



## Additional Tender Terms & Conditions

**GEM Bid no GEM/2025/B/6798498**

**Procurement of Stern Tube for 01 TS of ICG Y-16101 Indian Coast Guard**

### 1. **DESCRIPTION & SCOPE OF WORK:**

- (a) **MAIN EQUIPMENT/ITEM/SYSTEM:** Procurement of Stern Tube for Project 01 TS of India Coast Guard. As per SOTR MDL/DR/CGP/TS/2014 rev 01 dt 20.08.2025 section & Drawing No. 1114-01 dated 20.08.2025
- (b) **DOCUMENTATION:** As per SOTR MDL/DR/CGP/TS/2014 rev 01 dt 20.08.2025 para no. 2.2 & Drawing No. 1114-01 dated 20.08.2025

**Note: Bidders shall quote for all line item in the tender, failing of which offer of the firm falls under rejection criteria.**

- 2. **EARNEST MONEY DEPOSIT:** Bidders shall furnish EMD of **Rs. 75,000/- only (Rupees Seventy Five thousand only)** through NEFT / Demand Draft / Pay order / Bank Guarantee / Insurance Security Bond / e-Bank Guarantee drawn in **favour of Mazagon Dock Shipbuilders Limited**.

EMD shall be submitted as per GeM Terms & condition.

EMD exemption will be applicable as per GeM conditions and bidders shall upload valid EMD/EMD Exemption Certificate along with the bid. In case valid exemption certificate is not submitted along with original bid, the offer of the firm will be rejected.

EMD is also exempted for the bidder's permanent registered with MDL. To qualify for EMD exemption, bidder shall upload valid copy of the Registration Certificate issued by MDL, for the tendered items (Toughened Glass Window) for which the offer is being submitted. Firms in the process of obtaining MDL registration will not be considered for EMD exemption.

EMD shall be forwarded to DGM/PE(C-CGP), 5th Floor, New Service Block, North Yard, Mazagon Dock Shipbuilders Limited, Shipbuilding Division, Dock Yard Road, Mumbai-400010, Maharashtra, in sealed envelope super scribing Tender Enquiry No. and Due date, so as to reach us within 7 MDL working days from the tender closing date. The scanned image of EMD shall be uploaded at Part-I tender stage.

**Note:**

- a) EMD of unsuccessful bidders will be returned after finalization of the tender and shall be interest free.
- b) EMD of successful bidders may be converted into performance security or refunded on receipt of performance security. The returned / refunded EMD would be interest free.

**MDL BANK DETAILS:**

Name of Bank A/C Holder: Mazagon Dock Shipbuilders Limited

Bank and Branch: State Bank of India, Commercial Branch, Fort, Mumbai-400023

Type of Account: Current Bank

Account No: 11079519138

IFSC Code: SBIN0006070

Swift Code: SBININBB101

PAN No.: AAACM8029J

MDL GST: 27AAACM8029J1ZA

**Offers with non-submission of EMD shall be categorically rejected other than exempted category.**

### 3. **PRE-QUALIFICATION CRITERIA:**

**Technical PQ Criteria:**



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"Firm should have past experience of having executed Steel Castings of weight IT or above, and Heavy Engineering Jobs requiring rolling of plates for forming Pipes/Tubes/Cylinders etc. Firm shall submit the relevant PO, Weight certificate, work completion certificate etc. as a proof of successful/ execution.

### **Commercial Qualification Criteria for Goods:**

The average annual financial turnover of 'The bidder' during the last three years, ending 31st March (or any other year ending followed in relevant country) of the previous financial year excluding the calendar year of tendering should be at **INR 5,00,000** /- as per the annual report (audited balance sheet as applicable and profit and loss account) of the relevant period, duly authenticated by a Chartered Accountant/Cost Accountant in India or equivalent in relevant countries.

### **4. VALIDITY PERIOD OF OFFER:**

- I. Bid / Offer shall have the validity period of **180 days** from the tender closing date.
- II. In case the day up to which the bids are to remain valid falls on/ subsequently declared a holiday or closed day for MDL, the bid validity shall automatically be deemed to be extended upto the next working day.
- III. In exceptional circumstances, before the expiry of the original time limit, MDL may request the bidders to extend the validity period for a specified additional period. The request and the bidders' responses shall be made in writing or electronically. A bidder may agree to or reject the request. A bidder who has agreed to MDL's request for extension of bid validity, in no case, he shall be permitted to modify his bid.

### **5. BID REJECTION CRITERIA**

- (a) **Categorical rejection criteria:** The following conditions / deviations are non-negotiable and therefore any bid falling under these conditions / deviations shall be summarily rejected. Bidders to note that they shall not be provided any opportunity to rectify these conditions / deviations post **Part-I bid opening:**

- I. Bids received after tender closing date and time.
- II. Bids received other than through GEM portal (in case of GEM tender)
- III. Bidders who are debarred under PPP MII order 2017, GeM, CPPP including Tender holiday issued by MDL.
- IV. Bids received without EMD (other than those who are exempted from payment of EMD).

- (b) **Liabe rejection criteria:** Non-compliance/non-acceptance to any of the terms and conditions of the tender.

