



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



वसुधैव कुटुम्बकम्  
ONE EARTH • ONE FAMILY • ONE FUTURE

Tender No: HCSL/OPS/SB/TEN/043/2024-25 dated 30.07.2024

**NOTICE INVITING TENDER**

**Turnkey Electrical Outfit Works And Supply Of Related Items For 06 Nos. Hybrid Aluminium Catamarans At HCSL, Nazirgunge Unit, Howrah**

Password protected quotations in the prescribed format are invited on behalf of Hooghly Cochin Shipyard Limited (HCSL) from experienced contractors for the under mentioned work, so as to reach the undersigned on or before the date and time mentioned below. Please refer Scope of Supply, General Terms and Conditions and Special Terms attached.

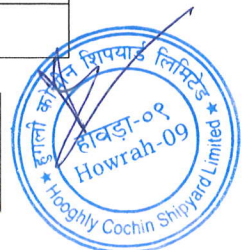
Tender No. & date	HCSL/OPS/SB/TEN/043/2024-25 dated 30.07.2024
Scope of Supply / Work	Turnkey electrical outfit works and supply of related items for 06 nos. Hybrid Aluminium Catamarans at HCSL, Nazirgunge unit, Howrah (Detailed specification is enclosed separately)
Type of Tender	Two Bid
Cost of tender form	N.A.
Earnest Money Deposit (EMD)	Rs. 54,000/-
Last date & time of receipt of tender	09.08.2024 at 1500 Hrs.
Date & time of opening of technical bid	09.08.2024 at 1530 Hrs. (10 days from the date of floating tender).
Work duration	For each ship, duration is within 35 days (including material supply) from the date of Work Order or intimation of site clearance by Project Manager (05 days for manpower mobilization and 30 days for job completion).
Prebid meeting	05.08.2024, 10.30 AM



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





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Officer - in - Charge	<b>For Commercial:</b> Name : Vijay Singh Designation : Manager (SC&C) Email : <a href="mailto:vijay.singh@hooghlycsl.com">vijay.singh@hooghlycsl.com</a> Phone No: : +91 86870 69271
	<b>For Technical:</b> Name : Siva Prasad Designation : Manager (Electrical) Email : <a href="mailto:sivaprasad.sp@hooghlycsl.com">sivaprasad.sp@hooghlycsl.com</a> Phone No: : +91 9487017033

Tender to be submitted by E-mail only. No hard copy quotation of the bid will be accepted.

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 and subject as in-line with the scope of supplies* in the Mail addressed to:

[vijay.singh@hooghlycsl.com](mailto:vijay.singh@hooghlycsl.com) / [sivaprasad.sp@hooghlycsl.com](mailto:sivaprasad.sp@hooghlycsl.com)

#### PRE-BID MEETING

- Pre-bid meeting shall be conducted at HCSL conference room on 05.08.2024, at 10.30 AM with prospective bidders to clarify any concerns bidders may have with the tender documents, scope of work and other technical details of the requirement.
- Firms can attend the pre-bid meeting, bidders desirous of attending the pre-bid meeting are to forward the details of attending persons (with Aadhaar card details) latest by 03.08.2024 at 1700 Hrs. to Manager (SC&C) at e-mail address [vijay.singh@hooghlycsl.com](mailto:vijay.singh@hooghlycsl.com)



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)

Shipyard: Nazirgunge Unit, Satyen Bose Road, P.O. Danesh SK Lane,  
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☎ +91 (33)-2955 8283

CIN : U35900WB2017GO/223197, GSTIN : 19AAECH3640L1ZD

The tender documents can be downloaded from HCSL Website [www.hooghlycsl.com](http://www.hooghlycsl.com), CSL website [www.cochinshipyard.in](http://www.cochinshipyard.in) or <http://www.eprocure.gov.in>. The tender documents are available on above mentioned link. All corrigenda, addenda, amendments and clarifications to this tender will be hosted in the website [www.hooghlycsl.com](http://www.hooghlycsl.com), [www.cochinshipyard.in](http://www.cochinshipyard.in) or <http://www.eprocure.gov.in> and not in the newspaper. Bidders shall keep themselves updated with all such developments till the last date and time of submission of tender.

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

Officer - in - Charge for the above work:

Tendering – Commercial :

Name : Vijay Singh

Designation : Manager (SC&C)

Email : [vijay.singh@hooghlycsl.com](mailto:vijay.singh@hooghlycsl.com)

Phone No: : +91 86870 69271

Technical:

Name : Siva Prasad

Designation : Manager (Electrical)

Email : [sivaprasad.sp@hooghlycsl.com](mailto:sivaprasad.sp@hooghlycsl.com)

Phone No: : +91 9487017033

Name : Shanmugh H

Designation : Asst. Manager (Electrical)

Email : [shanmugh.h@hooghlycsl.com](mailto:shanmugh.h@hooghlycsl.com)

Phone No : +91 9344469328

**For Hooghly Cochin Shipyard Limited**

**Minimum Qualification Criteria For Participating In The Tender Will Be As Follows:**

- a. The Bidder shall be a single firm having experience in Electrical outfitting works or turnkey works in at-least one full vessel for Shipbuilding/ Shipyards.
- b. Experience as contractor in the successful execution / completion of **similar scope of work** in preceding 3 years. (Satisfactory completion certificate and Work-order /Purchase Order from the Client for work done should be submitted along with bid). Vendor should have completed and submit the details of work experience in preceding 03 FY years (2021-22, 2022-23, 2023-24) of similar nature of works as:

**01 (one) work order** of value at least Rs. **24 lakhs in past 3 FY's**

OR

**02 (Two) work orders** of value at least Rs. **15 lakhs each in past 3 FY's**

OR

**03 (Three) work orders** of value at least **Rs. 12 lakhs each in past 3 FY's**

Similar scope of work means: "The experience of successfully completed Electrical outfitting works or turnkey works in at least one vessel for Shipbuilding/ Shipyards.

Experience within the past 3 years ending last day of month previous to one in which applications are invited are only considered.

- c. The Bidder should furnish the required work-specific information and satisfactory documentary evidence such as copy of work order / agreement and a certificate from the employer for satisfactory completion of work along with the GST Invoice or any other relevant document indicating completion of work shall be submitted to HCSL in support of its claim of experience.
- d. The executed project shall comprise of complete work having comparable nature to that of Electrical outfitting works on turnkey works. If the experience claimed by the bidder is of no relevance with respect to Electrical outfitting works or turnkey works, then such experience will not be considered for pre-qualification. Decision taken by HCSL in this regard will be final.

**Common Requirements from the Bidders:**

Following documents are required to be submitted by the bidders along with the Techno-commercial Bid (Part – I) submission:

- e. The Tenderer should enclose copy of statutory documents **PAN, GST registration certificate, Income tax returns for last three FY (2020-21, 2021-22, 2022-23)** or for **AY (2021-2022,2022-2023,2023-2024)**.
- f. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years, FY (2020-21, 2021-22, 2022-23) should be submitted along with the application for prequalification. **Net worth of the bidder must be positive as per the latest balance sheet of FY 2022-23. (MSE/NSIC may get exemptions as per prevailing Govt. norms).**
- g. The average annual turnover of the bidder should be at least **Rs. 15 lakhs** during the last three preceding FY years (2020-21, 2021-22, 2022-23).
- h. Bidder shall not be under a declaration of ineligibility issued by Govt. of India/ State govt./ Public Sector Undertakings etc. The bidder shall not have been debarred / black listed by CSL/HCSL or by any of the Public Sector Undertaking or Government department etc.

**For Hooghly Cochin Shipyard Limited**

## TABLE OF CONTENTS

Sl. No.	Description	Annexure
1	Scope Of Work & Technical Specification	<b>Annexure-1</b>
2	Instruction To Bidders	<b>Annexure-2</b>
3	Terms & Conditions of Enquiry	<b>Annexure-3</b>
4	General Terms & Conditions	<b>Annexure-4</b>
5	Techno-Commercial Checklist	<b>Annexure-5</b>
6	Price Bid Format	<b>Annexure-6</b>
7	Vendor details	<b>Annexure-7</b>
8	NEFT Mandate Form	<b>Annexure-8</b>
9	List of deviation	<b>Annexure-9</b>
10	Form of Bank Guarantee towards EMD	<b>Annexure-10</b>
11	Form of Bank Guarantee towards SD	<b>Annexure-11</b>
12	Power of Attorney	<b>Annexure-12</b>
13	Form of Self Declaration	<b>Annexure-13</b>
14	Form of legal cases	<b>Annexure-14</b>
15	Declaration- Border sharing & Make in India	<b>Annexure-15</b>

**For Hooghly Cochin Shipyard Limited**

Signature and Seal of the Bidder(s)

## **SCOPE OF WORK & TECHNICAL SPECIFICATION FOR SUPPLIES**

The work comprises in the tender includes Turnkey Electrical Outfit Works And Supply of related items as per Annexure 1 for **06 Nos. Hybrid Aluminium Catamarans** at HCSL, Nazirgunge unit, Howrah. This document contains the general details of project, detailed scope of work and Technical Specifications for the scope of supply as listed below :

### **SECTION A: GENERAL DETAILS OF THE PROJECT .....**

1. **Type of Vessel.....**
2. **Main Particulars of Vessel .....**
3. **Operational Requirements .....**
4. **Rules And Regulations .....**
5. **Registration .....**
6. **Design Conditions .....**
7. **Guarantee/ Warranty .....**
8. **Materials .....**
9. **Workmanship.....**
10. **Scope of Contractor .....**

### **SECTION B: DETAILED SCOPE OF WORK.....**

12. **Fabrication and Installation of coaming .....**
13. **Installation of panels and main junction boxes .....**
14. **Installation and termination of equipment's, instruments and lights .....**
15. **Cable laying, ferruling, securing, glanding, cable tallies and termination: .....**
16. **Installation of Cable trays and Saddles.....**
17. **Commissioning assistance and testing of equipment .....**

### **SECTION C: TECHNICAL SPECIFICATION FOR ITEM SUPPLY .....**

18. **Technical Specifications of Gland sealant compound: .....**
19. **Technical Specifications of Lights and Emergency lights: .....**
- 19.1. **Normal Lights fixture with luminaire .....**
- 19.2. **Emergency Light fixture with luminaire.....**
20. **Technical Specifications of Receptacles: .....**
- 20.1. **Receptacle with switch 6A .....**
- 20.2. **Receptacle with switch 16A .....**
- 20.3. **Receptacle with switch for bilge pump .....**
21. **Technical Specifications of Junction boxes: .....**
22. **Technical Specifications of Special Connectors/ Communication Cables: .....**
23. **Technical Specifications of Earthing bus-bar and bus supports: .....**
24. **Technical Specifications of Nylon sheet .....**

## **SECTION A: GENERAL DETAILS OF THE PROJECT**

### **1. Type of Vessel**

Vessel type	:	Electric Hybrid Catamaran with twin aluminium hulls
Passengers	:	50 Pax. (Including crew)
Propulsion	:	Conventional FPP with twin screw
Hull & main deck	:	Marine grade Aluminium
Super structure	:	FRP

The Propulsion system shall be Electric motors driven, supported by Batteries, capable of being charged by electric supply from grid ashore. Diesel Generators shall be provided on board for hybrid operation and Diesel mode operation.

