



Date: 08.12.2025

CORRIGENDUM NO: 1

Ref. HCSL/PUR/TEN/2025/108 Dated: 28.11.2025.

TENDER FOR “Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear, Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.”

1. The last date of submission of tender is extended up to 12/12/2025 at 15:00 hrs
2. The date of opening of tender will be at 15:30 hrs on 12/12/2025.
3. All other term and conditions shall remain unaltered.

For Hooghly Cochin Shipyard Limited



Tender No: HCSL/PUR/TEN/2025/108

Dated: 28.11.2025

TENDER NOTICE

Competitive tenders are invited on behalf of Hooghly Cochin Shipyard Limited (HOOGHLY CSL) from experienced vendors for the under mentioned work, so as to reach the undersigned on or before the date and time mentioned below. Please refer Scope of Work, General Terms and Conditions and Special Terms attached.

Tender No. & date	HCSL/PUR/TEN/2025/108 Dated: 28.11.2025
Scope of work	Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear, Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah. (Detailed specification is enclosed separately).
Type of Tender	Two Bid (Email Tender)
Earnest Money Deposit (EMD)	NIL
Last date & time of receipt of tender	08.12.2025 at 15:00 Hrs.
Date & time of opening of technical bid	08.12.2025 at 15:30 Hrs.
Tenure of contract	Refer. Clause 15 of Annexure-3 (General T&C)
Officer - in - Charge	<p>Name: Saikat Kumar Biswas Designation: Deputy Manager (Materials) Email: saikat.biswas@hooghlycsl.com Phone No: 8250792208</p> <p>Name: Sreerag .G Designation: Manager (Materials) Email: sreerag.g@hooghlycsl.com Phone No: 9482608957</p>

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

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

Signature and Seal of the Bidder(s)

For Hooghly Cochin Shipyard Limited



PRE-QUALIFICATION CRITERIA

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

i. Successful experience as material supplier in the successful completion of similar material supply of nature and complexity comparable to the proposed material within the last 3 years, ending last day of month previous to one in which applications are invited.

Similar Supply means:

Design, Supply, Installation and Commissioning of Ventilation System for State/Central Govt./Private Shipyards within the last 3 years, ending last day of month previous to one in which applications are invited (Copy of PO along with the delivery challan/Invoice is required).

ii. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (Financial year: 2022-23, 2023-24, 2024-25) should be submitted along with the application for prequalification.

iv. The Tenderer should enclose copy of MSME Certificate in relevant field (if applicable), PAN, GST registration certificate, Income tax returns for last three FY (2022-23, 2023-24, 2024-25).

v. Offers from joint ventures/consortium will not be accepted.

vi. Net worth of the bidder must be positive as per the latest balance sheet. (MSME/NSIC will get exemptions)



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For HooghlyCochin Shipyard Limited



Signature and Seal of the Bidder(s)

SCOPE OF WORK AND TECHNICAL SPECIFICATION

Purchase Technical Specification of Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear, Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.

Ref. Enclosure-1 (Consisting 21 No. of Pages)



PRICE BID FORMATTender Enquiry No: **HCSL/PUR/TEN/2025/108**, Dated: **28.11.2025**

Sl. No.	Description	Total qty	UOM	Unit Rate (Rs.)	Total Amount without GST (Rs.)
		A		B	C=AXB
1.	Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel. (Refer: Purchase Technical Specification)	01	SET		
2.	Total Amount without GST (Rs.)				
3.	HSN Code				
4.	Total GST Amount (Rs.)				
5.	Total Amount including GST (Rs.) on FOR Hooghly CSL Stores Basis.				
6.	Total Amount including GST (Rs.)- In Words				

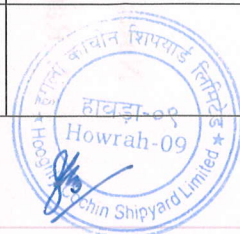
Note:

1. Rate should be quoted in INR only.
2. Bidder has to submit the price bid as mentioned in the format only, otherwise bid will be rejected.
3. Quotation for all line items is mandatory. Partially quoting for few line items shall result in rejection of the bid.
4. L1 bidder will be evaluated based on the total amount excluding GST.
5. Bidder should quote in consideration with all clauses of Section A, B&C of Annexure-1 (Purchase technical specification) including all spare parts, tools etc.
6. Installation & Commissioning Charges, P&F Charges, Freight charges, Class Inspection Charges, Service Engineer charges or any other charges, if any, should be included in the offered unit rate and not as a separate line item. Transit Insurance is in the scope of supplier.
7. Un-priced price bid format (which is an exact replica of the Price bid except that Price is blanked) as per Annexure-2 to be submitted along with techno-commercial bid with details like percentage of taxes & duties applicable and stating **“Quoted” or “Not Quoted” or “Not Applicable”** to be mentioned for each line item.

Seal & Sign. of the Bidder

General Terms & Conditions

Sl. No.	Description	Compliance by Supplier (YES/NO) In case of non compliance, please provide remarks.
1.	Bidders are required to carefully go through the terms and conditions and the technical specification of the items for which offers are called for. Tenderers have to adhere to above and supply full technical scope of items along with compliance of commercial conditions. HOOGHLY CSL have full right upon deviations, if any, including rejecting the partial scope/ complied offers.	
2.	Offers are to be furnished in duplicate and should be free from overwriting. Corrections and additions, if any, must be attested. The offers shall be submitted only through email. Incomplete/ambiguous/conditional offers are likely to be rejected.	
3.	Technical checklist, if applicable and general terms & conditions of enquiry duly filled and signed and technical specifications of items offered (refer clause5), should be submitted alongwith part-1 techno-commercial bid in the case of two-bid tenders. Non receipt of the document may lead to rejection of offers. In the case of E tender filling up of GTC check list in the portal itself is sufficient.	
4.	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.	
5.	Spare/Tool requirements to be confirmed, if applicable i) Installation and commissioning spares, Manufacturer's standard recommended consumable spares, special jigs and tools for maintenance of the machinery/equipment and Classification society required Spares are to be included in Scope and costs. ii) The same shall be included in offered costs and shall be a part of L1 evaluation. List of Spares to be submitted along with the offer. [Refer: Purchase Technical Specification at Annexure-1]	
6.	Please note that the Class test and approval charges, if any are to be included in the equipment pricing.	
7.	SPECIFICATIONS: - a) Manufacturer's name, their trade mark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars (technical details of items offered including technical literature) etc., should be attached to the offer. Spare/Tool required as per PTS to be included in scope along with cost. b) Materials offered shall be new and unused and conform to HOOGHLY CSL specifications and drawings. c) Samples are to be supplied free of cost in the event of requirement by HOOGHLY CSL. The detailed working drawing, if called for, is also to be furnished for approval before commencement of manufacture.	



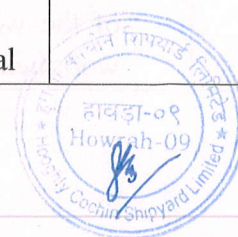
	[Refer: Purchase Technical Specification at Annexure-1]		
8.	Packing materials should be eco friendly. Products supplied shall be non toxic and harmless to health. In case of toxic materials, Materials Safety Data Sheet may be furnished along with the material.		
9.	Supplier should follow the statutory requirements of product offered. [Refer: Purchase Technical Specification at Annexure-1]		
10.	SHIPMENT a) Supplier shall intimate Hooghly CSL the readiness of the Equipment/ Machinery/ Components and Parts prior to fourteen days of shipment. b) A minimum 14 days free detention period is to be granted for clearance of the goods at Kolkata Seaport/Airport, as applicable for full containers.		
11.	COMMISSIONING: -Scope and cost of offer also to include availability of competent service engineer as required by HOOGHLY CSL for commissioning / test and for official trials b) Cost considered to include travel tickets, lodging, boarding and local transport costs.		
12.	For — Foreign vendor	d) Applicable taxes in India shall be borne by the Supplier (As per Income tax act, 1961 for Indian suppliers and Income Tax Act, 1961 and DTAA agreements in the case of foreign vendors).	
		e) Income tax liability of non resident service engineer based on his period of stay in India shall not be borne by HOOGHLY CSL	
		f). The non resident vendor/service provider shall provide such documents that are necessitated by the Indian income tax laws so as to enable HOOGHLY CSL to comply with the provisions of Indian statute and for payments of income tax in India. Following documents shall be sought by HOOGHLY CSL in this regard	
		(i) Certificate under 10 (F) (ii) Tax residency certificate (iii) The certification regarding the existence/non existence of business connection or permanent establishment in India. (The above is only an indicative list)	
13.	Taxes and duties, if any, payable extra are to be indicated in the techno commercial part and price part.		
14.	For indigenous vendor	MSEs, Startups and Make in India a) Local Suppliers (Make In India), MSME firms and Startups will be eligible for various Relaxations in pre-qualification criteria and other Benefits as per the orders promulgated by Government of India. Bidders are advised to refer the details of various Benefits and Relaxation in pre-qualification criteria as published at HOOGHLY CSL website (www.hooghlycsl.com/www.cochinshipyard.in) under the Tenders tab for further reference.	
15.	Delivery Schedule: Delivery schedule/tenure of contract: Within 45 days from date of issuance of PO as per below schedule.		



	<p>a) The supplier shall submit all the drawings for approval from Hooghly CSL within 15 days from the date of issuance of PO.</p> <p>b) All the materials to be delivered at Hooghly CSL yard within 45 days from the date of issuance of PO (including time frame for drawing preparation, approvals, manufacture etc).</p> <p>After delivery of the materials Installation & Commissioning should be completed within 21 days upon confirmation/site clearance from Hooghly CSL Officer-in-charge.</p> <p>Delivery time required for supplies should be clearly indicated in the offer (including time frame for drawing preparation, approvals, manufacture, delivery etc.).Commitment table as enclosed in Annexure-15 shall be submitted along with the Technical-Bid.</p> <p><u>Hooghly CSL reserves the full right to accept/reject any offer based on the delivery period.</u></p>	
16.	HOOGHLY CSL, may increase or decrease the quantity or may change in scope of work at its own discretion.	
17.	<p><u>PAYMENT TERMS:</u></p> <p>a) Stage-1:60% of the order value alongwith 100% applicable taxes on receipt and acceptance of complete set of material at Hooghly CSL stores after inspection. Payment shall be released against invoice certified by store officer/executing officer and other mandatory documents, as per Purchase Order Technical Specification (POTS).</p> <p>b) Stage-2:30%of the order valueafter satisfactory installation to the full satisfaction of Hooghly CSL officer-in-charge.</p> <p>c) Stage-3:Balance 10% after satisfactory completion of commissioning certified by Hooghly CSLOfficer-in-chargeor 05 months from date of successful installation, whichever is earlier.</p> <p>d) Supplied material to be verified defect free, and to be accepted.</p> <p>e) Payment towards all on account bills shall be normally paid within 45 working days from the date of receipt of error free certified bill by the Officer of Hooghly CSL as far as possible.</p> <p>f) To avoid non-acceptance, ensure to indicate P.O.NO, ITEM NO, PART NO. AND VENDOR CODE in the Delivery Challan accompanying the material.</p>	

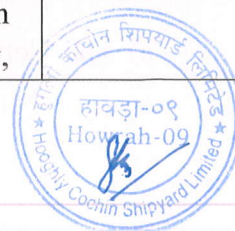


	<p>g) i) The invoice shall be compliant with GST Law. (ii) GST liability is to be discharged and ensure filing of outward supply details on GSTN portal within timeline prescribed. (Covered under GST Terms and Condition at (B)) (iii) Any debit note/supplementary invoice if any, is to be raised within September month following the respective Financial year or filing of annual return by Hooghly CSL, whichever is earlier. (iv) Any loss of tax credit due to the reason attributable to supplier shall be recovered from supplier along with Applicable interest and penalty.</p> <p>h) Payment mode shall be Electronic Clearing System (ECS)/cheque /NEFT/LC/CAD/TT-as mutually agreed in line with above standard payment terms. Variations from standard terms, if any, shall be appropriately loaded for tender comparison purposes for arriving the lowest bid.</p> <p>i) For deviation in Payments terms from Hooghly CSL standard, if any, aforesaid interest will be loaded on quoted item basic prices, for tender comparison purposes.</p>	
For — Foreign vendor	<p>j) Bank charges (including LC charges, if any) inside India will be to HOOGLY CSL account and outside India to supplier's account (In the case of import shipments). The charges for LC amendment, if any, shall be borne by the parties by whom the same is attributed/ necessitated.</p>	
	k) Supplied material to be verified defect free, and to be accepted.	
18.	<p>Occupational Health, Safety & Environmental Requirements:</p> <p>Contractor is deemed to comply with the occupational health, safety and environmental policy of the company.</p>	
19.	<p>Safety Rules:</p> <p>a) 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 Hooghly CSL.</p> <p>b) The Contractor may arrange to suitably insure all his workmen/ other personnel in this regard. Hooghly CSL 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.</p> <p>c) In this regard, the Contractor will have to fully indemnify Hooghly CSL against any claims made by his workmen/other personnel.</p> <p>d) 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.</p>	
20.	<p>Labour Laws & Regulations:</p> <p>a) The Contractor shall provide the minimum wage rate of the Central</p>	

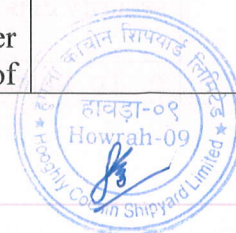


Govt. and submit the Bank account statement of the wage payment along with the bill;

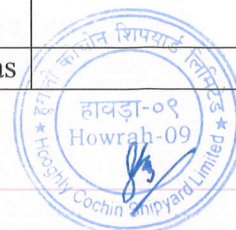
- b) The Contractor shall undertake and execute the work with contract Labour only after taking license from the appropriate authority under the Contract Labour (Regulation & Abolition) Act 1970.
- c) The Contractor shall observe and comply with the provisions of all labour and industrial laws and enactments 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.
- d) All contract workmen 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.
- e) 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.
- f) 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.
- g) If the Contractor fails to pay any contributions, charges or other amounts payable under any of the aforementioned provisions of law, HOOGHLY CSL shall deduct or adjust amounts equivalent to such contribution, charges or amounts from amount payable to him by HOOGHLY CSL, 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 HOOGHLY CSL.
- h) 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 HOOGHLY CSL out of any amount payable to the Contractor including any Security Receipt and paid ever or withheld for payment by HOOGHLY CSL.
- i) 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,



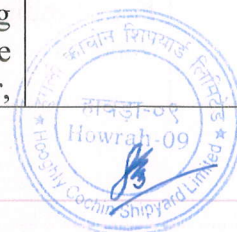
	<p>the Contractor shall take appropriate action against such workmen. The contractor shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.</p> <p>j) All person who are engaged for various works in HOOGHLY CSL either directly or through contractors, should produce the following documents prior to issuing their entry passes:</p> <p>k) Aadhar/attested copy of Aadhar with photo and address particulars. OR</p> <p>l) 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.)</p> <p>m) Application and Declaration for enrolling under Employees Provident Fund and ESI Scheme.</p> <p>n) Contractors are requested to familiarize themselves with the labour rules & regulations prevailing in HOOGHLY CSL including the labour wage pattern of contract labours.</p>	
21.	<p>Contractor should avoid plastic packaging of materials which are under their scope to as much extend as possible. Packing materials should be eco-friendly. Vendors should follow statutory requirements of the products which are under their scope. In case of chemicals or toxic materials being used, vendor should furnish Material Safety Data Sheet (MSDS) compulsorily with the material to HOOGHLY CSL authority.</p>	
22.	<p>Storage of Materials and Equipment:</p> <p>The Contractor shall arrange the storage of the materials/ equipment etc. if any, at a suitable location assigned by HOOGHLY CSL and shall ensure the safe and secure possession and handing of the items thus handed over to contractor. HOOGHLY CSL shall allot storage space within HOOGHLY CSL premises, if available. (Contd.)</p> <p>As regards the equipment/ materials stored by him as above as also in use by him, HOOGHLY CSL 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 contractor's responsibility to keep all the equipment, materials etc., in safe custody as also hold them duty insured at his expense.</p>	
23.	<p>Electricity Rules and Regulation:</p> <p>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 ensure that men and materials are safe from hazards.</p>	
24.	<p><u>Security Deposit/ Warrantee Bank Guarantee:</u></p> <p>a.iThe successful bidder shall remit a security deposit of 3% of the total order value (excluding taxes, duties) in the form of demand draft drawn in favor of</p>	

