



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



वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE

Notice Inviting Tender

Tender enquiry notice - Erection, installation & commissioning of various ship systems

Sealed competitive tenders are invited on behalf of Hooghly Cochin Shipyard Limited (HCSL) 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/OPS/SB/TEN/024/2024-25 dated 21.06.2024
Scope of work	Erection, installation & commissioning of various ship systems onboard 2200T Multi-Purpose Vessel for Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah. (Detailed specification is enclosed separately)
Type of Tender	Two Bid
Cost of tender form	Nil
Earnest Money Deposit (EMD)	Rs. 1,00,000 /- (1 Lakh)
Last date & time of receipt of tender	02.07.2024 at 1500 Hrs.
Date & time of opening of technical bid	02.07.2024 at 1530 Hrs.
Tenure of contract	Within 120 Days (from the date of acceptance of Purchase Order).
Officer - in - Charge (tender)	Name: Johnson Grandage Designation: Deputy Manager (Mechanical) Email: johnson.g@hooghlycsl.com Phone No: +91 9562266770 Name: Samrat Basu (Project Manager) Designation: Senior Manager (Mechanical) Email: samrat.basu@hooghlycsl.com Phone No: +91 9094362621

Tender reference number highlighting due date & time of submission of tender should be clearly indicated on top of the respective envelopes.

Sealed tenders in two cover system (Pre-qualification cum technical and price bid) addressed to The AGM (P&P) shall be dropped in the HCSL tender box or courier to Hooghly Cochin Shipyard Ltd (HCSL), Satyen Bose Road, Danesh Sk Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109 to reach us on or before the due date and time. E-Mail quotations are also acceptable.



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

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

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

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

Officer - in - Charge for the above work:

Name: Johnson Grandage
Designation: Deputy Manager
Email: johnson.g@hooghlycsl.com
Phone No: +91 9562266770

Name: Samrat Basu
Designation: Senior Manager (Project Manager)
Email: samrat.basu@hooghlycsl.com
Phone No: +91 9094362621



For Hooghly Cochin Shipyard Limited

Johnson Grandage
DM (Mech)

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For Hooghly Cochin Shipyard Limited

Signature and Seal of the Bidder(s)

[Handwritten Signature]
D.M. (mech)



হাওড়া-০৯
Howrah-09
Hooghly Cochin Shipyard Limited

Instruction to bidders and pre-qualification criteria

Erection, installation & commissioning of various ship systems onboard 2200T Multi-Purpose Vessel for Hooghly Cochin Shipyard Limited

1. Sealed / password protected tenders in two cover system in the prescribed form are invited from experienced contractors for the work specified above, subject to the terms and conditions as mentioned in the annexures of this tender enquiry, so as to reach the address by post/email as below mentioned on or before the date and time as stipulated:

2. The tenders are to be submitted in two bid system; The following shall be submitted along with the quote:

Offline mode: Tenders (Part I & Part II) should be submitted in separately sealed covers superscribing & tender enquiry number and clearly indicating which part it contains therein, and both the sealed part I & II bids shall be enclosed in a sealed cover superscribing the tender enquiry number and due date of submission to reach the below mentioned address before the stipulated time.

To

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

Online mode: Tenders can be submitted by E-Mail also (Submission in both modes will leads to rejection of offer)

Tender reference should be clearly indicated on the subject of the E-Mail.

Tenders should be submitted in two separate files as PART-I "TECHNO-COMMERCIAL" & PART-II "PRICE-BID" (Password protected) indicating the tender number, due date of the tender and subject as in-line with the scope of work as per this tender. in the Mail addressed to:

johnson.g@hooghlycsl.com / bichin.jose@cochinshipyard.in

The Bids shall be received at Hooghly Cochin Shipyard Ltd on or before 15.00 Hrs before the due date & Part-1 Techno-Commercial bid will be opened at 15.30 Hrs on the same day. (Bidders are not allowed during opening of Technical bid)

a) Part I (Techno-commercial) Bid: -

i) Original tender document **duly sealed & signed on all pages** - including terms & conditions of enquiry, general conditions, technical specification and drawings and corrigendum, if any. HCSL takes no responsibility for delay, loss, or non-receipt of tender sent by post / email.

ii) The techno commercial check list at **Annexure-5 filled up completely and duly signed**. The non-submission of duly filled techno commercial checklist will lead to the rejection of the bid.

iii) Copy of **un-priced bid** format (price bid WITHOUT prices/numerals) mentioned as “Quoted” in all cells as applicable.

iv) List of **deviations/exclusions** from the tender enquiry terms and conditions in Annexure-9 **(if any)**. **If no deviations the same to be mentioned as “NIL”**.

b) Part II : Price Bid. The price bids shall be prepared based on the price bid format at Annexure-6.

v. Only technically qualified bids will be considered for price bid opening. After evaluating the bids for both technical aspects and commercial terms, the techno-commercially qualified bidders will be intimated regarding the date and time of opening of Part II - Price Bid. Intimation will be through email or telephone or both. Qualified bidders or their authorised representatives are permitted to attend the opening of price bid (Online or offline). Merely opening of Techno-Commercial bid cannot be construed as acceptance of offer for awarding of contract.

vi. Subject to travel restrictions, the bidders can attend the price bid opening physically at Hooghly Cochin Shipyard Limited, Nazirgunge, Howrah, West Bengal.

3. Overwriting & Corrections

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

4. Pre-Qualification criteria for vendors

4.1. **The Bidder shall be a single firm having experience in various onboard machinery system erection, installation & commissioning (like Main engine/ Auxiliary engine) and Propulsion system (Propeller/rudder installation, shafting & commissioning) in ship building.**

4.2. **Vendor should submit the details of work for preceding 03 years, FY (2021-22, 2022-23, 2023-24) of similar nature with at least ONE order of value 48 lakhs or TWO order of value 30 lakhs each and THREE order for 24 Lakhs each in past 3 years.**

4.3. **The technical experience means the experience as per clause 4.1 above for a period of 3 years. Experience within the past 3 years ending last day of month previous to one in which applications are only considered.**

4.4. **The Bidder should furnish the required work-specific information and satisfactory documentary evidence such as copy of work order / agreement and a certificate from the employer for satisfactory completion of work along with the GST Invoice or any other**

relevant document indicating completion of work (as applicable) shall be submitted to HCSL in support of its claim of experience.

- 4.5. The firm has to submit the documents which validate the above-mentioned Clause 4.1 - 4.4 requirements.
- 4.6. The executed project shall comprise of complete work having comparable nature to that of machinery installation, shafting & commissioning including propulsion system. If the experience claimed by the bidder is of no relevance with respect to machinery installation, shafting & commissioning, then such experience will not be considered for pre-qualification. Decision taken by HCSL in this regard will be final.
- 4.7. Bidder shall not be under a declaration of ineligibility issued by Govt. of India/ State govt./ Public Sector Undertakings etc. The bidder shall not have been debarred / black listed by CSL/HCSL or by any of the Public Sector Undertaking or Government department etc.
- 4.8. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years, FY (2020-21, 2021-22, 2022-23) should be submitted along with the application for prequalification. **Net worth of the bidder must be positive as per the latest balance sheet. (MSE/NSIC may get exemptions as per prevailing Govt. norms).**
- 4.9. The average annual turnover of the bidder should be at least **Rs. 25 lakhs** during the last three preceding FY years (2020-21, 2021-22, 2022-23).
- 4.10. The Tenderer should enclose copy of statutory documents PAN, GST registration certificate, Income tax returns for last three FY (2020-21, 2021-22, 2022-23) or AY (2021-2022, 2022-2023, 2023-2024).

For Hooghly Cochin Shipyard Limited



Johny Kundage
Johny Kundage

Terms & conditions of enquiry

Erection, installation & commissioning of various ship systems onboard 2200T Multi-Purpose Vessel for Hooghly Cochin Shipyard Limited

2) Method of awarding contract

2.1. Contract will be concluded with bidder qualifying technically (including eligibility criteria), agreeing to commercial conditions and emerging as L1 as per Annexure- 6 of this tender document.

2.2. HCSL reserves the right to cancel the tender if required.

3) Work progress and schedule of completion

3.1 Work on this vessel is to progress simultaneously and is to be completed within 4 months from the issue of purchase order.

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

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

3.4 Detailed working schedule (weekly/monthly) etc. to be prepared and submitted to yard personnel in the request format (MS Project /MS Excel/ MS Word). However, a detailed overall schedule, in a reasonable manner should be submitted prior to commencement of work.

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

4) Inspection

4.1 The complete work has to be carried out under the survey of ship classification society / owner / HCSL.

5) Validity

5.1 The offer shall be valid for acceptance for a period of 90 days from the date of opening of the Part-I Techno-Commercial Bid.

6) Validity of contract

6.1 once the contract is awarded, the price offered and mutually agreed shall remain firm till completion of work and no escalation in labour, transportation cost etc. shall be allowed by HCSL on whatsoever reason thereafter.

7 Payment terms

7.1. Payment will be made in **6 stages**: (Below percentage is of total contracted value of vessel)

Stage I: **15 %** of total contracted value of vessel: Completion of **all the equipment installation including necessary fastening.**

Stage II: **25 %** of total contracted value of vessel: Completion of successful **launching of vessel.**

Stage III: **15%** of total contracted value of vessel: Successful **Completion of Basin trial of equipment- Main Engine-2 Nos, DG- 2 Nos and Emergency DG- 1 No.**

Stage IV: **15%** of total contracted value of vessel: Successful Completion of **Basin trial of Equipment-- All Other Auxiliary Equipment and Pumps**

Stage V: **20%** of total contracted value of vessel: Successful Completion of **Sea trial & closing of all class and owner's comments.**

Stage VI: **10%** of Total contracted value of vessel: Successful Delivery of vessel.

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

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

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

7.1.4. Payment will be made by RTGS/NEFT to the account of agency. The name of the bank, branch, A/C No., IFSC code & other particulars shall be furnished by the agency in the proforma of HCSL (Annexure-8).

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

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

7.1.7 Contractor shall indicate details such as PAN, GST. required for processing payment. Payments will be made through NEFT/RTGS/Cheque mode and necessary details shall be furnished by the contractor. HCSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.

7.2. Quantum of work indicated at Annexure-4 is final however additional works as per clause 8 of Annexure-2, also to be considered while quoting, actual quantum of work executed at site shall be considered for the payment purpose.

8) Additional works:

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

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

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

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

9). MSME/ NSIC benefits: (If and only if the certificate issued is in the relevant field)

A. The following benefits are extended for all the firms who are registered with district industries center and come under the category of **Micro and Small Enterprises** holding a valid Entrepreneurs Memorandum (EM) part ii certificate or Udyog Aadhaar Certificate. However, in order to avail the benefits as per public procurement policy for MSME's orders, 2012, all MSE bidders are required to declare their Udyog Aadhaar Memorandum (UAM) number in Central Public Procurement Portal (CPPP) compulsorily.

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

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

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

C. This tender shall be based on MSME order dated 23rd march 2012, pertaining to public procurement policy.

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

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

10) Security deposit:

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

be released after satisfactory completion of the contract ie completion of delivery of vessel and on certification of nil liability to HCSL by Officer-in charge.

11) Liquidated Damages:

11.1 The progress of work will be monitored against the mutually agreed detailed schedule. Liquidated damages for delays in execution of the work envisaged as per this order, for any reason other than force majeure conditions, will be recovered at the rate of half percent of the value of the contract per week or part thereof, subject to a maximum of ten (10) percent of the value of the contract.

12) Place of Work:

Hooghly Cochin Shipyard Limited

131/1, Satyen Bose Rd, Nazirganj,

Guabaria, Mourigram, Howrah- 711109, India.

13) Risk Purchase:

If the firm's performance is found not satisfactory with regard to the progress of work, quality, and time factor, labour dispute with their workers, poor safety record or the contractor fails to commence the work, in time as per the terms in work order or violate any other terms & conditions of work order, HCSL shall have the following rights.

- a) To terminate the contract within 15 days of notice.
- b) To initiate alternative arrangements at the risk and cost of the contractor.
- c) No claim whatsoever will be entertained in this regard from the firm

14) Force Majeure

14.1 Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by government, act of legislature or other statutory authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, HCSL may allow such additional time as is mutually agreed to be justified by the circumstances of the case. The occurrence/cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/cessation.

15) Arbitrations

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

15.2 If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty

days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties here to. The arbitration will be done by a Board comprising one officer nominated by each part, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

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

16 Labour Law & Regulations (Time to time amendments by Govt. to be strictly followed)

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

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

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

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

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

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

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

16.8 The Contractor shall be fully responsible for the conduct and discipline of the workmen employed by him in the Company premises. If such workmen commit any misconduct or criminal act inside the Company, the Contractor shall take appropriate action against such

workmen. The contractor shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.

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

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

16.9.2 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.)

16.10 Application and declaration for enrolling under employee's provident fund and ESI Scheme.

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

17) Safety of personnel and first aid

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

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

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

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

18) IMS Guidelines

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

18.1.1 Meeting or exceeding customer requirements.

18.1.2 Assuring quality of the products and service.

18.1.3. Preventing occupational ill health and injuries.

18.1.4 Ensuring safe work sites.

18.1.5 Conserving natural resources.

18.1.6 Preventing / minimizing air, water & land pollution.

18.1.7 Handling and disposal of Hazardous wastes safely.

18.1.8 Complying with statutory & regulatory and other requirements.

18.1.9 Developing skills and motivating employees.

18.2 Occupational Health, safety & Environmental requirements of HCSL shall also include the following.

18.2.1 The contractor (or a sub-contractor performing work on behalf of the contractor) is deemed to comply with the Occupational health, safety and environmental policy of the company and also to all operational controls/standard operating procedures and shall undertake the work in total compliance with the requirements of the established Integrated Management System (IMS) of the company.

18.2.2 The Contractor shall undertake the work in total compliance with all applicable legal/statutory requirements related to occupational health, safety and environment effective in the state of West Bengal.

18.2.3 It is the sole responsibility of the contractor to assure that any sub-contractor/s who shall perform works in company lands/facilities/worksites on behalf of the contractor, is also following all requirements related to the Integrated Management System of the company and the health/safety/environmental rules effective in the state.

18.2.4 The contractor shall provide/ implement and operate/ practice all occupational health, Safety and environmental management measures/facilities, for their period of contract, in their activities/at their work sites, which shall be required according to the IMS of the company that required by the health/safety/environmental rules established and effective in the state, at their own cost.

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

18.2.6 Upon completion of the work, contractor shall clear the area and shall not leave any Occupational health/safety/environmental liabilities to the company, from their activities at the worksites.

18.2.7 Any clarification related to IMS requirements of the yard, may be obtained by the contractor from the Officer in Charge of QC or the authorized representative of the contract, prior to the commencement of work.

19) Electricity Rules & Regulation

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

20) Secrecy clause

20.1 The CONTRACTOR shall be responsible to ensure that all persons employed by them in the execution of any work in connection with this contract are aware of the provisions of the official secrets act 1923 and to comply with the same. The CONTRACTOR shall also ensure secrecy of design, construction, equipment and completion of the vessel. Any information provided to you under this contract is to be treated as strictly confidential and is not to be disclosed to any person or persons not concerned therewith

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

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

21) Indemnity

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

“HCSL reserve the right to reject any offer.”

For Hooghly Cochin Shipyard



*Don (mzee)
Johnson Grandage*

AGM (P&P)

General Terms & Conditions

- 1) The contractor must have a dedicated site-in charge/ supervisor to execute work, with a minimum experience of 3 yrs. in similar works.
- 2) The Contractor shall have to engage men on round the clock basis and also on Sundays and holidays, if required. Work has to be completed to the satisfaction of Hooghly Cochin Shipyard Engineers deputed for the job. The job should be completed at the time specified by the supervising Engineer for each stage of work.
- 3) The upper age limit of all workers and supervisors employed by the contractor and those contractors who do or supervise the job themselves shall be as per the prevailing rules of HCSL.
- 4) The work will be undertaken by only qualified welders of the contractor. Towards this, HCSL will provide the WPS and PQR. Welders will have to be qualified by Class by HCSL. The subcontractor must pay for the welder qualification, testing and certification charges to HCSL on actuals. The contractor must retain the qualified welders till the completion of the project.
- 5) Work will be undertaken and inspected as per the quality standards provided by HCSL, and approved by CLASS and Owner of the vessels.
- 6) Area and steel skids will be provided by HCSL, leveling of the skid will be undertaken by contractor to the satisfaction of HCSL QC. Required production aids shall be arranged by Contractors.
- 7) The contractor shall arrange to collect and clean up every day all waste, scraps, debris, etc. generated by the work men while working onboard the vessel and other locations and dispose the same suitably at his cost to the full satisfaction of HCSL. In case any failure on his part to comply with this requirement, HCSL will arrange the required cleaning entirely at the contractor's cost.
- 8) Assistant General Manager (P&P) or his authorized representative will be the Officer-in-charge of this Contract.
- 9) Material supplied by HCSL may not be in the required size and shape. These may be cut and prepared after proper nesting by the Contractor. Special care to be taken to reduce wastages. Shortage of any material (supplied by HCSL) arising out of excess wastages due to improper planning shall have to be made up by Contractor free of cost.
- 10) The contractor shall be responsible for any damage caused to the material supplied by HCSL. Compensation with penalty for damage or loss of the item will be recovered from the Contractor, in the event of loss or damage.
- 11) Any particulars/literature/information/certificates required by the Shipyard in connection with the work is to be forwarded free of cost.
- 12) All correspondence with the Shipyard to be in English language. All documents and plans to be in English language and in metric units.
- 13) Providing all personnel protective items like safety helmets, gloves, welding shields, goggles, leg guards, safety belts, boiler suit, safety shoes, safety belt etc. to their employees.



Jw
Om (mech)

For Hooghly Cochin Shipyard

AGM (P&P)

Technical specification for erection, installation, & commissioning of various ship systems onboard 2200T MPV

1. Introduction

Hooghly Cochin shipyard ltd (yard) is constructing 2200T Multi-Purpose Vessel (MPV) for private logistic company. HCSL intends to outsource the machinery works of above vessels as detailed below to competent subcontractors.

2. Vessel details

i. Yard Nos. 004/22004

ii. Main Particulars of vessel

Length overall - 78 Meter

Breadth molded- 16 meter

Scantling draft- 3.60 meter

3. Classification society

Class: IRS

Class Notation: ⚡ SUL, Indian River Sea Vessel -Type 4, Equipped for carriage of containers,

⚡ IY General cargo vessel.

4. Scope of work

Erection, Installation & Commissioning of various ship systems onboard 2200T, MPV

4.1. The machinery works, including all hot work, machinery installation, function test, load test, commissioning and sea trial necessary to satisfactorily complete the work in accordance with HCSL, Classification Society and Owners requirements.

4.1 Scope of Yard (HCSL)

1. Supply of drawing and materials/equipment for machinery works for the mentioned scope of work.
2. Supply of welding consumables and ceramic backing strip.
3. Power supply, drinking water & compressed air (at available pressure) at centralized points.
4. Services of cranes, and forklifts (at available capacity) will be provided subject to availability.
5. Required space for fabrication, storage and working site inside the yard & vessel
6. Scaffolding inside & outside the vessel as per request.

4.2. Work Procedure: Necessary work instructions, drawings, equipment manuals etc, for the work will be issued by HCSL

1. Contractor is to carry out the work as per the specifications / drawings supplied, and to the satisfaction of HCSL/ Owner/ Class.
2. Contractor should maintain the quality as per HCSL yard quality procedures / standards, and shipbuilding standards. Inspection will be carried out during every stage of work by HCSL/Owner/Class as required.

4.3. The Scope of the Contractor:

1. Major equipment foundation, support fabrication fitment and welding **will be provided by HCSL.**
2. Minor equipment foundation, support fabrication, fitment and welding **to be done (by machinery vendor) as per requirement.**
3. Material / Equipment collection and movement from yard store to storage location and vessel.
4. Rigging, leading, lowering, erection, installation and positioning of equipment/ machinery items.
5. Fitment and removal of temporary lifting lugs/hooks required for the movement and rigging of the equipment. And all permanent lifting lugs fitment, welding & dry survey.
6. Surface preparation, blue matching, drilling, tapping and torquing fitment of equipment/machinery items as per drawing requirement.
7. All the necessary tools, tackles & equipment required for the installation, fitment and commissioning of equipment and machinery onboard.
8. Installation, alignment and fixing of equipment/machinery items as per approved drawing/ Procedures /Manuals.
9. Set to work, commissioning/commissioning assistance as per the yard requirement for the various equipment/ machinery items along with alignment reports.
10. Ensure satisfactory completion of works in accordance with the requirements of HCSL, Classification Society and the Owner requirements as per approved procedures along with reports.
11. Removal and fitment of necessary equipment parts for installation purpose.
12. Instrumentation work including fitment of pressure gauge, pressure transmitter, temperature gauge & other items and its PT tubing as per the requirement.
13. Welding monitoring of propulsion equipment as per the requirement.
14. Rescue boat and davit installation, commissioning and load test as per protocol.
15. Removal of all protection covers and thorough cleaning of equipment prior to installation/ commissioning or as instructed by HCSL.
16. Material for protection and preservation of the machinery after installation onboard as per HCSL requirement.
17. Equipment covering and protection until the delivery of the vessel. Prior to initial start of equipment, cleaning & housekeeping of same to be done.