### **2. Main Particulars of Vessel**

The following are the approximate principal dimensions for 50 Pax Vessel

Length Overall (Hull)	:	24.8m approx.
Breadth (mld.)	:	6.40 m approx.
Breadth of Demi Hull (mld.)	:	2 m approx.
Freeboard	:	0.8 m approx.
Mean Draught (mld.)	:	0.9 m approx.
Air draft	:	4.3 m approx.

### **3. Operational Requirements**

Economic Speed	:	7 knots
Max. Speed	:	9 knots (Hybrid Mode)
Max. Battery Endurance at Economic Speed	:	abt.75 mins
Endurance at Hybrid Mode @7knots	:	abt. 120 mins

Post commissioning, the vessels are intended to operate in the Inland waterways of Ayodhya, Varanasi, Guwahati and Mathura.

### **4. Rules And Regulations**

#### **➤ Classification**

The vessel shall be built under **IRS** with the following IRS Class Notation

**⚡ IWL, ⚡ IY, PASSENGER VESSEL, ZONE 2, 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 submission of the offer.

#### **➤ Rules and Regulations**

The Vessel to comply with the following Rules and Regulations in force at the time of contract as applicable:

- a) Inland Vessel Rules 2022 with all amendments as on date of submission of the offer.

- b) Rules and Regulations for the Construction and Classification of Inland Waterway Vessels - Indian Register of Shipping.

## **5. Registration**

- 5.1. The Vessels shall be registered as an Inland Water Self Propelled Passenger Vessel as per Inland Vessel Rules 2022.

## **6. Design Conditions**

- 6.1. The vessel should be able to perform consistently under the following condition

- a. Significant wave height : 1.2 m
- b. Maximum ambient temp : 40 deg C (the temperature inside the motor room, battery room, DG rooms to be considered as 50 Degree C)
- c. Relative Humidity : 90 %
- d. Water Temperature : 32 deg C
- e. Salt and chemical corrosion as found in a tropical coastal area

## **7. Guarantee/ Warranty**

- 7.1. Refer to commercial terms and conditions in Annexure-III for details.

## **8. Materials**

- 8.1. All materials, machinery, equipment, appurtenances and outfit which are supplied shall be new, good commercial quality, and carefully selected for the purpose they are intended to serve.
- 8.2. All materials shall conform to relevant national or international standards as applicable.
- 8.3. Care shall be taken during design, commissioning, testing etc. that all materials and equipment are suitably protected and preserved. Any defective portion of the work shall be replaced or rectified satisfactorily.
- 8.4. All tools & tackles, instruments and safety PPE's used for the successful completion of work shall be under the scope of the Contractor.

## **9. Workmanship**

- 9.1. Contractor shall employ skilled workers for the successful completion of the work in-order to meet the Yard and Class quality requirements. The employed workers shall be well aware of safety rule are regulations in force and as amended. The Contractor must ensure that sufficient manpower is available to complete the work within timeline and without causing damage to cable or equipment.

## **10. Scope of Contractor**

- 10.1. Please refer Annexure 3 Para 4.

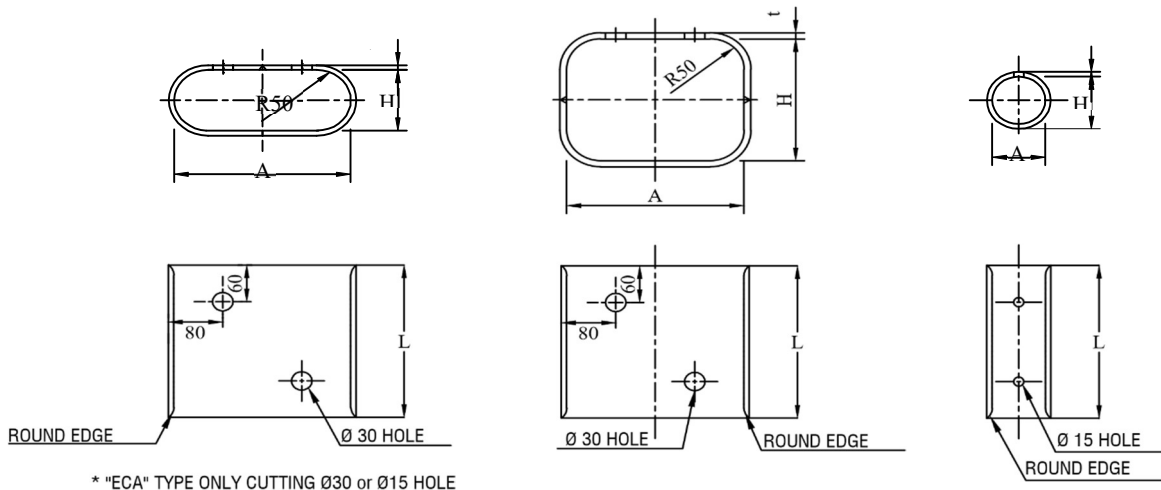


## **SECTION B: DETAILED SCOPE OF WORK**

### **11. Fabrication and Installation of coamings**

I	Fabrication and installation of coaming (Scope of work – material supply including welding rod-HCSL; Other consumables -Vendor)	20 Nos per vessel
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- 11.1. Fabrication of coamings is to be as per the vessel outfitting standards shall be done by the contractor. The scope of supply of aluminium material (AL-5083 and AL-6082), compressed air and welding rod **shall be under yard scope**, the other consumables like argon/helium and the machineries required for the fabrication is under the scope of Contractor. Vessel outfitting standards will be shared after the award of contract/ signing of non-disclosure agreement.
- 11.2. Installation of coaming shall be under scope of the Yard. The supply of coaming filling sealant (technical specification attached separately) as per BOQ and filling to be done with full satisfaction to Yard QC and Class is under scope of the Contractor. The Coamings are to be water tight and fire resistant.
- 11.3. Cable laying through deck and bulkhead penetrations in FRP super structures also need to be packed with watertight sealants as per the Yard standards done with full satisfaction to the Yard QC and Class is under scope of the Contractor.



### **12. Installation of panels and main junction boxes**

- 12.1. Supply of major panels and fabrication of foundation of major panels as per Annexure-1 is in the scope of the Yard. The Contractor shall supply minor junction boxes as per BOQ.
- 12.2. Installation of panels listed as per Annexure-1 and the Contractor supplied JB as per BOM is under the scope of Contractor. The scope of supply of fasteners (SS316 nuts-bolts and nylon washers) for the installation of panels is in the scope of Contractors and to be done as per Yard standards with full satisfaction of the Yard QC and Class. Earthing of panels are to be as per Class requirements and the Yard standards. The earthing terminations are under scope of Contractor. Yard shall provide the necessary cables for earthing; Contractor shall provide the necessary lugs for end connection

II	<b>Installation and terminations of panels and main JB (Scope of work material supply - HCSL; Consumables and fasteners -Vendor scope)</b>	<b>Approx. Weight</b>	<b>Quantity</b>
1	DC Switch board	300 Kgs	1
2	AC Switch board	240 Kgs	1
3	CCMS Panel-P&S	140 Kgs	1
4	VAS Panel-S	40 Kgs	1
5	VAS Panel-S	40 Kgs	1
6	Capacitor Bank-P	150 kgs	1
7	Capacitor Bank-S	150 kgs	1
8	Transformer Bank-415VAC-50kVA-P	220 Kgs	1
9	Transformer Bank-415VAC-50kVA-S	220 Kgs	1
10	Transformer Bank-230VAC-25kVA	180 Kgs	1
11	Starter Panel-1	40 Kgs	1
12	Starter Panel-2	40 Kgs	1
13	Starter Panel-3	40 Kgs	1
14	Starter Panel-4	40 Kgs	1
15	Starter Panel-5	40 Kgs	1
16	Starter Panel-6	40 Kgs	1
17	Converter (VFD)-60kW-1	22 Kgs	1
18	Converter (VFD)-60kW-2	22 Kgs	1
19	Converter (VFD)-60kW-3	22 Kgs	1
20	Converter (VFD)-60kW-4	22 Kgs	1
21	Converter (VFD)-60kW-5	22 Kgs	1
22	Converter (VFD)-60kW-6	22 Kgs	1
23	Converter (VFD)-60kW-7	22 Kgs	1

24	JBs and Minor Panels	5 Kgs	10
25	Pre-Charge Circuit	15 Kgs	1
26	LCL Filter	130 Kgs	2
27	LC filter	75 Kgs	2
28	Temperature sensor and displays	2 Kgs	10
29	Minor panels, JB's and receptacles	2 Kgs	25
30	Lighting DBs	40 Kgs	2
31	Power DBs	90 Kgs	3
32	Steering gear panel	40 Kgs	1
33	Steering gear relay panel	40 Kgs	1
34	JBs 100x100 to 350x350 sizes	4 Kgs	20
35	Propulsion battery panel and BMS panel	300+40 Kgs	2
36	Battery charger and battery box in wheelhouse	40 +180 Kgs	2
37	Shore connection box AC	50 Kgs	1
38	DC shore charging socket box	15 Kgs	2
39	DG auxiliary battery charger	40 Kgs	1
40	ESFC6401A-Capacitor box	50 Kgs	1
41	ESFC6402A-Capacitor box	50 Kgs	1
42	Isolation panel for motor controller-1	30 Kgs	1
43	Isolation panel for motor controller-2	30 Kgs	1
44	ESF6401B-EMC Filter	30 Kgs	1
45	ESF6402B-EMC Filter	30 Kgs	1
46	FUSE BOX1	50 Kgs	1
47	FUSE BOX2	50 Kgs	1

### 13. Installation and termination of equipment, instruments and lights

- 13.1. Supply of FRP wheel house console and equipment (Nav-com equipment and antennas in the mast, fire-detection, public address, and other equipment in wheel house console including the drop plate for propulsion, steering gear, pump control general alarms etc), instruments (rudder angle indicators, drop-in plate for navigation lights etc) **shall be under the scope of the Yard.**
- 13.2. The Contractor shall do installation and provide terminal connections for equipment (Nav-com equipment and antennas in mast, fire-detection, public address, and other equipment in wheelhouse console including the drop plate for propulsion, steering gear, pump control general alarms etc) and instruments (rudder angle indicators, drop-in plate for navigation lights etc). The list of major items is given in table-III below. The Contractors shall supply fasteners (SS316 nuts-bolts and nylon washers) for installation. The Contractor should provide and ensure proper earthing of all panels as per the Yard/IEC standards. The cables for earthing is under scope of the Yard, termination accessories like lugs and heat shrink sleeves/tapes shall be in the scope of Contractor.

