India	Annexure-6
7.	List of Deviations	Annexure-7
8.	NEFT Mandate Form	Annexure-8
9.	Form of bank Guarantee towards EMD	Annexure-9
10.	Vendor details	Annexure-10
11.	Form of Self Declaration	Annexure-11
12.	Form of Legal Cases	Annexure-12

**For Hooghly Cochin Shipyard  
Limited**

Signature and Seal of the Bidder(s)

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# Technical Specification

Please refer Annexure-I (Part A & B).

## PRICE BID FORMAT

**Tender Enquiry No: HCSL/PUR/TEN/2024/016, Dt. 14.09.2024**

**Subject:** Supply and execution (laying) of underlay materials onboard 06 nos. of hybrid aluminum catamaran vessels at HCSL.

Sl. No.	Description			Quantity for 6 nos. vessel	UOM	HSN Code	Unit Rate (Without GST)	GST	Unit Rate (with GST)	Total Amount
				A	B	C	D	E	F= D+E	G= Ax F
1.		Dry Area	MATERIAL for DECK LEVELLING COMPOUND (MARINE GRADE)	270	Sq. Mtr.					
2.		Wet Area	SUTEF 42 RESIN	10	KG					
3.			SUTEF 42 HARDNER	5	KG					
4.			SUTEF 42 FILLER	10	KG					
5.			SUTEF 44 RESIN	20	KG					
6.			SUTEF 44 HARDNER	15	KG					
7.			SUTEF 44 LT FILLER	100	KG					
8.			PIGMENT	01	KG					
9.	Execution of job onboard			1	L.S.					
10.	Total amount excl GST.									
11.	GST									
12.	Total amount incl GST.									
13.	Total amount (incl GST) in words:									

**Price Bid Instructions**

1. Quotation submitted is inclusive of Supply of materials and executing the job onboard vessels.
2. Quoted items should comply with the technical specification as per Annexure-I (Part A & B).
3. Quotation for all line items is mandatory. Partially quoting for few line items shall result in rejection of the bid.
4. Price to be quoted in INR only.
5. Price Bid to be submitted strictly as per format. Modifying the format will result in rejection of the bid.
6. L1 Bidder will be evaluated based on the combined cost of all the line items excluding GST.
7. Un-priced Price bid to be submitted along with techno commercial bid with details like percentage of taxes & duties applicable & details like quoted/nil/included to be mentioned for each line item.

**Important Note:** Bidder should provide the items offered (with details like percentage of taxes and duties applicable and mentioning "Quoted/Included" - without mentioning the price – termed as "UNPRICED BID") with commercial terms agreed undersigned in company letterhead.

Signature and Seal of the Bidder(s)



## **SPECIAL INSTRUCTION TO BIDDER**

### **1. MODE OF SUBMISSION OF TENDERS**

Tenders should be submitted in two separate files as **PART-I"TECHNO-COMMERCIAL" & PART-II "PRICE" (Password Protected)** indicating the tender number, due date of the tender in the subject of the Mail and addressed to The Assistant General Manager (Materials).

### **2. TECHNO-COMMERCIAL PART SHOULD CONTAIN FOLLOWING DETAILS:**

- I. Specification & Technical Literature, if any.
- II. Other conditions, if any
  - a. Signed and stamped copy of Scope of supply & Technical Specification (Annexure-1)
  - b. Unquoted Price bid (Annexure-2)
  - c. Special Instruction to Bidder (Annexure-3)
  - d. General Terms and Conditions (Annexure-4)
  - e. Make in India (Annexure-5)
  - f. Restriction of bidders sharing land border with India (Annexure-6)
  - g. Deviation List (Annexure-7), if any.
  - h. NEFT Mandate Form (Annexure-8)
  - i. Form of bank Guarantee towards EMD (Annexure-9)
  - j. Vendors details (Annexure-10)
  - k. Self-Declaration Annexure-11)
  - l. Details of Legal Case pending (Annexure-12), if any

### **3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -**

- a. Price against item.
- b. Taxes & duties as applicable shall be indicated.

**Note:**

- i. Modification or alteration of the price bid format attached is strictly prohibited. Otherwise Bid will be liable for rejection.
- ii. In case Price bid is placed inadvertently in the Techno-Commercial Part or in case Price bid is not password protected, Bid will be straightway rejected.

- 4. While submitting the bid, bidders are requested to note that the e-mail ID starting with following words may probable be treated as spam, not always necessary- info, support, admin, sales, customer support, helpdesk, mail, mailadmin, billing, hello, careers.

**Bidders are requested to submit the bid by e-mail (Price part password protected) only to all three the following email address clearly mention the tender reference in the subject line for easy identification.**

[girish.gupta@hooghlycsl.com](mailto:girish.gupta@hooghlycsl.com)  
[saikat.biswas@cochinshipyard.in](mailto:saikat.biswas@cochinshipyard.in)

- 5. The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial part. Bidders will be intimated the date of opening of the price part, whose techno- commercial bids are acceptable in due course. Password of price bid will require to be shared at the time of price

bid opening.

6. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as “List of Deviations”.
7. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.
8. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing amending the data/conditions already submitted with the tender.
9. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
10. The bidder shall submit a signed & stamped copy of the tender document including Annexures and Enclosures along with their bid as token of acceptance of terms & Conditions.