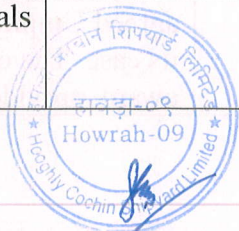


	<p>“Hooghly Cochin Shipyard Ltd” towards the satisfactory performance of the contract, if an order is placed on them. Alternatively, a Bank Guarantee equivalent to above % of the total order value (excluding taxes, duties) as per HOOGLY CSL format from an International Bank as per approved list of banks available in CSL website (for overseas supplier) & Scheduled Indian bank for Indian supplier is to be submitted, if an order is placed towards satisfactory performance of the contract.</p> <p>a.ii) The supplier shall also agree for 3% of total order value (excluding taxes and duties) as Bank guarantee towards the Guarantee clause.</p> <p>a.iii) The Bank Guarantee /DD as above should be initially valid till 90 days after completion of supplies in terms of SD and later revalidated (within the validity of initial BG) to cover the guarantee period mutually agreed plus 90 days.</p> <p>Fixed Deposit Receipt (for equivalent amount of Security Deposit/WBG required as per tender) in lieu of bank guarantee is also acceptable. Fixed Deposit Receipt shall be in the name of supplier with lien marked in favour of Hooghly Cochin Shipyard Limited, Howrah.</p> <p>The above SD/WBG is required or applicable only when the total order value (excluding taxes and duties) is Rs.20lakhs and above.</p>			
	<p>b) If the bidder is not agreeable to submission of SD/ warrantee bank guarantee as per Hooghly CSL general terms and conditions of enquiry, Hooghly CSL reserves the right to reject the offer at their discretion or 3% of total order value (excluding taxes and duties) will be added to the quoted price for tender comparison/ evaluation purpose on case-to-case basis for arriving the lowest bid. However, in cases where total quoted value is less than 20 lakhs, (ie split order etc) and the order value of entire tendered items is more than Rs 20.0 lakhs, the aforesaid loading will be applied on individual items in following cases.</p> <ul style="list-style-type: none">• The bidder has not quoted for entire tendered quantity.• Hooghly CSL has technically / commercially rejected a few items in the tender.			
	<p>c) SD to be submitted within 2 weeks of receipt of order from yard.</p>			
	<p>d) Format of bank guarantee along with enquiry to be agreed.</p>			
	<table><tr><td>For Foreign vendor</td><td>e) Mode of receipt of bank guarantee is strictly through SWIFT mode from supplier bank to HOOGLY CSL designated bank (for overseas bidders)</td></tr></table>	For Foreign vendor	e) Mode of receipt of bank guarantee is strictly through SWIFT mode from supplier bank to HOOGLY CSL designated bank (for overseas bidders)	
For Foreign vendor	e) Mode of receipt of bank guarantee is strictly through SWIFT mode from supplier bank to HOOGLY CSL designated bank (for overseas bidders)			
25.	<p><u>Risk Purchase:</u> If the supplier fails to supply the items ordered in good quality as per contract specification and fails to deliver within the delivery date or violate any of the terms and conditions of the purchase order, Hooghly CSL shall have the following rights.</p> <p>a. To cancel the order partially or full with 15 days’ notice and to forfeit the security deposit, if any.</p> <p>b. To impose tender holiday for the vendor for an appropriate period as</p>			

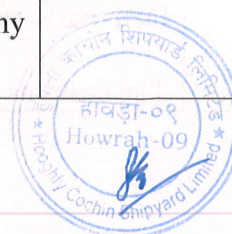


	decided by Hooghly CSL.	
	c.To initiate alternate procurement action at the risk and cost of the supplier. This Risk Purchase clause is applicable only in the case of total order/contract value (excluding taxes and duties) is Rs.20 lakhs and above (or equivalent foreign currency). Cases of value less than 20 lakhs will be addressed by serving appropriate caution/ warning notice to the firm	
26.	<p><u>Liquidated Damage:</u> In case of delay in supply of ordered materials beyond the stipulated delivery period, which is not attributable to Hooghly CSL, 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 materials subject to a maximum of 10% of the total basic price of the materials.(Total basic price is the order value excluding freight, taxes, other charges etc.).</p> <p>However, LD applicability is without prejudice to Hooghly CSL right to terminate contract for delayed delivery or other actions as per Risk Purchase clause.</p>	
27.	<p><u>Warranty/ Guarantee (Applicable per shipset):</u> a) The Items supplied shall be guaranteed for rated performance and against damage or failure due to faulty design, defective materials and bad workmanship for a period of 12 months from the date of delivery of the ship to owner or 24 months from delivery of items to Yard, whichever is earlier. Should such damage/ failure occur within the Guarantee period, supplier should immediately rectify the failure by repair/replacement of any such part found to be under performing/ defective, at supplier's own expenses. b) Further, replaced/repared 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.</p>	
28.	<p><u>Jurisdiction:</u> All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Kolkata, West Bengal, India. Alternate dispute resolution mechanism can also be considered.</p>	
29.	<p><u>Arbitration:</u> (a) Any disputes arising during the period of the contract shall, in the first instance be settled by mutual discussions and negotiations. (b) 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 hereto. The arbitration will be done by a Board comprising one arbitrators 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. Performance under this Contract shall however,</p>	

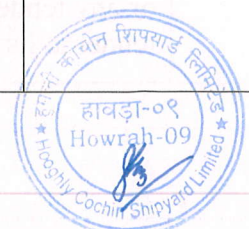



		<p>continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.</p> <p>(c) Seat & Venue of Arbitration: The seat & venue of arbitration shall be at Kolkata.</p> <p>(d) Language of Arbitration: The Language of arbitration shall be English.</p> <p>Governing Law: The contract shall be governed by Indian Law.</p> <p>(e) In case of disputes, the same will be subjected to the jurisdiction of courts at Kolkata, West Bengal.</p>	
30.		<p><u>Force Majeure condition:</u></p> <p>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, HOOGHLY CSL 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.</p>	
31.		<p><u>Indian Agent:</u></p> <p>a) Hooghly Cochin Shipyard Ltd, prefers to deal directly with the supplier. However, if the supplier appoints an Indian Agent to deal with Hooghly Cochin Shipyard Ltd., the Agency commission payable by the supplier to such an agency shall be intimated.</p> <p>b) If manufacturers effect the supply through Agents only, authorization in writing from manufacturers in favour of the Agent for supply to HOOGHLY CSL shall be furnished.</p> <p>c) In case where an Agent participates a tender on behalf of a Foreign manufacturer Indian agent should submit specific authorization from the authorized person of foreign manufacturer.</p> <p>d) 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. If an agent submits bid on behalf of 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. Indian agents cannot represent more than one firm or quote on their behalf for any particular tender.</p> <p>e) Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender</p>	
	For Foreign vendor		
32.		<p><u>PRICING:</u> Bidders should quote prices for delivery of materials FOR HOOGHLY CSL stores, Nazirgunge Unit, Howrah.</p>	
	For indigenous vendors	b. Bidders should quote prices for delivery of materials FOR HOOGHLY CSL stores.	

		<p>Address: Hooghly Cochin Shipyard Ltd (HOOGHLY CSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109.</p> <p>c. Indigenous Firms shall quote in INR only. Exchange rate variation will not be applicable and the prices shall be fixed for an order within validity period in the case of indigenous orders.</p> <p>d. Bidders may also quote on High Sea Sales basis, and necessary clearance of items will be done by HOOGHLY CSL after execution of HSS agreement.</p>	
	e. Validity: The offer should be valid for a minimum period of 120 Days from the date of Techno-Commercial Bid opening.		
	f. Inspection charges, if any required, shall also be separately included in the quote.		
	g. No enhancement of rate for whatsoever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period, will entail cancellation of the order and forfeiture of Earnest Money Deposit/Security deposit, if any and/or risk purchase, without prejudice to other penal actions, including tender holiday after serving show cause notices, as deemed fit.		
	h. Conditional discounts, if any, will not be reckoned for tender evaluation/ comparison purpose. However, if the bidder becomes L1 at original offer, conditional discount shall also be considered.		
	i. Un-priced bid (price bid without price) duly signed is to be submitted alongwith techno-commercial offer in the price format, provided. Price should be quoted separately for each item shown in the format. In the event price bid is different from the unpriced format already submitted, yard reserves the right to reject the offer at our discretion without any further discussions. Details of optional items, if any, should be indicated under separate heading in the Techno commercial bid and the respective price details should also be given in the price bid. Combining of figures against more than one item and ambiguous clauses will lead to rejection of the bid.		
	j. If, in the price structure quoted for the required material/ item, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. If there is a discrepancy between words and figures, amount in words of respective figures shall prevail. If the bidder does not agree to the observation of the HOOGHLY CSL, the tender is liable to be rejected and the same shall be intimated.		
	k. After submission of quotation/price offer no unsolicited correspondence will be entertained.		
	l. 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.		

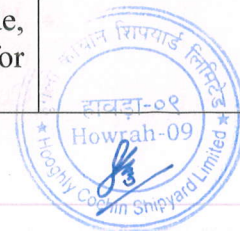


33.	L1 computation shall be based on total cost without GST of all the items. For all import consignments directly imported in Hooghly CSL's name, at present customs duty is not applicable at import clearance for HOOGHLY CSL. Customs clearance at Kolkata port and transport till HOOGHLY CSL stores shall be to HOOGHLY CSL account.	
34.	<u>Integrity Pact:</u> As per Government of India (Central Vigilance Department), Hooghly CSL and the SUPPLIER have to sign an Integrity Pact for the high value contracts, for ensuring transparency, equity and competitiveness in public procurement. The Tenderer has to sign Pre-Contract Integrity Pact as per format enclosed at Annex-10 and to submit along with your offer. The above is applicable when the total basic price is above INR. 100.0 lakhs. (present limit)	
35.	<u>SUB CONTRACTING AND ASSIGNMENT:</u> Supplier shall not contract with any subcontractor and/or vendor without the prior written consent of HOOGHLY CSL. Such consent shall not relieve the Supplier from any of his responsibilities and liabilities under the Purchase Order. In addition, Supplier shall ensure that the terms and conditions of any such contract shall comply with and correspond to the terms and conditions of the Purchase Order.	
36.	<u>General:</u> a. Prior to price bid opening, HOOGHLY CSL is at liberty to take the credit rating of bidders at our cost on case to case basis, and to include the same during the evaluation of the tender. b. Deviations, if any in the techno-commercial offer from that of the tender enquiry in any form should be clearly furnished in a separate document titled as "List of Deviations", failing which it will be presumed that all the terms and conditions are acceptable. c. The techno-commercial part alone will be opened initially on the due date of tender. The price part will be opened only after evaluation of the Techno commercial part. Date of opening of the price part will be intimated to those firms whose Techno- commercial bids would be acceptable after the evaluation. Suppliers shall not depute their representative to HOOGHLY CSL.	
37.	<u>Purchase Order:-</u> a. In the event supplier's offer leads to an agreement to effect supplies, a formal purchase order shall be issued by HOOGHLY CSL on the basis of agreed terms and conditions of tender. b. Upon placement of order (by post or mail) the supplier shall submit the acknowledgement (ie: signed and stamped original/ scanned soft copy by mail) as a token of acceptance of order within 15 days from receipt of Purchase Order. In case order acknowledgement is not received within 15 days, it will be deemed as accepted.	
38.	<u>SUPPLY: -</u> a) HOOGHLY CSL reserve the right to inspect the goods after receipt at HOOGHLY CSL store / prior to dispatch (by HOOGHLY CSL or HOOGHLY CSL authorized agency at yard cost). Short supply / Mismatch / Replacement of Defective items / those not meeting agreed / contractual specification/ Items failing during commissioning shall be sent on air freight/ DDP basis courier freight prepaid/delivered at HOOGHLY CSL store. The customs clearance charges of above (If any) shall be to supplier account.	

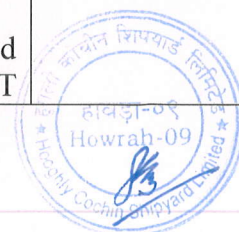


	<p>b) In case HOOGHLY CSL deposes its personnel / Third Party Inspectors to inspect items in the supplier premises prior dispatch, in such cases supplier shall provide all necessary facilities for inspection, testing and performance checks at his works on case to case to basis. The accepted items samples shall be identified with stamps/ permanent marks and reference of the same shall be given in the inspection report. Location of stamping shall be mentioned in the inspection report.</p>	
	<p>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.</p>	
	<p>d) Defective items, if any, after receipt shall be sent back on cost, carriage, handling and insurance prepaid basis including re-export (wherever desired by supplier) to be arranged by supplier. Defective items shall be returned after receipt of replacement item. Supplier, shall replace all/ part of items as applicable, in case of rejection, within 4 weeks of reporting the defect, without any additional cost to HOOGHLY CSL. In case the defective materials are not taken back within the said period, HOOGHLY CSL reserves the right to dispose the same without further intimation.</p>	
	<p>(e) The supplier shall compensate HOOGHLY CSL for loss on account of shortage in quantity and number of pieces received than that indicated in the bill of lading provided the HOOGHLY CSL's claim is rejected by the insurance due to any fault of supplier. Such claims, if any, shall be supported by recognized surveyors report. The supplier shall also compensate for losses, if any sustained by the HOOGHLY CSL due to defective packing and/or marking of the goods not in accordance with the terms of contract. The time limits for filing claims under clauses above shall be generally 180 days from the date of complete discharge of goods.</p>	
39.	<p>HOOGHLY CSL reserves the right to alter, modify the scope of supply at its discretion and in consistent with the policy of the Government of India and statutory bodies under them as applicable to the contract from time to time.</p> <p>The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders as per extant regulations.</p>	
40.	<p>HOOGHLY CSL reserves the right to commercially reject the offer if compliance is not issued to General Terms and Condition without any further clarification / notice / communication in this regard from M/s. Hooghly Cochin Shipyard Ltd., even though the offer is technically acceptable.</p>	
41.	<p><u>Termination Clause:</u></p> <p>(a) This purchase order may be terminated upon the occurrence of any of the following events</p> <ul style="list-style-type: none"> (i) By agreement in writing of the parties hereto; (ii) By the non-defaulting party, upon default by the other party, of any clause 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 party; (iii) By the other party, upon either parties; <ul style="list-style-type: none"> • Making the assignment for the benefit of creditors, being adjudged bankrupt or becoming insolvent; or • Having a reasonable petition filed seeking its "dissolution or liquidation, not stayed or dismissed within sixty (60) days; or • Ceasing to do business for any reason. 	