### **6. SUBMISSION OF OFFER IN TWO BID SYSTEM:** Offer must be submitted in two parts as follows:

- a) **Part I (Techno Commercial Bid)**: The bidder shall ensure following are essentially included in the Part-I bid:

- (i) Technical & Commercial offer.
- (ii) Pre-qualification documents.
- (iii) Valid MSME Udyam Certificate, MDL Registration Certificate & ISO Accreditation Certificate (If applicable),
- (iv) Taxes and duties certificate for which they are registered.
- (v) Compliance Certificate w.r.t. Land Border Clause
- (vi) Blank rate sheet indicating quoted/not quoted against each line item, tax percentage, type of taxes for each line item in terms of percentage of total quote.
- (vii) PO copies along with Work completion certificate proof for technical pre-qualification criteria.



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- (viii) Declaration of “Local Content as specified in the tender.
- (ix) Bidder contact details as per attached enclosure” Contact Details of the bidder
- (x) Bidders are required to provide 02 set hard copies of Techno-Commercial Offer to MDL within 07 days from date of closing of tender addressed as under:
- HOS (SB-Design -Structural)  
K.A. – Mr. Abdusalam, M (SB-Design - Structural)  
3rd Floor, West Block  
Mazagon Dock Ship Builders Limited  
Dockyard Road, Mumbai 10

**Note: In any case, prices are not to be mentioned in Part-I bid.**

- b) **Part-II (Price Bid):** Prices for each of the listed items has to be uploaded on GEM.

7. **DELIVERY PERIOD/COMPLETION SCHEDULE:**

- (a) Delivery Period / Contract Period: Delivery/contract period from the date of PO placement shall be as tabulated below:

Details Yard	Stern Tube
16101	PO + 04 months

- (b) The delivery dates mentioned against each line item/service in SAP tender are for indicative purpose.

8. **Pricing:**

- (a) Prices of all items/services shall be quoted for delivery of the items/services to the following destination including Charges towards inland transportation, insurance, and other local costs incidental to the delivery of the Goods/Services.

Items/services	Delivery/Work Address
Stern Tube	MDL Anik Chembur (AIND) bond store

- (b) The prices quoted shall remain firm and fixed during the currency of the order / contract unless agreed otherwise by MDL.
- (c) **Price Variation Clause: (For Goods & Services):** Not Applicable

9. **WARRANTY/GUARANTEE:**

- (a) The equipment / item along with associated auxiliaries/components supplied shall be warranted / guaranteed for satisfactory Performance for the period of Twenty (20) months from the date of delivery of equipment or 12 months after planned delivery of the ship whichever is later.
- The tentative planned delivery of ships are as follows:

Yard	Delivery date of ship
16101	December 2026

- (b) The Supplier cannot absolve their responsibility for warranty of material even though it is inspected by & approved by the inspection authorities.
- (c) If the defects are not remedied within a reasonable/stipulated time, MDL may proceed to rectify the defects at the supplier's risk & cost, but without prejudice to MDL's rights under the contract.
- (d) During the period of warranty / guarantee if any defect noticed in the equipment / item supplied, the supplier/ contractor will have to rectify such defects immediately at no extra cost to MDL.

10. **PERFORMANCE SECURITY (EPBG):** Separate Performance Security for an amount equal to 5% of single order value (Including taxes, duties) payable in Indian Rupees shall be submitted as per Gem portal.

11. **PRESERVATION & PACKING:** NA



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12. **TAXES & DUTIES:** To be included in the submitted quote, as per GEM & Govt. guidelines. Custom Duty: Not reimbursable.

13. **CONSIGNEE:-**

- (a) Material scheduled for delivery are to be delivered at MDL (MDL Anik Chembur (AIND) bond store located in Mumbai)  
**Note:-**In order to avoid inconvenience during the delivery of material, it is advisable for supplier to depute their representative in their own interest to coordinate the activities between the transporter, and MDL stores.
- (b) Following document should be submitted along with material:
  - PO copy & subsequent amendments issued to it, if any.
  - Inspection Release Note (IRN) issued by nominated inspection officer.
  - Delivery Challans clearly indicating MDL Purchase Order No, Inspection Note Details and Packing List co-relating the items in the inspection report.
  - Copy of Warranty Certificate, Preservation Certificate etc.
  - Technical documentation, if applicable.
  - E-Way bill (if applicable) details are to be submitted during the delivery of the items.
- (c) Unloading of the equipment/ items will be arranged by MDL. In case of delivery of Large/ Bulky/ Heavy consignments, supplier is required to give 2 to 4 day's advance intimation to MDL clearly indicating approx. dimensions and weight of consignments for arranging fork lift/crane for unloading.

14. **INSPECTION:**

**Binding Drawing & QAP Approval:** As per SOTR

MDL rep will witness the pattern inspection at firms' premise.

MDL shall submit the Class approved manufacturing drawings post placement of order and vendor shall submit the QAP for approval to ABS & IRS within 2 weeks of placement of order. Vendor shall be completely responsible for approval of QAP from ABS & IRS within stipulated time. A copy of class approved drawing is to be submitted by MDL for CGHQ approval.

The QAP indicating various stages of inspection (including pattern inspection) should be prepared by the firm in consultation with ABS & IRS and the same will be made forwarded to MDL for review and comments. MDL shall submit the comments on drawings & QAP if any within 1 week.