**For Hooghly Cochin Shipyard Limited**

**GENERAL TERMS AND CONDITIONS**

<b>SL NO</b>	<b>Description</b>	<b>Compliance by Supplier (YES/NO) In case of non compliance, please provide remarks.</b>
1.	Tenderers are to carefully go through the terms and conditions and the technical specification of the items for which offers are called for. Tenderers have to adhere to above and supply full technical scope of items along with compliance of commercial conditions. HCSL have full right upon deviations, if any, including rejecting the partial scope/ complied offers.	
2.	Offers are to be free from overwriting. Corrections and additions, if any, must be attested. The offers shall be submitted only through email. Incomplete/ambiguous/conditional offers are likely to be rejected.	
3.	Bidders can contact Officer-in-charge of the work which is indicated in the Tender Notice for any clarification before submitting the offer. If clarifications/details are not obtained before the offer is submitted, no claim on this account will be admitted.	
4.	Technical checklist, if applicable and current general terms & conditions of enquiry duly filled and signed and technical specifications of items offered, should be submitted along with part-1 techno-commercial bid. Non receipt of the document may lead to rejection of offers.	
5.	<b>SPECIFICATIONS:-</b> a) Manufacturer's name, their trade mark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars (technical details of items offered including technical literature) etc., should be attached to the offer.	
	b) Materials offered shall conform to HCSL specifications and suitable for aluminum surface.	
	c) Samples are to be supplied free of cost in the event of requirement by HCSL.	
	d) All items should be supplied as per technical specification with manufacturer certificates.	
6.	Packing materials should be eco friendly.	
7.	Supplier should follow the statutory requirements of product offered.	
8.	Products supplied shall be non toxic and harmless to health. In case of toxic materials, Materials Safety Data Sheet may be furnished along with the material.	
9.	Taxes and duties, if any, payable extra are to be indicated in the price part.	

10.	<p>Delivery time and work duration required for supplies should be indicated in the offer.</p> <p><b>Delivery &amp; execution: Work duration (including supply and execution) is within 25 days from the date of issuance of PO/LOI.</b> Delivery period shall be clearly indicated in the technical bid. <u>HCSL reserves the full right to accept/reject any offer based on the delivery period</u></p> <p><b>Items to be delivered at following address:</b>          Hooghly Cochin Shipyard Ltd (HCSL),          Satyen Bose Road, Danesh Sk. Lane (PO),          Nazirgunge,          Howrah, West Bengal, PIN -711109.</p>	
11.	<p><b><u>PAYMENT TERMS:</u></b></p> <p>I) 100% upon receipt &amp; acceptance of materials and application of underlay materials onboard of all the six vessels to the complete satisfaction of HCSL Officer-in-charge within 30 days.</p> <p>Payment towards all on account bills shall be normally paid within 30 working days from the date of receipt of error free certified bill by the Officer of HCSL as far as possible.</p> <p>II) The invoice shall be compliant with GST Law. (ii) GST liability is to be discharged and ensure filing of outward supply details on GSTN portal within timeline prescribed. (Covered under GST Terms and Condition at (B)) (iii) Any debit note/supplementary invoice if any, is to be raised within September month following the respective Financial year or filing of annual return by HCSL, whichever is earlier. (iv) Any loss of tax credit due to the reason attributable to supplier shall be recovered from supplier along with Applicable interest and penalty.</p> <p>III) Payment mode shall be Electronic Clearing System (ECS)/cheque /NEFT/<del>/LC/CAD/TT</del>-as mutually agreed in line with above standard payment terms. Variations from standard terms, if any, shall be appropriately loaded for tender comparison purposes for arriving the lowest bid.</p> <p>IV) Bidders to note that no advance payment will be made by HCSL against work order issued.</p>	

12.	<p><b><u>a) Security Deposit:</u></b></p> <p>i) The successful bidder shall remit a security deposit of 3% of the total order value (excluding taxes, duties etc.) in the form of demand draft drawn in favor of Hooghly Cochin Shipyard Ltd. towards the satisfactory performance of the contract, if an order is placed on them. Alternatively, a Bank Guarantee equivalent to above % of the total order value (excluding taxes, duties) as per HCSL format from <del>an International Bank as per approved list of banks available in CSL website (for overseas supplier)</del> &amp; Scheduled Indian bank for Indian supplier is to be submitted, if an order is placed towards satisfactory performance of the contract.</p> <p>ii) The supplier shall also agree for 3% of total order value (excluding taxes and duties) as Bank guarantee towards the Guarantee clause.</p> <p>iii) The Bank Guarantee /DD as above should be valid till 90 days after completion of job.</p> <p>(iv) Fixed Deposit Receipt (for equivalent amount of Security Deposit required as per tender) in lieu of bank guarantee is also acceptable. Fixed Deposit Receipt shall be in the name of supplier with lien marked in favor of Hooghly Cochin Shipyard Limited, Kolkata.</p>	
	b) SD to be submitted within 10 days of receipt of order from yard.	
	c) Format of bank guarantee along with enquiry to be agreed. Placed at <b>Annexure-5</b> .	
	d) The above SD is required or applicable only when the total order value (excluding taxes and duties) is Rs.20 lakhs and above.	
	e) If the bidder is not agreeable to submission of SD as per HCSL general terms and conditions of enquiry, HCSL reserves the right to reject the offer at our discretion or 3% of total order value (excluding taxes and duties) will be added to the quoted price for tender comparison/ evaluation purpose on case to case basis for arriving the lowest bid.	
13.	<b><u>EMD:</u></b> Nil.	
14.	<p><b><u>Risk Purchase :</u></b> If the supplier fails to supply the items ordered in good quality as per contract specification and fails to deliver within the delivery date or violate any of the terms and conditions of the purchase order, HCSL shall have the following rights.</p> <p>a. To cancel the order partially or full with 15 days notice and to forfeit the security deposit, if any.</p> <p>b. To impose tender holiday for the vendor for an appropriate period as decided by HCSL.</p> <p>c. To initiate alternate procurement action at the risk and cost of the supplier. This clause is applicable only in the case of total order/ contract value (excluding taxes and duties) is Rs.20 lakhs and above (or equivalent foreign currency). Cases of value less than 20 lakhs will be addressed by serving appropriate caution/ warning notice to the firm.</p>	
15.	<p><b><u>Liquidated Damage:</u></b></p> <p>In case of delay in supply and execution of job beyond the stipulated delivery period, which is not attributable to HCSL, supplier is to pay Liquidated Damages (and not by way of penalty) a sum equivalent to ½% (half percent) per week or part of the week of the total contract value, subject to a maximum of 10% of the total contract</p>	