III	Installation and termination of equipment and instruments (Instruments supply - HCSL; Fasteners/Consumables - Vendor)	UOM	QTY
	<b>Lights</b>		
	Installation of normal lights above main deck	Nos.	20
	Installation of emergency lights above main deck	Nos.	20
	Installation of normal lights below main deck	Nos.	12
	Installation of emergency lights below main deck	Nos.	12
	<b>RAI</b>		
	Rudder angle indicator	Nos.	8
	<b>MFD</b>		
	Installation of Multifunctional Display in Wheel house console	Nos.	1
	<b>VHF unit</b>		
	Installation of VHF with fist-mic on wheelhouse console	Nos.	1
	Installation of VHF antenna on main deck fwd	Nos.	1
	<b>Electric horn</b>		
	Installation of Electric horn on wheel house top	Nos.	1
	Installation of Electric horn push button in wheel house console	Nos.	1
	<b>AIS</b>		
	Installation of AIS transponder inside Wheel house	Nos.	1
	Installation of AIS GPS antenna on wheel house top	Nos.	1
	Installation of AIS VHF antenna on main deck fwd	Nos.	1
	<b>Searchlight</b>		
	Installation of Search light on wheelhouse top	Nos.	1

	Installation of Search light remote control panel on wheelhouse console	Nos.	1
	<b>Navigation light</b>		
	Installation of Navigation light control panel on wheel house console	Nos.	1
	Installation of navigation light on wheel house top	Nos.	8
	Installation of Inverter of navigation control panel inside wheel house console	Nos.	1
	<b>Electronic Compass</b>		
	Installation of Electronic compass display unit on wheel house console.	Nos.	1
	Installation of Electronic compass GPS antenna unit on wheel house top.	Nos.	1
	<b>CCTV</b>		
	Installation of CCTV display on wheel house console	Nos.	1
	Installation of CCTV NVR in wheel house	Nos.	1
	Installation of CCTV POE Switch in wheel house	Nos.	1
	Installation of PTZ camera	Nos.	4
	Installation of dome camera	Nos.	11
	<b>Fire Detection System</b>		
	Installation of FDS control panel on wheel house console	Nos.	1
	Installation of manual call point	Nos.	12
	Installation of smoke detector	Nos.	9
	Installation of heat and smoke detector	Nos.	6
	Installation of hooter with flasher	Nos.	11
	<b>PA System</b>		
	Installation of Gooseneck remote mic on wheelhouse console	Nos.	1
	Installation of ceiling speakers	Nos.	6
	Installation of horn speaker	Nos.	3
	Installation of mixer amplifier in wheel house	Nos.	1
	Installation of pre amplifier unit in wheel house	Nos.	1
	Installation of PA controller unit in wheel house	Nos.	1

#### **14. Cable laying, ferruling, securing, glanding, cable tallies and termination:**

14.1. **Supply of all cables are under the scope of the Yard only.** The scope of cabling includes with laying of cables as per the Yard cable schedule, securing of cables, glanding and termination complying with vessel standards is in the scope of the Contractor. The area of cable laying includes the full vessel span from inside hull, superstructure and weather decks. All the Converter (for Hotel load converter, DC-DC converter, AC-DC converter for DG) cable glanding shall be EMC compliant

type and others shall be double compression (armoured cables & control cables) or PG glands (for speciality cables, CCTV cables, manual call points etc). The ferrule and cable tally ID details will be separately shared during the placement of workorder, contractor to supply, install the same during termination stage. Ethernet cable requires crimping and crimping tool for termination and Contractor should ensure the availability of necessary tools and tackles. Proper securing of cables to be done using SS cable ties and cable bands as per standards and Contractor to provide accessories for securing cables. **The approximate size & length of cables to be laid are as below, sizing of cable glands to be calculated accordingly, EMC glands are required for G-VFD cables-Class5.**

SL.NO.	MATERIAL CODE	TYPE OF CABLE	APPROX. - GLANDING/ TERMINATION/ TALLIES	APPROX. QUANTITY /VESSEL IN METER
	<b>Armoured Power and Control Cables 0.6/1KV, Class 2</b>			
1		PC 1Cx16	6	60
2		PC 1Cx4	10	75
3		PC 2Cx1.5	218	2340
4		PC 2Cx2.5	22	245
5		PC 2Cx4	12	160
6		PC 2Cx6	10	140
7		PC 3Cx1.5	40	410
8		PC 3Cx10	4	40
9		PC 3Cx16	6	42
10		PC 3Cx2.5	4	25
11		PC 3Cx4	18	210
12		PC 3Cx6	8	40
13		PC 4Cx16	4	35
14		PC 4Cx2.5	46	385
<b>B</b>	<b>Armoured Power and Control Cables 0.6/1KV, Class 5</b>			
15		PCB 1Cx35 cls5	6	60
16		PCB 1Cx50 cls5	6	40
17		PCB 1Cx70 cls5	10	75
18		PCB 2Cx35 cls5	8	30
19		PCB 2Cx70 cls5	8	55
20		PCB 3Cx50 cls5	12	85
21		PCB 3Cx35 cls5	4	25
<b>C</b>	<b>Unarmoured Power and Control Cables 0.6/1KV, Class 2</b>			
22		PN 2 X 1.5 +E	12	155
23		PN 2 X 2.5 +E	10	70
24		PN 3x1.5+E	8	90
<b>D</b>	<b>Fire resisitant Armoured Power and Control Cables, 0.6/1KV, Class 2</b>			
25		PCF 2 X 2.5		325
<b>E</b>	<b>Armoured Instrumentation and Control Twisted Pair Cable 250V,Class 2</b>			

26		TC 16Cx1	2	45
27		TC 16Cx1.5	6	95
28		TC 1X2X0.75	220	1835
29		TC 2Cx1.5	30	220
30		TC 3Cx1.5	6	125
31		TC 4Cx1.5	8	50
32		TC 4P x 0.75	136	930
33		TC 4Px0.75	20	185
34		TC 7Px0.75	30	185
35		TC 8Px0.75	15	150
<b>F</b>	<b>Fire resistant Armoured Instrumentation and Control Twisted Pair Cable 250V,Class 2</b>			
36		TCF1X2X0.75	80	325
<b>G</b>	<b>Armoured Power Cables 1.8/3KV, VFD, Class 5</b>			
37		PCBVFD 1.8/3KV 1X50	56	405
38		PCBVFD 1.8/3KV 1X70	54	345
39		PCBVFD 1.8/3KV 1X95	8	50
<b>H</b>	<b>Armoured and Pair screened Instrumentation and Control Twisted Pair Cable 250V,Class 2</b>			
40		TCI 2Px1.5	36	305
41		TCI 4Px0.75	10	70
<b>I</b>	<b>Special Cables</b>			95
42		Ethernet CAT-7		150
43		CAN BUS CABLE 2X2X0.34	30	280
44		2P x1 MODBUS	10	95
45		3P x1 RTD CABLE	24	180

#### Specification for EMC Glands:

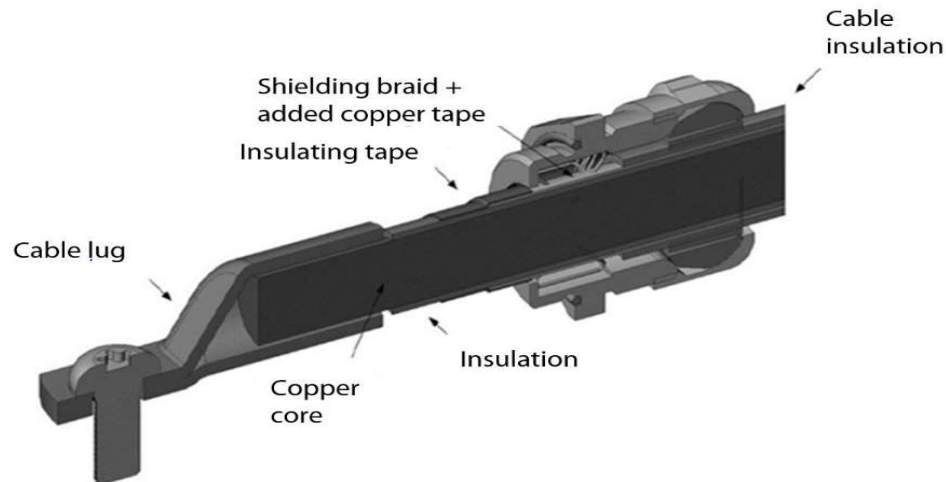
Size : M25 cable glands EMC compliant

Passage :16MM Max

Material gland body : Brass (Nickel Plated Body)

Make : PFLITSCH, HUMMEL AG or Reputed make

An example of correctly installed EMC cable gland and shielded AC power cable



## 15. Installation of Cable trays and Saddles

15.1. **All the hot work in connection with the Installation of all cable tray supports and saddles shall be under the scope of the Yard.** Installation of cable trays using fasteners (SS316 nuts-bolts and nylon washers for cable trays will supplied by yard for this case only) **for tray support is in the scope of Contractor.** The Contractor shall do the necessary marking for the tray support and saddles as per the Yard drawings, so as to prevent re-work cable route. However, any minor changes required in tray route at the time of equipment installation/cable termination to be done by the Contractor only.

## 16. Commissioning assistance and testing of equipment

16.1. The Contractor shall provide commissioning assistance so as to ensure successful commissioning without any damage to equipment. Contactor shall provide skilled workforce for the completion of works within the stipulated timeline.