18. Assistance for fuel oil, lube oil and water filling as per requirement.
19. Assistance for basin trial, sea trial as per approved inspection protocol
20. Maintaining the required dimension at accuracy and other standards as per HCSL Quality Standards.
21. Ensuring best HSE practices at site during the construction of vessel, commissioning, basin trials and sea trials which includes mandatory work permits/certifications/approvals in accordance with the prevailing guidelines in HCSL.
22. Work execution should be carried out by qualified workmen having prior experience handling the same nature of scope.
- 23. All HT foundation bolts, nuts (8.8 Grade) & washers, required copper shims**
24. Chock fastening of various machinery/equipment as per requirement.
25. Manpower assistance required to undertake commissioning & trials of machineries or any equipment operations onboard as per requirement of OEM representative /Owner/Class till delivery of the vessel.
26. Initial sighting and shafting for Main Engine, Gear Box, Stern Tube and Rudder, Rudder Trunk
27. The Shafting and alignment work including shaft alignment will be carried out as per shafting and alignment procedure and parameters under the HCSL guidelines. readings to be provided in formal reports.
28. Jigs and fixtures fabrication as per the alignment requirement.
29. Necessary tools required for the shaft sighting.
30. Removal and fitment of necessary equipment parts for installation purpose.
31. Surface preparation, drilling, tapping, torquing and fitment and its accessories as per approved drawing provided by OEM/HCSL.
32. Hull opening during insertion of stern tube, A-Bkt arm, rudder trunk.
33. Alignment, fitment & welding of "A" Bracket with hull structure, Fwd & Aft Boss, welding of stern tube closing plate for both port & stbd as per drawing and carry out inspection with QC & assisting in preparing quality inspection & alignment report.
34. Alignment & chock fastening of stern tube bosses (Fwd & Aft), Main Engine, Gear box as per requirement. Chock fastening material with class certificate to be supplied by vendor.
35. Main engine coupling with gear box and gear box with propeller shaft & insertion of propeller shaft in Stern tube.
36. Torque tightening of foundation bolt of ME and gear box including torque wrench of necessary capacity.
37. Fabrication, drilling, reaming and machining of foundation ME foundation bolt, fit bolt and machining of foundation bracket of main engine and gear box (if required). (Raw material supplied by yard)

38. Supply and installation of fit bolt and loose bolt with nut for main engine and gear box foundation as per the Class requirement (after reaming of foundation hole) with the Class certificate.
39. Supply and installation of fit bolt with nut and locking arrangement for gear box output shaft flange and tail shaft coupling as per class requirement (after reaming of coupling hole)
40. Fitment and installation of Fwd and Aft bush and its accessories for stern gear system.
41. Installation of propeller (FPP) and its accessories with tail shaft including installation of Aft & Fwd seals.
42. Fitment and installation of upper and lower bush and its accessories for rudder and rudder stock assembly including machining & supply of dry ice.
43. Welding, dry survey and installation of actuator foundation as per drawing.
44. Fabrication, welding and dry survey of hydraulic power pack foundation.
45. Fabrication, welding and dry survey of rudder stopper.
46. Assistance for installation of wood for rudder stopper. (if required)
47. Securing of major and minor equipment including propeller shaft and rudder stock during launching of the vessel. Assist in rudder angle test.
48. Hose testing/ leak testing of all completed underwater jobs.
49. Machining and bedding of rudder stock with tiller arm.
50. Joining of anchor chain, installation and lowering of anchor with anchor chain along with consumables for joining the shackles.
51. Remote operation for quick closing valve arrangement and same to be shown to the Class/ Owner including supply of material (only MS plate and MS angle supply by yard –if required)
52. Assistance for actuator push up on rudder stock (Wet & dry push ups), damming and chock fastening for above mentioned equipment.
53. Area and steel skids will be provided by HCSL, levelling of the skid will be undertaken by contractor to the satisfaction of HCSL QC. Required production aids shall be arranged by Contractors.
54. Chock fast calculation to be provided
55. Inspection, testing of chock fast material (Sample test) shall be done as per Class rules

4.4 REFERENCE DRAWINGS:

1. General arrangement
2. Engine room arrangement
3. Windlass arrangement
4. Rudder assembly
5. Propeller drawing
6. Propeller shafting arrangement details
7. Shaft "A" bracket details
8. Quick closing valve arrangement

5. List of Equipment

EQUIPMENT LIST OF 2200T MULTI PURPOSE VESSEL

S#	Name of Machinery or Equipment	Classification	Specifications	Location	Qty	Approx. Weight (Kg) Per Unit
Set-1	Propulsion system					
1	Main Engine (Dry Weight)	Propulsion and steering gear system	<ul style="list-style-type: none"> • BHP 850 @ 1800 RPM • Dimensions 2550X1600X2000 	Engine Room	2	4538 (±5%)
2	Gear Box	Propulsion and steering gear system	<ul style="list-style-type: none"> • 2X597 KW • Ratio 3.9:1 	Engine Room	2	1030 (±5%)
3	Steering Gear	Propulsion and steering gear system	<ul style="list-style-type: none"> • 2X11 KG N (Maximum torque) 	Steering Gear Room	2	2000
4	Rudder & Rudder Stock with accessories	Propulsion and steering gear system	<ul style="list-style-type: none"> • ø148mm • Bottom plated rudder blade • 2100 L X1600 W Rudder trunk + Rudder strock + Lower hydraulic nut+ clamping ring/locking sleeve + rudder carrier bearing and other accessories 	Stern Gear Area	2	Above 4500
5	Stern Tube with Fwd Bush and Aft Bush	Propulsion and steering gear system	<ul style="list-style-type: none"> • ø219mm OD & 1600 L • FWD bush stern tube 	Stern Gear Area	2	
6	Propellers	Propulsion and steering gear system	<ul style="list-style-type: none"> • FPP Type • ø1700 mm • Blade -4 No's. 	Stern Gear Area	2	
7	A-Bracket	Propulsion and steering gear system	U.T to be shown to Surveyor - 60mmThick	Stern Gear Area	2	

S#	Name of Machinery or Equipment	Classification	Specifications	Location	Qty	Approx. Weight (Kg) Per Unit
Set-2.	Deck Machinery					
8	Windlass & Chain Stopper	Deck Machinery	<ul style="list-style-type: none"> • Anchor winch with double gypsy • Double rapping drum • Electrical motor driven 	Fore Peak Deck	1+2	1200
9	Anchor	Deck Machinery	High Holding Power stockless anchor	Fore Peak Deck	2	1500
10	Anchor Chain	Deck Machinery	<ul style="list-style-type: none"> • ø38mm • CC2 Grade • Length (both sides) 440 Mtr 	Fore Peak Deck	2	6700
11	Boat & Davit	Deck Machinery	<ul style="list-style-type: none"> • SWL-1T • Hook @3.5 M for MOB & for crane • Boat 250 Kg 	Main Deck	1	2000

S#	Name of Machinery or Equipment	Classification	Specifications	Location	Qty	Approx. Weight (Kg) Per Unit
Set-3	Below Deck Machinery					
12	Bilge / Ballast Pump	Below Main Deck	<ul style="list-style-type: none"> • 52 Mtr Cu /Hr @ 3000 RPM • 40 MWC • Execution: Centrifugal Pump 	Engine Room	2	255 (±10%)
13	Emergency Fire Pump	Below Main Deck	<ul style="list-style-type: none"> • 25 Mtr Cu/Hr @ 3000 RPM • 50 MWC • Execution: Centrifugal Pump 	Void Space	1	210 (±10%)
14	Fire Pump	Below Main Deck	<ul style="list-style-type: none"> • 25 Mtr Cu/Hr @ 3000• 60 MWC• Execution: Centrifugal Pump 	Engine Room	1	255 (±10%)
15	OWS (Empty / Operation)	Below Main Deck	<ul style="list-style-type: none"> • Capacity -05 Mtr Cu/hr • 2-15 PPM • Start: Manual; Stop: Automatic 	Engine Room	1	157/215
16	STP (Dry Weight) with Grease Trap	Below Main Deck	<ul style="list-style-type: none"> • HYD Load :2.10 mtr Cu /day • Organic Load :1.05 Kg/day • 860L X 1344W X 2000 H 	Engine Room	1+1	820 ±10%
17	Main DG Set	Below Main Deck	<ul style="list-style-type: none"> • 2 X 100 KVA • Water Cooled • 1500 RPM ; 415 V • Battery Started • 1850 X 900 X 1200 	Engine Room	2	1250 ±50

18	Emergency DG Set	Below Main Deck	<ul style="list-style-type: none"> • 1 X 50 KVA • Air Cooled • 1500 RPM ; 415 V • Battery Started • 1850 X 900 X 1200 	Emergency DG Room	1	1250 ±50
19	Fuel Oil Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 1450 RPM • 50 MWC • Execution: Gear Pump 	Engine Room	1	100(±10%)
20	Fresh Water Pump	Below Main Deck	<ul style="list-style-type: none"> • 1.5 Mtr Cu /Hr @ 1450 RPM • 50 MWC • Execution: Centrifugal Pump 	Engine Room	1	100(±10%)
21	Sewage Discharge Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 320 RPM • 50 MWC • Execution: Centrifugal Pump 	Engine Room	1	100(±10%)
22	Waste Discharge Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 2900 RPM • 50 MWC • Execution: Centrifugal Pump 	Engine Room	1	100(±10%)
23	Compressor	Below Main Deck		Engine Room	1	300

For Hooghly Cochin Shipyard

AGM (P&P)

Techno-commercial check list				
S#.	DESCRIPTION	COMPLIANCE		REMARKS
		YES	NO	
1.	Submission of Tender in Two Bid			
2.	Service duration Confirmation to yards timelines. The work shall be completed as per the instructions from Officer-In-charge of the work within 120 Days after issuing WO.			
3.	Validity of offer –90 days			
4.	Payment Terms			
5.	The Prices offered should be fixed and firm till the completion of delivery, in case the purchase order is placed with you.			
6.	Unpriced bid attached, as per format with taxes & duties as applicable			
7.	Clearly Understood the work scope & related supply of items			
8.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer?			
9.	Compliance with Pre-qualification criterion			
10.	L.D. payable as per relevant clause in the tender document.			
11.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.			
12.	Termination of contract/Risk purchase as per relevant clause in the general terms of enquiry.			
13.	Supporting documents to prove experience as per clause-4 of annexure -1			
14.	Confirm all other terms and conditions of enquiry are acceptable.			
15.	MSE/NSIC, in similar field of service ,if yes document required along with technical bid.			
16.	Submission of ITR (20-21,21-22,22-23), Audited balance Sheet (20-21,21-22,22-23), Profit & loss (20-21,21-22,22-23) attached with seal & sign			

Price Bid

Annexure-6

Machinery works for 2200T -Multi Purpose Vessel (MPV)									
Set-1 S#	Name of Machinery or Equipment	Classification	Specifications	Location	Qty (A)	Approx. Weight (Kg) Per Unit	Unit rate (B)	Total (C=A X B)	Tax (%)
1	Main Engine (Dry Weight)	Propulsion and steering gear system	<ul style="list-style-type: none"> • BHP 850 @ 1800 RPM • Dimensions 2550X1600X2000 	Engine Room	2	4538 (±5%)			
2	Gear Box	Propulsion and steering gear system	<ul style="list-style-type: none"> • 2X597 KW • Ratio 3.9:1 	Engine Room	2	1030 (±5%)			
3	Steering Gear	Propulsion and steering gear system	<ul style="list-style-type: none"> • 2X11 KG N (Maximum torque) 	Steering Gear Room	2	2000			
4	Rudder & Rudder Stock with accessories	Propulsion and steering gear system	<ul style="list-style-type: none"> • ø148mm • Bottom plated rudder blade • 2100 L X1600 W Rudder trunk + Rudder stock + Lower hydraulic nut+ clamping ring/locking sleeve + rudder carrier bearing and other accessories 	Stern Gear Area	2	Above 4500			
5	Stern Tube with Fwd Bush and Aft Bush	Propulsion and steering gear system	<ul style="list-style-type: none"> • ø219 MM of OD & 1600 L • FWD bush stern tube 	Stern Gear Area	2				
6	Propellers	Propulsion and steering gear system	<ul style="list-style-type: none"> • FPP Type • ø1700 mm • Blade -4 No's. 	Stern Gear Area	2				
7	A-Bracket	Propulsion and steering gear system	U.T to be shown to Surveyor - 60mmThick	Stern Gear Area	2				
			Propulsion system	-		Sub Total (1)	Rs:		

Set-2	Name of Machinery or Equipment	Classification	Specifications	Location	Qty (A)	Approx. Weight (Kg) Per Unit	Unit rate (B)	Total (C=A X B)	Tax (%)
8	Windlass & Chain Stopper	Deck Machinery	<ul style="list-style-type: none"> • Anchor winch with double gypsy • Double rapping drum • Electrical motor driven 	Fore Peak Deck	(1+2)	1200			
9	Anchor	Deck Machinery	High Holding Power stockless anchor	Fore Peak Deck	2	1500			
10	Anchor Chain	Deck Machinery	<ul style="list-style-type: none"> • ø38mm • CC2 Grade • Length (both sides) 440 Mtr 	Fore Peak Deck	2	6700			
11	Boat & Davit	Deck Machinery	<ul style="list-style-type: none"> • SWL-1T • Hook @3.5 M for MOB & for crane • Boat 250 Kg 	Main Deck	1	2000			
			Deck Machinery	-		Sub Total (2)	Rs:		

Set-3	Name of Machinery or Equipment	Classification	Specifications	Location	Qty (A)	Approx. Weight (Kg) Per Unit	Unit rate (B)	Total (C=A X B)	Tax (%)
12	Bilge / Ballast Pump	Below Main Deck	<ul style="list-style-type: none"> • 52 Mtr Cu /Hr @ 3000 RPM • 40 MWC • Execution: Centrifugal Pump 	Engine Room	2	255 (±10%)			
13	Emergency Fire Pump	Below Main Deck	<ul style="list-style-type: none"> • 25 Mtr Cu/Hr @ 3000 RPM • 50 MWC • Execution: Centrifugal Pump 	Void Space	1	210 (±10%)			
14	Fire Pump	Below Main Deck	<ul style="list-style-type: none"> • 25 Mtr Cu/Hr @ 3000• 60 MWC• Execution: Centrifugal Pump 	Engine Room	1	255 (±10%)			
15	OWS (Empty / Operation)	Below Main Deck	<ul style="list-style-type: none"> • Capacity -05 Mtr Cu/hr • 2-15 PPM • Start: Manual; Stop: Automatic 	Engine Room	1	157/215			
16	STP (Dry Weight) with Grease Trap	Below Main Deck	<ul style="list-style-type: none"> • HYD Load :2.10 mtr Cu /day • Organic Load :1.05 Kg/day • 860L X 1344W X 2000 H 	Engine Room	1+1	820 ±10%			
17	Main DG Set	Below Main Deck	<ul style="list-style-type: none"> • 2 X 100 KVA • Water Cooled • 1500 RPM ; 415 V • Battery Started • 1850 X 900 X 1200 	Engine Room	2	1250 ±50			
18	Emergency DG Set	Below Main Deck	<ul style="list-style-type: none"> • 1 X 50 KVA • Air Cooled • 1500 RPM ; 415 V • Battery Started • 1850 X 900 X 1200 	Emergency DG Room	1	1250 ±50			
19	Fuel Oil Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 1450 RPM • 50 MWC • Execution:Gear Pump 	Engine Room	1	100(±10%)			

20	Fresh Water Pump	Below Main Deck	<ul style="list-style-type: none"> • 1.5 Mtr Cu /Hr @ 1450 RPM • 50 MWC • Execution:Centrifugal Pump 	Engine Room	1	100(±10%)			
21	Sewage Discharge Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 320 RPM • 50 MWC • Execution:Centrifugal Pump 	Engine Room	1	100(±10%)			
22	Waste Discharge Pump	Below Main Deck	<ul style="list-style-type: none"> • 2 Mtr Cu /Hr @ 2900 RPM • 50 MWC • Execution:Centrifugal Pump 	Engine Room	1	100(±10%)			
23	Compressor	Below Main Deck		Engine Room	1	300			
			Below Deck Machinery	-		Sub Total (3)	Rs:		
			Grand Total	Sub total (1)+(2)+(3)			Rs:		(Excluding Tax)

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

Seal & Sign. of the Bidder

Note:

Bidder shall submit the price bid as mentioned in the format only, otherwise bid will be rejected.
L1 Bidder will be evaluated based on the combined cost of all the items excluding GST. (i.e Grand Total)
Bidder shall submit the price bid based on tender reference drawings which is enclosed with tender documents.

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: (of person in connection with this tender):	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)	
8	EMD Details (DD No. Name of Bank)	
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/de barred or given tender holiday or contract terminated before expiry of the contract period by any govt. autonomous bodies/organizations where bidder has provided services earlier due to deficiencies in service or misconduct etc.	Yes/No (Please tick as applicable) If yes, please furnish details on a separate sheet

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

Place:

Date:

Signature of Supplier/Authorized signature of firm/agency:

Name of Supplier or authorized signatory of firm/agency:

Designation:

Bank Certificate

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

Date:

Place:

(.....)
Authorized official of Bank

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

Compliance statement- List of Deviations		PAGE 1 OF 1
Tender Name: Erection, installation & commissioning of various ship systems onboard 2200T multipurpose vessel for Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.		
TENDER NO:		DATE:
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 (HCSL 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)

Form of bank Guarantee towards EMD
(On stamp paper of value Rs. 200/-)

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

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

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

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

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

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

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

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

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

Place:
Date:

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

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

WHEREAS.....(Name & Address of Supplier) (hereinafter called " **the Supplier**") has undertaken, in 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 **HOOGHLY COCHIN SHIPYARD LTD** (The Buyer – hereinafter called "**HCSL**") in the said contract that the Supplier shall furnish **HCSL** with a Bank Guarantee for the sum specified therein as security for compliance with the Supplier’s obligations in accordance with the Contract.

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

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

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

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

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

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

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed(only).
2. This Bank Guarantee shall be valid upto (date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if HCSL serve upon us a written claim or demand on or before.....(validity date).

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

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address: Date:.....

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

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

Bid's Reference No. & Date:

Bidder's Name & Address:

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

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

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

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date:

Place:.....

Form of Legal Case (Sample Format)

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

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

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

SIGNATURE OF BIDDER

Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020, Order no 3 dt 24.7.2020 and amendments issued by GOI time to time.	
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 subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
2	Wordings of certificate to be submitted along with tender documents
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable)
3	Wordings of certificate to be submitted along with tender documents for Works Involving possibility of subcontracting
	I have read the clause regarding restrictions on procurement from a bidder of a Country which shares a land border with India and on subcontracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub contract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
B	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 here in before, including any agency, branch or office controlled by such person, participating in a procurement process.
2	"Bidder from a country which shares a land border with India "for the purpose of this Order means: – a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
3	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
	Beneficial Owners –as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019–PPD dated 23 rd 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.

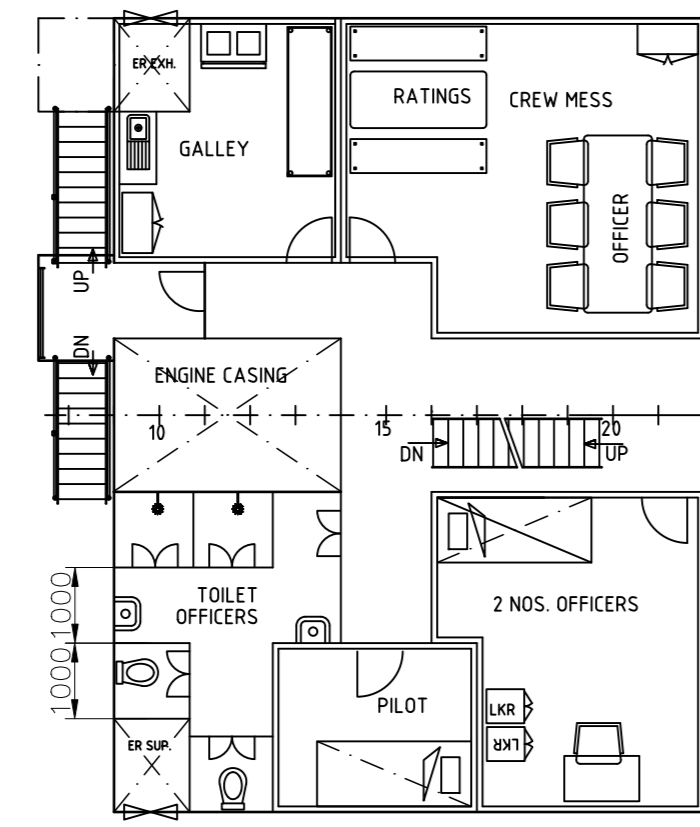
Tender condition- Preference to Make in India	
A	Purchase preference in accordance with Public procurement (Preference to Make in India Order – 2017) Order from Department of Promotion of Industry and Internal Trade P–45021/2/2017/–B.E–IIdt,4.6.2020 and as amended from time to time shall be applicable 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

1	If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1 bidder.
2	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 HCSL on random basis. False declarations will attract actions as stipulated in the order referred, including other actions as permissible by law.
4	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0 lakhs
5	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt 4.6.2020 and as amended from time to time shall apply.