	value. (Total basic price is the order value excluding freight, taxes, other charges etc.) However, LD applicability is without prejudice to HCSL right to terminate contract for delayed delivery or other actions as per Risk Purchase clause.	
16.	<b><u>Warranty/Guarantee</u></b> a) The Items supplied shall be guaranteed for rated performance and against damage or failure due to defective materials and bad workmanship for a period from delivery of items until 12 months from the date of delivery of the ship to Owners OR 24 months from delivery of items to Yard, whichever is earlier. Should such damage/failure occurs within the Guarantee period, the Supplier should immediately rectify the failure by repair/replacement of any such part found to be under performing/ defective, at his own expenses.	
	b) Further to equipment guarantee, replaced items shall be guaranteed for 12 months from date of replacement.	
17.	<b><u>Jurisdiction:</u></b> All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Kolkata, West Bengal, India. Alternate dispute resolution mechanism can also be considered.	
18.	<b><u>Force Majeure condition:</u></b> Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of Legislature or other Statutory Authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, HCSL may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/ cessation.	
19.	Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender	
20.	<b><u>PRICING:</u></b> All applicable taxes, duties if any etc should be included in the rate quoted, unless specified otherwise. HCSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.  Bidder should quote prices for delivery of materials and application of items onboard vessels at HCSL.  <b>Address:</b> Hooghly Cochin Shipyard Ltd (HCSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109.  Insurance for transit shall be arranged by the vendor.	
	Firm shall quote in INR only	
	Comparison of prices will be in INR only	
21.	<b><u>Validity:</u></b> a. Prices should be valid for acceptance for a period of four months from the date of tender opening.	
	b. No enhancement of rate for whatsoever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period, will entail cancellation of the order and forfeiture of Earnest Money Deposit/Security deposit,	

	if any and/or risk purchase, without prejudice to other penal actions, including tender holiday after serving show cause notices, as deemed fit.	
22.	Conditional discounts, if any, will not be reckoned for tender evaluation/ comparison purpose. However, if the bidder becomes L1 at original offer, conditional discount shall also be considered.	
23.	Unpriced bid (price bid without price) duly signed is to be submitted along with techno-commercial offer in the price format, provided. Price should be quoted separately for each item shown in the format. In the event price bid is different from the unpriced format already submitted, yard reserves the right to reject the offer at our discretion without any further discussions. Details of optional items, if any, should be indicated under separate heading in the Techno commercial bid and the respective price details should also be given in the price bid. Combining of figures against more than one item and ambiguous clauses will lead to rejection of the bid.	
24.	If, in the price structure quoted for the required material/ item, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. If there is a discrepancy between words and figures, amount in words of respective figures shall prevail. If the bidder does not agree to the observation of the HCSL, the tender is liable to be rejected and the same shall be intimated.	
25.	After submission of quotation/price offer no unsolicited correspondence will be entertained.	
26.	Hooghly Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.	
27.	L1 computation shall be based on total cost of all line items as per tender (excluding GST).	
28.	<b>SUB CONTRACTING AND ASSIGNMENT</b> Supplier shall not contract with any subcontractor and/or vendor without the prior written consent of HCSL. Such consent shall not relieve the Supplier from any of his responsibilities and liabilities under the Purchase Order. In addition, Supplier shall ensure that the terms and conditions of any such contract shall comply with and correspond to the terms and conditions of the Purchase Order.	
29.	<b><u>General:</u></b> a. Prior to price bid opening, HCSL is at liberty to take the credit rating of bidders at our cost on case-to-case basis, and to include the same during the evaluation of the tender.	
	b. Deviations, if any in the techno-commercial offer from that of the tender enquiry in any form should be clearly furnished in a separate document titled as “List of Deviations”, failing which it will be presumed that all the terms and conditions are acceptable.	
	c. The techno-commercial part alone will be opened initially on the due date of tender. The price part will be opened only after evaluation of the Techno commercial part. Date of opening of the price part will be intimated to those firms whose Techno- commercial bids would be acceptable after the evaluation. Suppliers are allowed to depute their authorized representative to be present at the time of opening of Price Bid of their tender only.	