16.2. Contractor to ensure the availability of calibrated testing instruments for all man-power allotted so as to prevent idling and poor workmanship. A brief list of testing instruments is as below:

- 1) Multitester / Multimeter : 1000VDC
- 2) Multitester / Multimeter : 600VAC
- 3) Insulation tester/Megger : 500V Minimum
- 4) Clampmeter/Tong tester : 300A DC/ 200A AC
- 5) Processmeter/Miliamp tester : 4 - 20mA, 0 - 10VDC
- 6) Ethernet RJ45 cable tester

## SECTION C: TECHNICAL SPECIFICATION FOR ITEM SUPPLY

### 17. Technical Specifications of Gland sealant compound:

Fire-resistant Water tight Sealant	0.1Mpa (min)	30 Kgs per vessel
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Fire-resistance: A60 Requirements as per SOLAS

Water-Tightness: 0.1MPa (Min)



Certification: Type approval by any IACS member, preferably IRS

## 18. Technical Specifications of Lights and Emergency lights:

Normal Electrical lights	7W-230VAC	14 Nos per vessel (4Nos Explosion proof)
Emergency Electrical lights	5W-24VDC	10 Nos per vessel (2Nos Explosion proof)

### 18.1. Normal Lights fixture with luminaire

#### Electrical Specification:

Input Wattage:	7W
Input Voltage:	230V AC, 50Hz
Operating Voltage range:	120V ~ 270V AC Preferred
Power factor:	>0.95
THD (%):	<10%
Driver Efficiency:	>85%

Explosion proof fitting for battery room (**four numbers per vessel out of total**) Explosion proof certification: IIC T1 Type approved

#### Optical Specification:

Luminous Efficacy:	100 lm/w
Colour Temperature:	Cool White (5000K-6500K)

#### Mechanical Specification:

Type of Mounting:	Surface/Clamp
Material used for LED:	FR4 PCB preferable
Material for Diffuser:	Polycarbonate/Clear
Material for Fixture:	Aluminium cast/Polycarbonate
Application:	Suitable for marine/ usable in vessels/ship with 5 Degree roll



## Sample Image of Normal lights for Reference

### 18.2. Emergency Light fixture with luminaire

#### Electrical Specification:

Input Wattage:	5W
Input Voltage :	24VDC
Operating Voltage range:	120V ~ 270V AC Preferred
Power factor :	>0.95
THD (%) :	<10%
Driver Efficiency :	>85%

Explosion proof fitting for battery room (**two numbers per vessel out of total**) Explosion proof certification: IIC T1 Type approved

#### Optical Specification:

Luminous Efficacy:	100 lm/w(Lumens/Watt-Minimum)
Colour Temperature:	Cool White (5000K-6500K)
Type of Mounting:	Surface/Clamp
Material used for LED:	FR4 PCB preferable
Material for Diffuser:	Polycarbonate/Clear
Material for Fixture:	Aluminium cast/Polycarbonate
Application:	Suitable for marine/ usable in vessels/ship



Sample Image of Emergency light for Reference

### 19. Technical Specifications of Receptacles:

Receptacle with switch	230V	16A	10 Nos.
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Receptacle with switch	230V	6A	4 Nos.
Receptacle with switch for bilge pump	24VDC	6.5A	10 Nos.

#### 19.1. Receptacle with switch 6A

Material: PVC/Thermo-Plastic enclosure  
Voltage level: 230VAC  
Socket details: 6A Domestic  
Switch: 16A Single pole MCB

#### 19.2. Receptacle with switch 16A

Material: PVC/Thermo-Plastic enclosure  
Voltage level: 230VAC  
Socket details: 16A Domestic  
Breaker details: 16A Single pole MCB

#### 19.3. Receptacle with switch for bilge pump

Material: PVC/Thermo-Plastic enclosure  
Voltage level: 24VDC  
Socket details: 2P+E 16A Industrial  
Switch: Min. 6.5A Single pole  
IP Rating: IP56 (Minimum IP56 ; 66 preferred)



**Sample Images for Reference: (Receptacle for bilge pump)**

#### 20. Technical Specifications of Junction boxes:

Junction Box 100x100	230VAC	20 Nos.
Junction Box 150x150	230VAC	4 Nos.
Junction Box 500x500	1000VDC	2 Nos.

Sizes: 100x100 - with 2.5 SQMM terminal blocks 8 nos. with DIN rail mounting

150x150 - with 2.5 SQMM terminal blocks 8 nos. with DIN rail mounting

500x500 - with 95SQMM terminal blocks 4 nos. with DIN rail mounting

Material: PVC/Thermo-Plastic

Voltage level: 100x100 -230 VAC

150x150 -230 VAC

500x500 -1000 VDC



**Sample Images for Reference: (100x100JB and 350x350 JB)**

**21. Technical Specifications of Special Connectors/ Communication Cables:**

- 1) Ethernet Connector: Male/Female as per BOQ  
Size of connectors: RJ45-CAT7  
Material: Metal  
Communication protocol : Ethernet IP/ Profinet /Modbus TCP  
Quantity: 40Pcs Male/ 20 Female
- 2) Ethernet patch chords :  
Length 1-1.5m and 5m  
Size of connectors: RJ45-CAT7  
Communication protocol: Ethernet IP/ Profinet /Modbus TCP  
Quantity: 10Pcs(5m) and 20 Pcs (1-1.5m)

**22. Technical Specifications of Earthing bus-bar and bus supports:**

- 1) Copper bus bar:  
Copper busbar 40x2 mm (80sq.mm cross sectional area minimum)  
Quantity: 5m(length)
- 2) Bus bar support:  
Insulation requirement: 600VDC/415VAC  
Height of support: 25mm (Minimum)

Quantity: 20Nos

**23. Technical Specifications of Nylon sheet**

Size of sheet:	300x300
Thickness:	3mm
Number of Pcs:	5 Nos.
Application:	Electrical Insulation / Barrier protection

**24. Technical Specifications of Electrical insulation mat**

Size of sheet:	1m width minimum
Quantity:	20m
Rating:	1.8kV as per IS/IEC standards

**All other items as per BOQ/Price bid and details not mentioned shall be supplied as per marine /the Yard standards.**

**Quantity of items under scope of supply (Section-C) will finalized during the placement of PO, tentative quantities are indicated and hence contractors are to provide unit wise rate of items with the price bid**

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### **INSTRUCTION TO BIDDERS**

- A.** The bidder shall be deemed to have carefully examined the scope of work, technical specifications, general & special terms and conditions, and other necessities mentioned in the tender and have satisfied himself as to the nature and character of the works to be carried out, the site conditions and all relevant matters & details.
- B.** All pages of offers including price bids, corrigenda etc, supporting documents etc. are to be signed by authorized signatory in each page and company seal should be affixed on each page. In case of non-compliance, offer is liable for rejection.
- C.** Bidder should make sure that they comply with all the techno-commercial details in addition to, adhere to all technical specifications during the whole process (i.e. Starting from bid submission to carry out scope of work as per work agreements and as applicable) and provide necessary MSE/NSIC Certificates to avail exemptions, if applicable.
- D.** Un-priced bid to be submitted along with techno-commercial part (Part – I – Techno-commercial Bid) with details like percentage of taxes & duties applicable & details like “quoted/nil/included” to be mentioned for each line item as per Annexure-6.
- E.** Unprotected Price Bids/ Price Bids which are not password protected will be subject to rejection/disqualification of bid and HCSL as a whole reserves the right to cancel out such bids.
- F.** The bidders are advised to familiarize themselves with the site conditions before quoting.
- G.** Participants/Vendors are requested to obtain clarifications, if any, and carefully study the documents and the scope of services and HCSL, before submitting your offer.
- H.** Suppliers are allowed to depute their authorized representative to be present at the time of opening of the price bid.
- I.** Supplier should depute only persons who are entitled for exemption for income tax in India or any site work. In case the supplier does not depute such persons, the tax liability will be to supplier's account.
- J.** Packing Material should be eco-friendly.
- K.** Supplier should follow the statutory requirements of products offered.
- L.** After submission of tender, no unsolicited correspondence will be entertained.
- M.** 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.
- N.** If any case of the above conditions is not acceptable to the tenderer, it should be specifically indicated in the tender, failing which it will be presumed that all the terms and conditions are acceptable.

- O.** During the evaluation of tender, officer-in-charge may seek clarifications from the bidders. Clarification if any shall be given in writing/e-mail. Officer-in-charge's decision will be final and binding on the bidder.
- P.** In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- Q.** If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- R.** All applicable taxes, duties, transportation, delivery, etc at HCSL Nazirgunge, 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.
- S.** Indigenous tenderers should quote prices for delivery of materials at HCSL store (**Address:** 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.
- T.** Bidders to note that no advance payment will be made by HCSL against purchase order issued.
- U.** 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.

**Signature and Seal of the Bidder(s)**

### **TERMS & CONDITIONS OF ENQUIRY**

1. Turnkey electrical outfit works and supply of related items for 06 nos. Hybrid Aluminium Catamarans being constructed at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah

#### **2. METHOD OF AWARDING CONTRACT**

- 2.1. Contract will be concluded with bidder qualifying technically (including eligibility criteria), agreeing to commercial conditions and emerging as L1 as per Annexure- 6 of this tender document.
- 2.2. Order will be placed on maximum 2 bidders, when they will match L1 bidder rate. Details given below:
- 2.3. Work corresponding to the minimum Confirmed One (01 no.) + Two (02 nos.) optional vessels will be placed as assured order for L1 bidder.
- 2.4. Work corresponding to the minimum confirmed One (01 no.) + One (01 no.) optional vessel will be placed on the next inline bidder who matches the prices quoted by L1 bidder.
- 2.5. If none of the alternate bidders matches the L1 price, HCSL reserves the right to split the work / percentage of work to any number of bidders upon matching of L1 price or to cancel the tender if required.
- 2.6. The 6<sup>th</sup> vessel is an option vessel and will be awarded, only after completion of 02 vessels successfully, to either of vendor(s) (at L1 price) executing the contract, based on performance evaluation and schedule.
- 2.7. Only the minimum confirmed orders shall be placed on the bidders. The optional vessels shall be confirmed by HCSL subject to decision of HCSL to go ahead with the subsequent vessel constructions and is subject to performance of the contractor on the confirmed vessels awarded to the contractor. The performance shall be assessed by the Yard based on the manpower mobilization / deployment, planned vs actual progress, quality of workmen etc.
- 2.8. If any contractor, to whom the work is awarded, is not performing as per HCSL work plan, HCSL officer in charge has the right to modify / cancel the scope of work or volume of work in WO/PO and allocate to another contractor/bidder as required. HCSL reserves the right to split the work / percentage of work to any number of bidders (up to H1) upon matching of L1 price.

#### **3. HCSL SCOPE OF SUPPLY (Refer Annexure -I for more details)**

- 3.1. Supply of drawings, Yard standards, Cables, Cable trays outfitting for the mentioned scope of work
- 3.2. Providing Electricity, Water, compressed air (at available pressure), and Welding rods (subject optimal utilization without any wastage)
- 3.3. Services of HCSL cranes and forklifts will be provided.
- 3.4. Required space for storage of materials inside the Yard.
- 3.5. Space for positioning of contractor's office container if any. Power and water supply will be provided to the container, within the yard premises
- 3.6. Contractor shall agree to ensure optimal use of resources like water, electricity and other consumables either supplied by yard or brought for the successful completion of works



#### **4. SCOPE OF CONTRACTOR**

- 4.1. Contractor shall execute the works mention in Annexure-I, the contractor shall supply of materials like cable glands, heat-shrink sleeves, fasteners, lugs, tallies, ferrule etc for the successful completion of work. The scope of supply from yard are specified in detailed scope of respective works (Annexure 1). The contractor shall ensure seamless supply of skilled/qualified manpower to complete the works with atmost quality and within deadlines without any damage to equipment or any loss to shipyard.