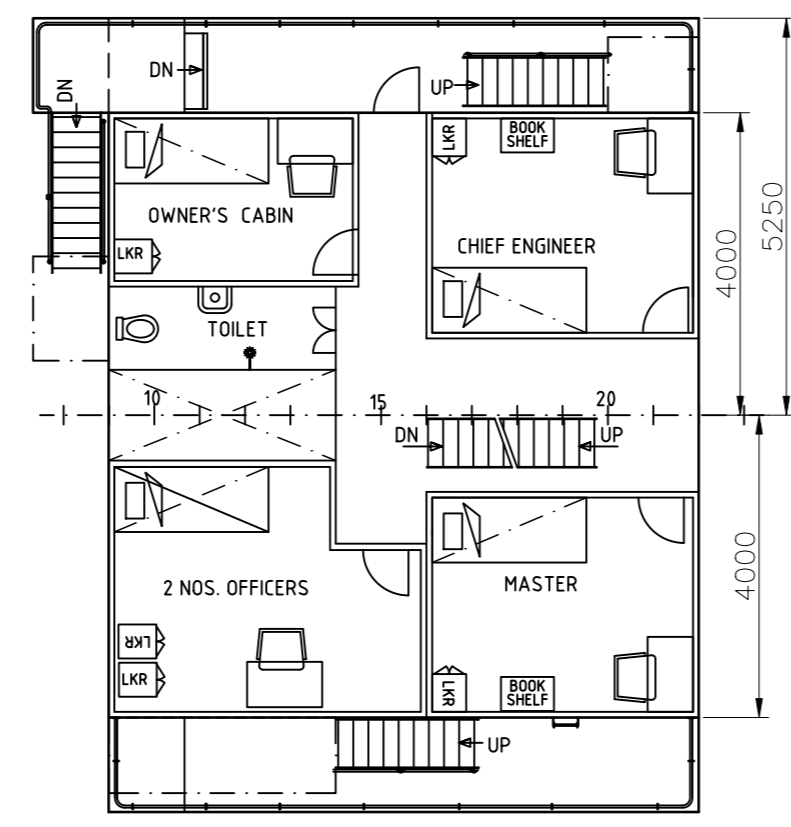
PRINCIPAL PARTICULARS

LENGTH OVERALL	78.00 M
LENGTH ON WATERLINE	75.48 M
BREADTH MOULDED	16.00 M
DEPTH MOULDED	5.50 M
DRAFT (MAXIMUM)	3.50 M
DRAFT (SCANTLING)	3.60 M
AIR DRAFT	18.00 M
SPEED	18.00 Knots
CARGO CAPACITY	2200 Tonnes
CONTAINER	128 UCU (8A FEU)
CLASS	RS (RSV TYPE 4)

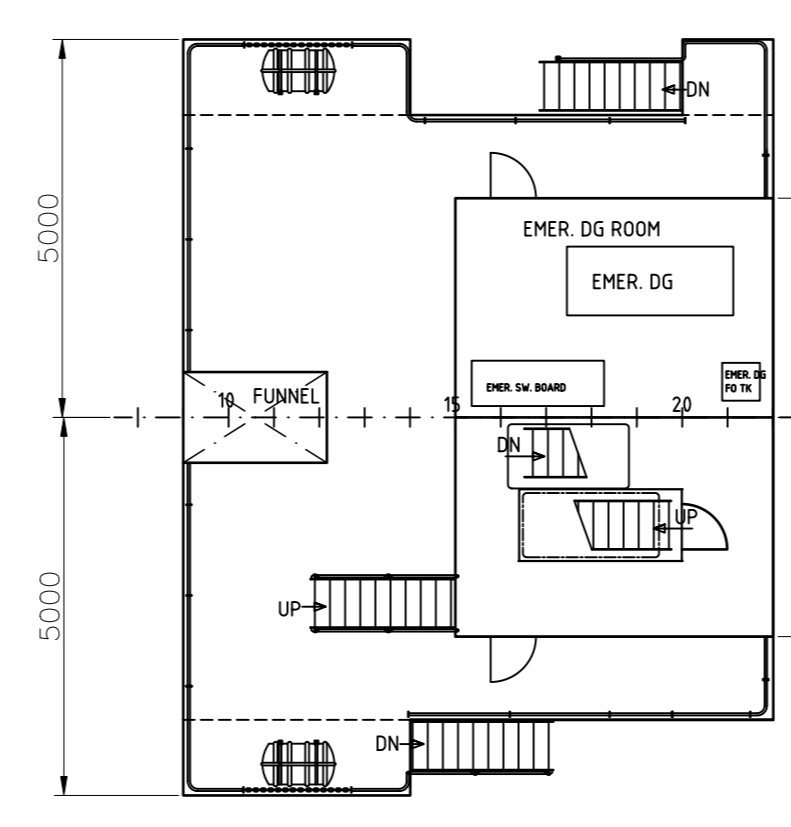
CLASS NOTATION:
 R: SEA TRAMP RIVER SEA VESSEL - TYPE 4;
 EQUIPPED FOR CARRIAGE OF CONTAINERS
 (R) DESCRIPTION: GENERAL CARGO SHIP