30.	<b>Purchase Order</b> :- a. In the event supplier's offer leads to an agreement to effect supplies, a formal purchase order shall be issued by HCSL on the basis of agreed terms and conditions of tender.	
	b. Upon placement of order (by post or mail) the supplier shall submit the acknowledgement (ie: signed and stamped original/ scanned soft copy by mail) as a token of acceptance of order within 7 days. In case HCSL doesn't receive the above, it will be deemed as accepted.	
31.	<b>INSPECTION:</b> - a) HCSL reserve the right to inspect the goods after receipt at HCSL store / prior to dispatch (by HCSL or HCSL authorized agency at yard cost). Short supply / Mismatch / Replacement of Defective items / those not meeting agreed / contractual specification/ Items failing during commissioning shall be sent on courier freight prepaid/delivered at HCSL store.	
	b) Replacements during guarantee period to be sent on Duty and all taxes paid basis to location as required by yard/vessel owner with all expenses to supplier account.	
	c) Defective items, if any, after receipt shall be sent back on cost, carriage, handling and insurance prepaid basis including re-export (wherever desired by supplier) to be arranged by supplier. Defective items shall be returned after receipt of replacement item. Supplier, shall replace all/ part of items as applicable, in case of rejection, within 1 week of reporting the defect, without any additional cost to HCSL. In case the defective materials are not taken back within the said period, HCSL reserves the right to dispose the same without further intimation.	
	d) The supplier shall compensate HCSL for loss on account of shortage in quantity and number of pieces received than that indicated in the bill of landing provided the HCSL's claim is rejected by the insurance due to any fault of supplier. Such claims, if any, shall be supported by recognized surveyors report. The supplier shall also compensate for losses, if any sustained by the HCSL due to defective packing and/or marking of the goods not in accordance with the terms of contract. The time limits for filing claims under clauses above shall be generally 180 days from the date of complete discharge of goods.	
32.	HCSL reserves the right to alter, modify the scope of supply at its discretion and in consistent with the policy of the Government of India and statutory bodies under them as applicable to the contract from time to time.	
33.	HCSL reserves the right to commercially reject the offer if compliance is not issued to General terms and conditions without any further clarification / notice / communication in this regard from M/s. Hooghly Cochin Shipyard Ltd., even though the offer is technically acceptable.	
34.	<b>MSEs, Startups and Make in India:</b> Local Suppliers (Make In India), MSE firms and Start-ups will be eligible for various Relaxation in pre-qualification criteria and other Benefits as per orders promulgated by Government of India. Bidders are advised to refer the details of various Benefits and Relaxations in pre-qualification criteria as published at CSL website ( <a href="http://www.cochinshipyard.com">www.cochinshipyard.com</a> ) under the Tenders tab.	

**Specify Yes / No**



<b>Tender condition- Preference to Make in India</b>	
A	Purchase preference in accordance with public procurement (Preference to Make in India Order – 2017) Order from Department of Promotion of Industry and Internal Trade P-45021/2/2017/-B. E-IIdt,04.06.2020 and as amended from time to time shall be applicable as per below
1	In the procurement of all goods/services/works in respect of which there is sufficient local capacity /local competition, only Class I Local suppliers shall be eligible to bid irrespective of purchase value
2	In the procurement of all goods/services /works which are not covered as above and with estimated value of purchase less than Rs 200.0 Crores, only Class I local Suppliers along with Class II local suppliers shall be eligible to bid.
	<b>Purchase preferences for Class I local suppliers</b>
B	<del>In the procurement of goods/works covered under 2 above and which are divisible in nature, Class I local supplier shall be eligible for Purchase preference over Class II / Non local supplier as per following</del>
1	<del>If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1 bidder.</del>
2	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per below
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price, procedure same as para 3 above will be opted. In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference
C	Local content requirement to categories a supplier as Class I/Class II/Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 i.e. amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.
1	Class I-Local content equal to or greater than 50%

2	Class II–Local content greater than 20%, less than 50%
3	Non-local–Local content less than 20%
<b>D</b>	<b>Declaration of local content</b>
1	Class I local supplier /Class II local supplier at the time of tender shall indicate % of local content and provide self-certification that offered item shall meet the local content requirement for Class I/Class II as applicable including details of locations at which local value addition is made.
2	In case of procurement for a value in excess of Rs 10.0 Crores Class I/Class II local supplier is to provide a certificate from statutory auditor/cost auditor (for companies) /practicing cost accountant/ Chartered accountant (suppliers other than companies) indicating % of local content
3	Verification of the Certificates issued by the bidder shall be carried out by HCSL on random basis. False declarations will attract actions as stipulated in the order referred, including other actions as permissible by law.
4	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0 lakhs
5	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt 4.6.2020 and as amended from time to time shall apply.

**Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order - Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020 and order no 3 dt 24.7.2020**

<b>A</b>	<b>Requirement of registration</b>
<b>1</b>	Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with competent authority as per C below. In works contracts, including turkey contracts, contractors shall not be allowed to sub contract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
<b>2</b>	Wordings of certificate to be submitted along with tender documents
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable).
<b>2</b>	Wordings of certificate to be submitted along with tender documents for Works involving possibility of sub-contracting.
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not subcontract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
<b>B</b>	<b>Validity of registration</b>
<b>1</b>	Registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder is validly registered at the time of acceptance /order placement, registration shall not be a relevant consideration during contract execution.
<b>C</b>	<b>Competent authority and Procedure for registration</b>
<b>1</b>	The competent authority for the purpose of registration under the order shall be Registration committee constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). Details of the committee and procedure for registration and restrictions shall be as per Ann I of the Order - Public Procurement no 1 dt 23.7.2020 issued by Ministry of Finance, department of Expenditure.