	<p>(iv) In cases where maximum limit of LD is reached and still the items are not delivered.</p> <p>(v) For fraud and corruption or other unacceptable practices.</p> <p>(b) 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.</p> <p>(c) HOOGHLY CSL may by notice in writing to supplier terminate the order after issuing due notice i.e. 15 days notice period. HOOGHLY CSL shall be entitled to compensation for the loss limited to the order value.</p> <p>(d) Liability maximum that can be claimed by the supplier shall be limited to what is due to be and has been paid by HOOGHLY CSL for the material delivered/work done as per the payment milestones</p>	
42.	<p><u>Limitations of Liability:</u></p> <p>Neither party shall be liable to the other party for any indirect and consequential damages. Neither party shall be liable to the other party for any loss of profits or loss of production</p>	
43.	<p><u>Indemnity clause:</u></p> <p>Supplier will indemnify HOOGHLY CSL and its affiliates, directors, officers, and employees against all liabilities, damages, losses, costs, fees (including legal fees), and expenses relating to any allegation or third-party legal proceeding (including action by a government authority) to the extent arising from an allegation that use, possession, or sale of the products or services violates or infringes a third party's rights, including intellectual property rights; or an allegation that any personnel are entitled to employee compensation, benefits, or other rights or transfer law rights, except to the extent caused by HOOGHLY CSL's unlawful acts or omissions.</p>	
44.	<p><u>Malicious Code:</u></p> <p>The Bidder will be overall responsible for all cyber/information security related aspects pertaining to the Systems Projects & ICT goods and services and will be the single point of contact for addressing all Cyber/information security related issues for the goods and services supplied by the Bidder as part of the contract. It will be responsibility of the Bidder to enter into such agreements/contracts with the OEMs as may be necessary to ensure that all cyber/information security aspects are addressed holistically and comprehensively. The Bidder will provide list of tests conducted by OEM or an accredited certification agency along with list of such test reports for the Systems Projects & ICT goods and services provided as part of contract.</p>	
45.	<p><u>Packaging:</u></p> <p>(a) Material to be wrapped with protective covers like VCI/ Environmental friendly Polythene (as per Govt. of India guidelines)/ Tarpauline.</p> <p>(b) To the extent possible, material needs to be packed in standard pallet/ box size of 1 X 1 meter.</p> <p>(c) If multiple components needed to be accommodated in the boxes, separator to be provided inside.</p> <p>(d) Packaging should withstand at least 2 Years life without degradation</p> <p>(e) Material should be with proper preservation for the prevention of rust, Transit damage etc.</p> <p>(f) Boxes should be accessible with forklift, Stacker & Hydraulic Trolley.</p> <p>(g) Proper Identification details should be provided on each box. The below details are required as minimum: Purchase Order Number, Material code, Description, Quantity, Supplier details, Tag Numbers & Serial number list (for applicable parts), Batch details, Shelf life.</p>	

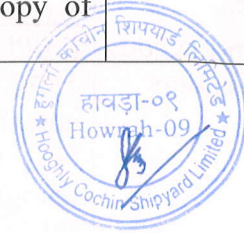


		<p>(h) Packing to be done in such a way to enable adequate preservation for long period, with no transit damage, easy to identify and count.</p> <p>(i) Asbestos should not be part of any material / packing material supplied to HOOGHLY CSL.</p> <p>(j) Transporter's Vehicles are to have all statutory documentation including valid PUC certificate.</p>	
46.	For indigenous vendors	<p><u>Goods & Service Tax:</u></p> <p>(a) Please note the HOOGHLY CSL GST registered number as 19AAECH3640L1ZD. GST registration is prerequisite for entering into the business with HOOGHLY CSL. Your firms GST registration shall be indicated. Offers received from GST unregistered suppliers / service providers are liable for rejection.</p> <p>(b) Indicate the applicable rate of GST for services in line with GOI published rate scheduled for services along with SAC.</p> <p>(c) Tax inclusive invoices from the registered service providers are not acceptable. Any corrections / rectifications in the invoice shall be made good through Debit note / Credit note.</p> <p>(d) Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.</p>	
47.	For indigenous vendors	<p><u>Input Tax Credit:</u></p> <p>(a) Bidders shall ensure timely delivery of services and submit the tax invoices to HOOGHLY CSL as per the GST law. In case, GST input tax credit is delayed / denied to HOOGHLY CSL due to non / delayed receipt of services and / or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or owing to the bidder not paying the taxes to the Government within prescribed time as per the law or any other reasons not attributable to HOOGHLY CSL and solely attributable to the bidder, the GST amount charged to HOOGHLY CSL, shall be recoverable from the bidder along with interest levied / liveable and any other penalties on HOOGHLY CSL and the vendor shall indemnify against all costs to HOOGHLY CSL, and consequences therefrom.</p> <p>(b) In case bidder delays declaring particulars in respect of any invoice in the GST return required to be filed by such bidder, and GST credit availed by HOOGHLY CSL is denied or reversed subsequently as per GST law, GST amount paid by HOOGHLY CSL towards such ITC reversal as per GST law shall be recoverable from vendor / bidder along with interest levied / leviable on HOOGHLY CSL and any other penalties on HOOGHLY CSL and the bidder shall hold HOOGHLY CSL indemnified against all cost and consequences there form.</p> <p>(c) Bidders shall submit the invoices as per the provisions of GST law. The bidders invoice shall contain the HSN code / SAC and GSTIN number of the bidder and HOOGHLY CSL as well along with other particulars. The GST charged (IGST / CGST + SGST / UTGST) shall be clearly indicated in the invoice.</p> <p>(d) In case any credit, refund or other benefit is denied or delayed to HOOGHLY CSL due to any non-compliance of GST</p>	



	<p>legislation such as failure to pay GST to the government (includes late filing of GST return) or due to non-furnishing or furnishing of incorrect or incomplete documents/ information by the bidder or service provider, the bidder or service provider would reimburse the loss to HOOGLY CSL or HOOGLY CSL may recover the same, but not limited to, the tax loss, interest and penalty. The Bidders should submit the copy of Latest GST Return filed statement/ form in GSTR-3B</p>	
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Specify Yes / No



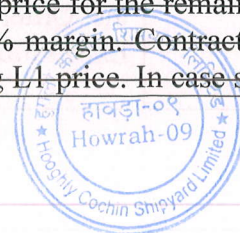
Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order - Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020 and Order no 3 dt 24.7.2020

A	Requirement of registration
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 sub contract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, alongwith 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 alongwith 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	Wordings of certificate to be submitted alongwith tender documents
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable).
2	Wordings of certificate to be submitted alongwith tender documents for Works involving possibility of sub contracting
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub contracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not subcontract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
B	Validity of registration
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.
C	Competent authority and Procedure for registration
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.

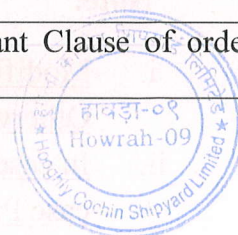


D	Definition of Bidder and Bidder from a country sharing land border with India
1	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
2	<p>"Bidder from a country which shares a land border with India" for the purpose of this Order means:-</p> <p>a) An entity incorporated, established or registered in such a country; or</p> <p>b) A subsidiary of an entity incorporated, established or registered in such a country; or</p> <p>c) An entity substantially controlled through entities incorporated, established or registered in such a country; or</p> <p>d) An entity whose beneficial owner is situated in such a country; or</p> <p>e) An Indian (or other) agent of such an entity; or</p> <p>f) A natural person who is a citizen of such a country; or</p> <p>g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.</p>
3	<p>Type of business entity (Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO) In case of incorporated entity - to attach certificate of incorporation</p>
	<p>Beneficial Owners - as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020. Details of all beneficial owners having entitlement of more than 01% of shares or capital or profit to be given, in the format as given in Annexure-I duly certified by practicing Chartered Account in India.</p>

Tender condition- Preference to Make in India	
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.
	Purchase preferences for Class I local suppliers
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
	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



1	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	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per below
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price, procedure same as para 3 above will be opted. In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference
C	Local content requirement to categories a supplier as Class I/Class II/Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 i.e amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.
1	Class I-Local content equal to or greater than 50%
2	Class II-Local content greater than 20%, less than 50%
3	Non local-Local content less than 20%
D	Declaration of local content
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 HOOGLY CSL 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.



SPECIAL INSTRUCTION TO BIDDER

1. MODE OF SUBMISSION OF TENDERS

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

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

- I. Scope of Work & Technical Specification (Annexure-1)
- II. Unquoted Price bid (Annexure-2)
- III. General Terms and Conditions (Annexure-3)
- IV. Special Instruction to Bidder (Annexure-4)
- V. Techno-Commercial Check List along with requisite documents (Annexure-5)
- VI. Vendor Details (Annexure-6)
- VII. NEFT Mandate Form (Annexure-7)
- VIII. Deviation List (Annexure-8), if any.
- IX. SD Bank guarantee format.(Annexure-9)
- X. Self-Declaration By Bidder (Annexure-10)
- XI. Declaration Of Pending Legal Cases (Annexure-11)
- XII. Tender Declaration (Annexure-12)
- XIII. Commitment of Delivery Schedule Format (Annexure-13)
- XIV. Product Specification, detail list of supplied items including brand name and accessories etc., to be provided for verification.

3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -

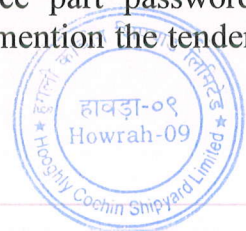
- a. Price against item as per Annexure-2.
- b. Taxes & duties as applicable shall be indicated.

Note:

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

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

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



saikat.biswas@hooghlycsl.com
sreerag.g@hooghlycsl.com

5. The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial part. Bidders will be intimated the date of opening of the price part, whose techno- commercial bids are acceptable in due course.
6. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as “List of Deviations”, failing which it will be presumed that all the terms and conditions are acceptable.
7. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.
8. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing amending the data/conditions already submitted with the tender.
9. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
10. The bidder shall submit a signed & sealed copy of the tender document including Annexures and Enclosures along with their bid as token of acceptance of terms & Conditions.

For Hooghly Cochin Shipyard Limited



TECHNO-COMMERCIAL CHECK LIST

SL. NO.	DESCRIPTION	COMPLIANCE		REMARKS
		YES	NO	
1.	Submission of Tender in two parts –Techno-commercial& Price (Password Protected)			
2.	Delivery date confirmation to yards delivery schedule			
3.	Validity of offer – four months from the date of tender opening.			
4.	Payment Terms - confirm your offered mode of payment			
5.	The Prices offered should remain firm till the completion of delivery, in case the purchase order is placed with you.			
6.	Have you quoted the rates FOR HOOGHLY CSL Stores basis.			
7.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer?			
8.	LD payable as per relevant Clause in the General terms of enquiry.			
9.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.			
10.	Termination of contract/Risk purchase as per relevant clause in the General terms of enquiry.			
11.	Supplier Should furnish all the requisite certificates as per Annexure-1 (Purchase technical specification)			
12.	Confirm all other terms and conditions of enquiry are acceptable.			
13.	Vendor details to be submitted as per Annexure-6			
14.	PAN & GST registration certificate			
15.	NEFT Mandate form to be submitted as per Annexure-7			
16.	List of deviations to be submitted as per Annexure-8			
17.	Confirm all other terms and conditions of enquiry are acceptable.			

VENDOR DETAILS (to be submitted along with TECHNICAL BID)

1	Name of Bidder/Firm	
2	Registered office Address of Company/firm in Kolkata/Howrah: Local office address at Kolkata/Howrah (if held):	
3	Telephone No./Fax No./Mobile No:	
4	E-mail address:	
5	Names of the contact person & Designation:	1) 2) 3)
6	Type of Entity-Pro praetorship/Partnership firm/company/NSIC/MSME Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
7	Cost of Tender Details (DD No. Name of Bank)	N/A
8	EMD Details (DD No. Name of Bank)	N/A
9	PAN Card Number (Self-attested copy of PAN card has to be Submitted)	
	GST Registration No. (Self-attested copy has to be Submitted)	
10	Whether the agency has been blacklisted/debarred 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 COMPANY)****Electronic Payment Mandate Form****(Mandate for receiving payments through RTGS/NEFT Hooghly Cochin Shipyard Ltd)**

- 1) Vendor Name
Vendor Address with Phone
2) No

- 3) Vendor Code
Permanent Account No.
4) (PAN)
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

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

We hereby declare that the particulars given above are correct and complete. If the

transaction is delayed or lost because of incomplete or incorrect information, we would not hold the company responsible.

(.....)

Signature of Employee

Bank Certificate

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

Date:

Place:

(.....)

Authorized official of Bank

COMPLIANCE STATEMENT- List of Deviations	PAGE 1 OF 1	
Tender Name: Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear, Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.		
TENDER NO: HCSL/PUR/TEN/2025/108, Dated: 28.11.2025		
We hereby confirm and truly declare that our Offer / Bid No.datedis in full compliance with the documents issued against the Tender No. -----dated -----, except for the deviations listed below:		
LIST OF DEVIATIONS (HOOGHLY CSL reserves the right to reject offers with deviations)		
Sl. No.	Description / Tender Reference	Reasons for Deviation
Name of tenderer:		
Date:		
Name & Designation		
Seal & Signature		
(Company Seal)		

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 pursuance 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 **HOOGHLYCOCHIN SHIPYARD LTD**
(The Buyer – hereinafter called "**HOOGHLY CSL**") in the said contract that the Supplier
shall furnish **HOOGHLY CSL** 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.

NOW THEREFORE 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 **HOOGHLY CSL**, 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 **HOOGLY CSL** 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 **HOOGLY CSL** 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:.....

¹¹An 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.

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 Hooghly CSL or by any of the Public Sector Undertaking or Government department etc.
2. If Hooghly CSL finds that, we have been blacklisted/ debarred by any of the Public Sector Undertaking or Government department, and then Hooghly CSL 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 Hooghly CSL. Further we are confirming herewith that, any loss that has happened to Hooghly CSL 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:.....

It is important to think that we have been the largest donor of aid to the Third World. In 1985, the Government's contribution was about £1.5 billion. This is a very small amount of money in the context of any point of time in our history. We are aware that the Third World is a very large area and will be for a long time. The United Kingdom will be a major contributor to the development of the Third World. We will be a major contributor to the development of the Third World. We will be a major contributor to the development of the Third World.

TENDER DECLARATION

This is to certify that I have completely read and understood the tender enquiry / numberandwe/I, M/s....., hereby declare that will abide by all the tender conditions. Deviations, if any in the techno-commercial offer from that of the tender enquiry and subsequent corrigendum in any form will be clearly furnished by us in a separate document which will be titled as “List of Deviations”.

If we are not providing any separate document titled as “List of Deviations” then it is to be considered that all the terms and conditions are acceptable to us.

Signature of Supplier/Authorized signature of firm/agency:

Name of Supplier or authorized signatory of firm/agency:

Designation:

COMMITMENT OF DELIVERY SCHEDULE FORMAT

Sl. No.	Scope of work	Time Period for submission of drawings after issuance of PO/LOI	Lead time for supply after drawing approval	Lead time for Installation after supply
		(No. of weeks/days)	(No. of weeks/days)	(No. of weeks/days)
1.	Design, Supply, Installation and Commissioning of Complete Ventilation System (Engine Room, Steering Gear, Room, Emer. DG Room and Galley) for 2200T of Bulk/General Cargo Vessel			

Rev. No.	Pages	Description	Date	Sign.
0	16	First Issue	19-11-2025	Rakesh
1	15	Second Issue	26-11-2025	Rakesh



HOOGHLY COCHIN SHIPYARD LIMITED
HOWRAH - 711 109

YARD NO	00422004	PROJECT: 2200MT MULTIPURPOSE VESSEL											
OWNER	JAK MARITIME & LOGISTICS INDIA PVT. LTD.	PURCHASE TECHNICAL SPECIFICATIONS FOR VENTILATION SYSTEM (Engine Room, Steering Gear Room, Emer. DG Room and Galley)											
APPROVED	ARAVIND DOSS												
CHECKED	ANENTHU S												
PREPARED	RAKESH SAGAR												
DATE	19-11-2025	SCALE: - NA	Doc. No.: PTS-00422004-014										
ISSUED TO	NO. DEP.												
	NO.												

This document/specification is the property of Hooghly Cochin Shipyard Limited, and it must not be copied or the contents thereof or any information received in conjunction therewith must not be imparted /shared to any third party or utilized for any other purpose. The receipt of the document/specification implies that the conditions as mentioned herein are accepted.

SECTION A – GENERAL SPECIFICATIONS

1. Introduction

The vessel is intended to operate in MS Class IX area (Within Indian Territory). The vessel would require to alternately carry 128 TEU Containers (or 64 FEU containers) or 2200T of Bulk/General Cargo. The Vessel shall be driven by twin screw conventional shaft & fixed pitch propeller system. The hull and main deck shall be Hull and super structure made of IRS Grade A.

This document intends to supply of complete design, supply, installation and commissioning of **VENTILATION System**. The design, supply, installation and commissioning of complete ventilation system for the vessels which include, dampers, louvers, fans, electrical control panel, starter panels, remote start/stop panels (*Starter Panel for ER ventilation & Galley exhaust shall be supplied by yard*), etc., required for intended function/ use of item/ system and all accessories, fittings, foundations, fasteners, spares and tools required for installation, commissioning, testing in line with the technical specification (Section B) and General Conditions (Section C) and duly approved key plans by class (IRS), Owner and Yard. The details of the vessel and the scope of work are explained in the following pages.

2. Name & Quantity

Design, Supply, Installation and Commissioning of VENTILATION System : 1 Set / vessel

The quantity indicated is for only one (1) vessel. The total requirement is to be considered for one (1) vessel.

3. Class & Flag Rules

The vessels shall be built under the following flag and classifications:

Flag : India

Classification : Indian Register of Shipping (IRS).

Class notation : ⚡ SUL, BULK CARRIER(BC-XII), CARGO

HOLD STRENGTHENED FOR CARRIAGE OF STEEL COILS
(MAXIMUM WEIGHT OF ONE COIL..... (T)), EQUIPPED
FOR CARRIAGE OF CONTAINERS

⚡ IV

Ship's complement : 14

4. Rules and Regulations

Vessel shall be built in compliance with all relevant International Standards as applicable at the time of construction, including (but not limited to) the following.:

The "Rules and Regulations for the Construction and Classification of Steel Ships, July, 2022" and IRS Classification Notes: Application of IRS Rules to MS Class IX, hereinafter referred to as RULES. The RULES form an integral part of this specification.