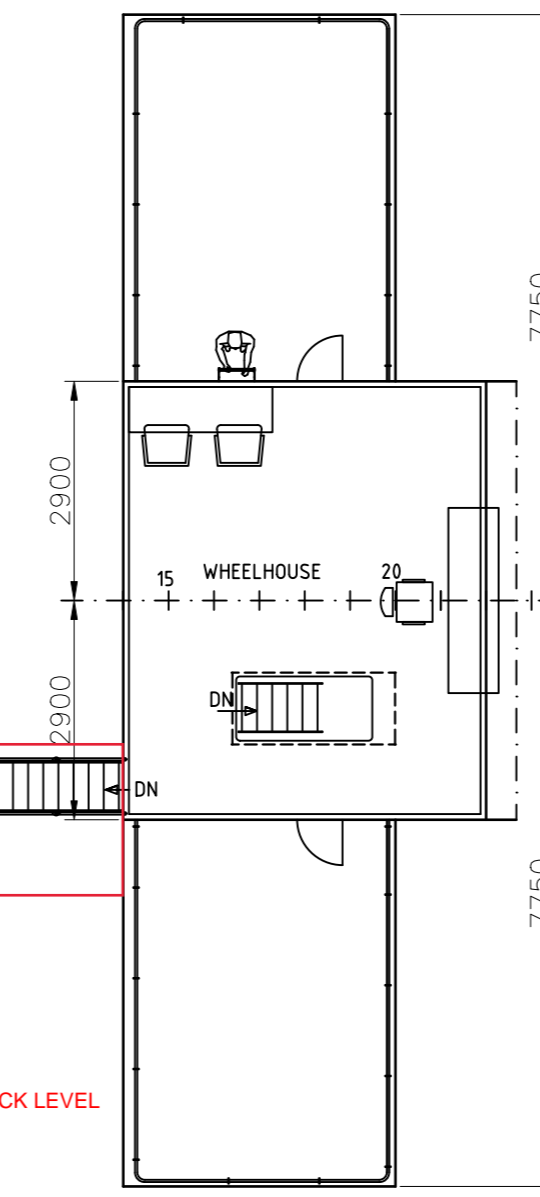
1st DECK PLAN



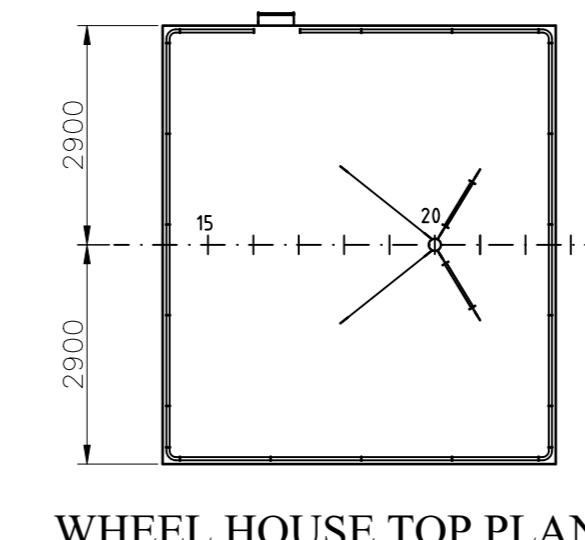
2nd DECK PLAN



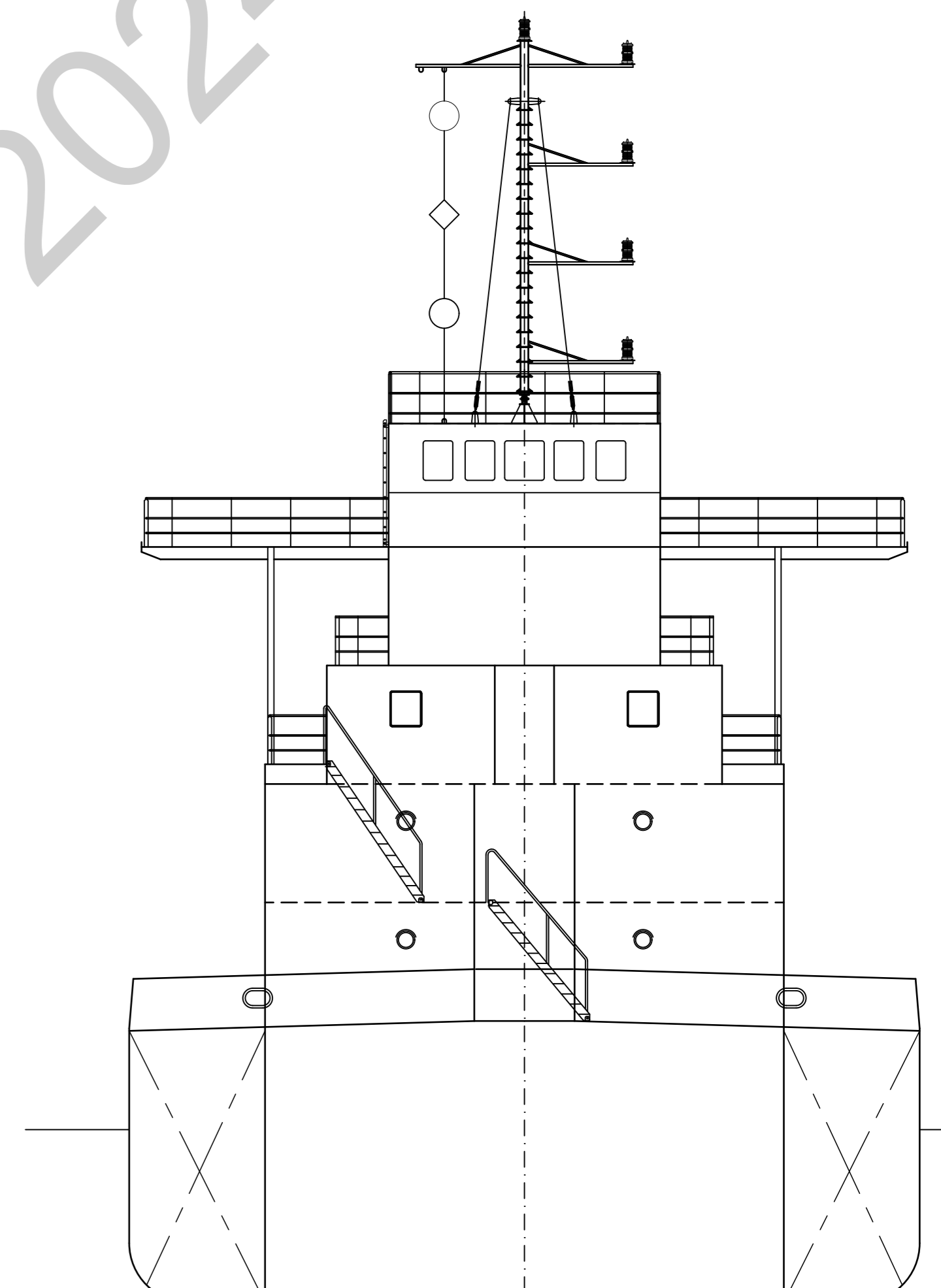
3rd DECK PLAN



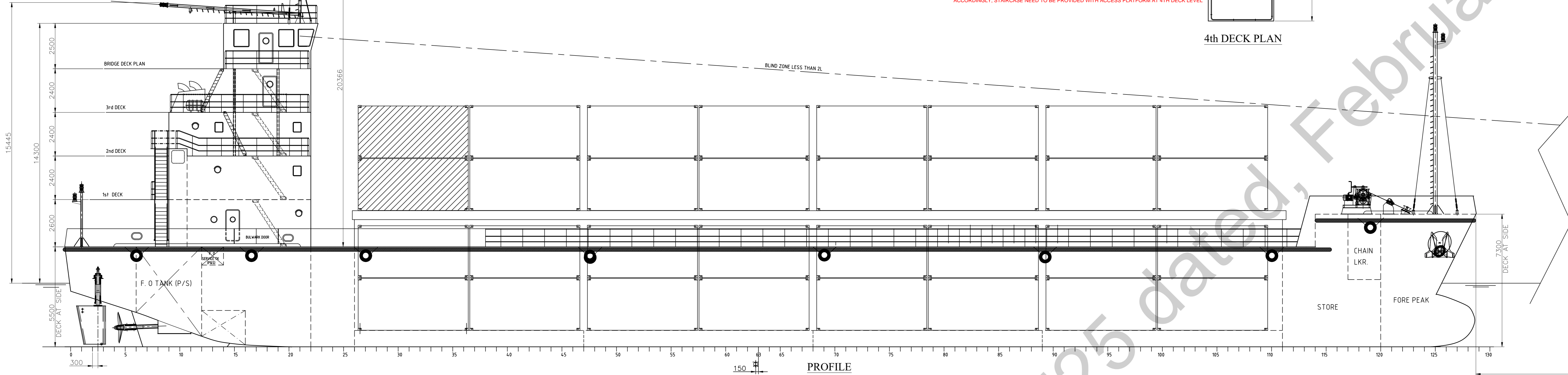
4th DECK PLAN



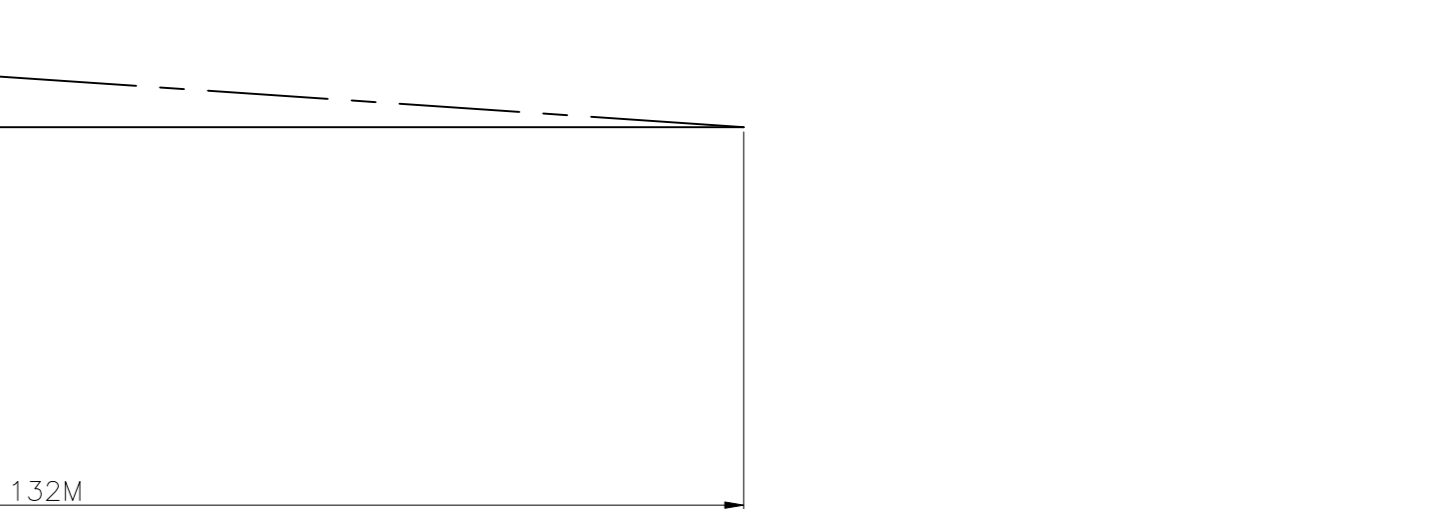
WHEEL HOUSE TOP PLAN



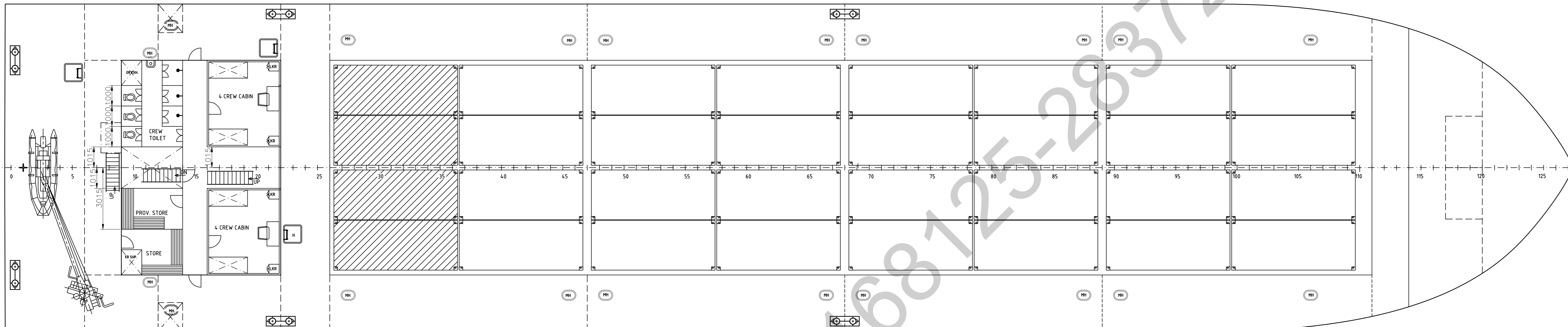
TRANSVERSE VIEW IWO ACCOMMODATION



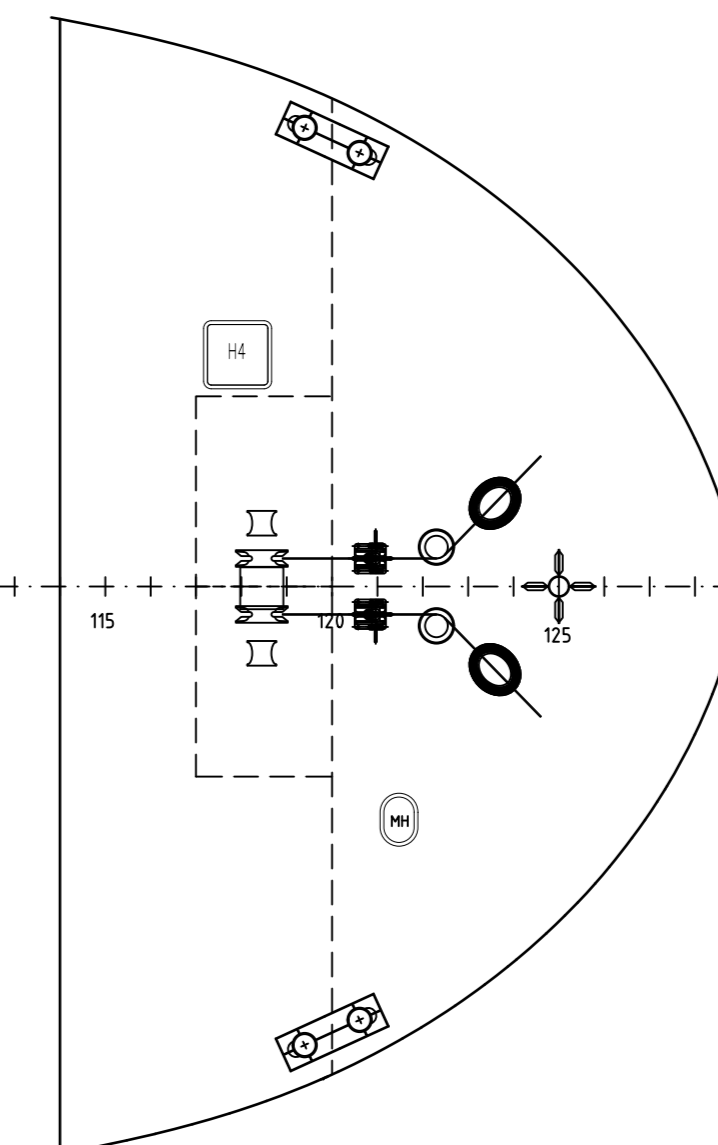
PROFILE



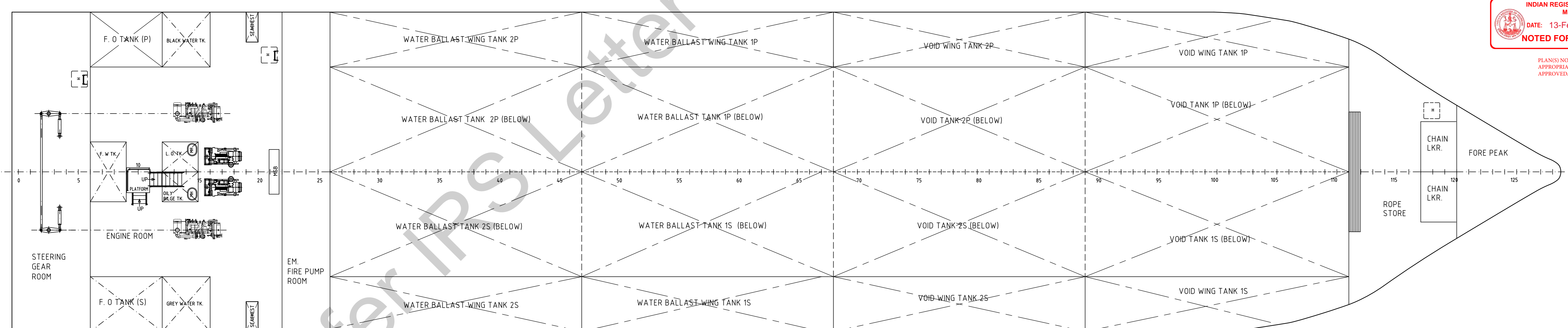
TRANSVERSE VIEW IWO CARGO HOLD



MAIN DECK PLAN



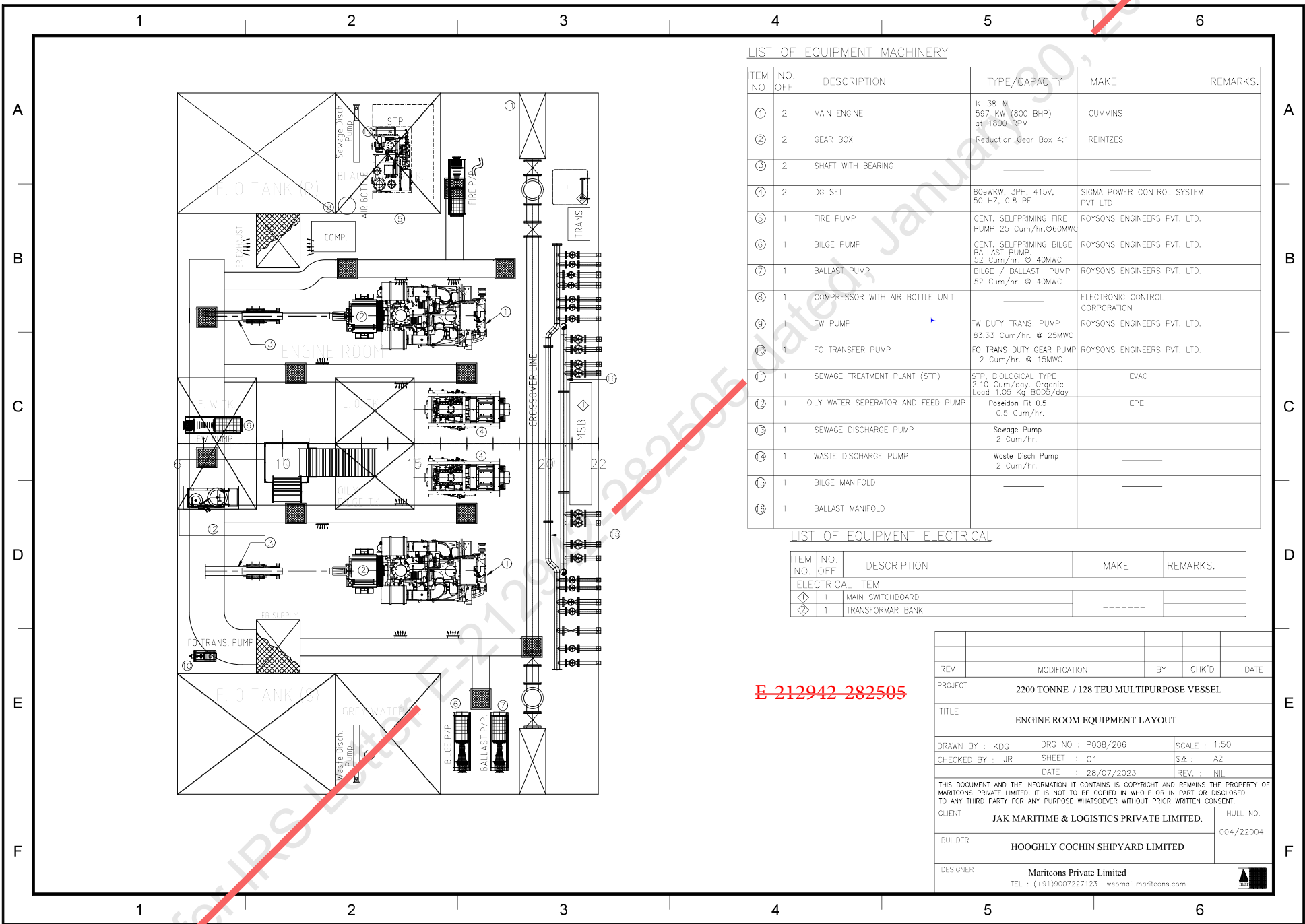
RAISED DECK PLAN



UNDER DECK PLAN

SEE LETTER: E-168125-283725
 INDIAN REGISTER OF SHIPPING
 MUMBAI
 DATE: 13-Feb-2024
 NOTED FOR INFORMATION
 PLANS NOW SENT SUBJECT TO THE
 APPROPRIATE PLANS PREVIOUSLY
 APPROVED NOTED ON 25 MAY 2023

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. EX 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	FOOD 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. : D1
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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			



LIST OF EQUIPMENT MACHINERY

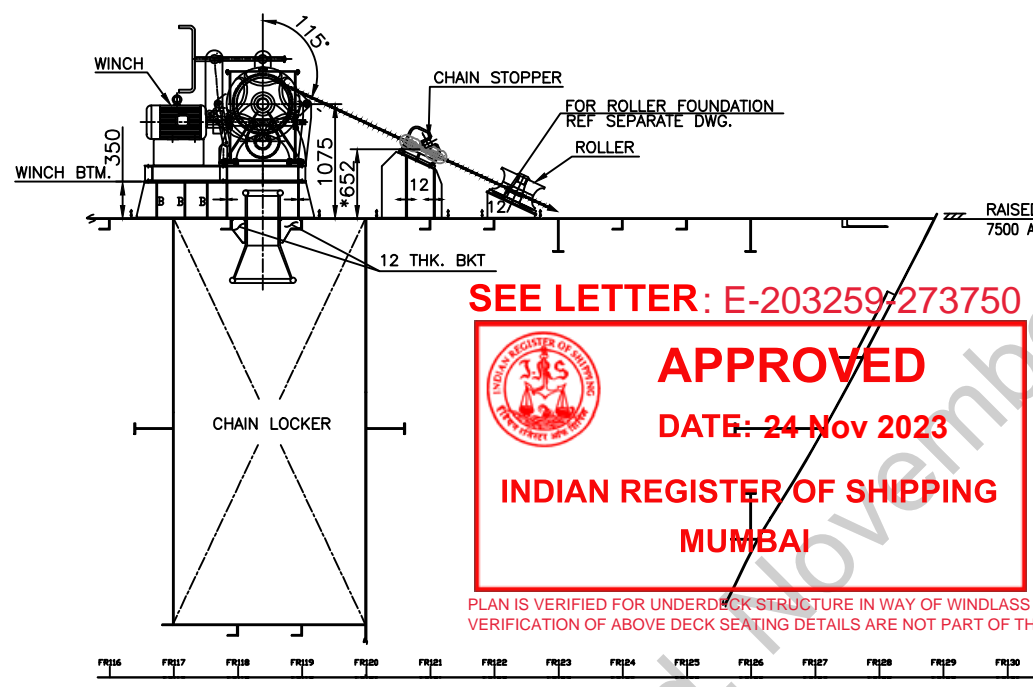
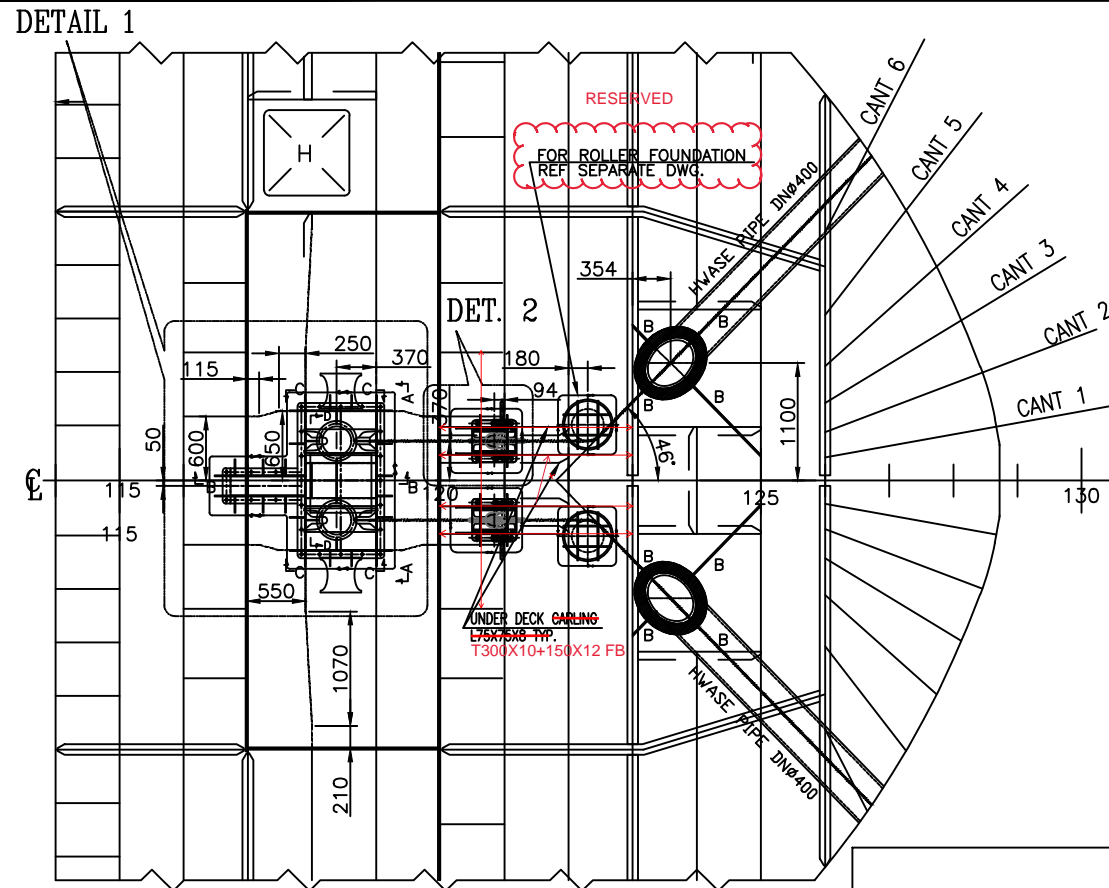
ITEM NO.	NO. OFF	DESCRIPTION	TYPE/CAPACITY	MAKE	REMARKS.
①	2	MAIN ENGINE	K-38-M 597 kW (600 B-P) at 1800 RPM	CUMMINS	
②	2	GEAR BOX	Reduction Gear Box 4:1	REINTZES	
③	2	SHAFT WITH BEARING	---	---	
④	2	DC SET	80kWkW, 3PH, 415V, 50 HZ, 0.8 PF	SIGMA POWER CONTROL SYSTEM PVT LTD	
⑤	1	FIRE PUMP	CENT. SELFPRIMING FIRE PUMP 25 Cum/hr. @ 60MWC	ROYSONS ENGINEERS PVT. LTD.	
⑥	1	BILGE PUMP	CENT. SELFPRIMING BILGE BALLAST 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/dcy, Organic Load 1.05 Kg BOD5/day	EVAC	
⑫	1	OILY WATER SEPARATOR AND FEED PUMP	Poseidon FR 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	---	---	

LIST OF EQUIPMENT ELECTRICAL

ITEM NO.	NO. OFF	DESCRIPTION	MAKE	REMARKS.
◇	1	MAIN SWITCHBOARD		
◇	1	TRANSFORMER BANK	---	

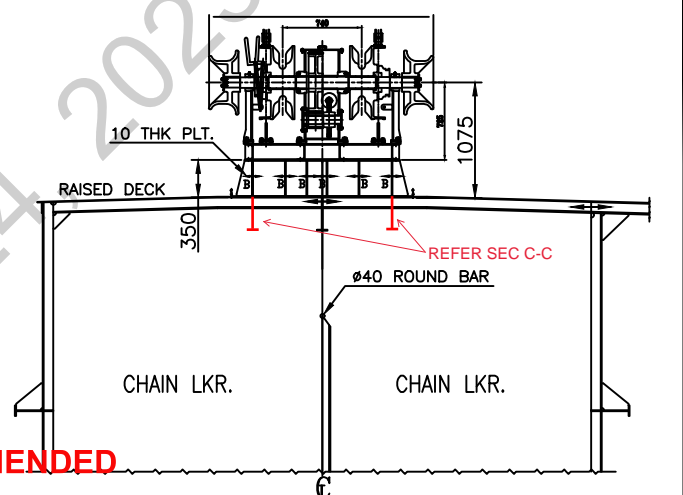
E-212942-282505

REV	MODIFICATION	BY	CHK'D	DATE
PROJECT	2200 TONNE / 128 TEU MULTIPURPOSE VESSEL			
TITLE	ENGINE ROOM EQUIPMENT LAYOUT			
DRAWN BY : KGC	DRG NO. : P008/206	SCALE : 1:50		
CHECKED BY : JR	SHEET : 01	SZF : A2		
	DATE : 28/07/2023	REV. : NIL		
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CLIENT	JAK MARITIME & LOGISTICS PRIVATE LIMITED.	HULL NO.	004/22004	
BUILDER	HOOGHLY COCHIN SHIPYARD LIMITED			
DESIGNER	Maritons Private Limited TEL : (+91)9007227123 web:mail.maritons.com			



SEE LETTER: E-203259/273750
APPROVED
 DATE: 24 Nov 2023
INDIAN REGISTER OF SHIPPING
MUMBAI

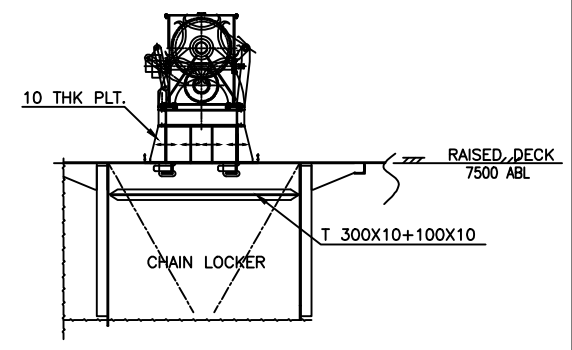
PLAN IS VERIFIED FOR UNDERDECK STRUCTURE IN WAY OF WINDLASS AND CHAIN STOPPER SEATING. VERIFICATION OF ABOVE DECK SEATING DETAILS ARE NOT PART OF THIS REVIEW.



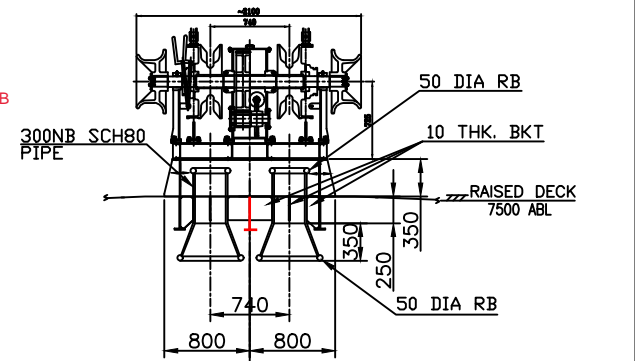
AS AMENDED

WELDING AND ALIGNMENT TO SURVEYOR'S SATISFACTION.

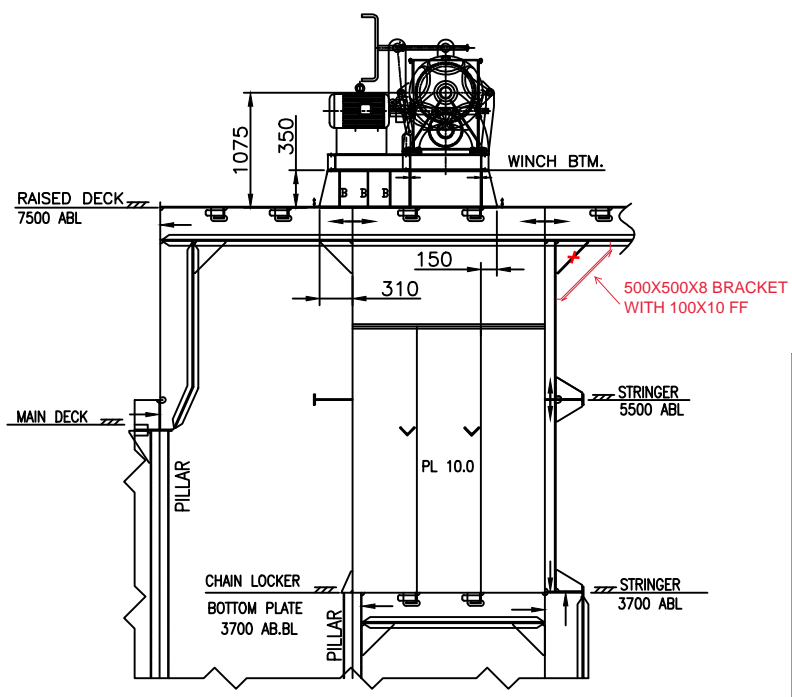
SECTION A-A
(ALL BRACKET, PLATES ARE 10MM THK.)



SECTION C-C
(ALL BRACKET, PLATES ARE 10MM THK.)



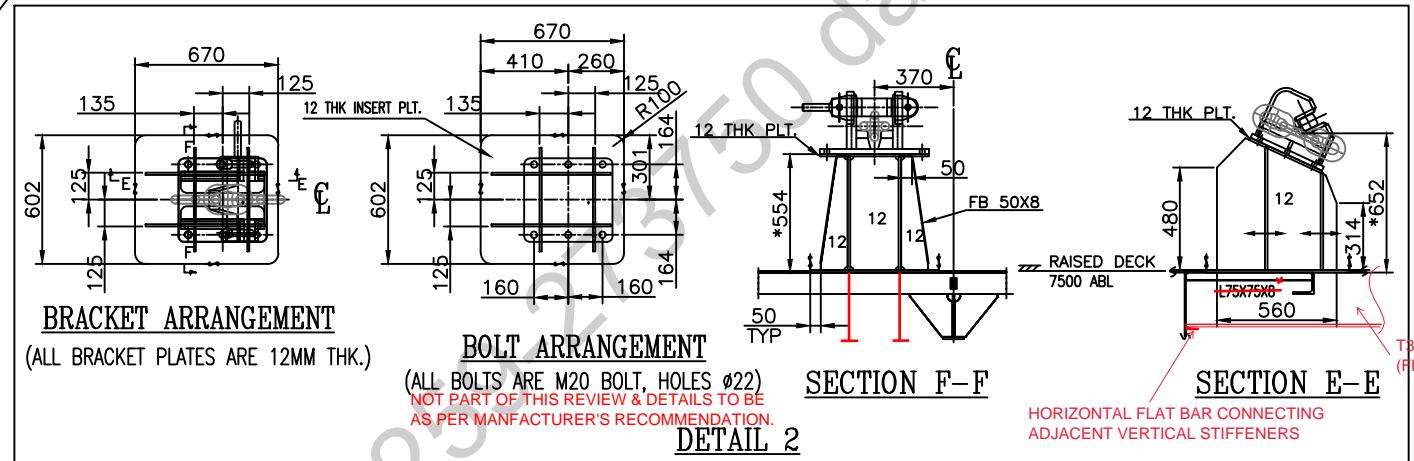
SECTION D-D
(FR119-370)



SECTION B-B
(ALL BRACKET, PLATES ARE 10MM THK.)

NOTE:
 1. ALL DIMENSIONS ARE IN MM. AND ARE TO MEASURED FROM TOP OF DECK.
 2. ALL PLATES ARE 10 MM THICKNESS UNLESS OTHERWISE MENTIONED.
 3. '*' DIMENSIONS ARE APPROX.

REFERENCE DRAWING:
 1. GENERAL ARRANGEMENT FOR ELECTRIC MOTOR DRIVEN WINDLASS (OEM DRAWING NO.: GE-248-01)
 2. PROFILE & DECK PLAN (DRAWING NO.: P008/302, REV.C)

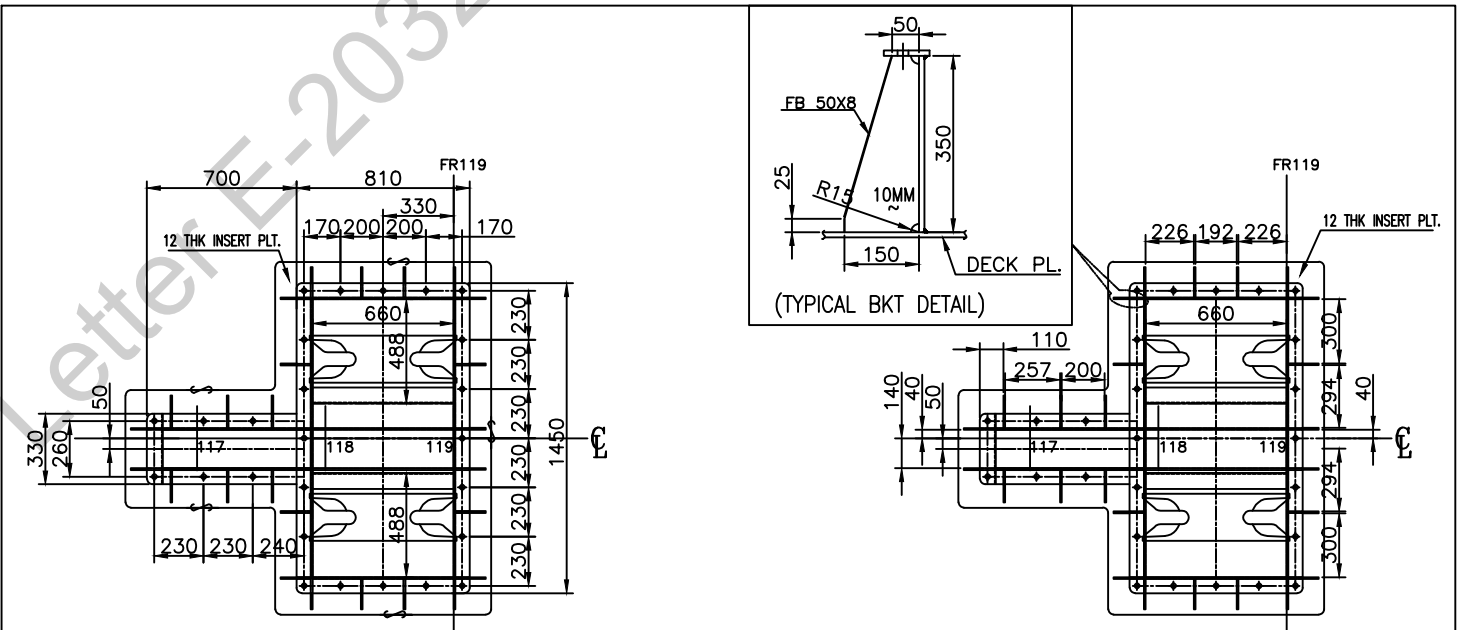


BRACKET ARRANGEMENT
(ALL BRACKET PLATES ARE 12MM THK.)