Receipt inspection shall be done by MDL-QC and CGRPT (Mumbai) on receipt of Stern Tube in stores in the presence of OEM rep to verify completeness of the scope of supply and intactness of the supplied equipment. Defective / damaged parts and deficiency, if any, in supply shall be made good by OEM free of cost. OEM shall be intimated the date of receipt inspection.

**For Goods:** As per SOTR cl nos 2.3–**ABS & IRS**. Inspection Charges to be borne by Vendor.

**Receipt Inspection:** - MDL Inspection dept & CGPRT (Mbi).

Other general conditions related to inspection of material are as under:

- (a) The decision of the Inspecting Authority or their representatives, as the case may be, on any question of the intent, meaning and the scope of Specifications / Standards shall be final, conclusive and binding on the Bidder/ Supplier / Contractor.
- (b) **For Indian Bidders, the Third Party Inspection (TPI) charges shall be borne by Vendor. These charges shall be included in bidder's quote.**
- (c) The testing charges for samples should be borne by the supplier and this should be made clear at the enquiry stage itself to avoid claims at a later date/or effect on his position in comparative statement of offers. Any special testing involving financial implications shall be settled prior to placement of the order and such cost should form part of the evaluation.
- (d) **Receipt Inspection:** MDL & CGPRT(Mbi) shall carry out necessary inspection of the items on receipt in the MDL on the basis of appropriate MDL Inspection system requirements & the Inspection documents submitted by suppliers. Any objection raised by MDL inspection team against quality of material or workmanship shall be satisfactorily corrected by the supplier at his



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expenses including replacement as may be required within shortest possible time within 30 days. Items damaged during transit shall also be rectified or replaced by the supplier within shortest possible time.

- (e) **Rejection of the material:** Any portion of the equipment found defective/rejected, the supplier shall collect the same at his cost from the MDL Yard, all incidental charges being born by supplier, (inclusive of custom duty, if payable), within 30 days from the date of intimation to the supplier of such rejection. The MDL reserves the rights to dispose-off the rejected item at the end of a total period of 90 days in any manner, to the best advantage to the MDL & recover storage charges & any consequential damages, from sale proceeds of such disposal.

### 15. PAYMENT TERMS:

(a) **Main Equipment, Documentation**

- (i) On receipt of Invoice, 95 % of Payment shall be made within 15 days from generation of Consignee Receipt & Acceptance Certificate(CRAC) of material and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any plus 100% taxes, duties etc. as applicable.
- (ii) Payment of the balance of the value of the supplies may be payable and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any, on submission & confirmation of PS of equivalent amount valid up to warranty period plus 60 days.

(b) **Services/Training:** NA

(c) **Warranty Extension (If applicable):** NA

### 16. INTEGRITY PACT (IP): NA

### 17. EXCHANGE RATE VARIATION:

- (a) ERV clause is applicable where the delivery period is more than one year (One-year period shall be from date of order) and there is FE content.
- (b) F.E. Elements: **Indigenous bidders quoting imported component should clearly state** Base Exchange rate for each such foreign currency used for converting the foreign exchange content into Indian Rupees **and FE content. The allowed foreign currency for quoting FE content are USD, GBP and EURO.**
- (c) To work out the variation due to changes (if any) in the exchange rate(s), the base date for this purpose will be the due date of opening of tenders. The variation may be allowed between the above base date and exchange rate applicable on the date of Bill of lading/contractual delivery if bill of lading is delayed whichever is earlier. ERV shall be reimbursed subject to submission of proof and limited to FE content in their offer/actual whichever is less.
- (d) The applicable exchange rates as above will be according to the TT selling rates of exchange as quoted by authorised exchange bankers approved by RBI on the dates in question
- (e) Please note that no upward revision in F.E. content, once specified in the order based on your quote will be entertained.
- (f) FE variation up to +/- 2.5% to be absorbed by either side. FE Variation only on the percentage beyond +/- 2.5% (i.e. upward and downward) at the time of actual import shall be reimbursed/recovered by MDL. for e.g. if there is an FE variation of +/- 8%, then only +/-5.5% shall be reimbursed/recovered by MDL.
- (g) No ERV shall be payable on the portion of contract price paid to the contractor as an interest free advance.
- (h) Wherever stage payment, if any, is allowed with reference to procurement of bulk material, ERV will be limited to the date of such procurement or upto a date three months before scheduled delivery whichever is earlier.
- (i) Any increase or decrease in the customs duty by reason of the variation in the rate of exchange in terms of the contract will be to the buyer's account. In case the delivery period is revised/ extended, ERV will not be admissible, if this is due to the supplier's



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default; however, ERV benefits arising out of downward trends should be passed on to MDL.

(i) Following documents are required for claiming ERV.

- A bill of ERV claim enclosing worksheet.
- Banker's Certificate / debit advice detailing FE paid & Exchange rate, date of the transaction.
- Copies of import orders placed on the suppliers.
- Invoice of supplier for the relevant import orders

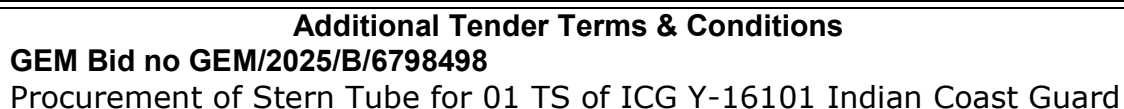
18. **CONTACT DETAILS FOR QUERIES:** In case of any clarifications regarding tender condition/specification, bidders are requested to contact the following person, before the closing date of the tender.