The following National/international Codes & Conventions, Regulations and interpretations by the Flag administration that are in force at the time of the keel laying date or similar stage of construction, hereinafter referred to as REGULATIONS:

1. Merchant Shipping Rules 2016
2. Load Lines, 1966/1988 - International Convention on Load Lines, 1966, as Amended by the Protocol of 1988
3. International Convention of the Safety of Life at Sea (SOLAS)
4. COLREGS - International Regulations for Preventing Collisions at Sea
5. MARPOL - International Convention for the Prevention of Pollution from Ships
6. Tonnage - International Convention on Tonnage Measurement of Ships, 1969
7. 2008 IS Code – International Code on Intact Stability, 2008
8. International Labour Conference – Maritime Labour Convention, 2006
9. IMO Resolution MSC.337 (91) for Noise and Vibration.
10. International Convention on the Control of Harmful Anti-Fouling Systems on Ships, 2001

5. Certification

- a) The following general principles shall be followed for certifications of components and equipment: -
- i. The firm shall ensure that materials, components, machinery and equipment subject to certification, have been certified (wherever applicable) in accordance with the Rules and Regulations of IRS
 - ii. Type approval for machinery/ equipment/ materials if mentioned, shall be from any IACS member. List of Materials, Machinery & Equipment requiring Certification towards classification are indicated in table below. Mills /approved works shall be by IRS or any IACS member.

Sl. No	Equipment	Compliance		
		Type Approval	Manufacturer's Certificate	Unit Certification
1.	Motors and Transformers (<100kW)	-	Yes	-
2.	Ventilator closing appliances (Mushroom, Louver with door, goose	-	Yes	-

	neck etc.			
3.	Ventilation Fans	-	Yes	-
4.	Damper	Yes	-	-

- b) Notwithstanding, all the necessary certificates for items are to be provided as per relevant requirements of IRS Rules and as specified in Section B of this document.
- c) Supplier to confirm & clearly mention any deviation with the requirement in the offer.

6. Design Conditions

The following ambient conditions shall be considered for the selection of the Vessel's equipment and machinery. Machinery shall be able to deliver its specified output and operate satisfactorily under tropical conditions as mentioned below:

Sea water temperature : max. 32° C min. 5° C
 Air temperature outside : max. 40° C min. 10° C
 Relative Humidity : max. 90% min. 50%
 Engine Room temperature : : 50° C

Above requirements to be considered as minimum, any other requirements which are necessary to meet class/IMO/flag rules/regulations shall be considered for design and operation of the equipment.

7. Electric Power Supply

- a) The electric power supply available onboard is as follows.
- 415VAC, 50 Hz, 3Φ, 3 Wire
 - 230VAC, 50 Hz, 3Φ, 3 Wire / 1Φ, 2 Wire
 - 24VDC
- b) Any other voltage other than the above should be derived by the firm by using necessary built-in arrangement. All type of power supplies requirements with number of feeders and power rating are to be listed out in the offer.
- c) Electrical fittings shall be suitable for tropical and marine environment at an ambient temperature of 50°C. Electrical fittings, wirings and controls shall comply with the classification requirement and shall meet relevant IEC standard.

8. Noise & Vibration Control

- a) As the vessel will be complying IMO Resolution MSC.337 (91) for Noise and Vibration, special consideration shall be given to limit the noise levels within the vessel to a level as prescribed in the IMO Resolution MSC.337 (91). Special attention shall be paid to keep the noise levels within the prescribed levels for crew cabins adjacent/close to machinery spaces.
- b) Vibration limits in accommodation spaces and other work areas shall conform to ISO6954:2000 at free running speed, as applicable for this type of vessel.
- c) Special attention shall be taken to limit the local vibrations from main machinery and other equipment such that these vibrations do not cause any malfunction or damage to the equipment when the vessel is in service.

9. Materials, Workmanship & Quality Control

- a) All materials, equipment and components for use on-board shall be new, marine quality suitable for the intended service.
- b) Workmanship is to be of good marine quality as per yard's standards, International Shipbuilding practice and to the satisfaction of the Classification Society and Owner's representatives.
- c) Quality control shall be ascertained in the yard by shipyard quality control in accordance to yards and international shipbuilding practices.
- d) In addition, verification by Class surveyors and owner's representatives shall be arranged, before final acceptance.
- e) Physical dimension and chemical composition of material, equipment, machinery, etc. shall be generally in accordance with yard's preferred standard as long as the standards are not inconsistent with the requirements of the Classification and Regulatory Bodies concerned.
- f) Asbestos shall not be used as material of insulation and gasket etc. Asbestos free certificates shall be provided for insulation, gaskets etc.
- g) The quality of the construction, testing, and trials of the vessel, its machinery, fittings, equipment, materials, and workmanship shall be in accordance with good shipbuilding practice, the technical specifications, the approved construction drawings and plans. All the plans, booklets, documents required for implementation of the specification shall be in English.

10. Supply of Documents

All documents shall be in English and in SI unit system and the following documents shall be submitted, where applicable. The drawing approval where required by the Classification Society shall be obtained by the manufacturer.

8.1. Documents to be submitted along with offer

- a. Detailed technical offer consisting full list of materials offered in line with the scope of work including service of engineers during erection, commissioning if necessary.
- b. Technical datasheet for major items of the system.
- c. Preliminary Air Quantity chart.
- d. Preliminary P&ID of the complete system indicating yard& OEM scope of supply.
- e. Preliminary dimensional drawing, weight details other major components of the system.
- f. Preliminary list of alarms and instrumentation (if required).
- g. List of spares / tools as required by class& manufacturer (if any).
- h. Scope of supply list.
- i. List of items not covered in the scope of supply.
- j. Deviation List.

8.2. Documents to be submitted within 14 working days after placement of Order/LOI/As per final agreement

- a. Detailed Bill of Material.
- b. Air quantity chart
- c. P&ID for the ventilation system.
- d. Mechanical and natural ventilation duct arrangement for all machinery spaces and areas.
- e. Ventilation duct and arrangement for Galley Area.
- f. Ventilation duct arrangement for Engine Room and Emergency DG Room
- g. Details of standard practice for all outfitting items (ducts, bends, supports, penetrations, louvers etc.)
- h. Mounting arrangement drawing for equipment and fasteners details.
- i. Installation and commissioning details.
- j. Weight details of each item in the system.
- k. Compressed air/ other ship's system requirements for the operation of the system if any.
- l. Electrical wiring and connection diagram of control panels & starters for the system under the scope of contractor (*Starter Panel for ER ventilation & Galley exhaust shall be submitted by yard*).
- m. Electrical schematic system diagrams, internal wiring diagram with terminal numbers marked.
- n. Maker drawings of items included in firm's scope with relevant certificates as applicable.
- o. Operation, Installation, Maintenance and Troubleshooting Manual.
- p. Details of shop tests and inspection for all items.
- q. List of spares / tools as agreed.

Notwithstanding, any other drawings/ documents required for the execution of the contract towards completion of the vessel shall also be issued by the firm and the same may be submitted to yard/ owner/ class approval, if required. Typical installation drawings of items designed, supplied, installed and commissioned by firm to suit the vessel requirements shall be provided to facilitate the installation by yard/ yard subcontractor. Firm shall also provide the necessary calculations/ drawings in case of deviation from the considered design/ drawings/ documents for yard/ owner/ class approval. Firm shall incorporate the yard/ owner/ class comments without any cost implication.

8.3. Documents to be submitted along with delivery of Machinery and/or Equipment to the Yard (3 sets / vessel unless otherwise mentioned)

- a. Guarantee certificate as required.
- b. Manufacturers Test certificate as applicable (3 copies/vessel with original).
- c. Test and inspection results of various tests and trials conducted.

- d. Detailed Packing list (with reference to each item of Bill of Materials).
- e. Installation, Operation, Maintenance manuals (3 sets and one soft copy in CD).
- f. Any other certificate required as per international regulations in force.

11. General Remarks

a) Name Plate (s)/Caution Plate (s) and Instrumentation

The name plate(s) and caution plate (s) shall be written in English indicated in SI unit. All major machinery, electrical and equipment shall be provided with identification nameplates made from stainless steel/brass plates as per manufactures standard and label plates indicating equipment type, capacity, electric rating etc. shall be fitted as per manufacturer's standard. Instrumentation shall also be indicated in SI unit.

b) Liability

Manufacturer shall bear all responsibilities for the shop trials and the delivery of the machinery or equipment.

c) All parts / components, valves and pipes/fittings necessary for the operation of the system to be included in the scope of supply.

d) Screw Thread

Screw thread if any, shall be in accordance with ISO standard.

e) Grease Nipple

Pin type grease nipple, where grease is supplied shall be used.

f) Painting

Painting schedule shall be as per manufacturer's standard and the painting scheme shall be specified.

g) Preservation

Recommended method of preservation and names of recommended preservatives shall be indicated. Maximum R.H. (Relative Humidity) at Malpe in Karnataka is around 80% and minimum R.H is at around 60%.

h) Special Tools

Special tools if any required for installation have to be supplied with the equipment.

i) Instruments

All necessary instruments to be supplied by the firm, preferably mounted on the equipment.

12. Guarantee

The equipment and accessories shall be guaranteed against defective design, material and workmanship and under performance till, for a period as mentioned in commercial terms and conditions. Guarantee of the equipment shall be as per commercial terms and conditions.

SECTION B – TECHNICAL SPECIFICATIONS& SCOPE OF WORK

1. General Requirements

- a) The system and its accessories must be suitable for marine applications and function smoothly at design and environmental conditions mentioned in section A of this document, without any undue effect.
- b) It should withstand air contamination through oil, salt and other contaminants associated with the marine environment.
- c) Usage of Materials containing asbestos is prohibited in the vessel.
- d) Any equipment/ material supplied by the firm should be light in weight and compact in size without any deterioration in the performance. The offered weight of the items shall be mentioned in the offer.

2. Firm's Scope of Work

- a) The firm shall design the ventilation system for Engine room, Steering Gear Room, auxiliary machinery, Emergency DG room, galley to meet the design requirements.
- b) Calculations should include air changes, fan capacities etc. Calculation such as air changes, and duct layout drawings shall be as per class/flag requirements / ISO standards / Ventilation standard practices as applicable.
- c) All the calculations, drawings shall be submitted post placement of order for yard/ owner/ class approval.
- d) Ventilation duct arrangement drawings should be in detail and shall show all the necessary fire dampers, louvers, penetrations, fans, duct sizes, air velocities etc. Firm shall make necessary updates with revision clouds to close the respective comments without any additional cost.
- e) The firm should supply complete ventilations system components which include ducting, dampers, louvers, fans, electrical control panel, starter panels, remote start/stop panels, etc., required for intended function/ use of item/ system and all accessories, fittings, foundations, fasteners, spares and tools required for installation, commissioning, testing in line with the specifications mentioned in the document and duly approved key plans by class, Owner and Yard.
 - *Starter Panel for ER ventilation (supply & Exhaust both) & Galley exhaust shall be supplied by yard.*
- f) Priming of prefabricated items included in the firm's scope like pipe/ duct supports, equipment seats etc., shall be carried out by the firm (paint supply in firm's scope) after appropriate surface preparation for preservation during outfitting period. All other painting works will be carried out by yard.
- g) Supply and installation of control panels of items (included in firm's scope), instrumentation components for the systems are in firm's scope. All other electrical works including termination of cables shall be carried out by yard.
- h) All the major structural work shall be carried out by yard. However, cut openings in hull structure in way of pipe/ ventilation penetrations, louvers, goosenecks etc., in firm's scope of installation shall be carried out by the firm.

- i) Entire accommodation works such as installation of ceiling, paneling, insulation, toilet modules, furniture, deck covering etc., will be carried out by yard/ Accommodation turnkey vendor. Firm shall work in close coordination with yard/ yard sub-contractor/ Accommodation turnkey vendor to finalize the necessary cut opening locations in ceiling/ paneling for cabin units, inspection/access hatches etc.
- j) All equipment/ materials/ machinery supplied by firm to include necessary foundations (with all fasteners), fittings, electric metal cable glands, spares, tools and any other accessories required for installation. Lifting eyes are to be supplied and fixed by firm above major equipment. The construction, materials, accessories, manuals, catalogues, spares and tools shall be of manufacturer's standard, except specially mentioned in this document.
- k) Necessary technical assistance during sea trials shall be provided by firm. Firm shall conduct necessary tests and trials as per OEM standards & class requirements to prove the equipment/components, for its worthiness of the selected application. After installation, commissioning and onboard tests/trials, sea trials shall be carried out as per manufacturer's standard practice/ Owner requirements and to the satisfaction of Classification societies / other statutory requirements. Any faults found at this stage, shall be corrected to the satisfaction of all related parties before delivery of the ship.
- l) The scope of design, supply, installation and commissioning of ventilation systems for compartments are as below:

Galley:

- Galleys shall be provided with suitable arrangements for forced ventilation. **Volume of Galley Room is 21.00 m²**
- Galley shall be provided with a canopy with electrically driven exhaust fans.
- One no. exhaust fan having minimum capacity of 350 m³/hr shall be provided.
- The ducting shall be made of galvanized steel sheet metal. For connecting with fans, flexible connections shall be used.
- The vent/ louvers shall be fitted with insect screens and dust filters arranged to minimize water ingress. Filters shall be fitted at air intakes.
- Firm shall submit the exhaust / Supply duct layout arrangement with fire dampers details complying IRS class rules after placement of yard, owner and class approval.

Engine Room:

- The Engine Room shall be ventilated by a mechanical ventilating system. **Volume of Engine Room is 830 m³ and Engine room with casing is 872 m³.**
- The ventilating fans shall supply fresh air to the operating station and other necessary places in the engine room through air ducts.
- Two supply fans (Centrifugal Type) having capacity of 16000 m³/hr each in engine room shall be provided. The design to be optimized to limit maximum fan power for each supply fan up-to 7kW.
- One Exhaust fan (Centrifugal or Axial Type) having capacity of 12000 m³/hr and one mushroom ventilator (min. dia 600 mm) in engine room and of 900mm height

above deck shall be provided. The design to be optimized to limit maximum fan power for exhaust fan up-to 5kW.

- The exhaust air opening and fresh air intakes for engine room shall be provided with *emergency shut-off fire dampers* operated from the outside of the engine room as per class requirement.
- Interfacing of ventilation fans, fire dampers with fixed fire-fighting system shall be supplied for Engine Room.
- **Main Engine (25488046; Model KTA-38-M0 (K38-M)):**
 - No of Engines - 2 Nos
 - Rated Power - 850BHP @ 100 % MCR
 - Heat Dissipation - 190 kW (through exhaust) & 76 kW (from engine)
 - Ambient Temperature required for proper functioning of Main Engine = 35 Degree.
 - Max. allowed temperature = 45 Degree.
- **Main DG (80eKW):**
 - No of DGs - 2 Nos
 - Rated Power - 80 eKW @ 100 % MCR
 - Heat Dissipation - 70 kW (through exhaust) & 16 kW (from engine)
 - Ambient Temperature required for proper functioning of DG = 35 Degree.
 - Max. allowed temperature for DG = 45 Degree.

Emergency DG Room:

- The machinery spaces shall be ventilated by a mechanical ventilating system.
Volume of Emergency DG Room is 30.00 m³
- One Supply Fan (axial type) having capacity of 1770 m³/hr. And one natural exhaust (shown in drg) shall be provided in the Emergency DG Room.
- The design to be optimized to limit maximum fan power for supply fan up-to 0.4kW.
- **Emergency DG (40eKW):**
 - No of DGs - 1 Nos
 - Rated Power - 40 eKW @ 100 % MCR
 - Heat Dissipation – 37.2 kW (through exhaust) & 9.2 kW (from engine)
 - Ambient Temperature required for proper functioning of DG = 35 Degree.
 - Max. allowed temperature for DG = 45 Degree.

Steering Gear Compartment:

- In steering gear compartment 02 nos. goose neck type (250 Nb Sch. 40) of height 900mm above deck with wire mesh and closing arrangement shall be provided as per drawing for natural ventilating system.

General Principles:

The general principles shall be followed in the design of ventilation.