BOLT ARRANGEMENT
(ALL BOLTS ARE M20 BOLT, HOLES Ø22)
 NOT PART OF THIS REVIEW & DETAILS TO BE AS PER MANUFACTURER'S RECOMMENDATION.

SECTION F-F

SECTION E-E

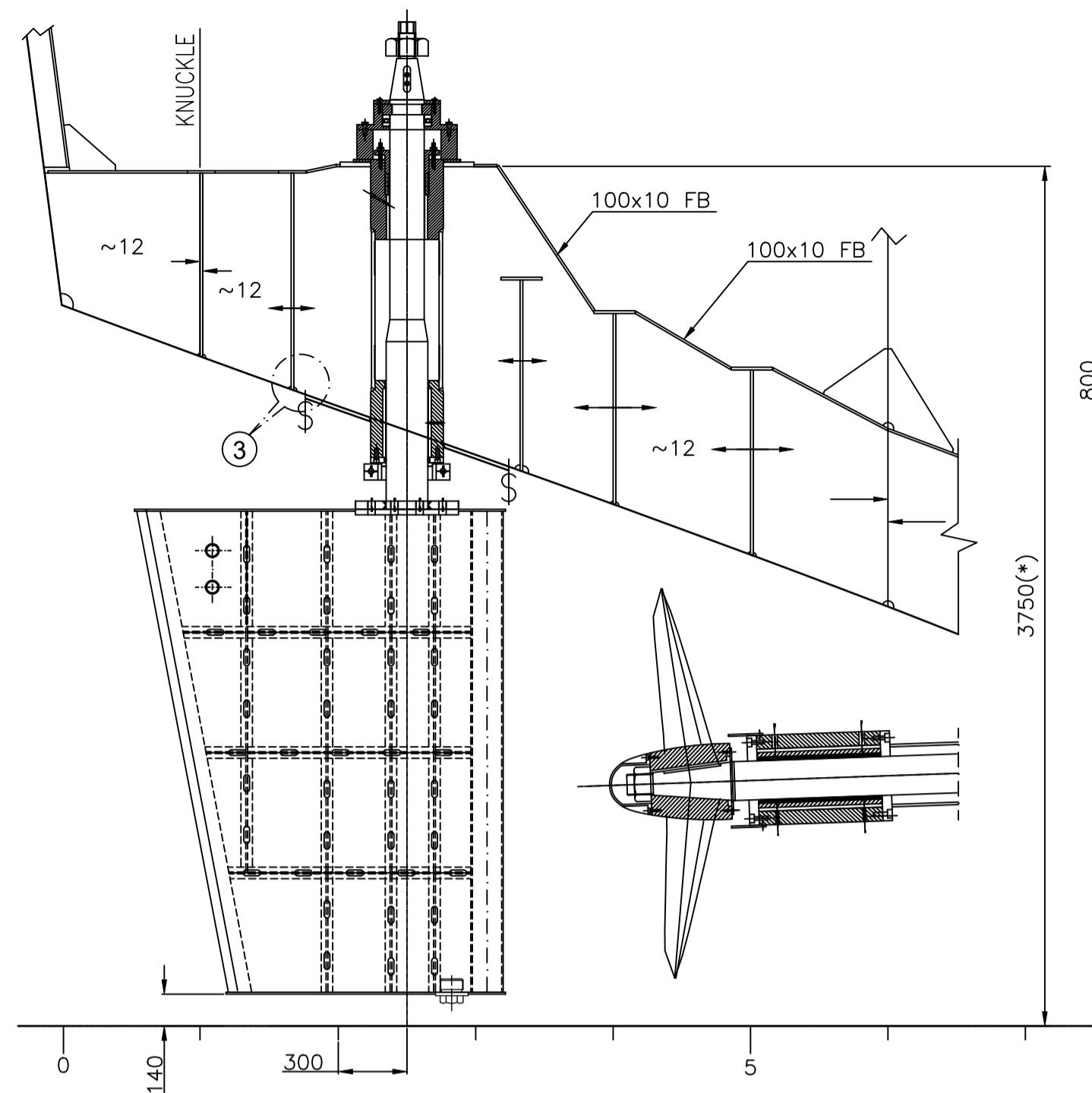


BOLT ARRANGEMENT
(ALL BOLTS ARE M20 BOLT, HOLES Ø22)
 NOT PART OF THIS REVIEW & DETAILS TO BE AS PER MANUFACTURER'S RECOMMENDATION.

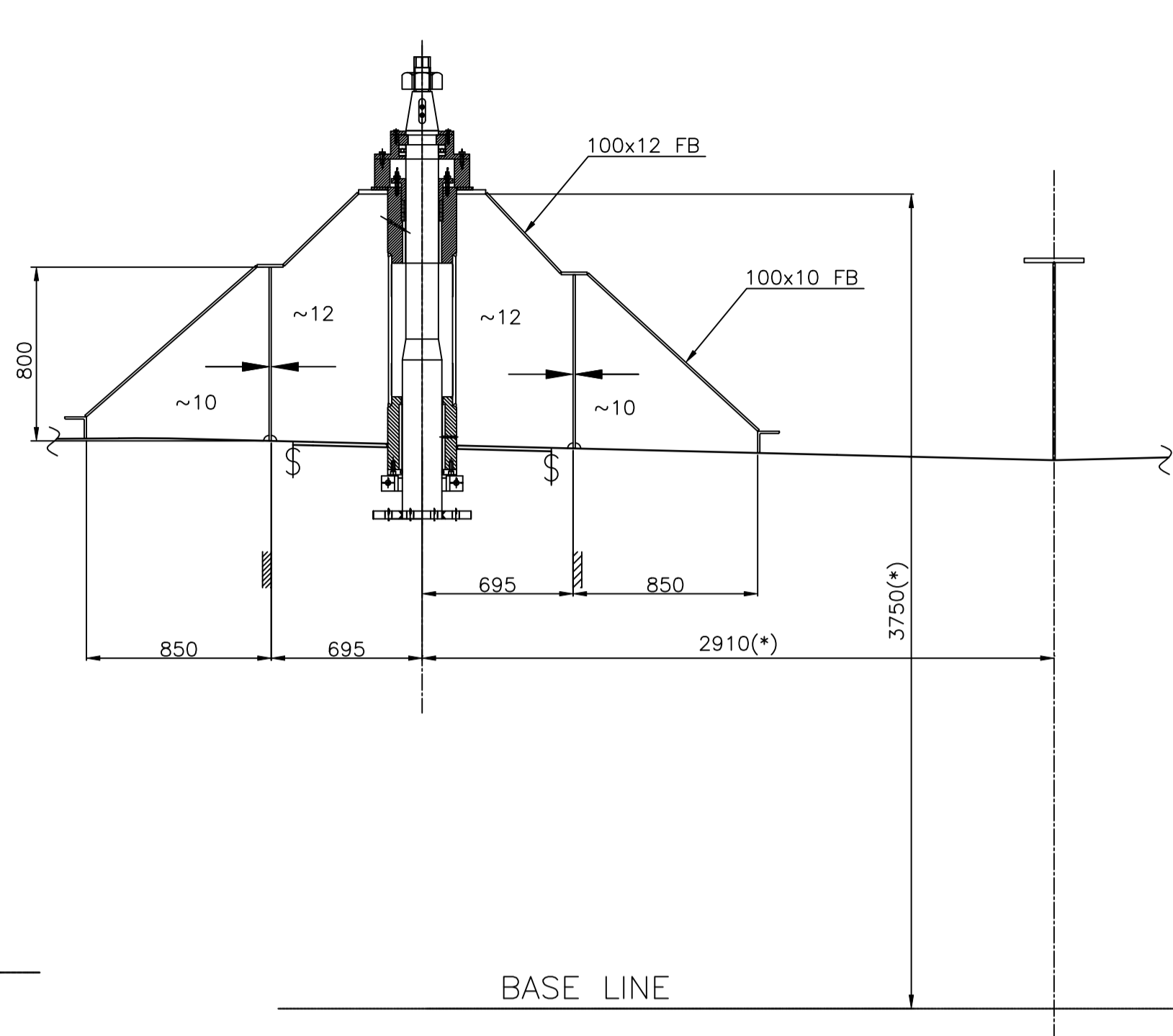
DETAIL 1

BRACKET ARRANGEMENT
(ALL BRACKET PLATES ARE 10MM THK.)

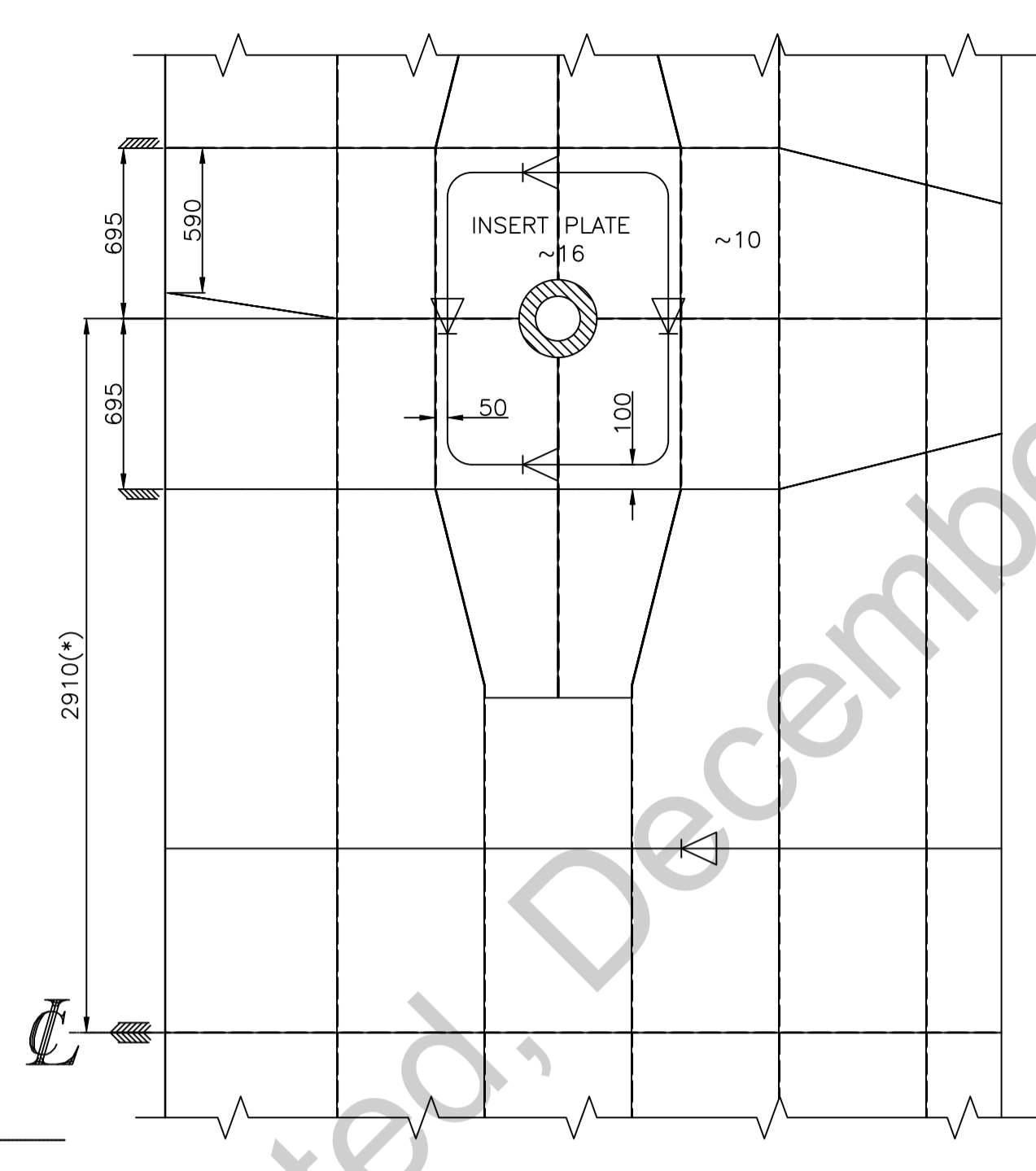
A	CLASS COMMENTS INCORPORATED	NH	PM	07/11/2023
REV	MODIFICATION	BY	CHK'D	DATE
PROJECT	2200 TONNE / 128 TEU MULTIPURPOSE VESSEL			
TITLE	WINDLASS SEATING ARRANGEMENT			
DRAWN BY :	NH	DRG NO :	P008/320	SCALE : 1 : 50
CHECKED BY :	PM	SHEET :	1 OF 1	SIZE : A2
		DATE :	07/11/2023	REV. : A
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CLIENT	JAK MARITIME & LOGISTICS PRIVATE LIMITED.			HULL NO.
BUILDER	HOUGHLY COCHIN SHIPYARD LIMITED			004/22004
DESIGNER	Maritcons Private Limited TEL : (+91)9007227123 webmail.maritcons.com			



PROFILE VIEW
(PORT SHOWN - STBD SIMILAR)



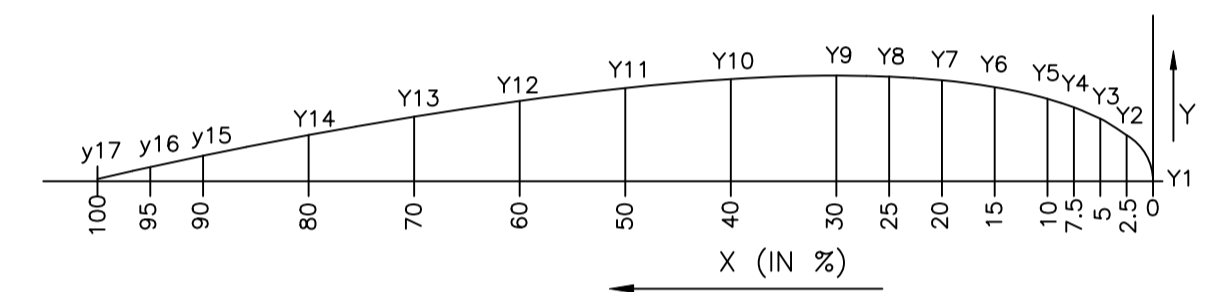
FRAME- 2+300
(LOOKING FWD)



BOTTOM SHELL PLAN
(PORT SHOWN - STBD SIMILAR)

(*) DIMENSION MAY VARY

PART NO.	DESCRIPTION	QTY. (1 RUDDER)	MATERIAL
1	PALM PLATE	2	IRS GRADE 'E' MIN YEILD STRESS 235 N/MM ²
2	RUDDER STOCK	1	FORGED STEEL - IS 1875G CL/II YEILD STRESS 235 N/MM ² OR EQUIV.
3	JUMPING PREVENTER (IN TWO HALVES)	1	M.S.
4	HEX BOLT	4	HT 8.8
5	'O' RING	1	SYN. RUBBER
6	LOCKING PLATE	1	GM / LG4
7	ALLEN BOLT	6	HT 8.8
8	LOWER BEARING	1	PHOSPHOR BRONZE BS1400 PB2
9	BEARING HOUSING (LOWER)	1	FORGED STEEL MIN YEILD STRESS 235 N/ MM ²
10	LUBRICATION INLET	1	
11	TRUNK TUBE	1	OD 273.1, THICKNESS 15.09
12	STUFFING BOX	1	M.S. FORGED
13	UPPER BEARING	1	PHOSPHOR BRONZE BS1400 PB2
14	LUBRICATION OUTLET	1	
15	GLAND PACKING	1 SET	20MM THK. STANDARD
16	GLAND	1	GM LG4
17	STUD WITH NUT	6	SS304
18	THURST BEARING HOUSING	1	M.S.
19	HEX BOLT	6	HT 8.8
20	LOCK (IN TWO HALVES)	1	S.S. 304
21	THURST BEARING	1	SKF. 51230 M
22	HEX BOLT	4	HT 8.8
23	KEY	1	STAINLESS STEEL, TS-515 N/MM ²
24	QUADRANT NUT	4	M.S.