#### **5. HCSL WORKS AND /MATERIAL DELIVERY SCHEDULE**

- 5.1. The fabrication, installation and Commissioning for each Vessels (including material supply) is to be completed within 35 days of WO or intimation from Project Manager.
- 5.2. Associated Material positioning in scope of contractor, has to ensure that it should not withhold production.
- 5.3. The technical bid should contain details of the number of vessels that the tenderer can undertake simultaneously, resources available for undertaking the work and a detailed plan for the work execution.

#### **6. PLACE OF WORK**

Hooghly Cochin Shipyard Limited  
131/1, Satyen Bose Rd, Nazirganj,  
Guabaria, Mourigram, Howrah- 711109, India.

The construction of ship, installation of panels, equipment & cables, HAT and SAT will be at HCSL Nazirgunge premises. The rates of post commissioning man power requirements to be quoted separately and will not be considered for the determination of L1.

#### **7. WORK PLAN**

For each ship, duration is within 35 days (including material supply) from the date of Work Order or intimation of site clearance by Project Manager (05 days for manpower mobilization and 30 days for job completion).

The work comprises in the tender includes electrical outfit works and supply of related items as per Annexure 1 for six number Hybrid Aluminium Catamarans at HCSL, Nazirgunge unit, Howrah. The offer shall be inclusive of insurance, forwarding, logistics, material handling charges and all related charges. The details of major works are as below:

- 7.1. The work entire will be divided into two parts:

- a) Below the main deck
- b) Above the main deck.

7.2. The Contractor should ensure that sufficient manpower (fitters, helpers and electricians etc) so to execute work in both areas simultaneously if required so as to complete the works within the stipulated time period. Contactor should ensure sufficient skilled man-power availability for the commissioning works.

- 7.3. The work plan is as below.

Following jobs to be completed:

- a) Completion of fabrication of cable coamings

- b) Installation and earthing of panels and JB's etc below the main deck
- c) Installation and earthing of panels and JB's etc on the main deck.
- d) Completion of minor tray route works
- e) Completion of installation of light fixtures and minor JB
- f) Completion of installation and termination of wheel house equipment's and in the super structure
- g) Completion of cable laying, glanding, termination, ferruling etc.
- h) Including all Jobs under scope of contractor as per Annexure 1.

7.4. If required work on each vessel is to progress simultaneously.

7.5. HCSL shall indicate the master construction schedule of completion of the work of vessel after awarding the contract. The contractor in turn shall submit their detailed schedule of completion of the work, in consultation with the officer in-charge. The progress of work shall be made in tandem with the progress of completion of the vessel allowing sufficient time for other interface activities / works.

7.6. Yard has the right to change the schedules of the project in the interests of the company and the firm should be capable of adjusting the resources according to the instructions from the yard contact person.

7.7. Progress of work to be updated to officer in charge in requested format (MS Project /MS Excel/ MS Word) twice in a month/ as and when a review meeting is called for.

## **8. VALIDITY OF CONTRACT**

8.1. Once the contract is awarded, the price offered and mutually agreed shall remain firm for 12 months from placement of order or till completion of work (which ever is later) and no escalation in labour, transportation cost etc. shall be allowed by HCSL on whatsoever reason thereafter.

## **9. INSPECTION**

9.1. The vessels shall be built under the classification of IRS under notation:

a) IRS NOTATION: Ⅲ IWL , Ⅲ IY, PASSENGER VESSEL, ZONE 2, BATTERY PROP

9.2. Work will be undertaken and inspected as per the quality standards provided by HCSL, and approved by CLASS and Owner of the vessels.

9.3. The complete work has to be carried out under the survey of HCSL, CLASS and Owners. The works are to be inspected and approved by HCSL initially and thereafter presented to CLASS and the Ship Owner for their survey and approval.

9.4. Inspection for Material: MTC/GC and relevant certificates as requested in Annexure 1 to be submitted with respective material for receipt inspection and acceptance.

## **10. HCSL TERMS OF PAYMENT:**

**Payment will be made for each vessel separately.**

10.1. Payment will be made in three stages (Below percentage is of total contracted value of vessel)

(a) Stage I: 50% of Total contract value per vessel

Deliverables: Receipt and acceptance of all items (deliverables) as per tender requirement at HCSL stores after inspection with necessary certificates/MTC/GC. And completion of all the Electrical outfit below main deck, termination, presenting for survey and clearing all the survey comments to the satisfaction of HCSL representative, Classification society and the owners representative as applicable.

(b) Stage II: 40% of Total contract value per vessel

Deliverables: Termination and Integration of systems with the above deck systems including accommodation, and on completion of basin trials, commissioning of systems, to the satisfaction of HCSL representative, Classification society and the owners representative as applicable

(c) Stage III: 10% of Total contract value per vessel on completion of defect liability period or after completion of work against submission of PBG/WBG valid till defect liability period.

**10.2.** No deviation in payment terms are acceptable.

**10.3.** Payment shall be made on the basis of certification by HCSL officer in-charge. Contractor shall submit work completion certificate issued by HCSL authority.

**10.4.** The payment shall be made within 30 days from submission of invoice along with the work completion certificate.

**10.5.** All claims for payment for the work/ additional work (if any as per special instruction from OIC) shall be submitted by the contractor within one month of completion of work.

**10.6.** Payment will be made by RTGS/NEFT to the account of agency. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the agency in the proforma of HCSL.

**10.7.** Above% payment of order value with applicable taxes will be released against original invoice subject to the full satisfaction and acceptance of work / items by Officer -In-Charge. Original tax invoice should contain GST number of both parties and submit in triplicate.

**10.8.** Statutory levies such as I.T, Contribution towards PF, ESI etc., shall be paid by contractor and documents as a proof to be submitted along with invoice.

**10.9.** Contractor shall indicate details such as PAN, GST. required for processing payment. HCSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.

**10.10.** Quantum of work indicated at Annexure-1 is final however additional works as per clause 10 of Annexure-3, also to be considered while quoting, actual quantum of work executed at site shall be considered for the payment purpose.

## **11. ADDITIONAL WORKS:**

Additional works up to 5% growth of work on the electrical works in terms to be envisaged and is to be undertaken without any additional price impact.

11.1. Any minor modifications, resulting from the change in statutory regulations prevailing at the time of final inspection of work by classification society, to be carried out by the contractor free of cost. In case of rework/modification /additional work, the same is to be discussed and clearance to be obtained from the Officer-In-Charge before commencement of the work.

11.2. Contractor shall carry out the complete work in accordance with shipyard's approved drawings. Any minor modifications from drawing or any other work or supply of material, which is not specified hereunder, but is considered incidental and essential for the successful completion of the job shall be carried out by the contractor without any additional charge.

11.3. Contractor shall execute, during or after completion of the work, any minor job connected with the work, that is considered necessary by shipyard and/or classification society.

12. **FORCE MAJEURE CONDITION:** 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.

## **13. SUPPLY OF DEFECTIVE/ SHORT SUPPLIED ITEMS**

In case of any defects during guarantee period or any short supply found at the time of original supply, replacement for the defective items/replenishment for short supply shall be arranged without any additional expenditure to HCSL. If you are opting courier service for replenishment of short supplied item/replacement of defective parts, the same shall be dispatched on Delivery Duty Paid (DDP) Kolkata basis.

## **14. TAXES & DUTIES**

GST shall be applicable extra on the prescribed work. Bidders are requested to furnish the following details in the invoice/Bill.

- Applicable rate of GST/SAC Code
- Firms GST Reg. NO.
- Service accounting code (SAC) as prescribed by statutory authorities

15. **RATES:** Rates are to be quoted in the Price Bid Format. The offer shall be valid for minimum of 3 months from the bid opening date. The quantity of optional services (MISC) indicated in Price bid as indicated are for reference and shall not be used for arriving at the L1 bidder.

## **16. MSE/ NSIC benefits: (If and only if the certificate issued is in the relevant field)**

A. The following benefits are extended for all the firms who are registered with district industries center and come under the category of **Micro and Small** Enterprises holding a valid Entrepreneurs Memorandum (EM)

part ii certificate or Udyog Aadhaar Certificate. However, in order to avail the benefits as per public procurement policy for MSE's orders, 2012, all MSE bidders are required to declare their Udyog Aadhaar Memorandum (UAM) number in Central Public Procurement Portal (CPPP) compulsorily.

- Tender Forms Shall Be Issued Free of Cost.
- Payment of earnest money deposit (EMD) is exempted.

**B.** For all firms who are registered with National Small Industries Corporation (NSIC) and come under Micro and Small Enterprises holding a valid NSIC certificate, the below benefit also extended in addition to above.

Waiver of security deposit (SD) for the performance of the contract (5% of the order value by the way of bank guarantee till the supplies are completed), up to financial limit as mentioned in NSIC certificate.

**C.** This tender shall be based on MSE order dated 23<sup>rd</sup> march 2012, pertaining to public procurement policy.

**D.** MSE's quoting price band L1 + 15% (in the ascending order) may be awarded complete work, considering spirit of policy for enhancing the government procurement from MSE's.

**E.** Traders are exempted from the benefits from Public Procurement Policy, for MSEs Order, 2012. As mentioned in O.M. No. 5/2(2)/2021-E/P & G/Policy dated 02.07.2021, Retail and Wholesale traders can register on Udyam Registration Portal for the purpose of Priority Sector Lending (PSL) only.

#### **17. COST OF TENDER AND EMD (EARNEST MONEY DEPOSIT):**

- a) Cost of Tender: Nil
- b) Tenderers shall deposit an amount of **Rs. 54,000 ( Rupees Fifty Four Thousand)** as Earnest Money Deposit (EMD) along with the tender.
- c) The EMD can be remitted in the form of Demand Draft (DD) / Banker's Cheque / Fixed Deposit Receipt (FDR)/ Bank Guarantee drawn in favor of 'Hooghly Cochin Shipyard Ltd. payable at Kolkata and shall be valid for a period of 6 (Six) months from the due date of opening of Techno-commercial Bids from any Nationalized/ Scheduled Bank or paid online through e-gateway of -

**HOOGHLY COCHIN SHIPYARD LIMITED**

**UNION BANK OF INDIA**

**SHIBPUR-HOWRAH BRANCH**

**ACCOUNT NO: 756905010000104**

**IFSC CODE: UBIN0575691**

EMD furnished by all contractors except the lowest tenderer will be released after issuing work order and submission of SD and its acceptance by the contractor to whom the work is awarded.