<b>Design Dept.</b>	Mr. Vinit Wagh, DGM/PE(D-CGP)	+91 22 2376 3017	<a href="mailto:vswagh@mazdock.com">vswagh@mazdock.com</a>
	Mr. Abdusalam.T, M (SB-Design - Structural)	+91 22 2376 3364	<a href="mailto:athaniveppil@mazdock.com">athaniveppil@mazdock.com</a>
<b>Commercial Dept.</b>	Mr. D S Chavan, DGM /PE(C-CGP)	+91 22 2376 2782	<a href="mailto:dschavan@mazdock.com">dschavan@mazdock.com</a>
	Ms Shipon Sarkar, M(C-CGP)	+91 22 2376 2765	<a href="mailto:sssarkar@mazdock.com">sssarkar@mazdock.com</a>

19. We look forward to receive your most competitive and reasonable offer against this tender.

Yours faithfully,

**For MAZAGON DOCK SHIPBUILDERS LIMITED**



### RTGS Format- Annexure I (ILLUSTRATIVE FORMAT)

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[illegible]

**4. Supplier's / Vendor's Complete Postal Address:**

Door No.							Street:										
Location :							District :										
City:							State					PIN					

[illegible][illegible][illegible][illegible][illegible]

These “IFSC” Codes are unique numbers of each Branch – “Indian Financial Services Code”. For some Branches both the codes are the same and some Banks, may maintain one Code No. for RTGS and another Code No. for NEFT. Hence, please fill-up both the rows, even if it is the same.

Saving Bank Account:		Cash Credit Account:		Current Account:	
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We hereby declare that the particulars given above are correct and complete. If the transaction is delayed for reasons of incomplete or incorrect information, we would not hold MDL responsible.

**Date:**                      **Supplier's Seal:**                      **Authorized Signature of the Supplier:**

**Certified that the particulars as per Serial Numbers 2, 7 to 11 are correct as per our records.**

**Date:**                      **Bank's Stamp**                      **Authorized Signature of the Officer of the Bank.**

**Note:** Based on the Illustrative Format as above, the concerned Dealing Officer / HOD(C) may formulate / design the required forms / documents / tender enquiries / registers / STACS / proformas to suit to the requirements on case to case basis in line with the corresponding articles in Purchase Manual Volume-I.





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**Format for Contact Details- Annexure II**

ENCLOSURE TO MDL Tender No: _____											
Name of Bidder: _____											
Address: _____											
Contact Number: _____											
email id: _____											
Details of Authorised Representatives; (Three Levels)											
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**ANNEXURE-C-1**

**ACTUAL LOCAL CONTENT CERTIFICATE**  
**(Tender value Less than Rs 10 Crores)**

Note 1: This certificate shall be submitted by the successful bidder post execution of the contract.

**LOCAL CONTENT DECLARATION (post execution of contract / PO) BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF CONTRACT No./ PO No.....**  
**ISSUED BY: (Name of Firm):.....**

NB: The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, ..... (full names),  
do hereby declare, in my capacity as .....  
of ..... (name of bidder entity),  
that:

- (a) The facts contained herein are within my own personal knowledge.  
(b) My/our company had declared the local content at the time of tender as under

Tender Item Sr No	Local content calculated as above %	Location of local value addition

- (c) My / our company has completed the above referred contract and the actual local content of the delivered item/s calculated using the definition in the declaration given at the time of Bid is as under:

Tender Item Sr No	Declared minimum Local content at the time of bidding (%)	Achieved Local content of delivered items (%)

NB: Local content percentage shall strictly be declared item wise or tender wise as was declared at the time of bid / tender.

- (d) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. I undertake to retain the relevant documents for 7 years from date of execution.

- (e) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to Make in India) Order 2017, may result in the Procurement Authority / Nodal Ministry / MDL imposing any or all of the remedies as provided for in Clause 9 of the Revised Public Procurement (preference to Make in India) Order 2017 dated 16.09.2020.

**SIGNATURE: \_\_\_\_\_**

**DATE: \_\_\_\_\_**

**Stamp / Seal of the company**



**Annexure-B-1**

**DECLARATION CERTIFICATE FOR LOCAL CONTENT**  
**(Tender value Less than Rs 10 Crores)**

This declaration must form part of all tenders & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt. Directives applicable in respect of Local Content & prescribed tender conditions).

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF BID/ TENDER No:** .....

**ISSUED BY** (Name of Firm): .....

NB: The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

I, the undersigned, ..... (full names),

do hereby declare, in my capacity as ..... of

.....(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have read and understood the requirement of local content (LC) and same is specified as percentage calculated in accordance with the definition provided at clause 2 of revised Public Procurement (preference to Make in India) Order 2017

“Local content” as per above order means the amount of value added in India which shall be the total value of items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent.”

- (c) I have satisfied myself that the goods/services/works to be delivered in terms of the above specified bid comply with the local content requirements as specified in the tender for ‘Class-I Local Supplier’ / ‘Class-II Local Supplier’, and as above.

(d)

i) I seek benefits against the following policy only:

1) PPP MSE Order 2012

2) PPP MII 2017



(e) The local content calculated using the definition given above are as under:

Tender Item Sr. No.	Local content calculated as above %	Location of local value addition

Attach separate sheet duly signed if the space not sufficient.