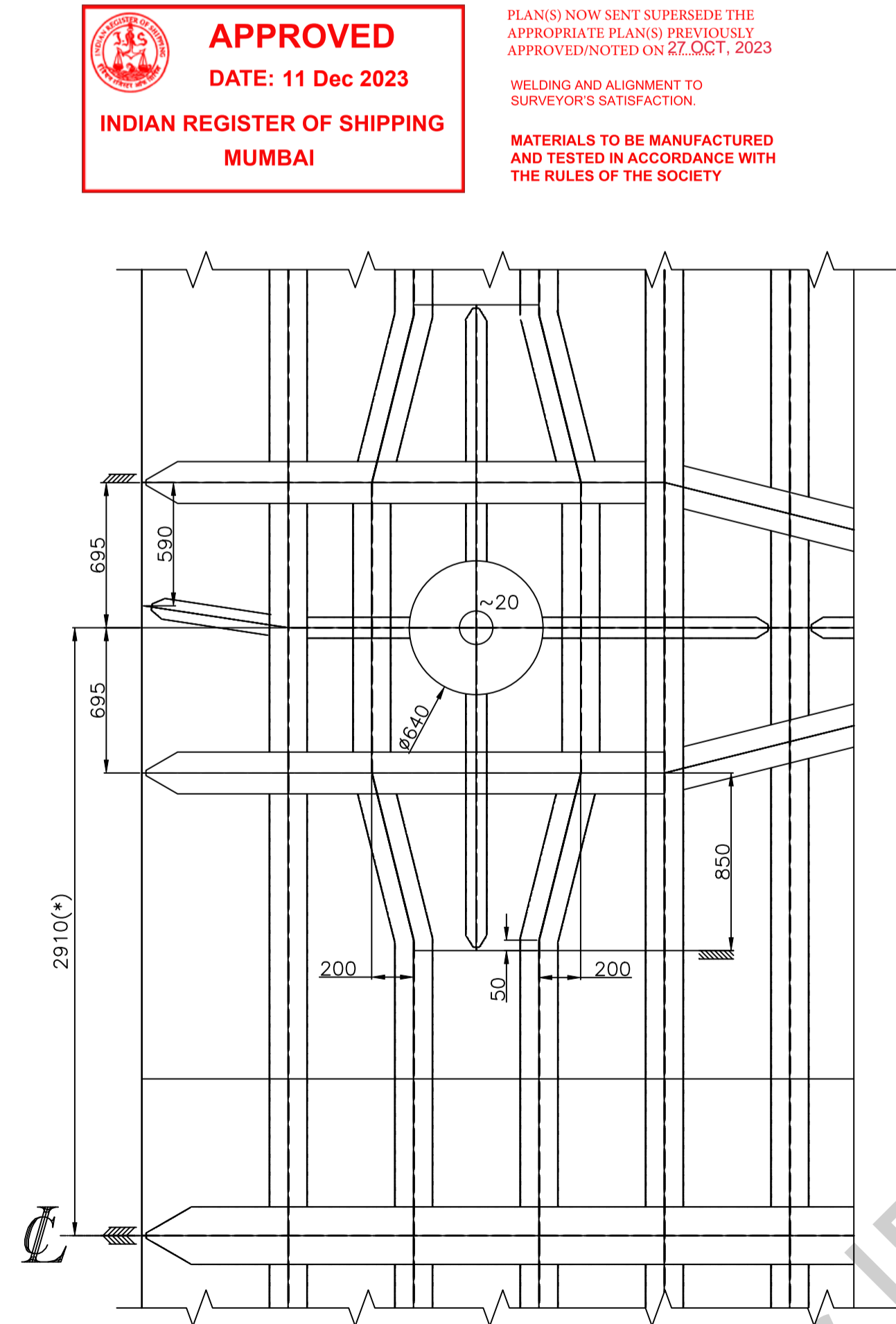


SECTIONS GEOMETRY

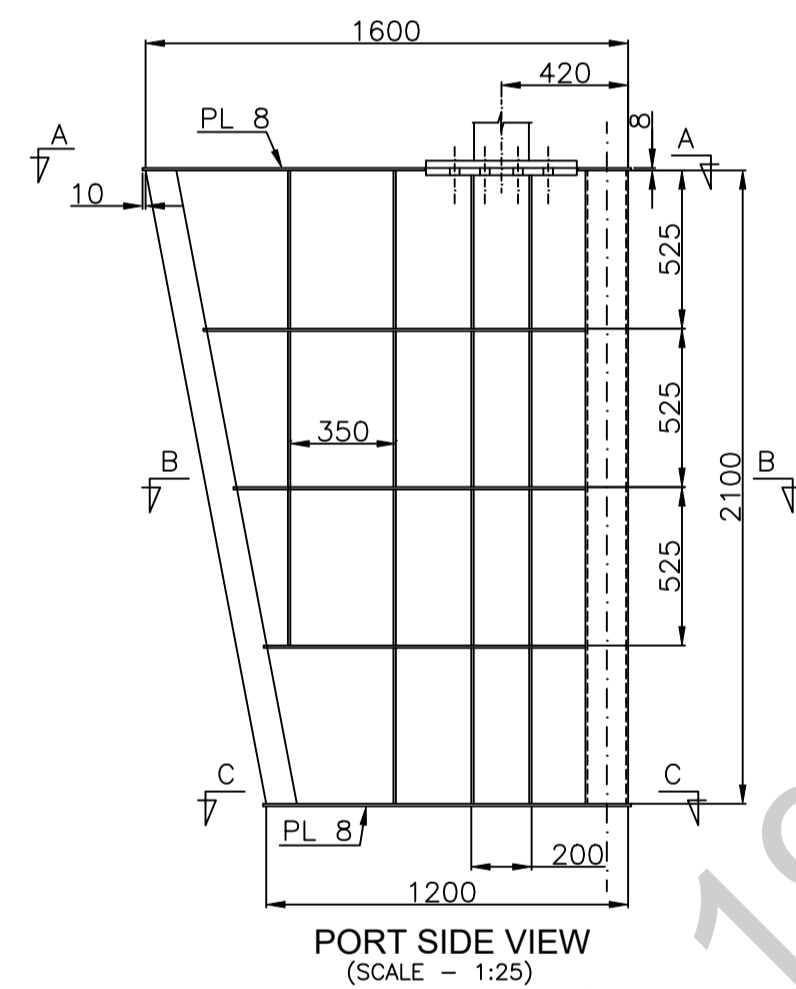
SEE LETTER: E-197265-275526



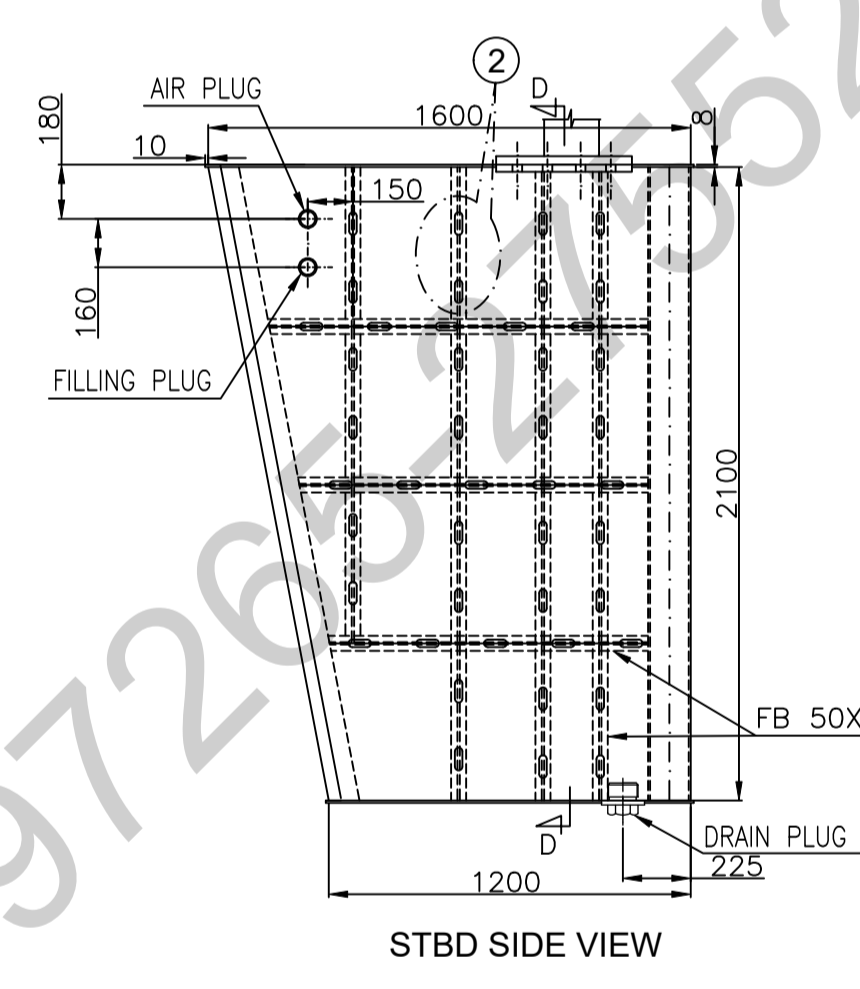
PLANS NOW SENT SUPERSEDE THE APPROPRIATE PLANS PREVIOUSLY APPROVED/NOTED ON 27.OCT. 2023
WELDING AND ALIGNMENT TO SURVEYOR'S SATISFACTION.
MATERIALS TO BE MANUFACTURED AND TESTED IN ACCORDANCE WITH THE RULES OF THE SOCIETY



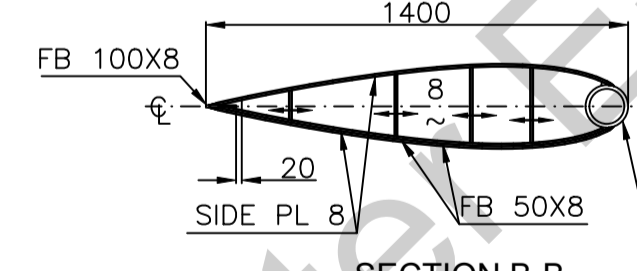
BOTTOM FLOOR PLAN
(PORT SHOWN - STBD SIMILAR)
(*) DIMENSION MAY VARY



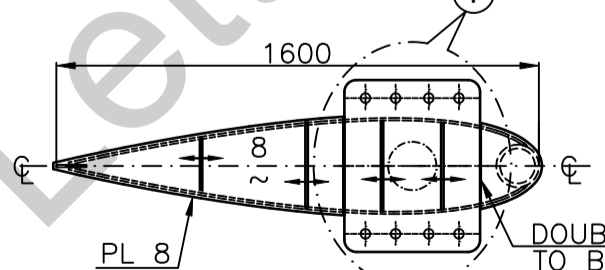
PORT SIDE VIEW
(SCALE - 1:25)



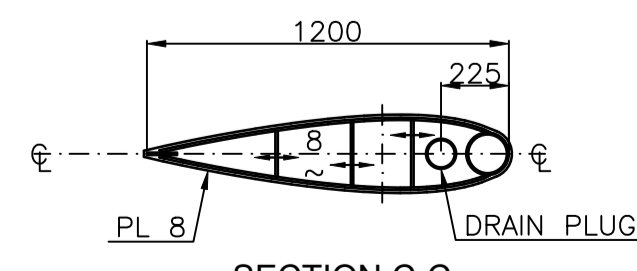
STBD SIDE VIEW



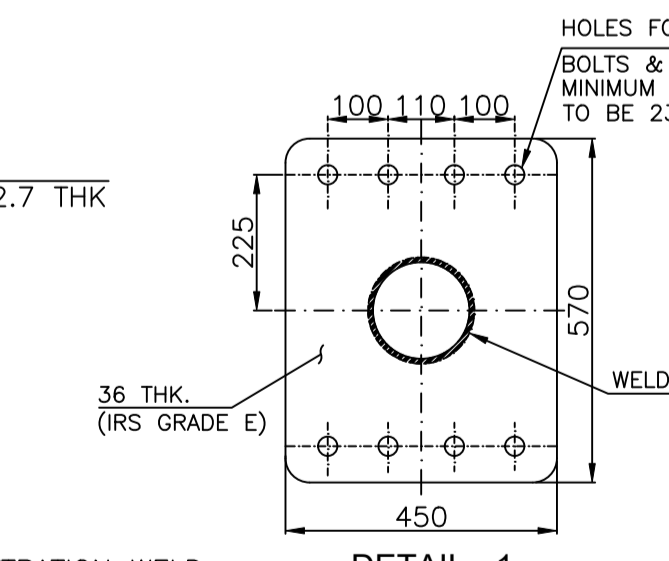
SECTION B-B
(SCALE - 1:25)



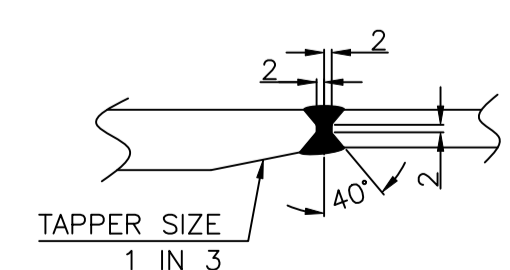
SECTION A-A
(SCALE - 1:25)



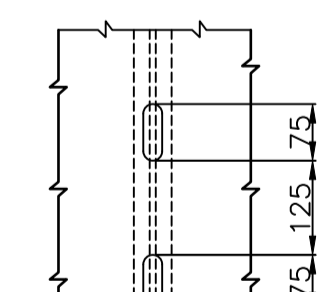
SECTION C-C
(SCALE - 1:25)



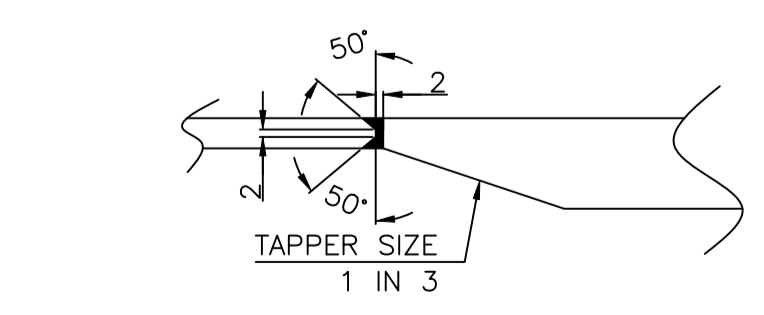
DETAIL - 1
(SCALE - 1:12.5)



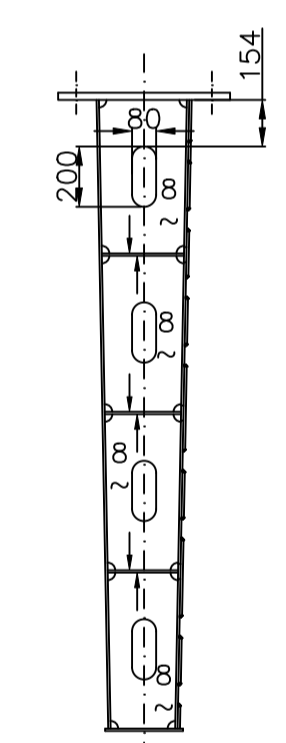
DETAIL - 3
WELD DETAIL OF INSERT PLATE TO BOTTOM PLATE
(SCALE - 1:2)



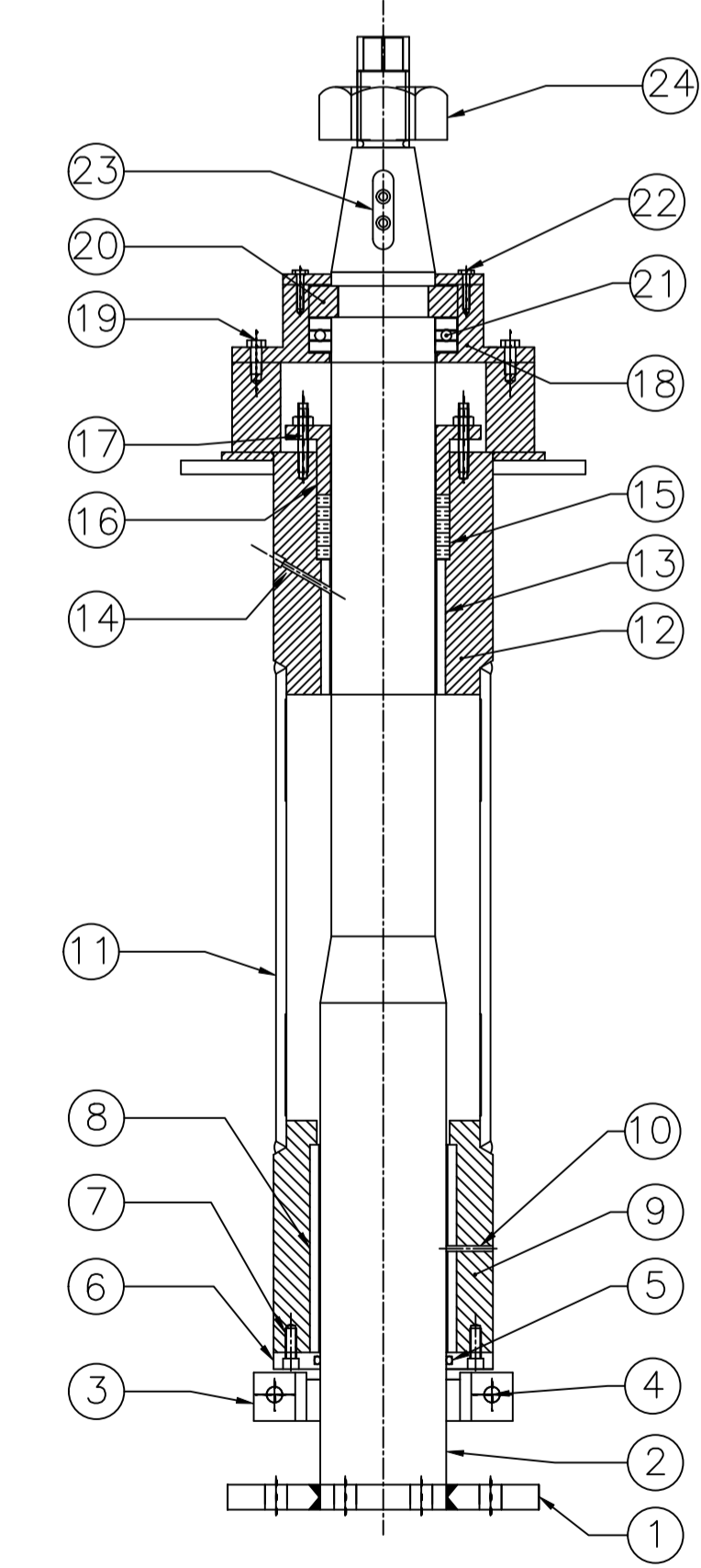
DETAIL - 2
(SCALE - 1:10)



DOUBLE PENETRATION WELD DETAIL (TYP.)
WELD TO BE PROVIDED
RUDDER STOCK WITH PALM PLATE
PALM PLATE WITH RUDDER TOP PLATE
(SCALE - 1:2)



SECTION D-D
(SCALE - 1:25)



RUDDER ASSEMBLY
(PART NUMBERING)

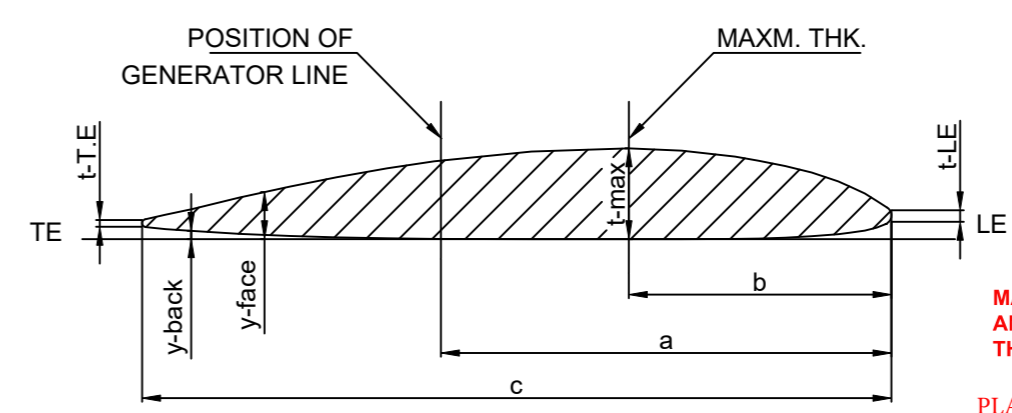
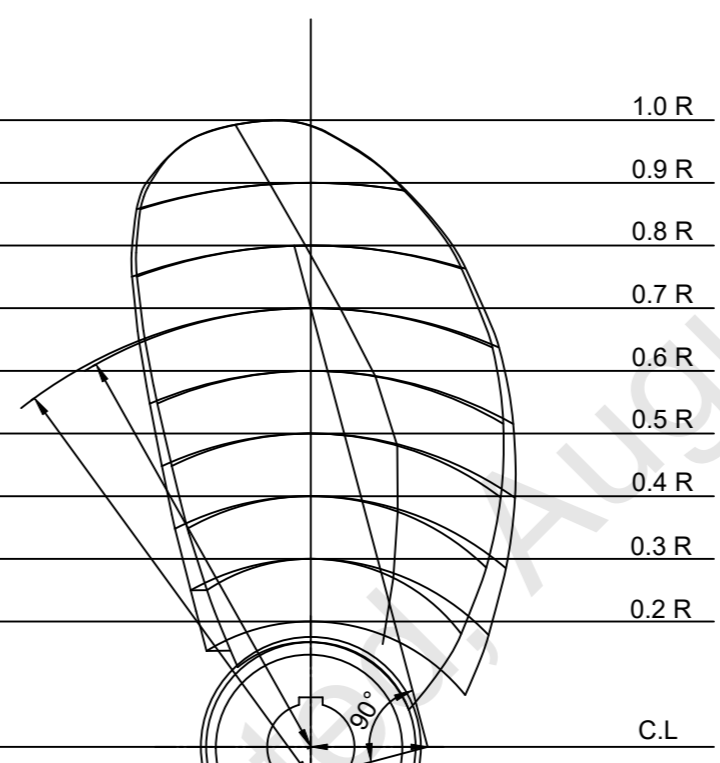
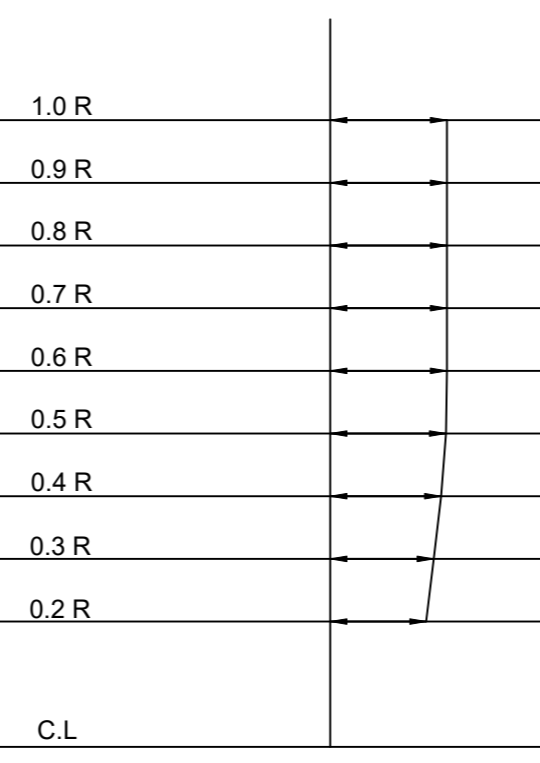
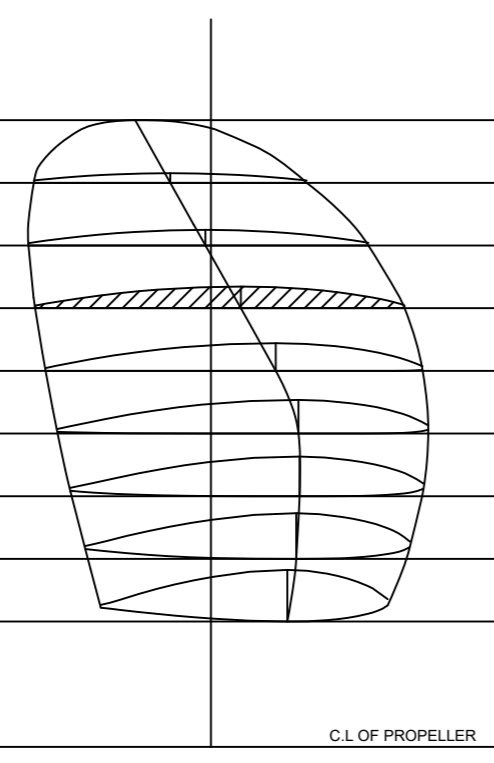
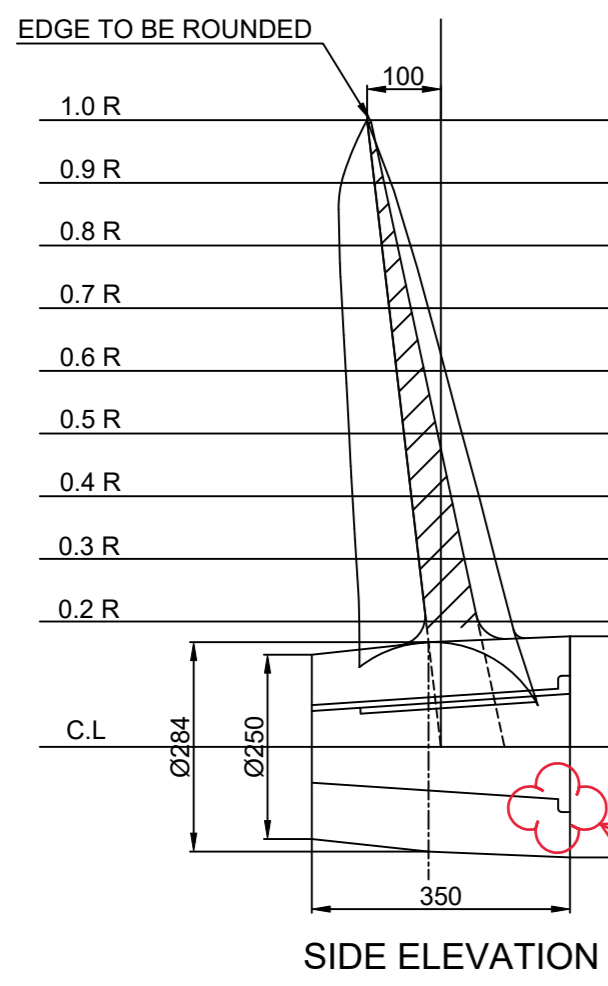
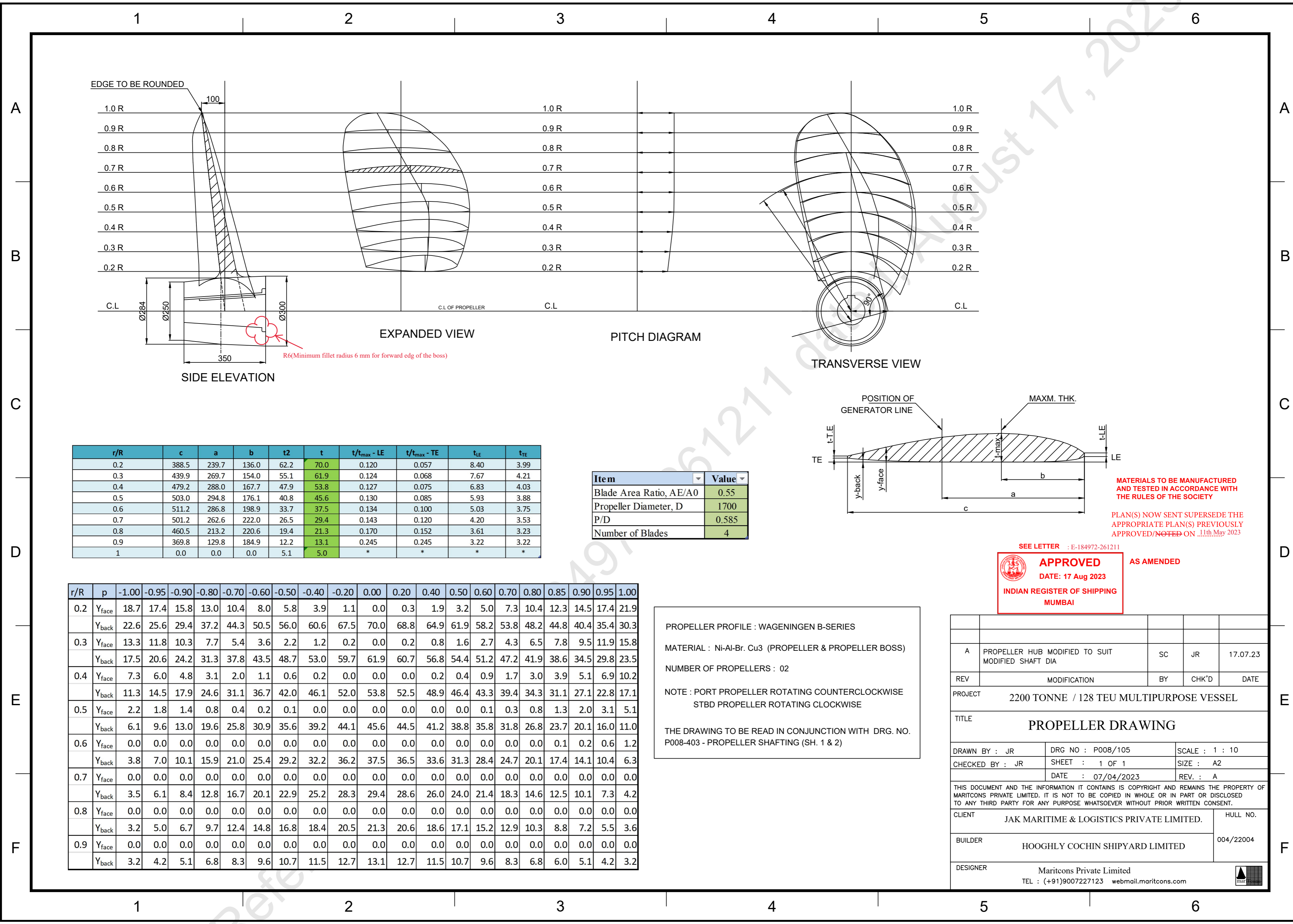
NOTE : ALL MATERIALS OF RUDDER BLADE ARE OF IRS GRADE A, U.N.O
VESSEL DESIGN SPEED: 10KNOTS (REFER SRF)