<b>D</b>	<b>Definition of Bidder and Bidder from a country sharing land border with India</b>
<b>1</b>	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
<b>2</b>	<p>"Bidder from a country which shares a land border with India" for the purpose of this Order means:-</p> <ul style="list-style-type: none"> <li>a) An entity incorporated, established or registered in such a country; or</li> <li>b) A subsidiary of an entity incorporated, established or registered in such a country; or</li> <li>c) An entity substantially controlled through entities incorporated, established or registered in such a country; or</li> <li>d) An entity whose beneficial owner is situated in such a country; or</li> <li>e) An Indian (or other) agent of such an entity; or</li> <li>f) A natural person who is a citizen of such a country; or</li> <li>g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.</li> </ul>
<b>3</b>	<p><b>Type of business entity</b>          (Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO)          In case of incorporated entity - to attach certificate of incorporation</p>
	<p><b>Beneficial Owners</b>          - as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019-PPD dated 23<sup>rd</sup> July, 2020.          Details of all beneficial owners having entitlement of more than 01% of shares or capital or profit to be given, in the format as given in Annexure-I duly certified by practicing Chartered Account in India.</p>

COMPLIANCE STATEMENT- SPECIAL INSTRUCTIONS FOR TENDERERS AND TECHNICAL SPECIFICATION		<b>PAGE 1 OF 1</b>
Tender Name: Supply and execution (laying) of underlay materials onboard 06 nos. of aluminum catamaran vessels at HCSL.		
TENDER NO: <b>HCSL/PUR/TEN/2024/016</b>		
DATE: <b>14.09.2024</b>		
<p>We hereby confirm and truly declare that our Offer / Bid No. ....dated .....is in full compliance with the documents issued against the Tender No. -----dated -----, except for the deviations listed below:</p> <p><b>LIST OF DEVIATIONS (HCSL reserves the right to reject offers with deviations)</b></p>		
<b>Sl. No.</b>	<b>Tender Reference &amp; Description</b>	<b>Reasons for Deviation/Remarks</b>
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Name of tenderer:</div> <div style="width: 30%;">Name &amp; Designation</div> <div style="width: 30%;">Seal &amp; Signature</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">Date:</div> <div style="width: 30%;"></div> <div style="width: 30%;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;">Seal)</div> <div style="width: 30%;"></div> <div style="width: 30%; text-align: right;">(Company</div> </div>		

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**NEFT MANDATE FORM****(ON THE LETTER HEAD OF THE COMPANY)****Electronic Payment Mandate Form**

(Mandate for receiving payments through RTGS/NEFT Hooghly Cochin Shipyard Ltd)

- 1) Vendor Name
- 2) Vendor Address with Phone No
- 3) Vendor Code
- 4) Permanent Account No. (PAN) 

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- 5) Particulars of Bank Account
- a. Name of the Bank 

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- b. Name of the Branch 

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- c. Branch Code
- d. NEFT Code of the Bank
- e. City Name
- f. Branch Location
- g. Branch Telephone No.
- h. Bank IFSC Code
- i. 9-Digit MICR Code 

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- (Where MICR is starting with "0". Please take the correct code from your bank for proper identification of city, bank, branch)**
- i. Type of the Account (S.B
- Current or
- Cash      Credit)      with      code 

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- (010/011/013)
- j. Account Number (as appearing
- on the cheque book) 

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- 6) Email Address of Vendor
- 7) Date of Effect of RTGS/NEFT in
- your Bank

(Please enclose a cancelled un-signed cheque leaf to enable us to verify the details mentioned above)

We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the company responsible.

(.....)

Signature of Employee

Bank Certificate

We certify that \_\_\_\_\_ has an Account No. \_\_\_\_\_  
with us and we confirm that the details given above are correct as per our records.

Date:

Place:

(.....)  
Authorized official of Bank

**Form of bank Guarantee towards EMD**

(On stamp paper of value Rs. 200/-)

This deed of GURANTEE made on ..... day of .....Two thousand Eighteen between HCSL on the one part and ..... (Name and address of the bank) of the other part is as follows: -

In consideration of the HCSL having allowed M/s..... (Hereinafter referred to as 'the Supplier') to submit Tender No..... to them without Earnest Money according to the conditions of such Tender Notification.

We..... (here enter the name of 'the Bank') a Company incorporated under the .....Act and having its registered office at .....(hereinafter referred to as 'the bank') undertake to pay to HCSL on demand at Kolkata the sum of money payable as Earnest Money in respect of the Tender No.....made by the Supplier, in case the Supplier withdraws the tender before the date of firmness stipulated or when the tender is accepted by or on behalf of the HCSL the Supplier makes default in furnishing the Security Deposit or in entering into an agreement as required by the HCSL or otherwise commits any breach of the terms and conditions of the tender.

We, .....Bank Guarantee to pay the amount due and payable under this guarantee without any demur merely on demand from the HCSL. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The liability of the surety shall be restricted to Rs. ....(Rs..... only)

This guarantee shall not be avoided, released or affected by any variation in the terms of the tender, acceptance or the contract between the Contractor and the HCSL or any neglect indulgence or forbearance by the HCSL.

This guarantee shall remain in full force and effect during the period that would be taken for the finalization of the tender and till the HCSL certifies that the terms and conditions of the said tender have been fully and properly carried out by the Supplier and accordingly discharges this guarantee or for Six Months from the date of issue of this guarantee whichever is earlier. A notice of the claim under this guarantee may be served on the Bank within Six Months after the said period in which case the same shall be enforceable against the Bank notwithstanding the fact that the same is enforced after the expiry of the said period.