- Vents/ Louvers shall be fitted with insect screens and shall be arranged to minimize water ingress.
- Ventilation fans shall be electrically driven axial flow. The casing shall be of galvanized steel and the blades shall be of manufacturer standard
- The outlets and inlets of ducts shall be located in opposite corners wherever practicable.

Firm shall submit all the calculations, drawings after placement of order for yard/ owner/ class (IRS) approval. Calculations to include heat load calculations/ air changes, fan capacities etc. Ventilation duct arrangement. drawings shall show all the necessary dampers, louvers, penetrations, fans, duct sizes, air velocities etc.

- m) In general, firm's scope of work in the above mentioned areas includes design, supply, installation and commissioning of complete HVAC systems (including mechanical ventilation fans, dampers, ventilation ducts, transition pieces, louvers, Control panels for local & remote operation) along with all necessary foundations (with all fasteners), fittings, spares, tools and any other accessories required for installation, testing of same.
- n) The location of Galley, Emergency DG Room spaces and Engine Room is shown in the GENERAL ARRANGEMENT attached at Annexure-1.
- o) The preliminary MECHANICAL VENTILATION ARRANGEMENT drawing attached as Annexure-2 in this document are guidance/ reference only. The firm to check the details and in case of any deviation, firm shall submit all the revised calculations, drawings for approval of yard/owner/ class (IRS).
- p) Security of the items supplied & installed by the firm onboard vessel till its delivery and at work sites when not inside the yard's store.

3. Yard's Scope of Work

- a) Latest key plans (GA & Accommodation plan) will be provided by yard. Also, structural drawings, inter-connected electrical installation details and other integration details which are essential for smooth design will be provided by yard.
- b) All the painting works for complete ship. However, priming of prefabricated items like equipment seats etc. shall be carried out by firm (paint supply in firm's scope) after appropriate surface preparation for preservation during outfitting period. Paint touch up of areas to be insulated, paneled by firm is in firm's scope (primer provided by yard). Yard will carry out priming of steel decks as part of block fabrication. Surface preparation and priming of deck (primer provided by yard), if required before laying the deck covering is to be carried out by firm.

- c) All the electrical works for complete ship except the scope mentioned in Clause 2, Section B above. Electrical cabling works including termination of cables shall be carried out by yard/ yard subcontractor.
- d) All the major structural work for complete ship. However, cut openings in hull structure in way of pipe, doors, windows etc., in firm's scope of installation shall be carried out by the firm).
- e) Periodic review of schedules of the work in line with cardinal dates of the project.
- f) Necessary power, compressed air (4-6 bar pressure) will be made available free of cost.
- g) Required drinking water, washing water and water for construction purpose free of cost.
- h) Required work area& space for site office/ storage containers including electricity as per prevailing rates in shipyard.
- i) Forklift / transport for transporting heavy equipment subject to availability.
- j) Cranes for lifting heavy items, subject to availability. The requirement of crane or other yard facility should be informed in prior.
- k) Storage facility for major imported items. However, once the item is released from HCSL store after fulfilling custom formalities it shall be kept under firm's custody in the storage containers provided by the firm.
- l) Arranging free entry passes for employees of the firm.
- m) Materials/ tools return passes based on entry declaration of the firm.
- n) Firm shall take adequate care in obtaining entry declaration form while bringing in materials, tools, storage containers, portable offices, material handling facilities etc., inside yard. Yard will not be liable to issue return passes for items brought inside the yard by the supplier without a duly authorized material declaration form as such items will be treated as yard property.
- o) Yard may issue returnable gate passes for tools/ surplus materials if any to be taken in, based on work requirement and after fulfilling custom/ yard formalities.
- p) Permission for round the clock working subject to yards rules and regulations.

SECTION C – GENERAL CONDITIONS

1. General Works by firm:

- a) Supply all the required materials on time as per specification/ best international standards & shipbuilding practices.
- b) Presenting the items for survey and obtaining approval from Owner/ Class/ Yard QC and resolving related issues, if any on the supplied items and the workmanship.
- c) Preparing detailed working schedule (weekly/ monthly) etc., in line with the construction schedule of the vessel & execution of the same.
- d) Arranging necessary portable site offices to co- ordinate work near the vicinity of the vessel under construction. The location/ place of positioning the office, inside the yard shall be as per the direction of HCSL. Localized lighting, DBs etc. at work place/ site to be arranged by the firm.
- e) Arranging necessary day to day material movement facilities except for moving heavy equipment/ items for which Yard shall provide the available transport/ material handling facility as per the availability.
- f) Arranging container stores for small/ critical/ sensitive items by the firm and other items taken from HCSL store. The location/ place of positioning inside the yard shall be as per the direction of HCSL.
- g) Arranging necessary communication facilities for site office like telephone connections, email facility etc.
- h) Necessary computer system (if required) for preparation of production drawings.
- i) Mobilizing its own plant and equipment, necessary working tools and tackles, welding electrodes, safety and protective gear for their personnel inside the yard for carrying out the work as per Safety/ Statutory rules/ Yard rules of working.
- j) Firm shall be responsible for safety and welfare of all its employees employed for construction, and shall be responsible for payment of all salaries to their employees and other statutory dues and for all provisions of statute governing them.

2. Methodology of working

- a) The firm should provide experienced and technically competent personnel for close coordination with the detailed designers and yard and involve in modelling and creation of production drawings& BoMs for Ventilation system.
- b) The firm shall also provide experienced and technically competent personnel for providing close supervision of the entire work to be executed.
- c) Technically competent persons shall be associated with yard personnel with respect to design clarifications, plan approval and material selection activities. Firm is to depute experienced design personnel, to liaise with yard personnel during the outfit modeling period.
- d) Employees of the firm shall work in close co-ordination with yard personnel, yard subcontractors with a conciliatory approach and team spirit to complete the project as per schedule.

- e) The project team shall have Periodic (Weekly/ Monthly) review meetings with Yard personnel to monitor the progress.

3. Testing & inspection

- a) All testing to prove the compliance of any and all components, systems and sub-systems with respective and relevant requirements shall be considered as included in the scope of supply.
- b) Manufacturer's shop tests and inspection to ensure the guaranteed performance shall be carried out in accordance with the Manufacturer's Standard and the requirements of the Rules and Regulations in the presence of the Classification Surveyor (if applicable) and the test results and certificates shall be supplied as mentioned below. Tests shall be witnessed by owner/ owner representative/ yard representative, if required. Necessary details like schedule of testing, testing methodology, test procedure, qualification criteria, acceptable deviation etc. shall be provided at least 45 days in advance. Manufacturer shall bear all responsibility for the shop trials & the delivery of the equipment to shipyard.
- c) After installation and commissioning, onboard tests / trials & sea trials shall be carried out as per manufacturer's standard practice / Owner requirements and to the satisfaction of Classification societies / other statutory requirements. Any faults found at this stage, shall be corrected to the satisfaction of all related parties before delivery of the ship. Harbour & sea trials protocols are to be submitted.
- d) The details of inspection, tests and trials as part of installation and setting to work are to be covered in the quality assurance procedure (QAP) submitted by firm for Yard approval.
- e) Detailed QAP is to be submitted to Yard prior to commencement of production. Comments from Yard if any shall be incorporated in the same and inspection/ certification shall be as per approved QAP. Equipment and materials as applicable, will be inspected as per Yard approved QAP. Inspection certificate shall be submitted for the same along with supply of items. Receipt inspection will be carried out by Yard. Fitting out of compartments as well as installation of equipment will be inspected by Yard as per QAP.

4. Spare parts, inventories & tools

- a) Maker's recommended installation/ commissioning spares are to be supplied along with the system. Any additional spares required during commissioning shall be arranged by the firm free of cost. Special tools if any required shall also be included in the scope.
- b) Maker's recommended spares, including requirements of classification society if any, for unrestricted service are to be supplied along with the equipment. Separate itemized price for OBS to be furnished in the commercial offer.
- c) Hand tools including special tools for installation / commissioning / operation shall be included in the scope of supply as per standard delivery conditions.
- d) Each part or set of parts shall be individually packed and protected against dampness and corrosion during prolonged storage.
- e) Each part to have a tie-on label and duplicate labels attached to the exterior of each package. All labels are to be indelibly marked with the designated type, name, serial/part number, the name of machinery for which it is intended.
- f) The spare parts shall be supplied in a box.
- g) All the equipment/accessories supplied should meet the rule requirements of class notations and other operational requirement for the vessel. Alternatively, any

features/accessories/equipment required as per applicable class rules and other operational requirements should be included in the scope of supply.