TABLE : SECTION GEOMETRY

X (%)	SECTION A-A		SECTION C-C	
	X	Y	X	Y
0	0	0.0	0	0.0
2.5	40	69.7	30	52.3
5	80	94.8	60	71.1
7.5	120	112.0	90	84.0
10	160	124.9	120	93.7
15	240	142.5	180	106.9
20	320	153.0	240	114.8
25	400	158.4	300	118.8
30	480	160.0	360	120.0
40	640	154.8	480	116.1
50	800	141.2	600	105.9
60	960	121.7	720	91.3
70	1120	97.7	840	73.3
80	1280	70.0	960	52.5
90	1440	38.6	1080	29.0
95	1520	21.5	1140	16.1
100	1600	3.4	1200	2.5

REV	MODIFICATION	BY	CHK'D	DATE
C	DETAIL OF LOCK (ITEM 20) INCORPORATED. DATED - 21.11.2023	NH	PM	21/11/2023
B	MODIFICATION DONE AS PER CLASS COMMENT DATED - 27.10.2023	SC	PM	31/10/2023
A	MODIFICATION DONE AS PER CLASS COMMENT DATED - 18.08.2023	SC	PM	03/10/2023

PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL			
TITLE RUDDER ASSEMBLY			
DRAWN BY : SC	DRG NO : P008/321	SCALE : 1 : 25	
CHECKED BY : PM	SHEET : 1 OF 2	SIZE : A1	
	DATE : 18/07/2023	REV. : B	
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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			



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

PLAN(S) NOW SENT SUPERSEDE THE APPROPRIATE PLAN(S) PREVIOUSLY APPROVED/NOTED ON 11th May 2023

r/R	c	a	b	t2	t	t/t _{max} - LE	t/t _{max} - TE	t _{LE}	t _{TE}
0.2	388.5	239.7	136.0	62.2	70.0	0.120	0.057	8.40	3.99
0.3	439.9	269.7	154.0	55.1	61.9	0.124	0.068	7.67	4.21
0.4	479.2	288.0	167.7	47.9	53.8	0.127	0.075	6.83	4.03
0.5	503.0	294.8	176.1	40.8	45.6	0.130	0.085	5.93	3.88
0.6	511.2	286.8	198.9	33.7	37.5	0.134	0.100	5.03	3.75
0.7	501.2	262.6	222.0	26.5	29.4	0.143	0.120	4.20	3.53
0.8	460.5	213.2	220.6	19.4	21.3	0.170	0.152	3.61	3.23
0.9	369.8	129.8	184.9	12.2	13.1	0.245	0.245	3.22	3.22
1	0.0	0.0	0.0	5.1	5.0	*	*	*	*

Item	Value
Blade Area Ratio, AE/A0	0.55
Propeller Diameter, D	1700
P/D	0.585
Number of Blades	4

SEE LETTER : E-184972-261211

APPROVED

DATE: 17 Aug 2023

INDIAN REGISTER OF SHIPPING

MUMBAI

AS AMENDED

r/R	p	-1.00	-0.95	-0.90	-0.80	-0.70	-0.60	-0.50	-0.40	-0.20	0.00	0.20	0.40	0.50	0.60	0.70	0.80	0.85	0.90	0.95	1.00
0.2	Y _{face}	18.7	17.4	15.8	13.0	10.4	8.0	5.8	3.9	1.1	0.0	0.3	1.9	3.2	5.0	7.3	10.4	12.3	14.5	17.4	21.9
	Y _{back}	22.6	25.6	29.4	37.2	44.3	50.5	56.0	60.6	67.5	70.0	68.8	64.9	61.9	58.2	53.8	48.2	44.8	40.4	35.4	30.3
0.3	Y _{face}	13.3	11.8	10.3	7.7	5.4	3.6	2.2	1.2	0.2	0.0	0.2	0.8	1.6	2.7	4.3	6.5	7.8	9.5	11.9	15.8
	Y _{back}	17.5	20.6	24.2	31.3	37.8	43.5	48.7	53.0	59.7	61.9	60.7	56.8	54.4	51.2	47.2	41.9	38.6	34.5	29.8	23.5
0.4	Y _{face}	7.3	6.0	4.8	3.1	2.0	1.1	0.6	0.2	0.0	0.0	0.0	0.2	0.4	0.9	1.7	3.0	3.9	5.1	6.9	10.2
	Y _{back}	11.3	14.5	17.9	24.6	31.1	36.7	42.0	46.1	52.0	53.8	52.5	48.9	46.4	43.3	39.4	34.3	31.1	27.1	22.8	17.1
0.5	Y _{face}	2.2	1.8	1.4	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8	1.3	2.0	3.1	5.1	8.1
	Y _{back}	6.1	9.6	13.0	19.6	25.8	30.9	35.6	39.2	44.1	45.6	44.5	41.2	38.8	35.8	31.8	26.8	23.7	20.1	16.0	11.0
0.6	Y _{face}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.2
	Y _{back}	3.8	7.0	10.1	15.9	21.0	25.4	29.2	32.2	36.2	37.5	36.5	33.6	31.3	28.4	24.7	20.1	17.4	14.1	10.4	6.3
0.7	Y _{face}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Y _{back}	3.5	6.1	8.4	12.8	16.7	20.1	22.9	25.2	28.3	29.4	28.6	26.0	24.0	21.4	18.3	14.6	12.5	10.1	7.3	4.2
0.8	Y _{face}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Y _{back}	3.2	5.0	6.7	9.7	12.4	14.8	16.8	18.4	20.5	21.3	20.6	18.6	17.1	15.2	12.9	10.3	8.8	7.2	5.5	3.6
0.9	Y _{face}	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Y _{back}	3.2	4.2	5.1	6.8	8.3	9.6	10.7	11.5	12.7	13.1	12.7	11.5	10.7	9.6	8.3	6.8	6.0	5.1	4.2	3.2

PROPELLER PROFILE : WAGENINGEN B-SERIES

MATERIAL : Ni-Al-Br. Cu3 (PROPELLER & PROPELLER BOSS)

NUMBER OF PROPELLERS : 02

NOTE : PORT PROPELLER ROTATING COUNTERCLOCKWISE
STBD PROPELLER ROTATING CLOCKWISE

THE DRAWING TO BE READ IN CONJUNCTION WITH DRG. NO. P008-403 - PROPELLER SHAFTING (SH. 1 & 2)

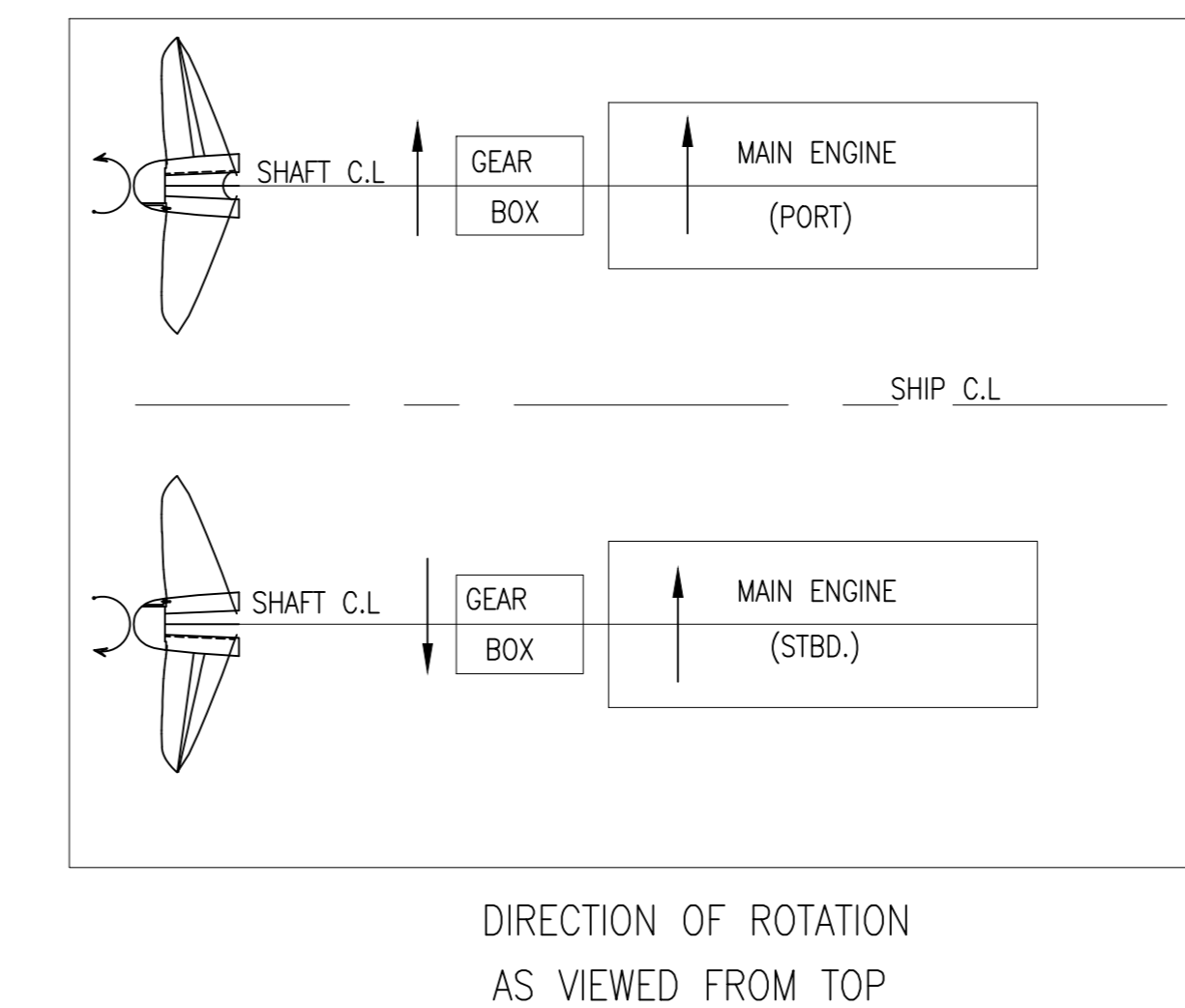
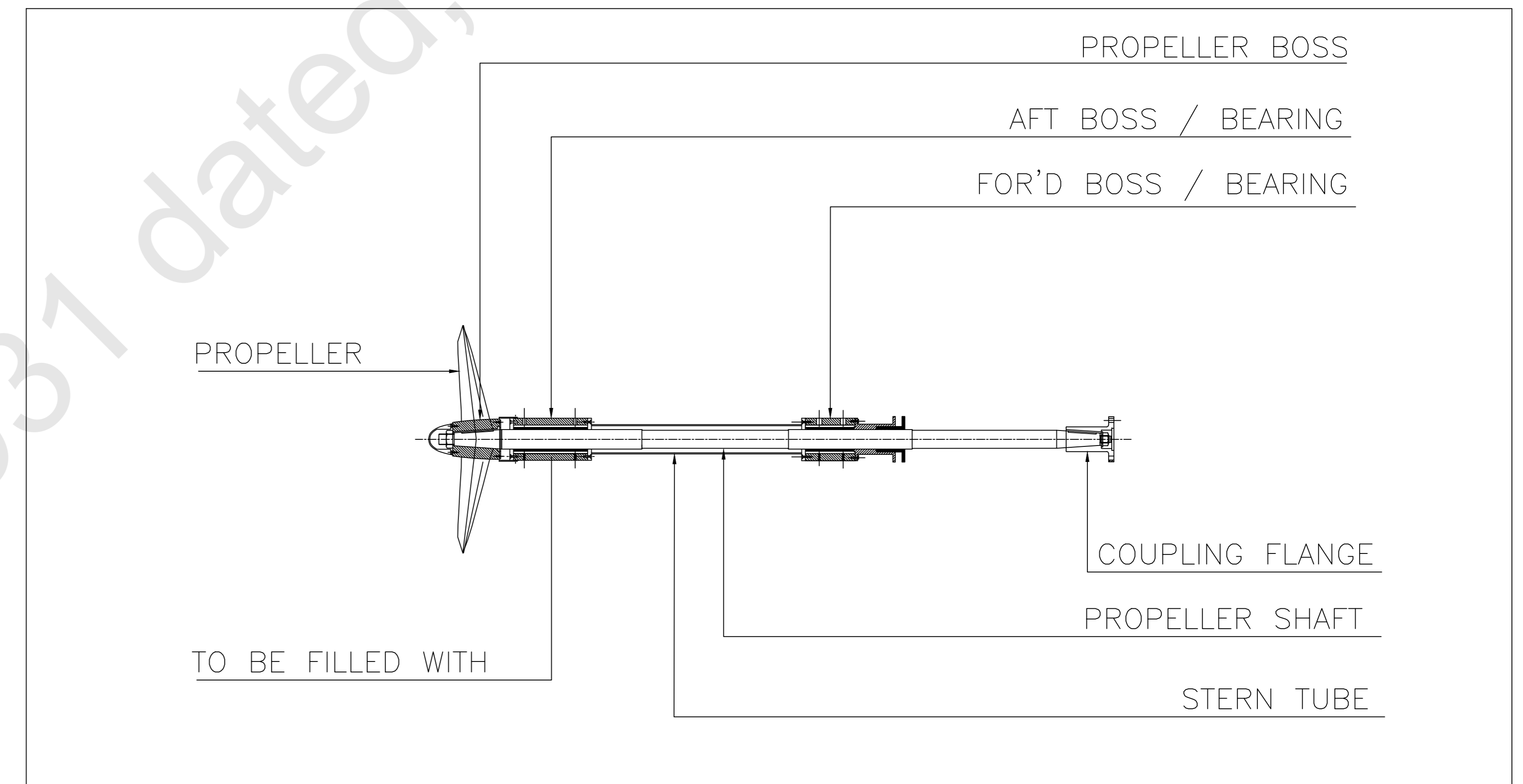
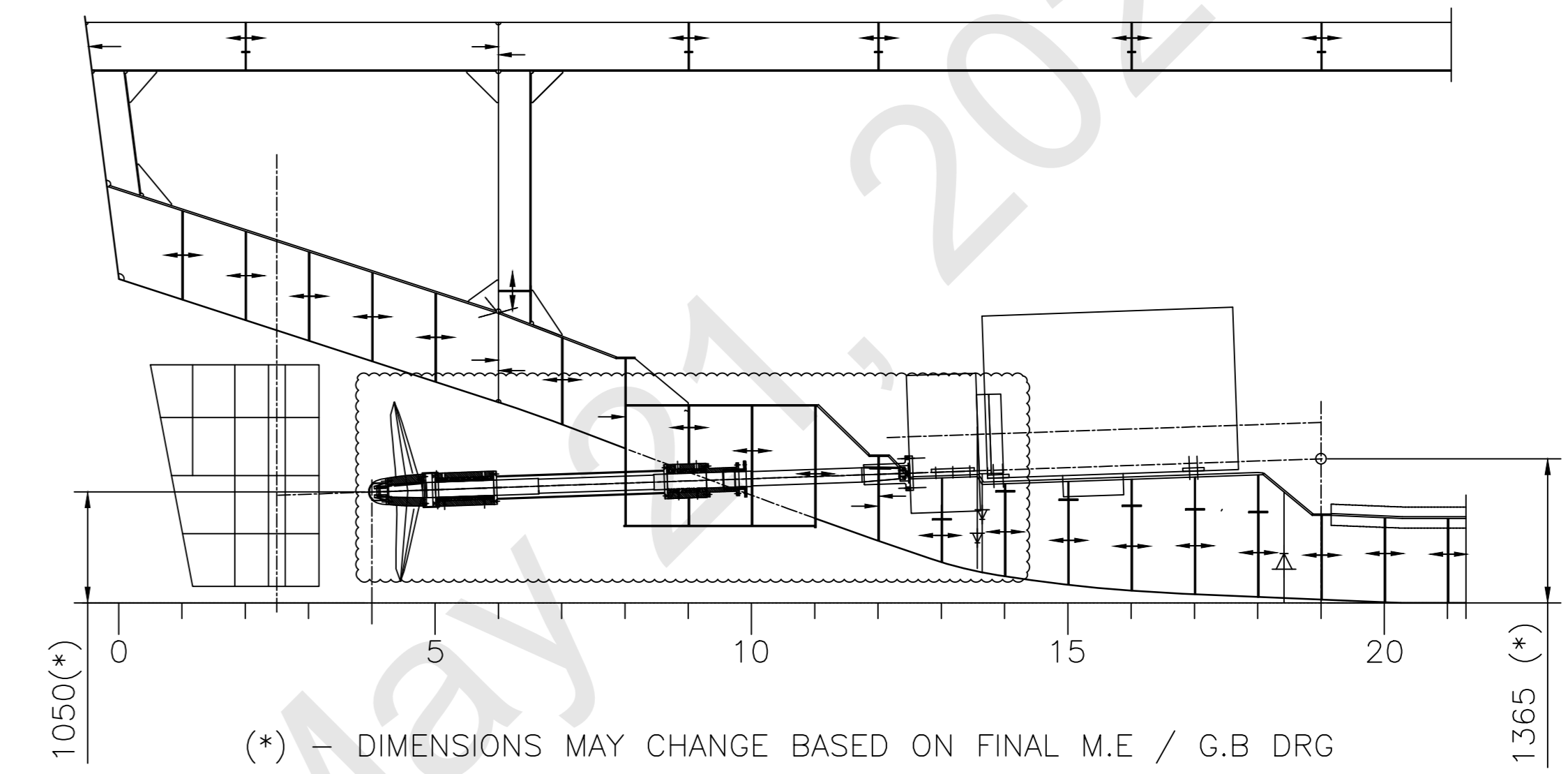
REV	MODIFICATION	BY	CHK'D	DATE
A	PROPELLER HUB MODIFIED TO SUIT MODIFIED SHAFT DIA	SC	JR	17.07.23
PROJECT : 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL				
TITLE : PROPELLER DRAWING				
DRAWN BY : JR		DRG NO : P008/105		SCALE : 1 : 10
CHECKED BY : JR		SHEET : 1 OF 1		SIZE : A2
		DATE : 07/04/2023		REV. : A
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CLIENT : JAK MARITIME & LOGISTICS PRIVATE LIMITED.				HULL NO. : 004/22004
BUILDER : HOOGLY COCHIN SHIPYARD LIMITED				
DESIGNER : Maritcons Private Limited				
TEL : (+91)9007227123 webmail.maritcons.com				