The decision of the CEO, HCSL as to whether the occasion or the ground has arisen for the demand of the surety form Bank shall be final. The HCSL shall be at liberty to act as though the Bank were the principal debtor.

We, the said Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the HCSL in writing and agree that any change in the constitution of the said contractor or the said Bank shall not discharge our liability hereunder.

In witness whereof we have hereunto set our hand and seal this. .... day  
..... of.....Two thousand and  
.....

Place:



**VENDOR DETAILS (to be submitted along with BID)**

<b>1</b>	Name of Bidder/Firm	
<b>2</b>	Registered office Address of Company/firm in Kolkata/Howrah: Local office address at Kolkata/Howrah (if held):	
<b>3</b>	Telephone No./Fax No./Mobile No:	
<b>4</b>	E-mail address:	
<b>5</b>	Names of the contact person & Designation:	1)  2)  3)
<b>6</b>	Type of Entity-Proprietorship/Partnership firm/company/NSIC/MSME Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
<b>7</b>	Cost of Tender Details (DD No. Name of Bank)	NIL
<b>8</b>	EMD Details (DD No. Name of Bank)	NIL
<b>9</b>	PAN Card Number (Self-attested copy of PAN card has to be Submitted)	
	GST Registration No. (Self-attested copy has to be Submitted)	
<b>10</b>	Whether the agency has been blacklisted/de barred or given tender holiday or contract terminated before expiry of the contract period by any govt. autonomous bodies/organizations where bidder has provided services earlier due to deficiencies in service or misconduct etc.	Yes/No (Please tick as applicable) If yes, please furnish details on a separate sheet

- **Certified that the above information is true to the best of our belief and information.**

**Place:**

**Date:**

**Signature of Supplier/Authorized signature of firm/agency:**

**Name of Supplier or authorized signatory of firm/agency:**

**Designation:**

**Self-Declaration to be given by the bidder in Letter head**

Bid's Reference No. & Date:

Bidder's Name & Address:

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

1. We do hereby declare that we have not been debarred/black listed by HCSL or by any of the Public Sector Undertaking or Government department etc.

2. If HCSL finds that, we have been blacklisted/ debarred by any of the Public Sector Undertaking or Government department, and then HCSL can reject the offer or terminate the contract at any point of time. In such case, we are aware that, EMD, security deposit, performance guarantee etc. will be forfeited by HCSL. Further we are confirming herewith that, any loss that has happened to HCSL due to this will be compensated by us.

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date: .....

Place.....

**Annexure - 12**

*(Sample Format)*

Details of legal cases pending against the firm for the last five years

<b>SL. NO.</b>	<b>ORGANISATION AGAINST WHOM THE LITIGATION IS INVOLVED</b>	<b>BRIEF DETAILS OF DISPUTE</b>	<b>AMOUNTS INVOLVED (Rs. ....)</b>	<b>PRESENT STATUS</b>	<b>Remarks</b>

**SIGNATURE OF BIDDER**

# TECHNICAL SPECIFICATION OF DECK LEVELING COMPOUND (DRY AREA) FOR IWAI CATAMARAN VESSELS (SUPPLY+LAYING)

## 1. REQUIREMENT

This specification relates to the supply and laying of deck levelling compound (marine grade) for the hybrid electric catamaran vessel which is being built by Hooghly cochin shipyard ltd.

The estimated quantity of items is shown in Clause 4 of this document. The exact quantity will be intimated at the time of Order. Supplier is requested to quote price per Kg which will be considered in case of additional requirements.

## 2. GENERAL

**Type:** Vessel is a Catamaran with Aluminium hull (Grade 5083-H116).

The vessel shall be built under IRS class with the notation:

**5W1WL, 5W1Y, ZONE2, PASSENGER VESSEL, BATTERY PROP**

Statutory review, certification and survey shall be done by IRS as per Inland Vessel Rules 2022 with all amendments as on date of signing of the vessel contract. The Vessel to comply with the following Rules and regulations in force at the time of contract as applicable:

Inland Vessel Act 2021 (24 of 2021) and rules published there under

Rules and Regulations for the Construction and Classification of Inland Waterway Vessels– Indian Register of Shipping

## 3. GUARANTEE

Guarantee of the appliances shall be as per commercial terms and conditions of this tender enquiry.

## 4. TECHNICAL SPECIFICATION FOR DECK LEVELLING COMPOUND (MARINE GRADE)

### 4.1 General:

The following amount of deck levelling compound (marine grade) shall be supplied and execute laying for six vessels. The item shall be manufactured as per the rules and regulations specified in clause 2.