NB: Local content percentage shall be declared item wise or tender wise strictly as per the terms of the tender.

(f) I accept that the Procurement Authority / Institution / MDL / Nodal Ministry has the right to request that the local content be verified in terms of the requirements of revised Public Procurement (preference to Make in India) Order 2017 dated 19.07.2024 and I shall furnish the document / information on demand. Failure on my part to furnish the data will be treated as false declaration as per PPP MII Order 2017. In case of contract being awarded, I undertake to retain the relevant documents for 7 years from date of execution.

(g) I understand that the submission of incorrect data, or data that are not verifiable as described in revised Public Procurement (preference to Make in India) Order 2017, may result in the Procurement Authority / Nodal Ministry / MDL imposing any or all of the remedies as provided for in Clause 9 of the Revised Public Procurement (preference to Make in India) Order 2017 dated 19.07.2024.

**SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**Seal / Stamp of Bidders**

**BLANK RATE SHEET FOR GEM/2025/B//6798498 (PROCUREMENT OF STERN TUBE Yard- 16101 TS SHIPS ICG)**

**Note:**

1) Bidders are requested to indicate Quoted/ Not Quoted as applicable against each line item & upload this blank rate sheet along with Part1 of their offer. The actual prices are to be quoted in the online BOQ (price bid) only.

2) For details of Delivery Schedule, Please refer the Tender Enquiry form attached with the Tender.

book contains one sheet. Bidders are requested to fill and submit blank rate sheet as per format provided only

3) This Excel work

Bidder Name													
ITEM NO	Line item No as Per PR	MATERIAL DESCRIPTION	Total Qty	UNIT	Yard No	Currency in which prices are quoted	Basic Unit Rates	Type of GST e.g.IGST/CGST and SGSTetc.	GST (in %)	HSN Code	FE content in % (Excluding taxes and duties)	Currency for which FE % is quoted.	
1	10	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/TS/2014 and Drawing No. 1114-01 (Y16101)	1	SET	16101								
2	20	Documents for Stern tube as per the SOTR MDL/DR/CGP/TS/2014 and Drawing No. 1114-01 (Y16101)	1	SET	16101								



**MAZAGON DOCK SHIPBUILDERS LIMITED**  
(A Govt. Of India Undertaking)

**SHIPBUILDING DESIGN STRUCTURAL SECTION**  
**DOCKYARD ROAD, MUMBAI - 400 010**

**STATEMENT OF TECHNICAL REQUIREMENTS**  
**FOR**  
**THE FABRICATION OF STERN TUBE**

<b>PROJECT</b>	<b>:</b>	<b>CGP – Training Ship</b>
<b>MDL YARD NO</b>	<b>:</b>	<b>16101</b>
<b>CLIENT</b>	<b>:</b>	<b>INDIAN COAST GUARD</b>
<b>DOCUMENT NO</b>	<b>:</b>	<b>MDL/DR/CGP/TS/2014</b>

2	2.13.1 Receipt Inspection is updated	17/10/2025	MDL
1	CGHQ comments received vide letter SA/0157/01TS/Hull Eqpt dated 14 Jul 25 are incorporated. Accordingly, section I clause 1.3, 2.2.1, 2.16.1, 3.1, 3.3 and 3.9 are modified. Notes in Para 2.4.6, 3.4.6&3.4.10 is also updated.	20/08/2025	CGHQ/ MDL
0	First Issue	16/06/2025	
Re.	DESCRIPTION	DATE	AUTH.
	Vishnu Dhaked M(D-S)	Dodde Sadanandam CM(D-S)	V S Wagh DGM/ HOS (D-S)
	Prepared By	Checked By	Approved By



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SHIPBUILDERS LTD.  
Dockyard Road, Mumbai  
-400 010.

DESIGN STRUCTURAL

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## SECTION I:

### 1. INTRODUCTION

- 1.1 This General Specifications relate to Design, approval of the equipment by the classification society, Manufacture and Supply of one ship set of Equipment for Training Ship of Indian Coast Guard.
- 1.2 The manufacturer shall not alter the scope of supply or any other aspect governed by this document, without specific concurrence from MDL, even if any other authority (Inspection authority or their resident inspector etc.) seek such alterations.
- 1.3 Class notation for Training Ship is **+A1 (E) (Government Service)+AMS NIBS +ACC, FFV1-NS CS-Ready, HELIDK (SRF)** by ABS or equivalent of **LRS/DNV/GL/BV/IRS/NK**
- 1.4 The reference list of the equipment fitted in Indian or International Navy / Coast Guard or similar platform such as ocean-going vessel, Offshore Platforms and Oil-Rigs to be submitted along with the offer.
- 1.5 The Year of production of equipment and system to be of latest manufacture (during or after Year 2025). This is to confirm to the current production standards and should have 100% of the defined life at the time of delivery.