PART LIST

ITEM	PART NAME	DESCRIPTION	QTY	REMARKS
1	PROPELLER SHAFT	SS 316L, TS-515 N/MM2	2	-
2	PROPELLER BOSS	Ni-Al-BRONZE - Grade Cu3	2	-
3	PROPELLER CONE	Ni-Al-BRONZE - Grade Cu3	2	-
4	PROPELLER NUT, M90	FORGED STEEL, TS-440N/MM2	2	PER BS 3643
5	PROPELLER SHAFT KEY (AFT)	STAINLESS STEEL, TS-515 N/MM2	2	ROUND ENDED TYPE
6	ROPE GUARD	MILD STEEL	2	-
7	O-RING CLOSING PLATE	FORGED STEEL, TS-440N/MM2	2	-
8	AFT BEARING	CUTLESS BEARING	2	CLASS APPROVED TYPE
9	AFT BOSS	FORGED STEEL, TS-440N/MM2	2	-
10	AFT BOSS AFT CIRCULAR PLATE	FORGED STEEL, TS-440N/MM2	2	
11	AFT BOSS FWD CIRCULAR PLATE	FORGED STEEL, TS-440N/MM2	2	
12	FWD BOSS	FORGED STEEL, TS-440N/MM2	2	-
13	FWD BEARING	CUTLESS BEARING	2	CLASS APPROVED TYPE
14	FWD BOSS AFT CIRCULAR PLATE	FORGED STEEL, TS-440N/MM2	2	
15	LOCK NUT, M90	FORGED STEEL, TS-440N/MM2	2	
16	STUFFING BOX	MILD STEEL	2	
17	GLAND PUSHER	GUN METAL	2	
18	STERN TUBE OD. 219 mm X 8.18 MM THK.	M.S. GR.-A	2	
19	COUPLING FLANGE, PROPELLER SHAFT GB END	FORGED STEEL, TS-515N/MM2	2	CONFORM TO IS2985
20	PROPELLER SHAFT KEY (GEAR BOX END)	STAINLESS STEEL, TS-515N/MM2	2	ROUND ENDED TYPE
21	ROUND NUT FOR COUPLING FLANGE	FORGED STEEL, TS-440N/MM2	2	∅ 56 MM, AS PER BS3643

LIST OF FASTENERS

ITEM	PART NAME	DESCRIPTION	QTY	REMARKS
31	HEXAGONAL BOLT FOR O-RING CLOSING PLATE	STAINLESS STEEL, TS-440N/MM2	12	M8X32
32	SOCKET CAP SCREW FOR CONE	STAINLESS STEEL, TS-440N/MM2	12	M8 X 40
33	SCREW (AFT BOSS)	STAINLESS STEEL, TS-440 N/MM2	24	M16X65 (SOCKET CAP SCREW)
34	SCREW (FWD BOSS)	STAINLESS STEEL, TS-440N/MM2	24	M12X58 (SOCKET CAP SCREW)
35	GEAR BOX COUPLING FIT BOLTS & NUT	BS970, EN 8	16	M20.5 (TO MATCH FLANGES)
36	HEXAGONAL BOLT WITH NUT FOR GLAND PUSHER	STAINLESS STEEL, TS-440N/MM2	2	M16X100



MATERIALS TO BE MANUFACTURED AND TESTED IN ACCORDANCE WITH THE RULES OF THE SOCIETY
SEE LETTER E-178927-295931

APPROVED
DATE: 21 May 2024
INDIAN REGISTER OF SHIPPING
MUMBAI

PLAN(S) NOW SENT SUPERSEDE THE APPROPRIATE PLAN(S) PREVIOUSLY APPROVED/NOTED ON 28th. Aug 2023

- NOTES:**
- ALL DIMENSIONS ARE IN MM
 - THE MAXIMUM M.E. POWER IS 850 HP AT 1800 RPM
 - GEARBOX RATIO IS 1:3.94
 - THE DIRECTION OF THREADS ON THE PROPELLER SHAFT AND LOCKING NUT ARE GIVEN FOR PORT SIDE SHAFTING STARBOARD SIDE SHAFTING WILL BE REVERSE
 - DIMENSIONS OF PART 03 (PROPELLER CONE) & PART 05 ARE SUBJECT TO CHANGE TO SUIT FINAL PROPELLER DRAWING
 - SHAFT BEARING TO BE WATER COOLED

REV	MODIFICATION	BY	CHK'D	DATE
D	MODIFIED AS SHOWN IN CLOUD MARK	SP	PM	25-04-24
C	MODIFIED THE SHAFT DIA AND RELATED FITTINGS	SC	JR	12-07-23
B	MODIFIED THE AFT AND FWD BEARINGS	AS	JR	11-02-23

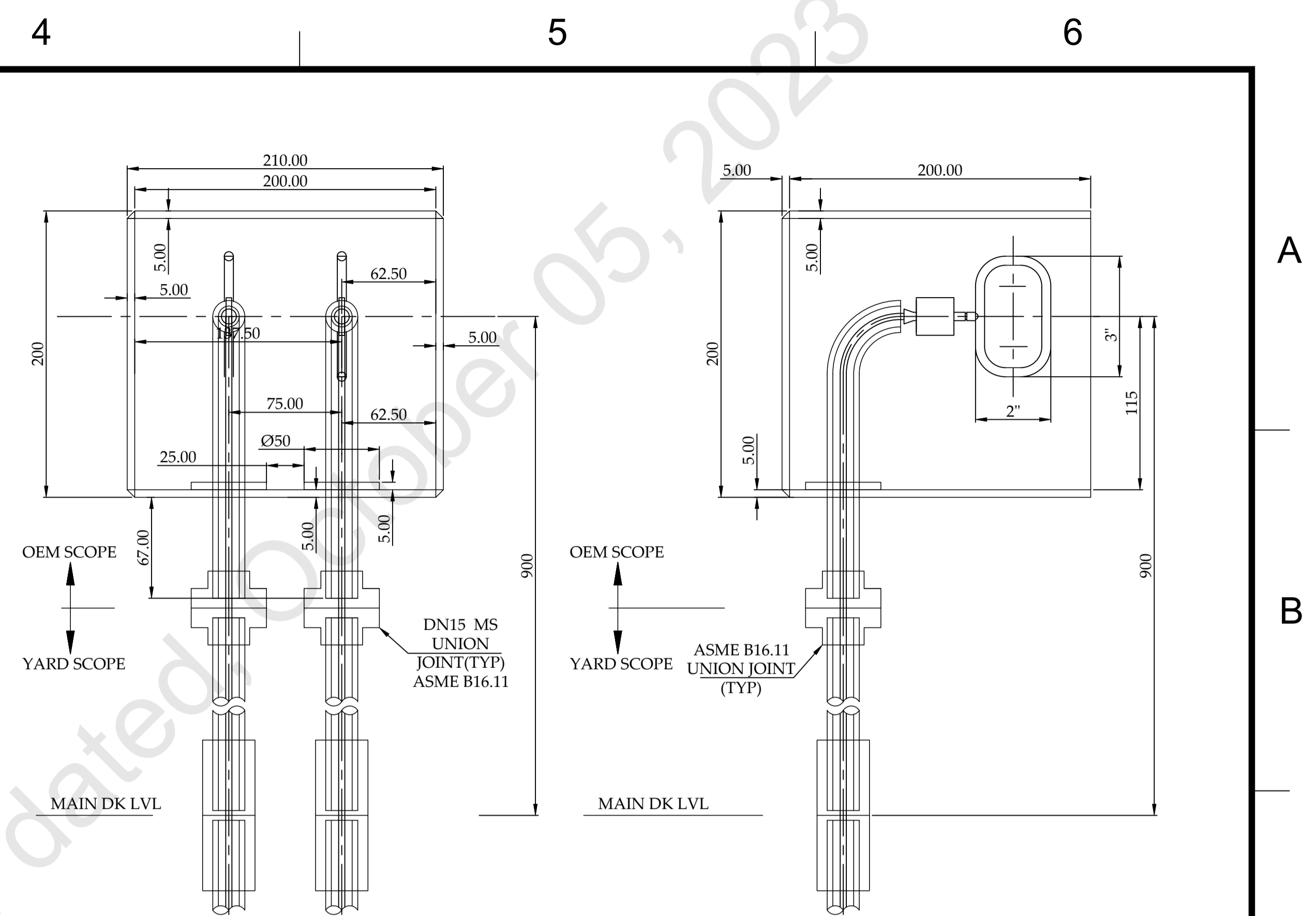
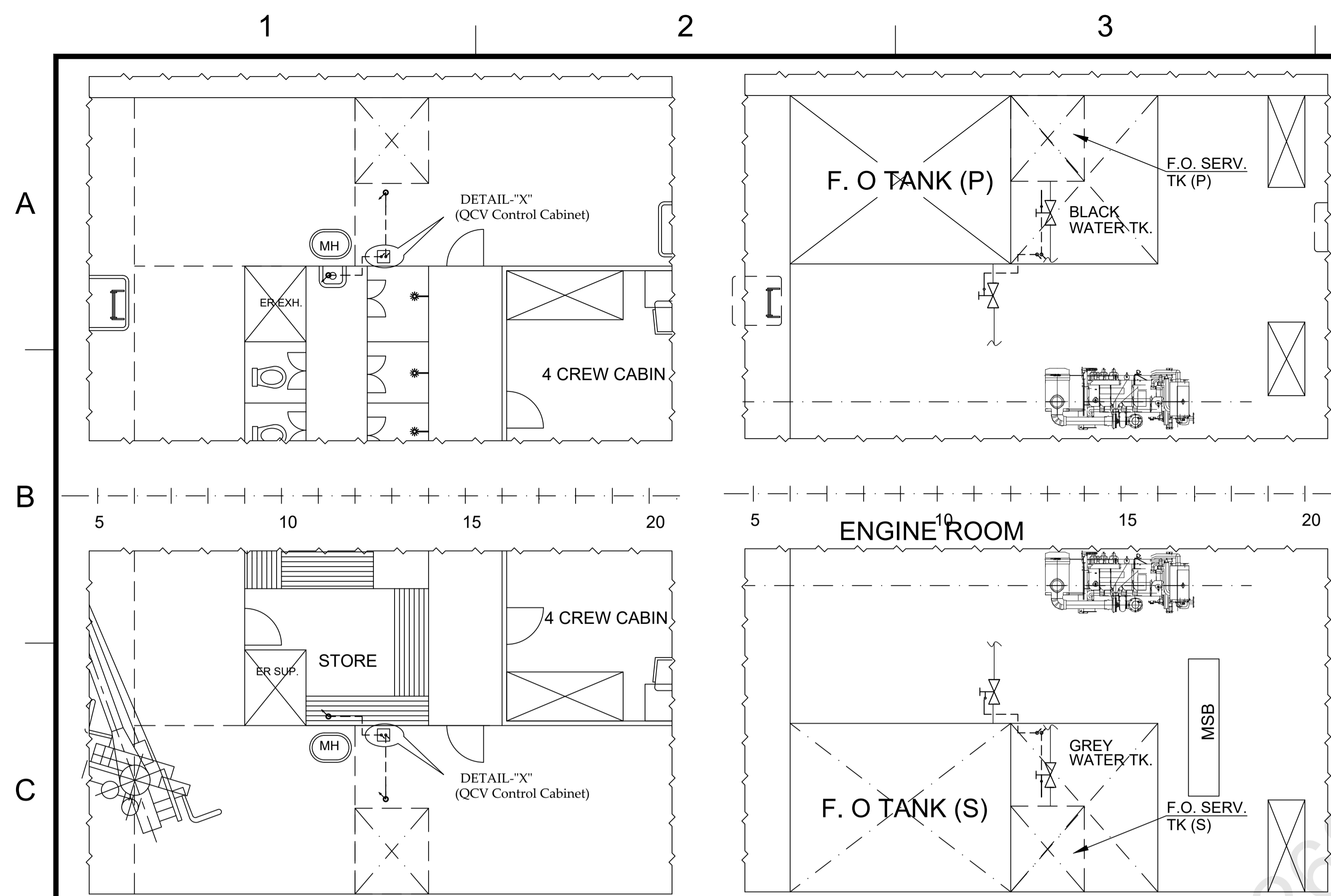
PROJECT: 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL

TITLE: PROPELLER SHAFTING - ARRANGEMENT & DETAIL

DRAWN BY: AS DRG NO: P008/403 SCALE: 1 : 100
 CHECKED BY: JR SHEET: 01 OF 02 SIZE: A0
 DATE: 07/02/2023 REV.: D

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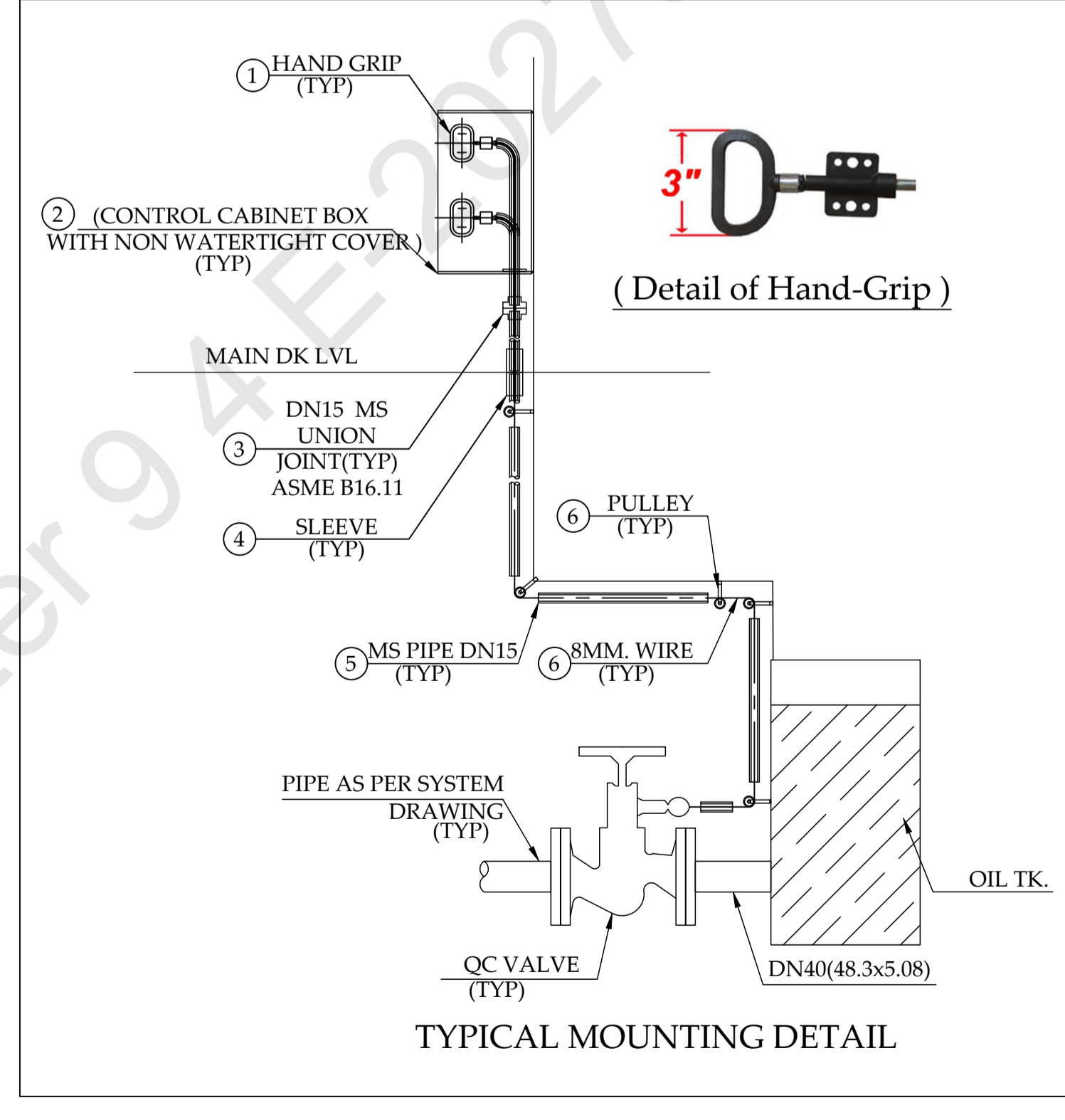
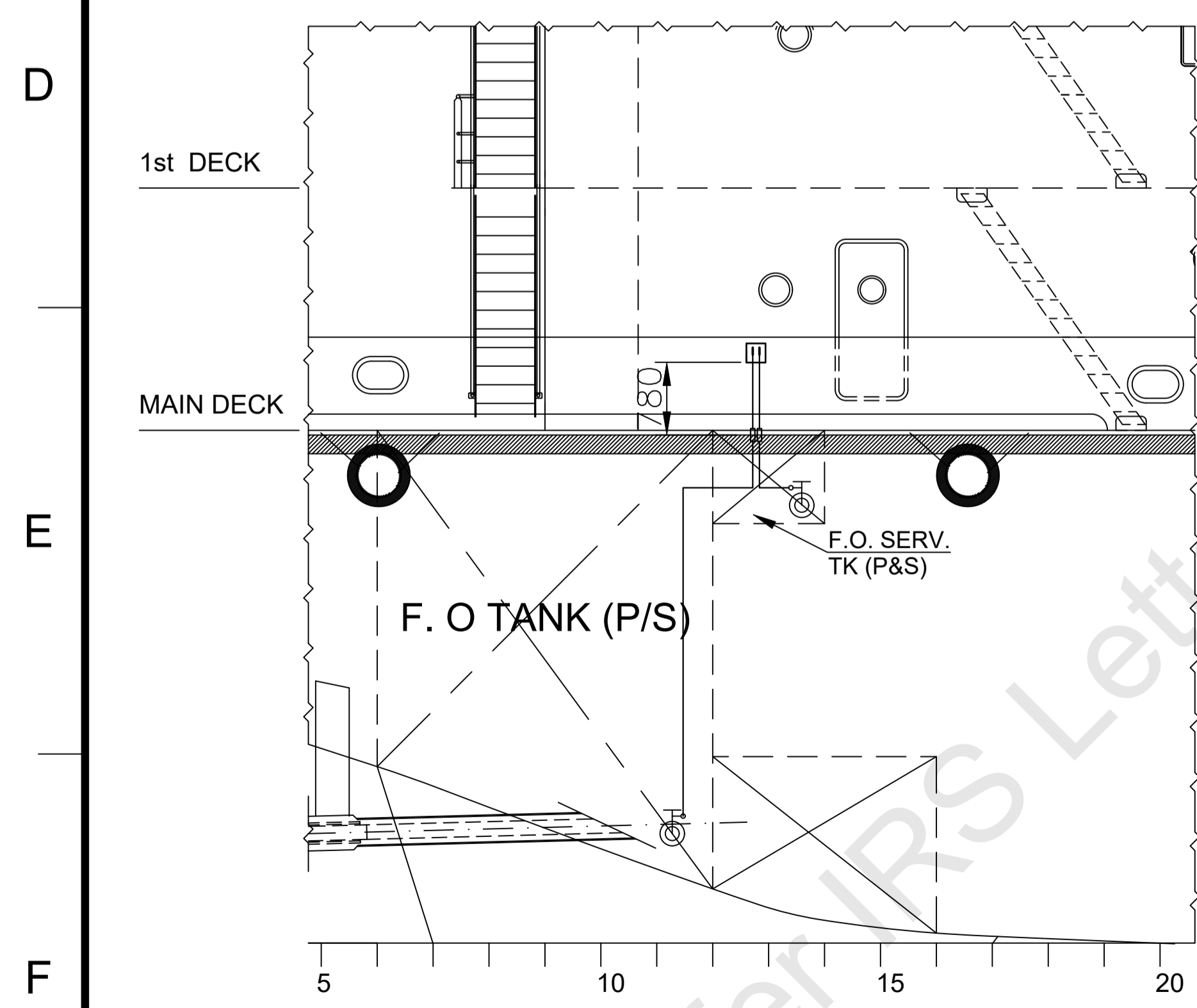
CLIENT: JAK MARITIME & LOGISTICS PRIVATE LIMITED. HULL NO. 004/22004
 BUILDER: HOUGHLY COCHIN SHIPYARD LIMITED
 DESIGNER: Maritcons Private Limited
 TEL: (+91)9007227123 webmail.maritcons.com



SL. NO.	QCV NO.	NB SIZE	QTY.	SYSTEM NAME	TANK NAME
1	FOV1.1	40	1	FO SYSTEM	FO STORAGE TK (P)
2	FOV1.2	40	1	FO SYSTEM	FO STORAGE TK (S)
3	FOV1.3	40	1	FO SYSTEM	FO SERVICE TK (P)
4	FOV1.4	40	1	FO SYSTEM	FO SERVICE TK (S)

BILL OF MATERIAL

ITEM NO.	DESCRIPTION	QUANTITY	REMARKS
1	HAND GRIP	4 SET	
2	CONTROL CABINET BOX WITH NWT COVER (200Lx200Hx200W)	2 NOS	
3	DN15 MS UNION JOINT	4 NOS.	
4	MS SLEEVE DN15	AS REQUIRED	
5	MS PIPE DN15	AS REQUIRED	
6	8MM. WIRE	AS REQUIRED	
8	PULLEY ASSEMBLY	~30 sets	
9	ALU ANODIZE 1.5 THK PLATE (80mmx56mm)	4 Nos.	



SEE LETTER E-202732-268494

APPROVED
DATE: 04 Oct 2023
INDIAN REGISTER OF SHIPPING
MUMBAI

- NOTES:**
- ALL DIMENSION ARE IN MM. UNLESS OTHERWISE STATED
 - THE PIPING USING FOR QUICK CLOSING VALVE DN15 WITH A WALL THICKNESS OF 2.77MM.
 - ALL THE BOX WILL BE NON WATERTIGHT

REV	MODIFICATION	BY	CHK'D	DATE
PROJECT 2200 TONNE / 128 TEU MULTIPURPOSE VESSEL				
TITLE QUICK CLOSING VALVE ARRANGEMENT				
DRAWN BY : KDG	DRG NO : P008/417	SCALE : NTS		
CHECKED BY : JR	SHEET : 01	SIZE : A1		
	DATE : 21/09/2023	REV. : NIL		
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BUILDER HOOGHLY COCHIN SHIPYARD LIMITED				
DESIGNER Maritcons Private Limited TEL : (+91)9007227123 webmail.maritcons.com				