- d) EMD of the successful tenderer will be refunded after remittance of the security deposit and execution of the agreement.
- e) EMD deposited with the Client will be forfeited,

- i) if a bidder withdraws or modifies his bid during the period of validity specified or
  - ii) if the successful bidder fails within the time limit to sign the agreement document or fails to furnish the required security deposit.
  - iii) Request for enhancement in the quoted rates or bringing in new conditions after tender opening or unnecessary delayed acceptance of the order / commencement of work / submission of Security Deposit.
- f) The relevant documents pertaining to the EMD should be enclosed in a separate sealed cover, super scribing the Tender Notice No. with Date in Cover-1. TENDERS RECEIVED WITHOUT EMD WILL NOT BE CONSIDERED AT ALL FOR FURTHER EVALUATION.

**18. WARRANTY /GUARANTEE (FOR MATERIAL):**

- a) The items shall be guaranteed for rated performance and against damage or failure due to faulty design, 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 18 months from delivery of items to Yard, whichever is earlier. Should such damage/failure occur 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/repaired items shall be guaranteed for 12 months from date of repair/replacement,
- c) 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.

**19. DEFECT LIABILITY PERIOD:** The contractor has to guarantee the workmanship for a minimum period of 12 months from the date of successful completion of work against defective workmanship. 10% of the contract value will be deducted from the bills shall be released to the Contractor on completion of the Defect Liability Period. During this period any part/Items found defective shall be repaired by the Contractor free of cost any trouble or defect originating with the workmanship of any facilities installed arises at any time up to 12 months from the date when the work is successfully completed, and the CONTRACTOR is notified thereof, the CONTRACTOR shall at his own expense, (at the location of the vessel as advised by yard) and as quickly as possible make such alteration / repairs and replacements as may be necessary to comply with the above guarantees and shall reimburse any costs and expenses incurred by HCSL in connection with such trouble or defect. If the contractor fails to take action as above as HCSL shall direct, HCSL shall be free to take corrective/alternative action at the contractor's cost and risk within a reasonable time.

Vendor may claim this 10% by submitting performance guarantee. Towards this, a performance guarantee equivalent to 10% of the value of contract to be furnished by the contractor on completion of the works by way of a bank guarantee (in approved proforma of HCSL), from a nationalized bank valid till the expiry of the defect liability period.

**20. SECURITY DEPOSIT/WARRANTY BANK GUARANTEE:**

The successful tenderer shall remit 5% of the value of the contract as security deposit within 07 days of receipt of the work order. This amount after adjusting the EMD may be remitted by way of demand draft or bank guarantee (in approved proforma of HCSL) from any of the scheduled banks, valid till the satisfactory completion of the entire work. The Security Deposit will be released after satisfactory completion of the contract and on certification of nil liability to HCSL by Officer-in charge.

**21. LIQUIDATED DAMAGE: -**

In case of delay in supply of ordered materials or execution of work beyond the stipulated completion 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 basic price of the contract value subject to a maximum of 10% of the total basic price of the contract value (Total basic price is the order value excluding freight, taxes, other charges etc.). Further GST will be applicable upon LD and the same also will be deducted along with LD. However, LD applicability is without prejudice to HCSL right to terminate contract for delayed delivery or other actions as per Risk Purchase clause.

**22. TERMINATION & LIMITATION OF LIABILITY**

- a. This contract may be terminated upon the occurrence of any of the following events.
  - i. By agreement in writing of the parties hereto;
  - ii. By the non-defaulting party, upon default by the other party, of any clauses of this contract, if not remedied within thirty (30) days, or such longer time as may be agreed upon by the parties, after receipt of notice thereof in writing from the non-defaulting in party.
  - iii. By the other party, upon either parties:
    - (i) Making the assignment for the benefit of creditors, being adjudged a bankrupt or becoming insolvent; or
    - (ii) Having a reasonable petition filed seeking its' dissolution or liquidation, not stayed or dismissed within sixty (60) days; or
    - (iii) Ceasing to do business for any reason.
  - iv. In cases where maximum limit of LD is reached and still the items are not delivered/ work is not completed.
  - v. For fraud and corruption or other unacceptable practices.
  - vi. Upon expiry or termination of this Contract, neither party shall be discharged from any antecedent obligations or liabilities to the other party under this Contract unless otherwise agreed in writing.
- b. HCSL may by notice in writing to supplier terminate the order after issuing due notice i.e. '7 days' notice period. HCSL shall be entitled to compensation for the loss limited to the order value.
- c. Liability maximum that can be claimed by the supplier shall be limited to what is due to be and has been paid by HCSL for the material delivered /work done as per the payment milestones.

**23. RISK PURCHASE:**

If the firm's performance is found not satisfactory with regard to the progress of work, quality, and time factor, labour dispute with their workers, poor safety record, contract shall be terminated with 7 day notice and no claim whatsoever will be entertained in this regard from the firm. If the contractor fails to commence the work in time, as per the terms in work order or violate any other terms & conditions of work order, HCSL shall have the following rights.

- a) To terminate the contract within 7 days of notice forfeiting the Security deposit
- b) To initiate alternative arrangements at the risk and cost of the contractor.

## **24. STORAGE OF MATERIAL AND EQUIPMENT**

- a. The contractor shall arrange the storage of the materials/ equipment etc. if any, at a suitable location assigned by HCSL and shall ensure the safe and secure possession and handling of the items thus handed over to contractor. HCSL shall allot storage space within HCSL premises, if available.
- b. As regards the equipment/ materials stored by him as above as also in use by him, HCSL will not be responsible for any damage, pilferage, accident that may take place during the course of execution of the work. It will be entirety his responsibility to keep all the equipment, materials etc., in safe custody as also hold them duly insured at his expense.

## **25. POWER OF ATTORNEY**

- a. The tenderer(s) shall have to sign in each page of the tender documents with official stamp as a token of his acceptance of the conditions stated therein.
- b. The person signing the tender form on behalf of another or on behalf of a firm, shall enclose to the tender, a Power of Attorney (Enclosure-7) or the said deed duly executed in his favour or the partnership deed giving him such power showing that, he has the authority to bind such other persons or the firm, as the case may be, in all matters pertaining to the contracts. If the Person so signing the tender, fails to enclose the said Power of Attorney, his tender shall be liable for being summarily rejected. The Power of Attorney shall be signed by all partners in the case of partnership concern, by the Proprietor in the case of a proprietary concern, and by the person who by his signature can bind the company in the case of a Limited Company.

## **26. ARBITRATIONS**

26.1. Any disputes arising during the execution of the contract shall, in the first instance be settled by mutual discussions and negotiations. The results of such resolution of dispute shall be incorporated as an amendment to the contract, failing which the parties can resort to arbitration.

26.2. If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties here to. The arbitration will be done by a Board comprising one officer nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

26.3. In case of disputes, the same will be subjected to the jurisdiction of courts at Kolkata, West Bengal, India only. Governing law should be Indian law and place and seat of arbitration is at Kolkata, West Bengal. Language of arbitration should be English.



## **27. LABOUR LAW & REGULATIONS**

### **(Time to time amendments by Govt. to be strictly followed)**

27.1 The contractor shall undertake and execute the work with contract labour only after taking license from the appropriate authority under the contract labour (regulation & abolition) act 1970.

27.2 The contractor shall observe and comply with the provisions of all labour and industrial laws and enactments and shall comply with and implement the provisions of the factories act , 1948, employees provident funds at miscellaneous provisions act, 1952, employees state insurance act, payment of gratuity act, minimum wages act, payment of bonus act, contract labour (regulation and abolition) act and all other enactments as are applicable to his and his workmen employed by him. The contractor shall inform HCSL his license number prim the Central Labour Commissioner.

27.3 All contract workmen, except those exempted under the respective acts, shall necessarily be insured under the ESI scheme and be made members of the EPF scheme from the day of their engagement as contract workmen in the company. All such insured contract workmen should carry with them their ESI identity card for verification by the authorities. No contract workmen without a valid ESI identity card for verification by the authorities will be permitted to work in the company.

27.4 The Contractor shall submit the labour reports/ returns as required by the company from time to time in respect of their workmen in standard format to the concerned contracting officer so as to enable the same to reach personnel department by the 5th of every month. Delayed submission of the same shall attract penal interest /damages at the rate as levied by the respective authorities under the relevant Acts.

27.5 The Contractor shall maintain the records viz. muster roll, acquittance roll with full details, account books etc., in original. These are required for inspection by the concerned authorities under each scheme.

27.6 If the Contractor fails to pay any contributions, charges or other amounts payable under any of the aforementioned provisions of law, HCSL shall deduct or adjust amounts equivalent to such contribution, charges or amounts from amount payable to him by HCSL, including any deposit or amounts payable against bills and make payments on his account to the appropriate authority. He shall not be entitled to question or challenge such deductions, adjustments or payment made by HCSL.

27.7 Any other amount payable under any law or in respect of any person employed by the Contractor, if not paid by him, shall be deducted or adjusted by HCSL out of any amount payable to the Contractor including any Security Receipt and paid over or withheld for payment by HCSL.

27.8 The Contractor shall be fully responsible for the conduct and discipline of the workmen employed by him in the Company premises. If such workmen commit any misconduct or criminal act inside the Company, the Contractor shall take appropriate action against such workmen. The contractor shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.

27.9 All person who are engaged for various works in HCSL either directly or through contractors, should produce the following documents prior to issuing their entry passes:

Aadhar/attested copy of Aadhar with photo and address particulars. **OR**

Police clearance certificate with photo and address particulars. (Police clearance certificate to the effect that the concerned person is staying in the area of jurisdiction of the certificate issuing police station and that the person is not involved in any criminal offences as per the records available therein.)

27.10 Application and declaration for enrolling under employees provident fund and ESI Scheme.

27.11 Contractors are requested to familiarize themselves with the labour rules & regulations prevailing in HCSL including the labour wage pattern of contract labours.

## **28. SAFETY OF PERSONNEL AND FIRST AID**

28.1. The contractor shall be entirely responsible for the safety of all the personnel employed by him on the work. In this regard, he may adopt all the required safety measures and strictly comply with the safety regulations in force. Detailed information and references available with HSE department of HCSL.

28.2. The Contractor may arrange to suitably insure all his workmen/ other personnel in this regard. HCSL will not be responsible for any injury or illness to the Contractor's workmen/other personnel during execution of the works due to whatsoever reasons.

28.3. In this regard, the Contractor will have to fully indemnify HCSL against any claims made by his workmen/other personnel.

28.4. The Contractor shall provide and maintain so as to be readily accessible during all working hours, a first aid box with prescribed contents at every place where he employs contract labour for executing the works.