5. Schedule of work

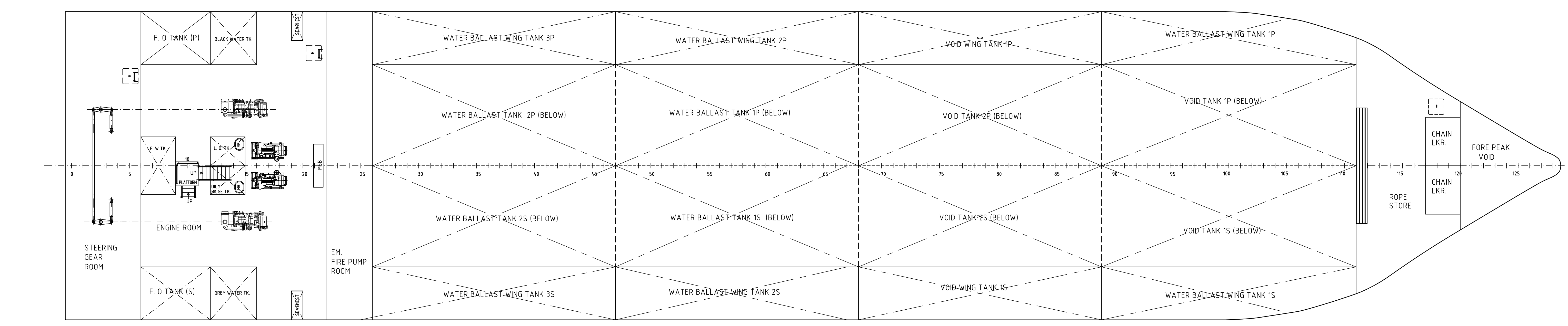
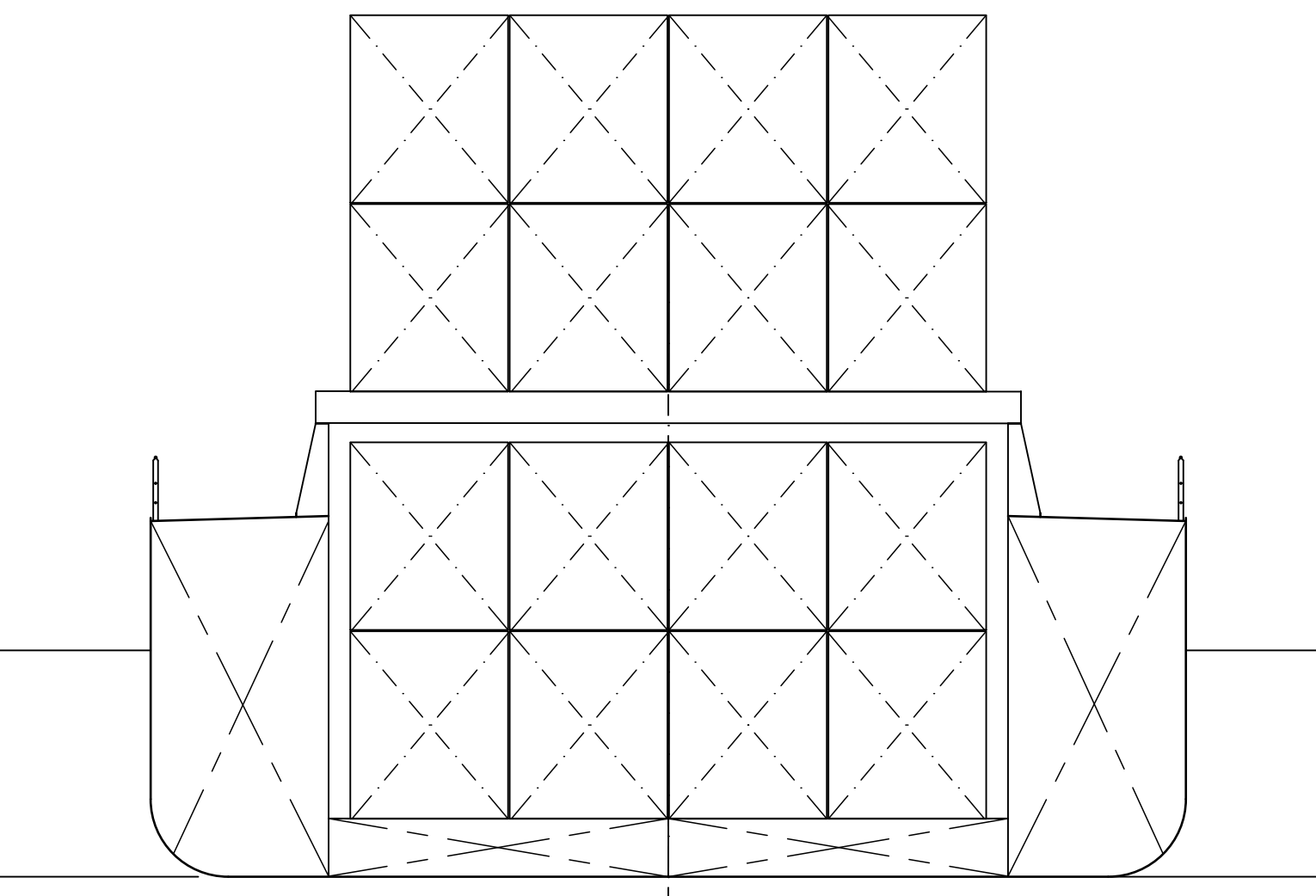
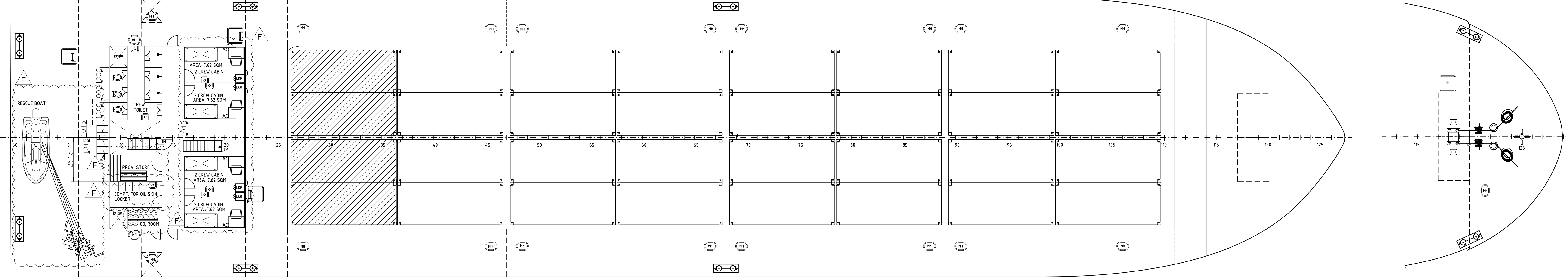
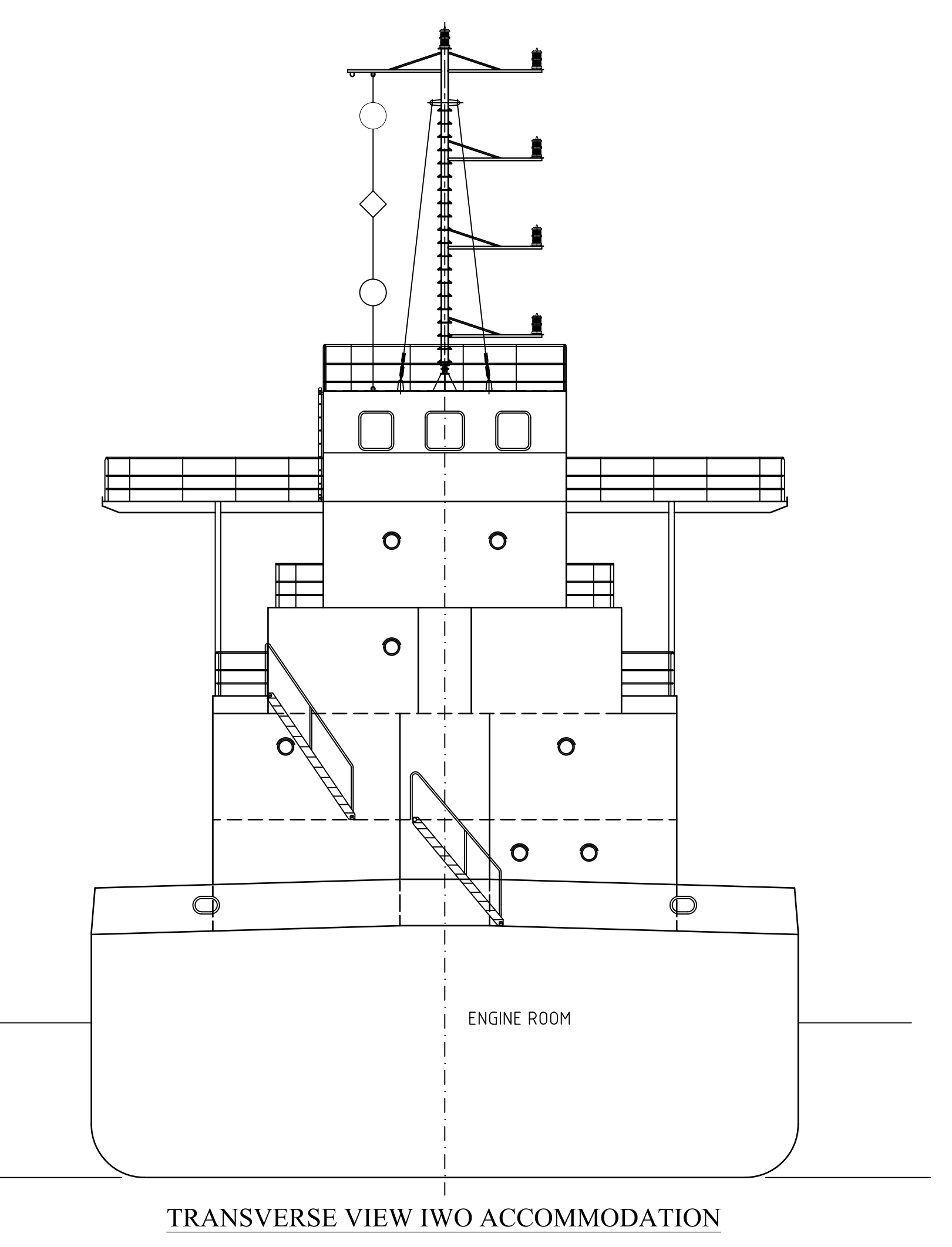
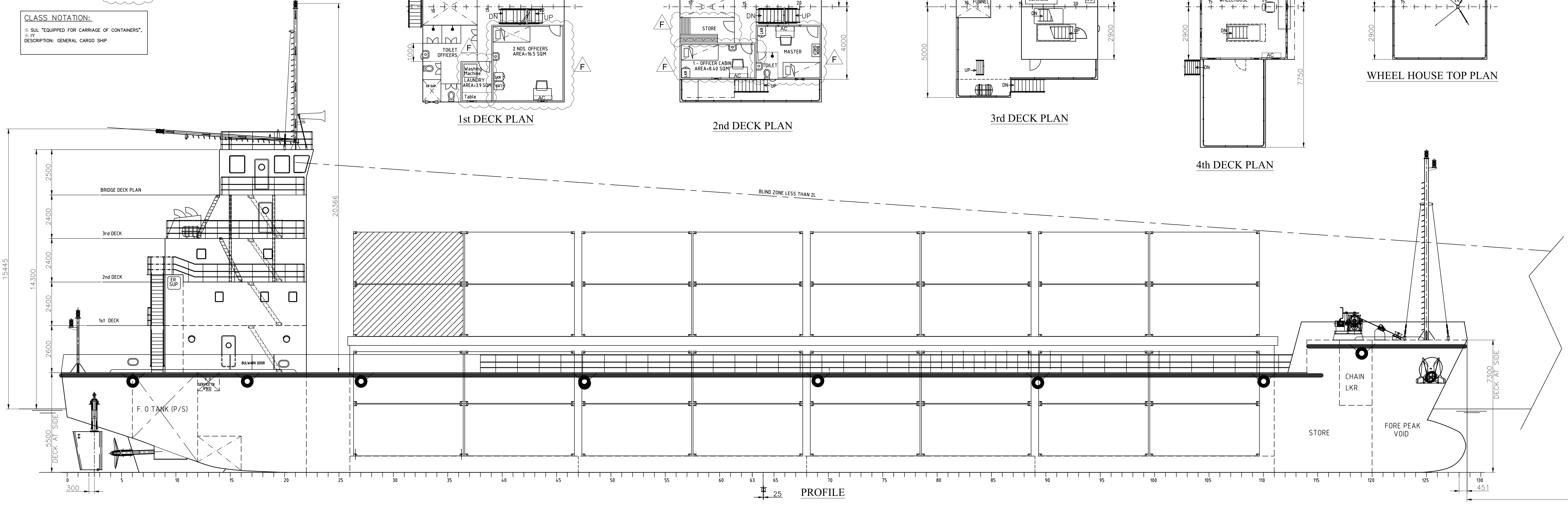
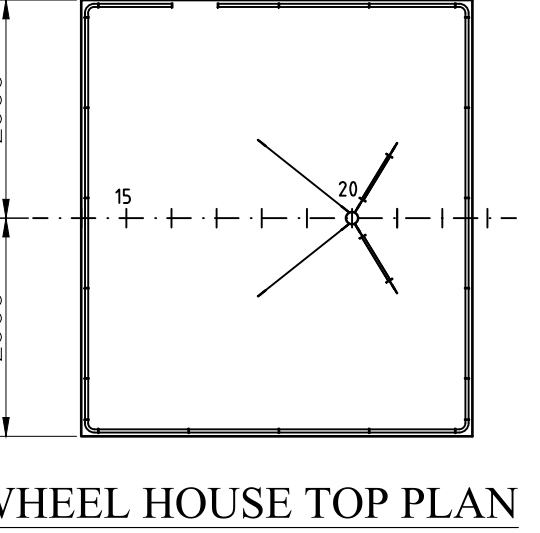
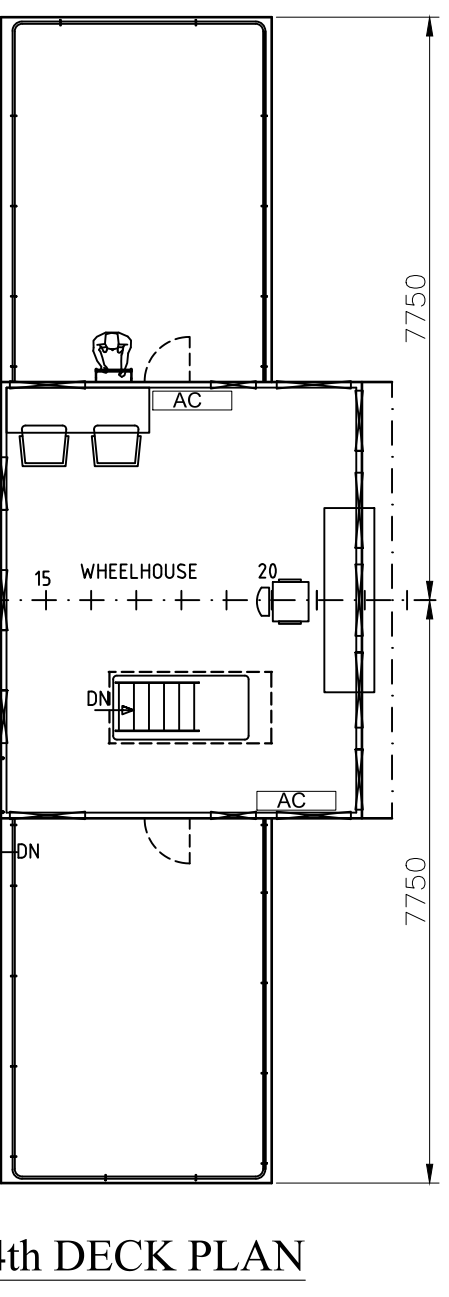
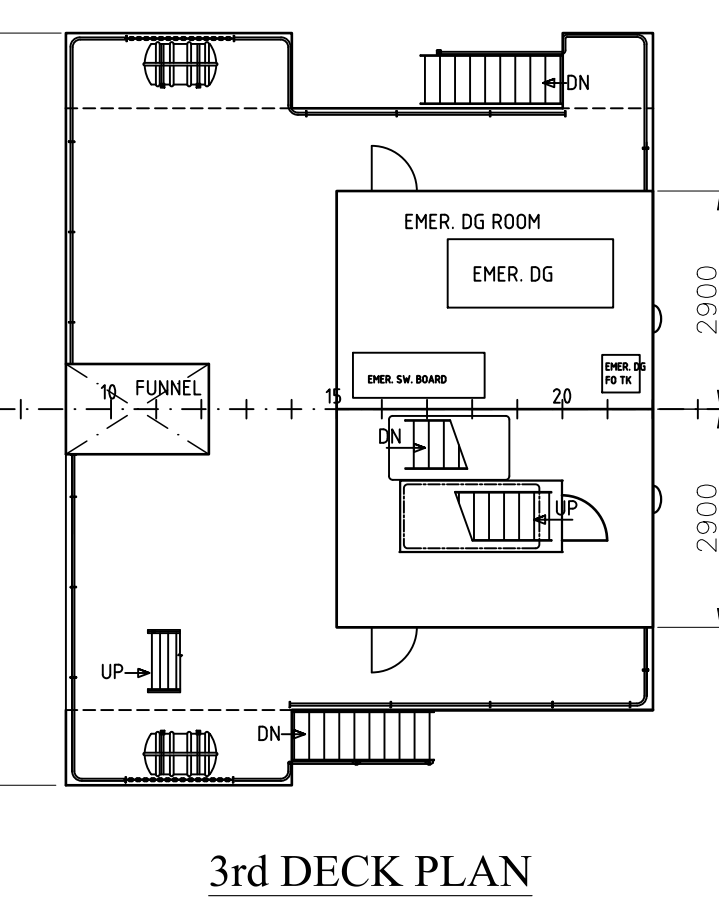
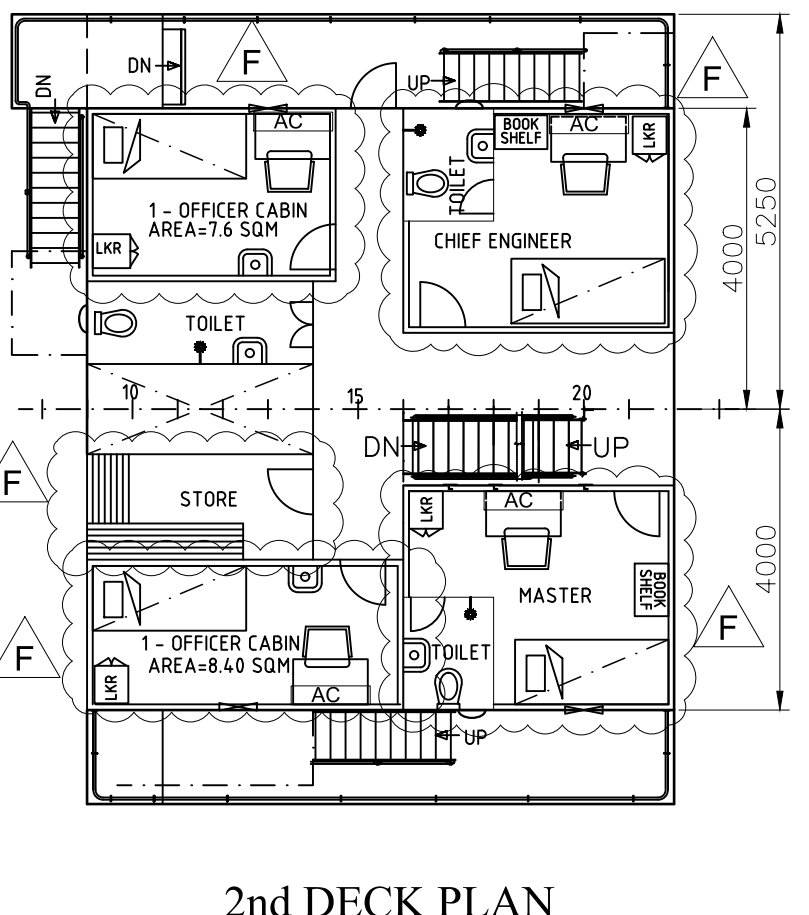
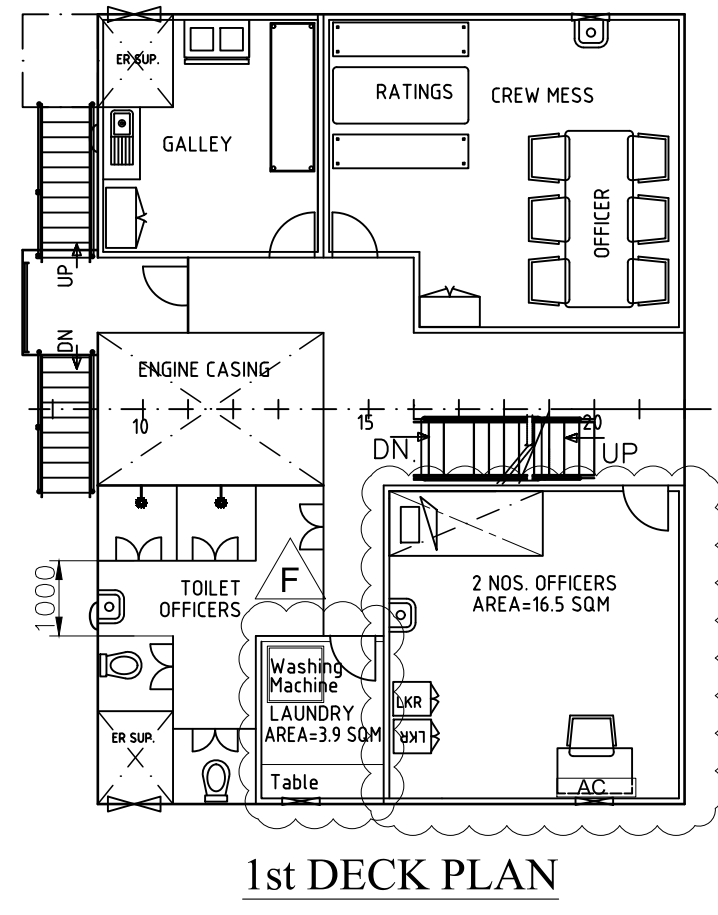
The master construction schedule of vessel will be shared with the firm post order. Firm will be required to prepare a detailed schedule to satisfactorily complete the activities scheduled as per HCSL's construction schedule. The detailed schedule shall be mutually agreed by firm and HCSL execution team and a monthly/ weekly progress report shall be given to the HCSL team as mutually agreed. Firm is required to prepare and forward the drawings included in firm's scope within 14 days of placement of purchase order. The firm is required to supply the items to facilitate the installation work onboard as per schedule that will be handed over to the firm along with Purchase order.