### 2. GENERAL CONDITIONS & REQUIREMENTS

#### 2.1. Reference Environmental Conditions:

- 2.1.1. The equipment shall be suitable for marine applications and achieve specified performance smoothly under tropical marine conditions.
- 2.1.2. The equipment is to be designed for continuous operation & survival under the environmental conditions specified for ambient conditions as specified table below: -

Sr. No.	Design Parameter	Value
(a)	Air Temperature	Minimum of 5° C and Maximum of 45°C
(b)	Sea water temperature	32°C
(c)	Relative humidity	90% at 35°C
(d)	Atmospheric pressure	750 mm of Hg column (1000mbar)
(e)	Salinity of water	Up to 35000 ppm



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## 2.2. Service life of ship

2.2.1. The ship shall have service life of 25 years with annual exploitation rate up to 4500 hrs.

2.2.2. Various documentation will be submitted by the equipment supplier as per the scope of supply and responsibility. Quality documentation is to be submitted in comprehensive and time bound manner for meeting ship's detailed design and production targets as well as equipment production and delivery schedule. Documentation to be submitted by the equipment supplier are broadly indicated below:

Si. No	Type of Documents / Drawings	Qty/ Yard
(i)	ABS and IRS Class approved QAP	7
(ii)	Inspection Certificates, inspection reports of inspection agency, certified test reports, material test (physical & chemical properties) reports, certificate for dimensional accuracy, Manufacturer's Guarantee certificate, Manufacturer's Ultrasound Test certificate for Entire Stern Tube	6
(iii)	Weight Certificates with position of C.G.	6

2.2.3. All documentation (including documents, drawings, data, reports, manuals, etc.) should be in English language. Dimensional details in the drawings should be as per scale. Technical data and parameters should be in metric units (SI Units).

2.2.4. Following file/formats would be acceptable:

- Documents, data & reports in MS-WORD/EXCEL, as applicable
- Data base files in ACCESS
- Orthographic drawings (2D) in DXF/DWG format
- 3D model of external topography of the equipment only in AVEVA MARINE/.STP format of max size of 5 MB

2.2.5. Above drawings and data are to be submitted in soft copies in latest software version.

2.2.6. Hard documents to be provided suitably grouped, indexed and in moisture proof bound folders.



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### 2.3. Quality Assurance and Testing

2.3.1. Quality assurance and testing requirements, pertaining to this equipment should confirm to standard conditions of quality assurance of ABS and IRS.

2.3.2. During execution of the project, following organizations would be associated for ship design, construction, quality control and Ship trials/acceptance: -

- |     |                 |   |  |
|-----|-----------------|---|--|
| (a) | Design          | : | Shipyard / Nominated Classification society. |
| (b) | Construction    | : | Shipyard and CGRPT Mumbai, at Shipyard.      |
| (c) | Quality Control | : | ABS and IRS Classification society.          |
| (d) | Ship Trials     | : | Indian Coast Guard/Shipyard.                 |

### 2.4. Quality Procedure

2.4.1. Design and production of equipment should conform to the best worldwide engineering practices, for ensuring high quality, reliability, durability, ease of operation and maintenance for meeting the ship's requirements.

2.4.2. During equipment production the equipment shall be subjected to various stage inspections. Equipment supplier shall ensure high quality of production as per approved quality assurance plan. Quality assurance should meet the specified standards and intent of ISO 9001: 2015 (quality management systems) or its latest version.

2.4.3. All equipment/items to be inspected tested & certified by ABS & IRS as per latest rules & regulations of ABS & IRS for stern Tube. Cost for the inspection shall be borne by Vendor. All inspection report to be submitted along with Stern tube.

2.4.4. Stern tube should be manufactured to the highest quality and should confirm to ABS and IRS rule requirement.

2.4.5. MDL rep will witness the pattern inspection at firms' premise.

2.4.6. MDL shall submit the Class approved manufacturing drawings post placement of order and vendor shall submit the QAP for approval to ABS & IRS within 2 weeks of placement of order. Vendor shall be completely responsible for approval of QAP from ABS & IRS within stipulated time. A copy of class approved drawing is to be submitted by MDL for CGHQ approval.

2.4.7. The QAP indicating various stages of inspection (including pattern inspection) should be prepared by the firm in consultation with ABS & IRS and the same will be made forwarded to MDL for review and



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comments. MDL shall submit the comments on drawings & QAP if any within 1 week.

2.4.8. The final approved QAP and to be submitted to MDL for record.

2.4.9. During equipment production, any deviation to the QAP/finalized specifications/standards shall be brought to the notice of designated classification society and Shipyard/ICG, along with valid reasons and recommended solution, without any compromise on quality, reliability and performance of the equipment.

## 2.5. Maintenance & Logistics

2.5.1. supplier shall ensure high reliability and low maintenance of equipment.

2.5.2. Equipment design should therefore ensure ease of maintenance and accessibility to important sub-assemblies/components/accessories.

## 2.6. Materials

2.6.1. A component wise material list (with specifications) is to be provided by the equipment supplier. Standard materials for use on-board ocean-going ships are only to be used. Various materials used shall be in accordance with the stipulated requirements as per international Standard, as stated in the equipment technical specifications. Any deviation from specified materials is to be informed to Shipyard/Indian coast Guard with suitable reasons and justifications, subject to the condition that the material meets the requirements for envisaged marine application.