## **29. IMS GUIDELINES**

29.1 HCSL implemented an Integrated Management System (IMS) consisting of Environmental Management system (EMS), Occupational Health and Safety Management System (OHSMS) and the Quality Management System (QMS) within the yard. As part of IMS, subcontractors shall comply with the following measures related to the Quality, Health, and Safety & Environment (QHSE) policy of HCSL.

29.1.1. Preventing occupational ill health and injuries.

29.1.2. Ensuring safe work sites.

29.1.3. Handling and disposal of Hazardous wastes safely.

29.1.4. Complying with statutory & regulatory and other requirements.

29.2. If any contractor failed to comply with or violated any clauses/requirements of occupational health, safety and environmental rules effective in the state, in their activities or at work sites and the same shall be exposed to the government or any competent authorities upon inspections, the contractor shall be solely responsible for all liabilities caused by his/her action and shall be responsible for paying the penalty and taking stipulated corrective actions insisted by the authorities within the specified time, at their own cost. Any liability to the company in this regard needs to be compensated by the contractor.

## **30. ELECTRICITY RULES & REGULATION**

30.1. The contractor shall adhere to the various rules in respect of electrical installation as per the Indian Electricity Rules and Regulations and Electrical Inspectorate Standards in order to make sure that men and materials are safe from hazards.

### **31. SUB CONTRACTING AND ASSIGNMENT**

31.1. Contractor shall not assign nor transfer the Purchase Order/ Work Order nor shall any share or interest therein in any manner or degree be transferred or assigned by Contractor to a third party without prior consent in writing of HCSL.

31.2. Contractor shall not contract with any subcontractor and/or vendor without the prior written consent of HCSL. Such consent shall not relieve the Contractor from any of his responsibilities and liabilities under the Purchase Order/ Work Order. In addition, Contractor 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/ Work Order.

### **32. STATUTORY CONDITIONS AND LABOR LAWS**

- a. The firm must comply with statutory requirements, like ESI/EPF etc., and other labor laws/regulations in force and as amended from time to time.
- b. Under no circumstances HCSL will be responsible for any statutory compliance related to Labor, Central/State Government if any.
- c. **The contractor shall provide the minimum wage rate of the Central Government & submit the bank statement of wage payment along with the bill.**

### **33. INDEMNITY**

33.1 The firm shall indemnify HCSL and keep harmless against any or all claims, liabilities, damages, losses, costs, charges, expenses, proceedings and actions of any nature whatsoever made or instituted against HCSL directly or indirectly by reason of:

- a. Any wrongful, incorrect, dishonest, criminal, fraudulent or negligent work, misfeasance, disregard of duties by personnel of the firm; and/or
- b. Any theft, robbery, fraud or wrongful act or omission by personnel of the firm.

33.1. The service provider shall indemnify HCSL or its officers against any claims arising out of accidents or injuries to workmen or other persons or damage to other property which may arise during the execution of the contract or from breach of any Law or Regulation prior to delivery and acceptance of the items at HCSL

### **34. OVERWRITING & CORRECTIONS**

Tenders shall be free from overwriting or erasures. Corrections and additions, if any, shall be duly attested and a separate list of such corrections shall be attached with the offer

### **35. SECRECY & RESTRICTION ON INFORMATION TO MEDIA**

35.1. The information contained in the enquiry as such shall NOT be communicated to any third party without prior approval of HCSL.

35.2. Information in respect of contracts/orders shall NOT be released to the national or international media or anyone not directly involved in its execution without the written approval of HCSL

35.3. The agency shall sign a Non-disclosure Agreement with HCSL along with the contract.

35.4. The CONTRACTOR shall be responsible to ensure that all persons employed by them in the execution of any work in connection with this contract are aware of the provisions of the official secrets act 1923 and to comply with the same. The CONTRACTOR shall also ensure secrecy of design, construction, equipment and

completion of the vessel. Any information provided to you under this contract is to be treated as strictly confidential and is not to be disclosed to any person or persons not concerned therewith

35.5. All documents under this Contract transferred between the parties shall be treated as UNCLASSIFIED unless explicitly marked.

35.6. The CONTRACTOR shall ensure that their organization, suppliers/ installation agency/test and trials teams etc shall not communicate for use in advertising, publicity, sales release or in any other medium, system details, photographs and reproduction of equipment and their fitment on board Navy/coast guard/private owner vessels except without or security clearance from the competent authority.

### **36. INDIAN AGENT**

Hooghly Cochin Shipyard Ltd. (HCSL) is a fully owned subsidiary of Cochin Shipyard Ltd (CSL) under ministry of shipping, Govt. of India Enterprise and prefers to deal directly with the supplier. However, if the supplier appoints an Indian Agent to deal with HCSL, the commission payable by the supplier to such an agency shall be intimated. The Indian agent shall be enlisted with Director General of Supplies and Disposals under the compulsory registration scheme of Ministry of Finance. "If manufacturer's effect supplied through Agents only, authorization in writing from manufacturers in favor of the Agent for supply to HCSL shall be furnished. If Indian Agent submits offers on behalf of foreign manufacturers, copy of the Agency Agreement between them and their mutual interest in the basis to be furnished. In case where an Agent participates in a tender on behalf of a foreign manufacturer with specific authorization from the manufacturer, he should not quote on behalf of another foreign manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item. In other words, one Agent cannot represent two suppliers or quote on their behalf in a particular tender.

**For Hooghly Cochin Shipyard**

**GENERAL TERMS & CONDITIONS**

- 1) The contractor must have a dedicated site-in charge/ supervisor to execute work, with a minimum experience of 3 yrs. in similar works. Relevant certification / license of Electricians to be submitted.
- 2) The service provider shall have to engage men on round the clock basis and also on Sundays and holidays, and no extra charges will be paid by HCSL for such requirements arising during critical phases of the project. Service has to be completed to the satisfaction of HCSL officer in-charge
- 3) Work will be undertaken and inspected as per the quality standards provided by HCSL, and approved by CLASS and Owner of the vessels.
- 4) The contractor shall arrange to collect and clean up every day all waste, scraps, debris, etc. generated by the work men while working onboard the vessel and other locations and dispose the same suitably at his cost to the full satisfaction of HCSL. In case any failure on his part to comply with this requirement, HCSL will arrange the required cleaning entirely at the contractor's cost.
- 5) Assistant General Manager (P&P) or his authorized representative will be the Officer-in-charge of this Contract.
- 6) Special care to be taken to reduce wastages. Shortage of any material (supplied by HCSL) arising out of excess wastages due to improper planning shall have to be made up by Contractor free of cost.
- 7) The contractor shall be responsible for any damage caused to the material supplied by HCSL. Compensation with penalty for damage or loss of the item will be recovered from the Contractor, in the event of loss or damage.
- 8) Any particulars/literature/information/certificates required by the Shipyard in connection with the work is to be forwarded free of cost.
- 9) All correspondence with the Shipyard to be in English language. All documents and plans to be in English language and in metric units.
- 10) Providing all personnel protective items like safety helmets, gloves, welding shields, goggles, leg guards, safety belts, boiler suit, safety shoes etc. to their employees.
- 11) Quality of services shall conform to the specification/ standards laid down by HCSL.
- 12) HCSL has the right to deduct any charges towards taxes and statutory deductions,
- 13) Compliance of all statutory safety requirements and other safety rules stipulated by HCSL and other applicable statutory bodies shall be the responsibility of the Agency while working at HCSL premises. The Agency should ensure that their workmen and staff are adequately covered under Insurance.
- 14) The service provider shall also be governed by the General Conditions of Contract of HCSL, General Safety Rules and other relevant labour laws.

**For Hooghly Cochin Shipyard**

<b>TECHNO-COMMERCIAL CHECK LIST</b>				
<b>Turnkey Electrical Outfit Works And Supply Of Related Items For Six Number Hybrid Aluminium Catamarans At HCSL, Nazirgunge Unit, Howrah</b>				
<b>SL. NO.</b>	<b>DESCRIPTION</b>	<b>COMPLIANCE</b>		<b>REMARKS</b>
		<b>YES</b>	<b>NO</b>	
1.	Submission of Tender in two (2) parts – Techno-commercial & Price (Password protected)			
2.	Works completion as per yards schedule			
3.	EMD			
4.	Validity of offer – Three (3) months			
5.	Payment Terms			
6.	The Prices offered should remain firm till the completion of delivery, in case the purchase order is placed with you.			
7.	Completion of job and delivery of materials at HCSL Store including class inspection charges, freight & insurance charges etc.			
8.	Tenderers should quote prices for delivery of materials at HCSL store as well as completion of work as per Scope of work mentioned in Annexure -1 (Address: 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. (FOR HCSL Store basis)			
9.	Signed and stamped copy of unpriced bid (mentioning taxes and duties) and “quoted/nil/included” against each line item as per Annexure 6 to be included in the techno- commercial offer. Please confirm			
10.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer.			
11.	Compliance with Pre-qualification criterion			
12.	L.D. payable as per relevant Clause in the General terms of enquiry.			
13.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.			
14.	Termination of contract/Risk purchase as per relevant clause in the General terms of enquiry.			
15.	PAN & GST (Self Attested)			
16.	Warranty/ Guarantee.			
17.	Confirm all other terms and conditions of enquiry are acceptable.			
18.	MSME/NSIC, if yes document required along with technical bid.			
19.	Vendor and NEFT details to be submitted as per Annexure 7 & 8.			
20.	Supplier should be in the business of electrical outfit works or turnkey electrical works for vessels for the minimum three			

	years Supporting documents to be submitted along with the technical bid.			
<b>21.</b>	Supplier should have minimum average annual turnover of <b>Rs. 15 Lakhs</b> as on 31 <sup>st</sup> March (FY 2020-21, 2021-22 and 2022-23) Supporting document to be submitted along with technical bid			
<b>22.</b>	List of Deviations to be submitted as per Annexure 9			
<b>23.</b>	Submission of scanned copy of Audited Balance sheet and Profit & Loss statement of Last 3 FY's (2020-21, 2021-22, 2022-23)			
<b>24.</b>	Income tax returns for the last three 3 FY's (2020-21, 2021-22, 2022-23)			
<b>25.</b>	Signed and stamped copy of Annexure 1,2,3,4 regarding scope of work and terms & conditions of tender.			
<b>26.</b>	Duly filled (as applicable) Signed and stamped copy of Annexure 10 to 15.			
<b>27.</b>	Security Deposit as per Annexure 3 Para 19			
<b>28.</b>	Defect Liability Clause as per Annexure 3 Para 18			