6. ANNEXURES

1. Drg. General Arrangement Drawing
2. Drg. Ventilation Arrangement Drawing for Engine Room, Steering Gear Compartment, Galley and Emergency DG Room (Class Approved)
3. Drg. Emergency DG Room Arrangement
4. Drg. Engine Room Arrangement
5. Drg. Accommodation Plan (For Galley & Toilet)

PRINCIPAL PARTICULARS	
LENGTH OVERALL	78.00 M
BREADTH ON WATERLINE	7.50 M
DEPTH (HULL DECK)	3.50 M
DRAFT (HULL DECK)	3.50 M
DRAFT (SCANTLING)	3.50 M
AIR DRAFT	18.00 M
SPEED	10.00 KNOTS
CARGO CAPACITY	2200 TONNES
CONTAINER	128 TEU (16.4 FEU)
CLASS	RS (MS CLASS - IX)

CLASS NOTATION:
RS - RUL "EQUIPPED FOR CARRIAGE OF CONTAINERS".
IX - FUL "GENERAL CARGO SHIP".
DESCRIPTION: GENERAL CARGO SHIP



F	MODIFIED FOR CLASS NOTATION CHANGED FROM RSV TYPE - IV TO MS CLASS - IX	SP	PM	15.09.25
E	VOID TANK 1P & 1S (FR.89 - 111) CONVERTED TO WB TANK TANK NO. CHANGED ACCORDINGLY	SP	PM	28.02.2024
D	1. EMERGENCY DG ROOM LAYOUT CHANGED 2. ENCLOSURE FOR LADDER LEADING TO W/H ADDED	SP	PM	24.01.2024
C	1. WATER BALLAST TANKS (DB) REARRANGED 2. ER SUPPLY / EXHAUST HEIGHT CHANGED	SP	PM	24.02.2023
B	MEANS OF ESCAPE FROM ACCOM. AT ALL DECK LEVELS PROVIDED THROUGH STAIRS.	SP	PM	17.11.2022
A	FODS TANKS ADDED, SEPARATE MEANS OF ESCAPE PROVIDED FOR ACCOM. SEPARATE STAIRWAY ENCLOSURE PROVIDED, CHANGES IN BRIDGE DECK TO ENSURE SHIPSIDE VISIBILITY.	SP	PM	15.11.2022
REV	MODIFICATION	BY	CHK'D	DATE
PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL				
TITLE GENERAL ARRANGEMENT				
DRAWN BY :	MPL	DRG NO :	P008-201	SCALE : 1 : 100
CHECKED BY :	PM	SHEET :	01	SIZE : A0
		DATE :	07/10/2022	REV. : F
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CLIENT	JAK MARITIME & LOGISTICS PRIVATE LIMITED.			HULL NO. 004/22004
BUILDER	HOOGHLY COCHIN SHIPYARD LIMITED			
DESIGNER	Maritcons Private Limited			
	TEL : (+91)9007227123 webmail.maritcons.com			

760

Ø400X10 DOUBLER

Ø323

40

DN 250 PIPE SCH.40

WIREMESH

WEATHERTIGHT COVER

MAIN DECK

MAIN DECK PLAN

**MATERIALS TO BE MANUFACTURED
AND TESTED IN ACCORDANCE WITH
THE RULES OF THE SOCIETY**



APPROVED
DATE: 13 Nov 2025

**INDIAN REGISTER OF SHIPPING
MUMBAI**

1st DECK
8100 AB.BL

EXHAUST FAN
CAPACITY: 12000 C.M.H

FR 70x10

BKT
250X150X8 THK
(TYP)

DOUBLER PLATE
Ø700X10 THK
L 76X75X8

DOOR OPENING
1650x700
GR 75

MUSHROOM VENTILATOR
NET FOR FIREPROOFING

M12 BOLT WITH
NUT & WASHER

4 NOS BKT
250X150X10 THK

DOUBLER PLATE
Ø700X10 THK

VIEW - B

VIEW - B

Platform
10900 AB.BL

870x470
CR 160

306

GALLEY EXHAUST FAN
CAPACITY (MIN)-350 C.M.H

500

150x64+75x8 FF

1st DECK
8100 AB.BL

8 10 14

5250 OFF CL LONG BHD (PORT)

GALLEY EXHAUST FAN

ER SUP.

GALLEY

5250

DN UP

ENGINE CASING

07 10 15

4TH DECK

6

319

150

EM DG SUPPLY FAN
CAPACITY (MIN)-1770 C.M.H.

3RD DECK

15

18

20

2900 OFF CL (PORT)
(LOOKING PORT)

2900 OFF CL (PORT)
(LOOKING PORT)

4TH DECK

EXHAUST FOR EM DG ROOM

1400

2900 OFF C.L. (STBD)

380

GUTTER BAR FB75X8

3RD DECK

FRAME- 15
(LOOKING FWD)

400

381

350

DN 250 PIPE SCH.40

WEATHER TIGHT COVER

WIRESH

SECTION - "X-X"
(LOOKING PORT)

EM DG SUPPLY FAN

EXHAUST FOR EM DG ROOM

EMER. SWI. BOARD

EMER. DG ROOM

2900 OFF C.L. (PORT)

1400

CL

CL

23

PLAN
SCALE: 1/25

PLAN
SCALE - 1:25

Technical drawing of the supply fan unit showing dimensions and labels:

- Overall width: 1100
- Overall height: 1915
- Supply Fan Capacity: 16000 C.M.H.
- 75x10 FB (Flange Bolt)
- BKT 1094X300X8 THK (Bracket)
- 1st DECK 8100 AB.BL (Deck)
- Dimensions: 670, 300, 8, R25

FRAME- 10
SIDE DRAWN STBD SIDE SIMILAR)
(LOOKING FWD)

VIEW-A
(PORT SIDE DRAWN STBD SIDE SIMILAR)

VIEW-A

PLAN
(PORT SIDE DRAWN STBD SIDE SIMILAR)

DETAIL-Z

A	IRS COMMENTS INCORPORATED MODIFIED FOR CLASS NOTATION CHANGED FROM RSV TYPE IV TO MS CLASS – IX	SP	PM	25.09.25
REV	MODIFICATION	BY	CHK'D	DATE
PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL				
TITLE VENTILATION ARRANGEMENT				
DRAWN BY : SP		DRG NO : P008/337		SCALE : 1 : 50
CHECKED BY : PM		SHEET : 1 OF 1		SIZE : A1
		DATE : 31.01.2024		REV. : A
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BUILDER HOOGHLY COCHIN SHIPYARD LIMITED				004/22004
DESIGNER Maritcons Private Limited TEL : (+91)9007227123 webmail.maritcons.com				
				

Annexure-03
Emergency DG Room Arrangement Dwg.

EQUIPMENT LIST FOR EMERGENCY DG ROOM

SL. NO.	EQUIP. NUMBER	QTY	DESCRIPTION	CAPACITY	TYPE	REMARKS
1	1	1	EMERGENCY DG	40 KW	---	
2	1	1	FO R.U.TANK FOR DG	250 Litre	---	
3	1	1	EMERGENCY SWITCHBOARD	---	---	
4	1	1	EMER. TRANSFORMER BANK	---	---	

REFERENCE DRAWINGS


SL. NO.	DESCRIPTION	DRAWING NO.
1	GENERAL ARRANGEMENT	P008-201
2	EMER. GENERATOR ROOM STRUCTURE	P008-315

PLAN

SEE LETTER E-206908-370191



PLAN(S) NOW SENT SUPERSEDE THE
APPROPRIATE PLAN(S) PREVIOUSLY
APPROVED/NOTED ON 28-Nov-23

A	EMERGENCY TRANSFORMER BANK ADDED MODIFIED FOR CLASS NOTATION CHANGED FROM RSV TYPE IV TO MS CLASS-IX		PB	PM	16.10.2025
REV	MODIFICATION		BY	CHK'D	DATE
PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL					
TITLE EMERGENCY DG ROOM LAYOUT					
DRAWN BY : KDG		DRG NO : P008/217		SCALE : 1 : 50	
CHECKED BY : PM		SHEET : 1 OF 1		SIZE : A1	
		DATE : 09/11/2023		REV. : A	
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BUILDER HOOGLHY COCHIN SHIPYARD LIMITED				004/22004	
DESIGNER Maritcons Private Limited TEL : (+91)9007227123 webmail.maritcons.com					
					

LIST OF EQUIPMENT MACHINERY

ITEM NO.	NO. OFF	DESCRIPTION	TYPE/CAPACITY	MAKE	REMARKS.
①	2	MAIN ENGINE	K-38-M 597 KW (800 BHP) at 1800 RPM	CUMMINS	
②	2	GEAR BOX	Reduction Gear Box 4:1	REINTZES	
③	2	SHAFT WITH BEARING			
④	2	DG SET	80eWKW, 3PH, 415V, 50 HZ, 0.8 PF	SIGMA POWER CONTROL SYSTEM PVT LTD	
⑤	1	FIRE PUMP	CENT. SELFPRIMING FIRE PUMP 25 Cum/hr.@60MWC	ROYSONS ENGINEERS PVT. LTD.	
⑥	1	BILGE PUMP	CENT. SELFPRIMING BILGE BALAST PUMP 52 Cum/hr. @ 40MWC	ROYSONS ENGINEERS PVT. LTD.	
⑦	1	BALLAST PUMP	BILGE / BALLAST PUMP 52 Cum/hr. @ 40MWC	ROYSONS ENGINEERS PVT. LTD.	
⑧	1	COMPRESSOR WITH AIR BOTTLE UNIT		ELECTRONIC CONTROL CORPORATION	
⑨	1	FW PUMP	FW DUTY TRANS. PUMP 83.33 Cum/hr. @ 25MWC	ROYSONS ENGINEERS PVT. LTD.	
⑩	1	FO TRANSFER PUMP	FO TRANS DUTY GEAR PUMP 2 Cum/hr. @ 15MWC	ROYSONS ENGINEERS PVT. LTD.	
⑪	1	SEWAGE TREATMENT PLANT (STP)	STP, BIOLOGICAL TYPE 2.10 Cum/day, Organic Load 1.05 Kg BOD5/day	EVAC	
⑫	1	OILY WATER SEPERATOR AND FEED PUMP	Poseidon Fit 0.5 0.5 Cum/hr.	EPE	
⑬	1	SEWAGE DISCHARGE PUMP	Sewage Pump 2 Cum/hr.		
⑭	1	WASTE DISCHARGE PUMP	Waste Disch Pump 2 Cum/hr.		
⑮	1	BILGE MANIFOLD			
⑯	1	BALLAST MANIFOLD			
⑰	1	AIR COMPRESSORE			

LIST OF EQUIPMENT ELECTRICAL

ITEM NO.	NO. OFF	DESCRIPTION	MAKE	REMARKS.
ELECTRICAL ITEM				
①	1	MAIN SWITCHBOARD		
②	6	TRANSFORMER BANK		
③	5	STARTER FOR PUMP		
④	1	STARTER FOR AIR COMP		

PLAN OF TRANSFORMER BANK
(STBD SIDE)

FR.20
(STBD SIDE)

FR.21
(STBD SIDE)

PLAN OF TRANSFORMER BANK
(PORT SIDE)

fr.21
(PORT SIDE)

SECTION - "Y-Y"

ENGINE ROOM BOTTOM PLAN

FR.20
(PORT SIDE)

FR.17
(STBD SIDE)

FR.18
(STBD SIDE)

FR.15
(STBD SIDE)

FR.17
(PORT SIDE)

FRAME- 06

(LOOKING AFT)
BHD. PLATING: PL 8.0 U.N.O.
BHD. STIFFENERS: 75x75x8 OA U.N.O.

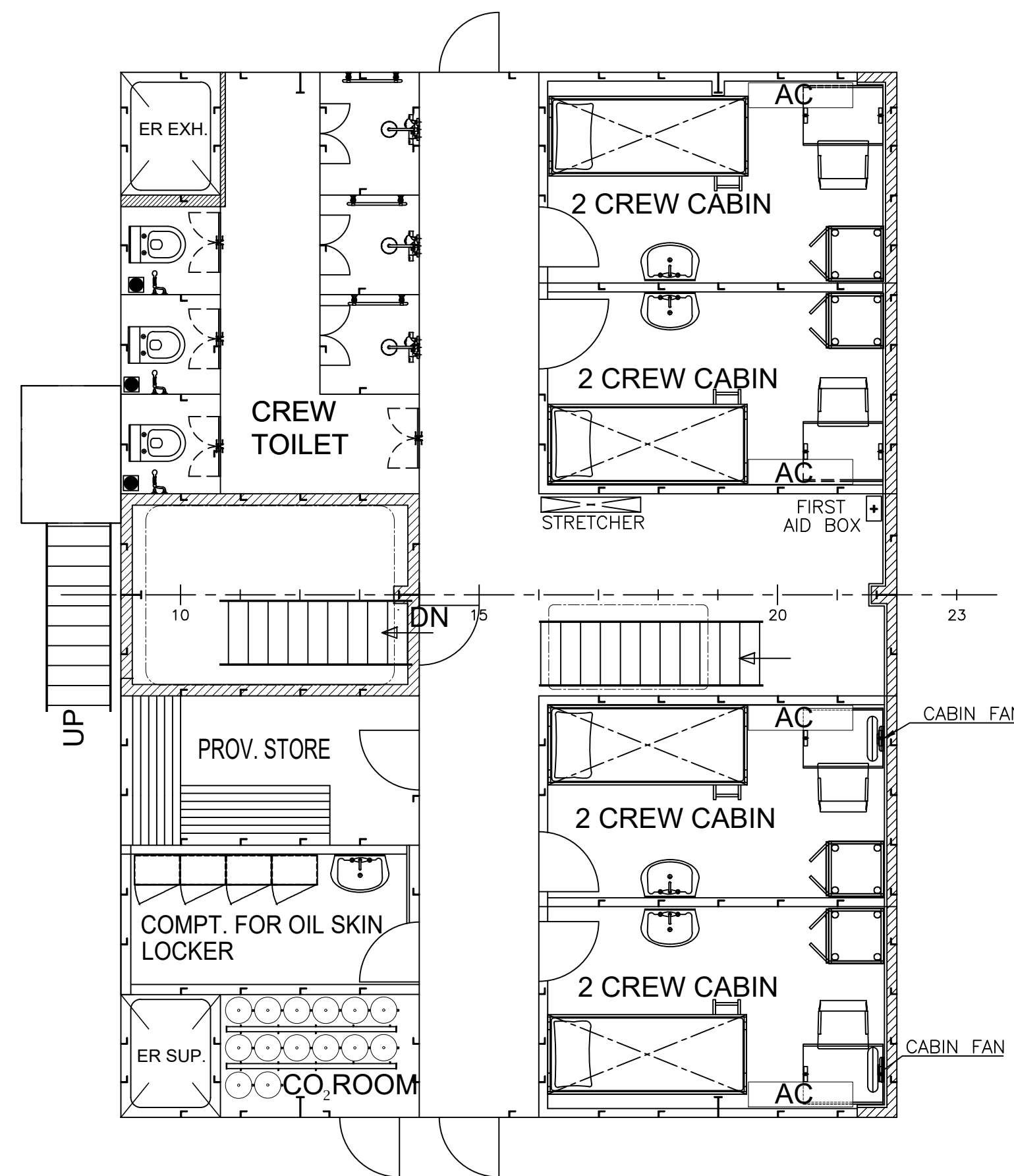
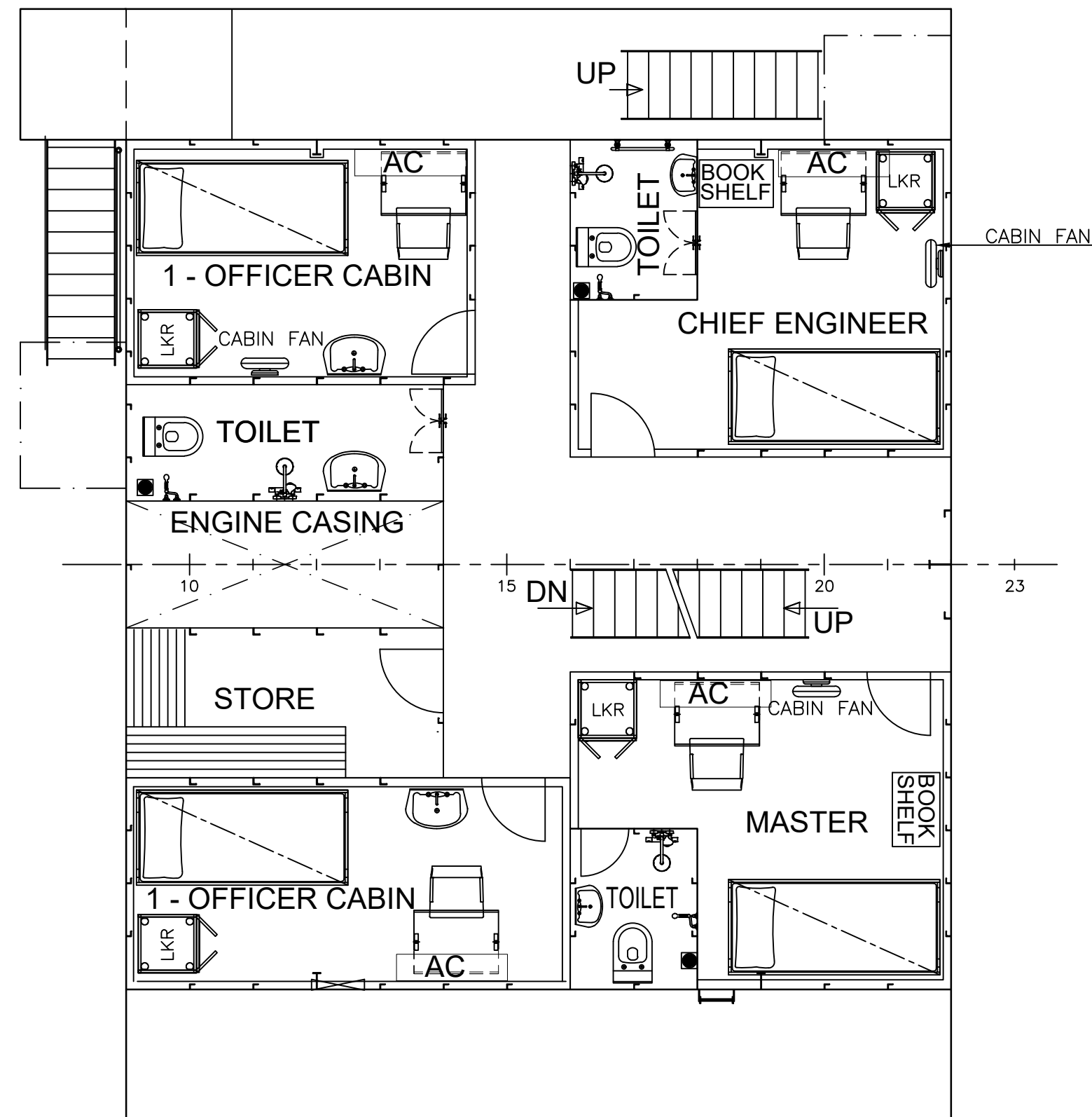
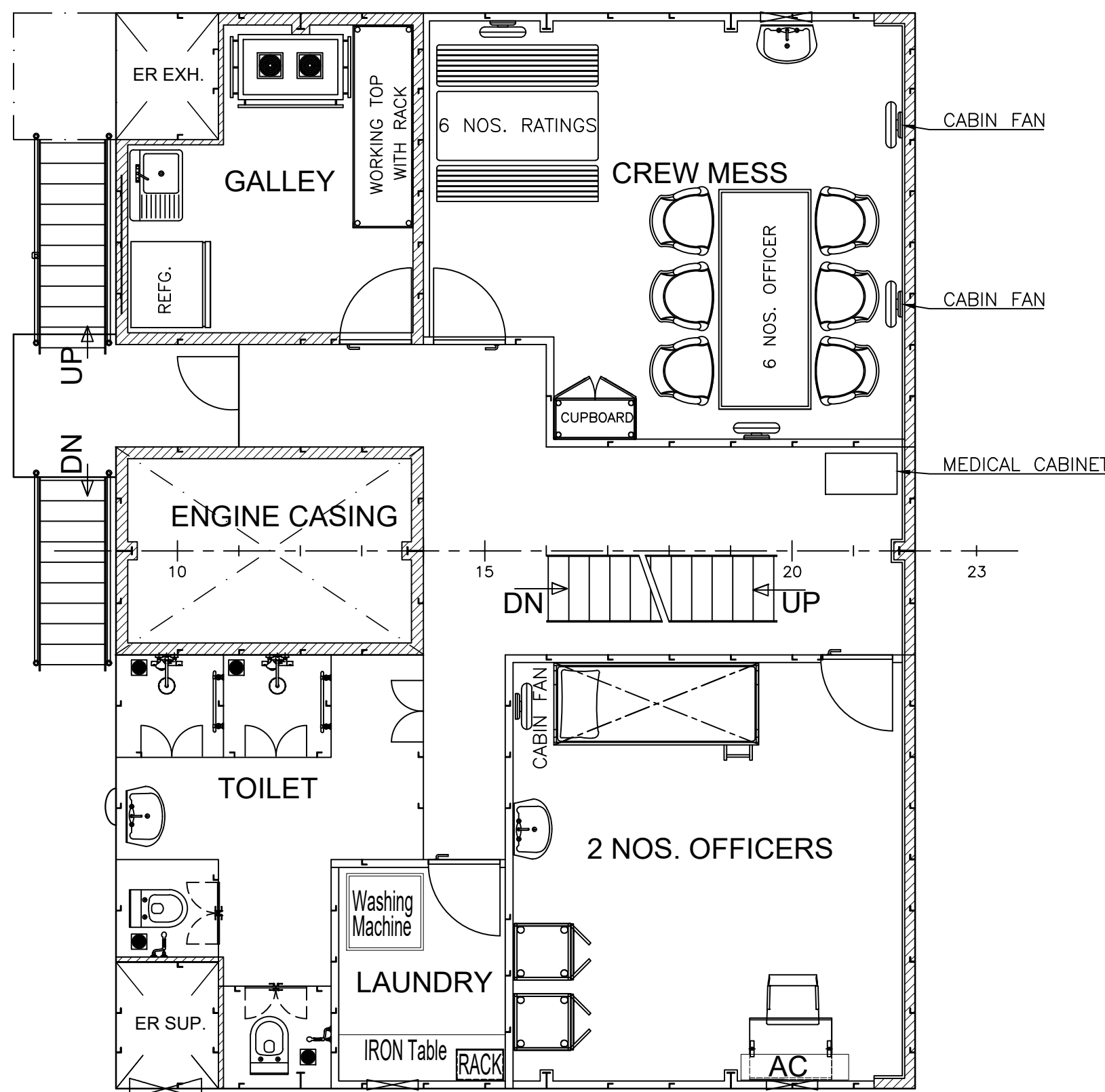
SEE LETTER E-212942-369479