SL.NO	ITEM	REQUIRED AREA
1	DECK LEVELLING COMPOUND (MARINE GRADE)	270 m <sup>2</sup> (45 m <sup>2</sup> /vessel)

#### **4.2 Technical Specifications:**

- a. Lightweight, polymer modified cement-based levelling and fine smoothing compound for aluminium decks shall be supplied.
- b. Average Layer thickness = 6 mm
- c. Density of compound – not greater than 650 kg/m<sup>3</sup>
- d. The material is to be supplied as pre-mixed dry powder; water is added on site of construction.
- e. To meet all fire technical requirements as an underlayment for floor coverings on-board
- f. passenger/merchant vessels and offshore installations according to IMO Res. A.687 (16).
- g. Area of application –Aluminium deck inside Passenger accommodation area. On top of the deck compound, vinyl sheet (yard scope) will be provided as final covering.
- h. Pot life (open time)- Approx. 15-20 minutes (after adding water)
- i. Surface tensile strength to the substrate > 1.0 N/mm<sup>2</sup>
- j. Compressive strength Class C10 28 days: Mean value 12.3 MPa
- k. Flexural strength Class F2,5 28 days: Mean value 3.2 MPa
- l. Shrinkage 28 days: less than 0.4mm/m
- m. Physical requirements (Reaction to fire) Fire class: A2fl-s1 A1301 Primary deck covering, Marine.
- n. Chemical requirements (of cured material) Hardened material: pH 11
- o. Wear resistance (Rolling wheel) RWFC 250.

#### **5. TECHNICAL DOCUMENTATION REQUIREMENTS**

All documents shall be in English and in the Metric system and the following documents shall be submitted, where applicable.

##### **a. Documents to be submitted along with quotation**

1. List of items quoted.
2. List of spares / tools as required by rules and regulations/statutory requirements.
3. List of items, if any, not covered in your scope of supply.
4. Preliminary documents with description, size, weight, etc.
5. Material safety data sheet

##### **b. Documents / Certificates to be supplied along with the delivery of items**

1. Material safety data sheet
2. Documents describing the procedures for mixing, application, curing time, after treatment, and field of application of the quoted product.
3. Shelf life of the offered product
4. Detailed Packing list.

#### **6. OTHER REQUIREMENTS**

1. **Preservation:** Recommended method of preservation and names of recommended preservatives shall be indicated. Relative humidity at Howrah is around 90%.

2. **Weight:** Weighed weight of the items should not exceed the estimated weight and should be certified by the inspecting authority.
3. If there is any discrepancy between this specification and the Maker's quotation, Maker should notify them on the quotation sheet

#### 7. **CONDITIONS OF WORK**

1. The items shall be manufactured with best worldwide recognized marine practice quality material and workmanship.
2. Design, material, construction, and workmanship shall be in compliance with the requirements of the classification societies/regulatory bodies concerned.
3. All items shall be supplied from current production batches. Date of manufacturer and expiry shall be stamped on the items. Items shall be duly preserved after testing and inspection against corrosion and other detrimental effects in storage due to the highly humid condition in Howrah.

#### 8. **COMPLIANCE MATRIX**

A compliance matrix in the following format shall be submitted by the supplier along with the offer. Deviations from the Technical specification shall be specifically indicated.

<b>Technical specification Para reference</b>	<b>Para reference</b>	<b>Compliance</b>	<b>Remark if any</b>

#### **NOTE:**

Notwithstanding any omission in this specification, all items/ features required as per class rules/ statutory regulations, safe working and good ship building practice shall be included in the scope of this tender.

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**TECHNICAL SPECIFICATION FOR IWAI CATAMARAN VESSELS EPOXY  
DECK COVERING SCHEME (MARINE GRADE)- WET AREA  
(SUPPLY+LAYING)**

**1. REQUIREMENT**

This specification relates to supply and laying of Epoxy Deck covering as per the details below for the vessels being built by HOOGHLY COCHIN SHIPYARD LTD.

The estimated quantity of items is shown in Clause 6 of this document. The exact quantity will be intimated at the time of Order. Supplier is requested to quote price per Kg which will be considered in case of additional requirements.

**2. GENERAL**

Type: Vessel shall be **ELECTRIC CATAMARAN** with Aluminium hull.

The vessel shall be built under IRS class with the notation:

**5IW1, 5IY, ZONE2, PASSENGER VESSEL, BATTERY PROP**

Statutory review, certification and survey shall be done by IRS as per Inland Vessel Rules 2022 with all amendments as on date of signing of the vessel contract. The Vessel to comply with the following Rules and regulations in force at the time of contract as applicable:

Inland Vessel Act 2021 (24 of 2021) and rules published there under

Rules and Regulations for the Construction and Classification of Inland Waterway Vessels– Indian Register of Shipping

**3. GUARANTEE**

Guarantee of the appliances shall be as per commercial terms and conditions of this tender enquiry.

**4. DESIGN CONDITIONS**

Hull Material: Aluminium Grade 5083-H116

**5. TECHNICAL SPECIFICATION FOR LIGHT WEIGHT EPOXY DECK COVERING SCHEME (MARINE GRADE)  
SUITABLE FOR WET AREAS.**

**5.1 'SUTEF 42' - PRIMER****a. Description:**

SUTEF 42 is a two-part 100% solid epoxy resin priming System. It has low viscosity with max penetration soaking into the capillary pores. It also strengthens the top layer of substrate. It has excellent adhesion to any Substrate. It is compatible with subsequent epoxy and polyurethane top coat. Spread Quartz within 20 minutes of SUTEF 42 application.