2.6.2. **A separate declaration stating that no asbestos materials are used in the product is to be submitted along with offer and also post manufacturing during equipment delivery.**

## 2.7. Lifting Arrangement

2.7.1. Equipment components weighing more than 40 kilograms are to be provided with eyebolts/lifting arrangement, for ease of handling/lifting on board the ship or ashore. During transportation/transit of equipment, adequate provisions (such as supports, locking arrangement, jacking, etc.) are to be made for preventing any damage to the equipment & its associated components. Any component requiring special handling shall be clearly marked and appropriate handling instructions shall be provided by equipment supplier. One set of special lifting gear (if any) shall be supplied to shipyard.



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## 2.8. Packing & Shipping

- 2.8.1. All equipment shall be adequately packed and protected with supports to ensure adequate protection during all methods of transportation. Each unit within a package/container shall be clearly marked in English for identification. The container shall clearly indicate the commodity description with caution marks, weight, size, etc.
- 2.8.2. A separate document giving complete details & instruction for storage, preservation, handling & transportation after delivery shall be supplied & a copy must be included with the shipping document. The supplier should indicate the delivery schedule port of embarkation, transport, packing, preservation, insurance etc.

## 2.9. Security of Information

- 2.9.1. The information contained in this document is not to be divulged to any other firm/third party without the prior permission of the Indian Coast Guard and MDL. Adequate measures are to be taken to ensure safe custody of this document.

## 2.10. Warranty:

- 2.10.1. The equipment along with associated auxiliaries/components shall be warranted by the equipment supplier for the stipulated performance for a period of 20 months from date of delivery of equipment in MDL or 12 months from the planned commissioning date of the vessel whichever is later.
- 2.10.2. During the said period, the equipment supplied shall be warranted against any malfunction, defects, material failure, non-compliance to ordered specifications, sub-optimal performance, design deficiency, poor workmanship and quality. Any expenditure on account of equipment malfunction, repair or supply of spares against warranty defects shall be borne by the equipment supplier. If any defective part is required to be taken back to OEM's factory/works (i.e. importing and re-exporting from Country of origin) for the purpose of service, the entire liability including expenditure towards the same shall be borne by the supplier.
- 2.10.3. If within the period of warranty, the ship and (or) stores and (or) spares are reported by the Shipyard to have failed to perform as per the specifications, the Supplier shall either replace or rectify the same free of charge, maximum within 15 days of notification of such defect by the Shipyard provided that the goods are used and maintained by the Shipyard as per instructions contained in the operating Manual.
- 2.10.4. The Supplier also undertakes to diagnose, test, adjust, calibrate and repair/replace the goods/equipment arising due to accidents by neglect or misuse by the operator or damage due to transportation of the goods



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during the warranty period, at the cost mutually agreed to between the Shipyard and the Supplier subject to acceptability by the Shipyard. The Supplier shall intimate the assignable cause of the failures.

2.10.5. In case the complete delivery of the equipment is delayed beyond the period stipulated in this contract, then the Supplier undertakes that the warranty period for the goods/stores shall be extended to that extent.

## 2.11. Planned Ship Delivery date(D)

2.11.1. The planned date for delivery of the Ship to the Indian Coastguard by MDL is tabulated below:

S.no.	Yard No.	Planned Delivery date
1	Training Ship Y16101	Dec'26

## 2.12. Weight Recording / Weight Certificate

2.12.1. Weights of all components are to be recorded and a suitable certificate shall be submitted, by the equipment supplier. The designated inspection authorities shall countersign such certificates.

2.12.2. Net weight of each component is to be recorded in presence of designated inspection authority and the weight certificate is to be submitted by the equipment supplier, along with equipment supply. Format for weight certificate, is placed at **Annexure '1'** of this document.

2.12.3. The supplier shall have to submit, reasons for variation between allocated weight and actual/certified weight for each and every item, wherever applicable, to Coast Guard and MDL for their consideration and further necessary action.

## 2.13. Receipt Inspection

2.13.1. Receipt inspection shall be done by MDL-Inspection Cell and CGRPT (Mumbai) on receipt of Stern Tube in stores in the presence of OEM rep to verify completeness of the scope of supply and intactness of the supplied equipment. Defective / damaged parts and deficiency, if any, in supply shall be made good by OEM free of cost. OEM shall be intimated the date of receipt inspection.

## 2.14. Price

2.14.1. Price bid shall include cost of all deliverables and services as mentioned in tender. Break-up in percentage of total quoted cost of main equipment for its various components shall be indicated by the supplier.



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Non-indigenous equipment Suppliers are to indicate the import content in USD/EURO.

## 2.15. Compliance Matrix

2.15.1. Para-wise compliance matrix, including paras which are not applicable, as per the technical specifications (contained in this document) shall be submitted by the equipment supplier along with the technical offer, in the format as per Annexure-2 (preferably in excel sheet). The technical offer received without Compliance Matrix shall be liable for rejection.


## 2.16. Technical Offer as Per Shipyard Tender

2.16.1. Technical part of the offer with respect to the equipment and its associated auxiliaries/components/controls, to be submitted by the equipment supplier in comprehensive, systematic and structured manner, as per the requirements mentioned in this document, including the following (but not limited to):

- i. Compliance matrix (Para-wise compliance to tender specifications).
- ii. Delivery time from receipt of order.
- iii. List of special tools, instruments, jigs & fixtures & facilities required for lifting, transporting, aligning, installing and commissioning of main equipment and their auxiliaries.
- iv. The drawing & dimensions are for reference purpose only. Vendor to design the casting based on guidance drawing supplied.
- v. The offer should be strictly conforming to the details indicated in this specification and in the relevant specifications / drawings / documents (All Latest Issues are to be followed).
- vi. No omission in the Specifications shall relieve the supplier of his responsibility to ascertain these requirements to perform work & furnish material in accordance with codes specified.
- vii. The offer should be complete with all relevant details such as Detailed Technical Specification, Material Specification, Overall Dimensions, Maintenance requirement, Foundation / Installation / Bolting, Storage/ Preservation Details, supported by drawings/documents/data sheets etc.
- viii. Any clarification required regarding Technical Specification / Requisition should be sought before submission of the offer.