## PRICE BID FORMAT

Price Bid For Turnkey Electrical Outfit Works And Supply Of Related Items As Per Annexure 1 For Six Number Hybrid Aluminium Catamarans At HCSL, Nazirgunge Unit, Howrah							
SL. NO	ITEM	RATING	UOM	QUANTITY (A) PER VESSEL	UNIT RATE (B) PER VESSEL	GST (C) PER VESSEL	AMOUNT (AXB+C) PER VESSEL
A	Fabrication and installation of coaming and cableways as per Annexure-1		LS	1			
B	Installation of panels and main JB per Annexure-1		LS	1			
C	Installation of equipment, lights and instruments per Annexure-1		LS	1			
D	Cable laying, securing, glanding, tally installation and termination		LS	1			
E	<b>Supply :</b>						
	<b>Lights</b>						
	Description	Voltage	UoM	Quantity			
E1	Emergency Electrical lights for rooms below main deck (2Nos explosion proof lights out of total per vessel)	24VDC-5W	Nos	10			
E2	Normal Electrical lights for rooms below main deck (4Nos. explosion proof lights out of total per vessel)	230VAC-7W	Nos	14			
	<b>Receptacle and JB</b>						
E3	Receptacle with switch	230V-16A	Nos	10			
E4	Receptacle with switch	230V-6A	Nos	4			
E5	Receptacle with switch for bilge pump	24VDC-6.5A	Nos	10			
E6	Emergency Stop Push button with box		Nos	14			
E7	JB 100x100 PLASTIC MATERIAL		Nos	20			
E8	JB 150x150 PLASTIC MATERIAL		Nos	4			
E9	JB 500x500 PLASTIC MATERIAL WITH TERMINAL BLOCK 6Nos of 50SQMM (1000VDC)		Nos	2			
	<b>Gland Packing compound</b>						



E10	Watertight gland packing compound fire-resistant		Kg	30			
	<b>Special Connectors</b>						
E11	RJ45 male-metallic body-reusable		Nos	40			
E12	RJ45 female-metallic body-reusable		Nos	20			
E13	Ethernet Patch cord-5m		Nos	10			
E14	Ethernet Patch cord-1-1.5m		Nos	20			
	<b>Cable Gland, Ferrule, Tallies and Lugs for Termination</b>						
E15	For panels and equipment as per Annexure-1		LS	1			
E16	For panels and equipment as per Annexure-1		LS	1			
	<b>Earthing termination, earthing busbar and busbar support</b>						
E17	Copper busbar 40x2 mm (80sq.mm cross sectional area minimum)		m	5			
E18	Copper Busbar support		Nos	20			
	<b>Nylon/Acrylic Sheet</b>						
E19	Insulating sheet 300X300x3mm		Nos	5			
	<b>Electrical Mat</b>						
E20	1.8 kV insulation level 1m width		m	20			
	Total Amount for one vessel Without GST						
	Total Amount for one vessel - GST at %						
	Total Amount for one vessel including GST						
	Total Amount for six vessels including GST						

Note:

1. L1 will be decided on totality basis.
2. The quoted price will be valid for a period of 3 (three) months.
3. Quoting for all serials is mandatory. Partially quoting for few serials shall result in rejection of the bid.
4. L1 Bidder will be decided based on without considering Taxes.
5. Rate agreed upon as per quotation shall remain firm and fixed till conclusion of contract.
6. Bidders shall quote total amount in figures and in words. Corrections and additions if any must be attested / duly signed by the bidder. In the case of error in multiplication / addition in amount calculated, unit rate quoted will be considered as correct and the amount will be calculated accordingly. Conditional rebates & discounts, incomplete/ambiguous offers are likely to be rejected.

7. Bidder has to submit the price bid as mentioned in the format only, otherwise bid will be rejected
8. Un-priced bid to be submitted along with techno-commercial part (**Part – I – Techno-commercial Bid**) with details like “**quoted/nil/included**” to be mentioned for each line item.

Grand Total Amount (in words) Rupees .....

\*Any modifications or alterations or additional notes added to the above format will straight away leads to rejection of the offer

Signature of authorized personnel:

Name of firm or authorized signatory:

Designation:

Address:

Contact no.

*****						
MISC	***The following costing is for reference and will not be considered for determining L1 bidder***					
	<b>Additional Manpower supply after commissioning including all cost of transportation, lodging and other statutory expenses (if required)</b>					
Sl. No.	Description	UoM	Quantity(A)	Unit Rate (B)	GST (C)	Amount (AxB+C)
1	Electrician at Varanasi	Day	1			
2	Electrician at Ayodhya	Day	1			
3	Electrician at Mathura	Day	1			
4	Electrician at Kolkata	Day	1			
5	Electrician at Guwahati-Pandu port	Day	1			
6	Helper at Varanasi	Day	1			
7	Helper at Ayodhya	Day	1			
8	Helper at Mathura	Day	1			
9	Helper at Kolkata	Day	1			
10	Helper at Guwahati-Pandu port	Day	1			

**Vendor details (to be submitted along with TECHNICAL 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: (of person in connection with this tender) :	1)  2)  3)
<b>6</b>	Type of Entity-Pro praetorship/Partnership firm/company/NSIC/MSE Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
<b>7</b>	Cost of Tender Details (DD No. Name of Bank)	
<b>8</b>	EMD Details (DD No. Name of Bank)	
<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:**

NEFT mandate form

(ON THE LETTER HEAD OF THE BIDDER)

**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  
(010/011/013)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

j. Account Number (as  
appearing on the cheque book)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

**Note: Please enclose a cancelled un-signed cheque leaf to enable us to verify the details mentioned above.**

Compliance statement- List of Deviations		<b>PAGE 1 OF 1</b>																														
<b>Tender Name:</b> Turnkey electrical outfit works and supply of related items for 06 nos. Hybrid Aluminium Catamarans at HCSL, Nazirgunge unit, Howrah.																																
TENDER NO:		DATE:																														
<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><u>LIST OF DEVIATIONS (HCSL reserves the right to reject offers with deviations)</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%; text-align: center;">Sl. No.</th> <th style="width: 40%; text-align: center;">Description / Tender Reference</th> <th style="width: 50%; text-align: center;">Reasons for Deviation</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Sl. No.	Description / Tender Reference	Reasons for Deviation																											
Sl. No.	Description / Tender Reference	Reasons for Deviation																														
<p>Name of tenderer:</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 30%;">Date:</div> <div style="width: 35%;">Name &amp; Designation</div> <div style="width: 30%;">Seal &amp; Signature</div> </div> <div style="text-align: right; margin-top: 20px;">(Company Seal)</div>																																

**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:

Date:

**Bank guarantee in lieu of security deposit/  
Warranty guarantee**

To  
HOOGHLY COCHIN SHIPYARD LTD  
(Govt. of India Enterprise)  
Satyen Bose Road,  
Danesh SK Lane (PO),  
Nazirgunge, Howrah,  
West Bengal - 711109.

WHEREAS .....(Name & Address of Supplier) (hereinafter called " **the Supplier**") has undertaken, ..... in ..... pursuant ..... of Contract.....No.....Dated:.....to execute (Name of Contract and brief description of works) (hereinafter called "**the Contract**").

AND WHEREAS it has been stipulated by **HOOGHLY COCHIN SHIPYARD LTD** (The Buyer – hereinafter called "**HCSL**") in the said contract that the Supplier shall furnish **HCSL** with a Bank Guarantee for the sum specified therein as security for compliance with the Supplier's obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee.

NOWTHEREFORE we.....(Name of the Bank) having its Head Office at.....(Address of Head Office) and acting through its branch office at.....(Address of the executing branch)(hereinafter called "the Bank") hereby affirm that we are the Guarantor and responsible to **HCSL**, on behalf of the Supplier upto a total of.....(amount of Guarantee) in words).

We, the bank, hereby irrevocably undertake to pay you any amount not exceeding in total the Guarantee Amount upon receipt by us of your demand in writing accompanied by the following documents:

1. Your signed statement certifying that the Supplier is in breach of his obligation(s) under the Contract and the respect in which the Supplier is in breach.
2. Your signed statement certifying that the Supplier has been given a prior written notice by email from you to make good the aforesaid breach and that the Supplier still failed to fulfill the Contract within 30 days of such notice. A copy of such notice given by email to the Supplier shall be attached to the demand for payment.

Any demand for payment should contain your authorized signatures which must be authorized by your bankers or by a notary public.

We, the Bank, further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between **HCSL** and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification. We, the Bank, further agree that any change in the constitution of the said contractor or the said bank shall not discharge our liability hereunder.

**Notwithstanding** anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed .....(only).
2. This Bank Guarantee shall be valid upto (date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and

only if **HCSL** serve upon us a written claim or demand on or before.....(validity date).

Any demand for payment under this guarantee must be received by us at this office during working hours on or before the validity date. Should we receive no claim from you by the validity date, our liability to you will cease and the guarantee will definitely become null and void whether returned to us or not.

Yours truly,  
Signature and seal of the guarantor:.....

Name of Bank:.....

Address:.....Date:.....

[\[1\]](#) An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in respective Dollars / Indian Rupees/Other Currency.

**POWER OF ATTORNEY**

*(On Applicant's Letter head)*

(Date and Reference)

To  
The Assistant General Manager  
Hooghly Cochin Shipyard Limited  
Nazirgunge, Howrah-711109, West Bengal.

Subject: Power of Attorney

Mr. / Mrs. / Ms..... (Name of the Person(s), domiciled at ..... (Address),  
acting as..... (Designation and name of the company), and whose signature is attested below,  
is hereby appointed as the Authorized Representative and authorized on behalf of  
..... (Name of the company) to provide information and  
respond to **enquiries etc.** as may be required by the Employer for the project of  
..... (Project title) and is hereby further authorized to sign and file relevant  
documents in respect of the above.

(Attested signature of Mr.\_\_\_\_\_).

For.....

(Name & designation)

(Company Seal)

**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: .....

**Form of Legal Case** (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>

- If no Cases pending please mention as “NIL” and submit the above form.

**SIGNATURE OF BIDDER**

**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, Order no 3 dt 24.7.2020 and amendments issued by GOI time to time.**

<b>A</b>	<b>Requirement of registration</b>
1	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 subcontract 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.
2	<b>Wordings of certificate to be submitted along with tender documents</b>
	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)
2	<b>Wordings of certificate to be submitted along with tender documents for Works Involving possibility of subcontracting</b>
	I have read the clause regarding restrictions on procurement from a bidder of a Country which shares a land border with India and on subcontracting 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 sub contract 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>
1	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>
1	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>
1	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 here in before, including any agency, branch or office controlled by such person, participating in a procurement process.
2	"Bidder from a country which shares a land border with India “for the purpose of this Order means: – a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
3	<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
	<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.



<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-II dt, 4.6.2020 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	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
1	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.
2	<del>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</del>
3	<del>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</del>
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.

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