**b. Characteristics:**

- i) Mixing Ratio : Base: Hardener- 2:1 (By Weight)
- ii) Pot Life : 04 hrs. at 25°C in 01kgmix
- iii) Coverage : 0.2 kg/ M2
- iv) Shelf Life : 12 months in Sealed Container
- v) Touch Dry : 04 hrs. at 25-30°C.
- vi) Coating Interval : 08-10 hrs. at 30°C

**c. Technical Specifications - 'PRIMER'.**

The technical specifications and standards of acceptance of SUTEF 42 Primer are as per Table

**Table No. 1 : Standards of Acceptance Primer**

SI .No	Property	Test Method	Specified Value
1	Density (gm/cc)	IS 101	<1.2gm/cc
2	% Volatile Matter	IS 101	≤45%
3	Moisture Absorption	As per Appendix-II of NCD 1471 Issue 1, Part 2	≤0.5%
4	Accelerated Corrosion Test	As per Appendix-IV of NCD 1471 Issue 1, Part 2	No signs of rusting or corrosion on steel plate.
5	Flexibility	As per Section 5.6 of NCD 1471 Issue 1, Part 2	Should not crack or detach

**5.2 'SUTEF LT 44' – UNDERLAY****a. Description:**

SUTEF LT 44 is a solvent free three pack system. Pack A is an Epoxy resin based compound containing mineral filler, fire resistant chemical, plasticizer, stabilizer etc. Pack B is a hardener which on mixing with Pack A produce a polymeric thermosetting network after curing. The end product is a Tough matrix which is anti-corrosive in nature and produces an impervious



barrier to water and moisture to protect the deck from corrosion. It is also resistant to fire and provides electrical and thermal insulation properties.

**b. Characteristics:**

- i) Mixing Ratio : Base: Hardener- 2:1:1-4 (By Weight)
- ii) Pot Life : 04 hrs. at 25°C in 01kgmix
- iii) Coverage : 1-1.2 kg/ m2 for thickness of 6 - 4 mm.
- iv) Shelf Life : 12 months in Sealed Container
- v) Dry Time : 06 - 08 hrs. at 30°C.

**C. Technical Specifications - 'UNDERLAY'**

The technical specifications and standards of acceptance of Sutef 44 LT Underlay are as per Table 2.

**Table No. 2 : Standards of acceptance Underlay**

SI .No	Property	Test Method	Specified Value
1	Density	Appendix-I of NCD 1471 Issue 1, Part 1	$\leq 1.2$ GM/CC
2	Moisture Absorption	Appendix-II of NCD 1471 Issue 1, Part 1	$\leq 2\%$
3	Electrical Conductivity	ASTM D-257	$\geq 100$ mega ohm-cm
4	Thermal conductivity	IS 9490	$\leq 0.32$ kcal/m/hr. °C
5	Flexural Strength	IS 9162	$\geq 10$ N/mm <sup>2</sup>
6	Compressive Strength	IS 9162	$\geq 20$ N/mm <sup>2</sup>
7	Toxicity Index	NCD 1409	$\leq 1.50$
8	Smoke Index	NCD 1411	$\leq 100$
9	Limiting Oxygen Index	NCD 1410	$> 35$
10	Adhesion Test	Appendix-III of NCD 1471 Issue 1, Part 1	$\geq 1.05$ N/mm <sup>2</sup>
11	Accelerated Corrosion Test	Appendix-IV of NCD 1471 Issue 1, Part 1	No sign of rusting or corrosion of the steel plate
12	Fire Resistance Test	Appendix-V of NCD 1471 Issue 1, Part 1	Self-extinguishing on removal of heating source

**6. QUANTITY REQUIRED**

Quantity required & included in the supplier scope for each set is given below.

**Table No. 3 : Total Quantity required for 6 vessels**

<b>SI .No</b>	<b>Description</b>	<b>Quantity</b>
1	SUTEF 42 RESIN	10 KG
2	SUTEF 42 HARDNER	5 KG
3	SUTEF 42 FILLER	10 KG
4	SUTEF 44 RESIN	20 KG
5	SUTEF 44 HARDNER	15 KG
6	SUTEF 44 LT FILLER	100 KG
7	PIGMENT	1 KG

Please note that supplier to include any other components required (Other than the above items mentioned) for the successful installation of the offered deck covering scheme using SUTEF 42 & SUTEF 44LT.

There is no requirement of any epoxy top coat above the SUTEF 44LT.

## **7. GUARANTEE**

As per commercial terms and conditions.

## **8. SUPPLY OF DOCUMENTS**

All documents shall be in English and in Metric system and the following documents shall be submitted, where applicable.

### **a. Documents to be submitted along with quotation**

1. List of spares / tools as required by rules and regulations/statutory requirements.
2. List of items, if any, not covered in your scope of supply.
3. Preliminary documents with description, size, weight, etc.
4. Material safety data sheet

### **b. Documents / Certificates to be supplied with each equipment**

1. Material safety data sheet
2. Documents describing the procedures for mixing, application, curing time, after treatment, filed of application of the quoted product.
3. Shelf life of the offered product
4. Detailed Packing list.

## **11. MISCELLANEOUS**

a) Manufacturer shall bear all responsibility for the shop trials and delivery of the items to shipyard with necessary execution of work at site..

**b) Preservation:** Recommended method of preservation and names of recommended preservatives shall be indicated. Preservative required for one years' storage in the yard shall be supplied with the item. (Relative humidity at Howrah is around 80%.)

**c) Design, Material, Construction and Workmanship:** To be in accordance with the best world-wide recognized marine practice to ensure reliability, durability and easy maintenance, and to be in compliance with the requirements of the classification societies/regulatory bodies concerned.

**d) Weight:** Weighed weight of the items should not exceed the estimated weight and should be certified by the inspecting authority

**NOTE:**

**Notwithstanding any omission in this specification, all items/features required as per class rules/statutory regulations, safe working and good shipbuilding practice shall be included in the offer by the bidder.**

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