PLAN(S) NOW SENT SUPERSEDE THE
APPROPRIATE PLAN(S) PREVIOUSLY
APPROVED/NOTED ON 31-Jan-24

C	MODIFIED FOR CLASS NOTATION CHANGED FROM RSV TYPE IV TO MS CLASS-IX	PB	PM	25.09.25
B	SEAT FOR TRANSFORMER BANK RELOCATED	SP	PM	28.03.24
A	TRANSFORMER BANK AND PUMP STARTER SEAT INCORPORATED	SP	PM	19.03.2024
REV	MODIFICATION	BY	CHK'D	DATE
PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL				
TITLE ENGINE ROOM EQUIPMENT LAYOUT				
DRAWN BY :	KDG	DRG NO :	P008/206	SCALE : NTS
CHECKED BY :	JR	SHEET :	01	SIZE : A0
		DATE :	28/07/2023	REV. : C
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BUILDER HOOGLY COCHIN SHIPYARD LIMITED				004/22004
DESIGNER Maritcons Private Limited				
TEL : (+91)9007227123 webmail.maritcons.com				

Annexure-05
Accommodation Plan (For Galley & Toilet)



- NOTES:-
- WHERE THE PARTITIONS / BULKHEADS WITHIN ACCOMMODATION SPACES ARE NOT CONSTRUCTED OF STEEL THEN THE PANELLING AND CEILING SHALL BE OF A NON-COMBUSTIBLE MATERIAL OF APPROVED QUALITY
 - ANY INSIDE PANELLING IN THE CREW ACCOMMODATION SHALL BE CONSTRUCTED OF SUITABLE MATERIAL WITH A SURFACE WHICH CAN BE EASILY KEPT CLEAN
 - NEITHER BULKHEADS NOR INSIDE OF PANELLING SHALL BE CONSTRUCTED WITH TONGUED AND GROOVED BOARDING OR IN A MANNER OR WITH MATERIAL LIKELY TO HARBOUR VERMIN
 - THE FLOOR IN THE CREW ACCOMMODATION SHALL HAVE A SURFACE WHICH PROVIDES A GOOD FOOTHOLD AND IS CAPABLE OF BEING EASILY KEPT CLEAN
 - LOWER BED IN DOUBLE TIER BED TO BE 300 MM ABOVE FLOOR. UPPER BED IN DOUBLE TIER BED TO BE 765 MM BELOW THE CEILING. SINGLE TIER BEDS TO BE 425 MM ABOVE FLOOR
 - ALL EXTERNAL DOORS TO ACCOM FROM OUTSIDE TO BE FITTED WITH MOSQUITO NETS (EXCEPT DOOR FOR CO2 ROOM).
 - ALL TABLES, LOCKERS AND UN-UPHOLSTERED PARTS OF CHAIRS AND SETTEES IN THE MESS ROOM SHALL BE MADE OF HARDWOOD, RUSTPROOF METAL OR OTHER SMOOTH AND IMPERVIOUS MATERIAL NOT LIKELY TO CRACK, WARP OR BECOME CORRODED
 - ALL FURNITURE IN MESS ROOM SHALL BE SO MADE AS NOT TO BE LIKELY TO HARBOUR VERMIN
 - FOR ALL CABINS, GALLEY AND TOILETS THERE ARE SUFFICIENT NUMBER OF WINDOWS AND SCUTTLES ARE PROVIDED. (ARRANGEMENT OF WINDOWS AND SCUTTLES WILL BE SHOWN IN SEPERATE DRAWING)
 - FOR ALL CABINS AIR CONDITIONERS (SPLIT TYPE) AND FOR MESS ROOM CABIN FANS (WALL MOUNTED) ARE PROVIDED. FOR GALLEY AND TOILETS ADEQUATE EXHAUST SYSTEMS ARE PROVIDED.
 - ADEQUATE LIGHTING IS PROVIDED IN ALL ACCOMMODATION AREAS
 - ADEQUATE VENTILATION & AIR CONDITIONING ARRANGEMENTS ARE PROVIDED

MANNING REQUIREMENT

DECK SIDE				ENGINE SIDE			
TYPE 4 RSV ENGAGED IN UNRESTRICTED COASTAL OPERATIONS (1600 < GT < 3000)				TYPE 4 RSV ENGAGED IN COASTAL OPERATIONS (1500 < KW < 3000)			
CAPACITY	MINM. GRADE / EXP.	NOS.	PROVIDED	CAPACITY	MINM. GRADE / EXP.	NOS.	PROVIDED
MASTER	(NCV)	01	01	CH. ENGR.	MEO CI III (NCV-CEO)	01	01
CH. OFFICER	MATE (NCV)	01	01	2ND ENGR.	MEO CI III (NCV-SEO)	01	01
OFFICER	NWKO (NCV)	01	01	3RD ENGR.	MEO CI IV (NCV) PART A	01	01
DG DSS OPERATOR	-	01	01	MOTORMAN	RATING FORMING PART OF E/R WATCH	01	01
AB SEAMAN	RATING FORMING PART OF NAVIGATION WATCH	02	02	OILMAN	GP RATING	01	01
OS	GP RATING	01	01				
COOK	BASIC STCW COURSES	01	01				

SPACE	AREA	ITEM	QTY	SIZE/SPECS	REMARKS
MASTER / CH. ENGR. ROOM	10.80 SQM. EACH	BED WITH MATTRESS	2	2000X900	
		LOCKER	2	550X550X1750H	IN TWO VERTICAL PARTS
		TABLE	2	800X600X720H	OFFICE TABLE (WITH 1 NO. DRAWER)
		CHAIR	2	STANDARD SIZE	
		MIRROR	2	STANDARD SIZE	
		BOOK RACK	2	700X450X450	WALL MOUNTED
		CLOCK	2	STANDARD	
		AIR CONDITIONER	2	1 TON	SPLIT TYPE, STANDARD SIZE
		CABIN FAN	1	STANDARD	
2 CREW ROOM (4 NOS ROOM)	7.62 SQM. EACH	BED WITH MATTRESS	8	2000X800	IN DOUBLE TIER
		2 IN LOCKER LOCKER	4	550X550X1750H	IN TWO VERTICAL PARTS
		TABLE	4	800X600X720H	OFFICE TABLE (WITH 1 NO. DRAWER)
		CHAIR	4	STANDARD SIZE	
		MIRROR	4	STANDARD SIZE	
		CLOCK	4	STANDARD	
		AIR CONDITIONER	4	1 TON	SPLIT TYPE, STANDARD SIZE
		WASH BASIN	4	STANDARD	
		CABIN FAN	4	STANDARD	
2 -OFFICERS CABIN (1 NO)	16.94 SQM.	BED WITH MATTRESS	2	2000X800	IN DOUBLE TIER
		LOCKER	2	550X550X1750H	IN TWO VERTICAL PARTS
		TABLE	1	800X600X720H	OFFICE TABLE (WITH 1 NO. DRAWER)
		CHAIR	1	STANDARD SIZE	
		MIRROR	1	STANDARD SIZE	
		CLOCK	1	STANDARD	
		AIR CONDITIONER	1	1.5 TON	SPLIT TYPE, STANDARD SIZE
		WASH BASIN	1	STANDARD	
		CABIN FAN	1	STANDARD	
1-OFFICERS CABIN (2 NOS) (P&S)	7.6 SQM.(P) 8.4 SQM.(S)	BED WITH MATTRESS	2	2000X800	
		LOCKER	2	550X550X1750	IN TWO VERTICAL PARTS
		MIRROR	2	STANDARD SIZE	
		CLOCK	2	STANDARD	
		AIR CONDITIONER	2	1 TON	SPLIT TYPE, STANDARD SIZE
		WASH BASIN	2	STANDARD	
		AIR CONDITION	2	STANDARD	
		CABIN FAN	1	STANDARD	
LAUNDRY	3.79 SQM.	WASHING MACHINE	1	STANDARD SIZE	
		TABLE	1	1625X450X600	
CREW MESS	19.12 SQM.	RACK	1	STANDARD SIZE	
		DINING TABLE (FOR OFFICERS)	1	2100X900X780H	1 TABLE, 6 SEATER FOR OFFICERS
		CHAIR	6	STANDARD SIZE	
		DINING TABLE (FOR RATINGS)	1	1500X700X780H	1 TABLE, 6 SEATER FOR CREW
		BENCH	2	1500X400X420H	
		CUPBOARD FOR UTENSILS	1	750X450X1750H	INSIDE TO INSIDE, 4 RACKS INSIDE
		WASH BASIN, WITH TAP	1	STANDARD SIZE	
		CABIN FAN	4	350 MM DIA	
		HOT PLATE	1	1000X650 TOP	2 BURNER SIZE
		WORKING TOP WITH RACK	1	2000X600 TOP	WITH DRAWERS
GALLEY	8.4 SQM.	REFRIGERATOR	1	580 L	
		SINK WITH TAP	1	STANDARD SIZE	
PASSAGEWAY 1ST TIER	14.3 SQM.	MEDICAL CABINET	1	700X400X600	WALL MOUNTED
PASSAGEWAY MAIN DECK	19.9 SQM.	STRETCHER	1	700X400X600	SECURED TO THE BULKHEAD WITH BKTS.
		FIRST AID BOX	1	STANDARD SIZE	WALL MOUNTED
COMPT. FOR OIL SKIN LOCKER MAIN DECK	8.5 SQM.	OILY SKIN LOCKER	4	STANDARD SIZE	
		WASH BASIN	1	STANDARD	
PROV. STORES MAIN DECK	4.5 SQM.	RACKS	1	AS SHOWN IN DRG.	IN 2 TIERS
STORE 2ND DECK	4.2 SQM.	RACKS	1	AS SHOWN IN DRG.	IN 2 TIERS

CLASS NOTATION:

5S SUL "EQUIPPED FOR CARRIAGE OF CONTAINERS",
5S IY
DESCRIPTION: GENERAL CARGO SHIP

SHIP NAME/YARD NO.:	JAK EXPRESS - 004/2204
IMO NO.:	1015777
CALL SIGN/OFFICIAL NO.:	VTUU/4910
PORT OF REGISTRY:	KOLKATA
DATE OF KEEL LAYING:	03.03.2023

VESSEL DETAILS

TYPE OF VESSEL	GENERAL CARGO VESSEL
APPLICABLE RULES	MS CLASS-IX
CLASS	IRS
LENGTH OF VESSEL	78.00 M
GROSS TONNAGE	2223 (APPROX)
NET TONNAGE	706 (APPROX)
COMPLEMENT	MASTER & CH. ENGINEER 04 NOS. OTHER OFFICERS 08 NOS. CREW

B	MODIFIED FOR CLASS NOTATION CHANGED FROM RSV TYPE - IV TO MS CLASS - IX	SP	PM	22.10.2025
A	CLASS COMMENTS INCORPORATED	SC	PM	09.11.2023
REV	MODIFICATION	BY	CHK'D	DATE

PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL

TITLE CREW ACCOMODATION PLAN

DRAWN BY : SC	DRG NO : P008/207	SCALE : 1 : 50
CHECKED BY : PM	SHEET : 01	SIZE : A1
	DATE : 09/11/2023	REV. : B

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