Classification society type/class approval certificate to be submitted with technical offer.



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## SECTION – II:

### 3. TECHNICAL SPECIFICATION

#### 3.1. DESCRIPTION OF EQUIPMENT

One (1) shipset (P&S) Stern tube as per this specification shall be casted, rolled, welded, tested and inspected and shall be supplied to MDL Mumbai along with necessary certificates as per following details:

#### 3.2. MATERIAL

Cast steel (Weldable) conforming to ABS Rules for vessel having class notation as Mentioned at para 1.3 above. For steel plate ABS grade B to be used. For details refer drawing no 1114-01.

#### 3.3. SCOPE OF SUPPLY & QUANTITY

One (1) shipset (P&S) No Stern tube as per the Specification Shall be supplied to MDL after all necessary procedures.

#### 3.4. TECHNICAL REQUIREMENTS

- 3.4.1. Firm has to confirm that the Stern tube supply will confirm to Drg No. 1114-01. The material should be as per ABS and IRS class rules and no substitute material will be acceptable. Drawing no. Drg No. 1114-01 is enclosed herewith is for guidance only.
- 3.4.2. The drawing enclosed is to be considered as preliminary drawing only. Stern Tube to be manufactured as per ABS and IRS class approved drawing. A copy of class approved drawing is to be submitted for CGHQ approval.
- 3.4.3. Stern Tube is classification items and the classification survey is to be carried out by ABS & IRS, firm should confirm that they understood the class requirement and their supply will meet the same. All the



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classification charges are to be paid by the firm. The firm should consult ABS before starting any activity.

- 3.4.4. The tolerance for machined surface will be as per IS 2102 Medium and as cast surface will be IS 4897 Class II.
- 3.4.5. A test bar of casting has to be retained by the party for future reference checking by ABS & IRS.
- 3.4.6. The firm should indicate the maximum weight of casting (as one piece) for which their facilities are approved by any IACS member Class.
- 3.4.7. Palm chamfering is to be done by the firm as per ABS latest rules
- 3.4.8. Proper skids/jogs are to be prepared for stowage, machining and transportation to ensure that there is no distortion.
- 3.4.9. Prior to fabrication the sterntube, template shall be inspected for dimensional correctness by the ABS & IRS to ensure compliance to the drawing.
- 3.4.10. Firms should confirm that work will be carried out at ABS approved site. In case if the firm doesn't have an ABS approved manufacturing site at the time of bidding, the firm have to take the approval from ABS within 4 weeks of order placement .Proper packing to be done to prevent damage during transport.
- 3.4.11. Minor modification depending on the stage of manufacture mutually agreed will be done by the firm without any additional cost.
- 3.4.12. The casting is to be done as per ASTM A27. The casted part and rolled part of Stern tube will be joined in single piece after rolling.

### 3.5. LIMITING DIMENSIONS AND WEIGHT:

- 3.5.1. The dimensions of the Sterntube shall be as per the drawing 1114-01.The Fabricator shall prepare templates for the Sterntube, based on



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drawing no 1114-01 and shall offer the same for inspection to the inspection agency prior to the start of work.

- 3.5.2. The limiting dimensions, weight and tolerances are to be in accordance with rules laid down in IS15846, IRS & ABS.

### 3.6. TESTING REQUIREMENT:

- 3.6.1. The surface shall be free from damages that may arise from holding the job while rolling such as hammer marks, welding spatters, clamping marks etc.
- 3.6.2. The non-destructive testing shall be of the welds carried out when the welding is completed as per standard at of IRS and ABS.
- 3.6.3. Water pressure testing shall be done after completion of all structural work and other fitting which affect the watertight integrity of the structure. Water pressure testing shall be carried out as per **Enclosure-A**. However, subsequent to the water pressure test, if any hot work is carried out it shall be Air tested again. Pressure for water pressure test is shall be 3.57kg/cm<sup>2</sup>. Water testing is shall be after completion of all structural work and other fitting which affect the watertight integrity of the structure. However, subsequent to the water pressure test, if any hot work is carried out in to the sterntube, sterntube shall be Air tested again.

### 3.7. TOLERANCES:

- 3.7.1. Dimensional Tolerances: The permissible tolerances on Sterntube dimensions shall be as per drawing number 1114-01.
- 3.7.2. Weight Tolerances: The tolerance for weight shall be +- 5%



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### 3.8. INSPECTION AND TESTING REQUIREMENT:

- 3.8.1. The dates for inspection, test and trial shall be intimated to the ABS & IRS and MDL at least four (4) weeks prior to the proposed dates for the tests and trials. The scope of Inspection shall be as follows:
- 3.8.2. All surfaces shall be 100 % visually inspected, assisted where necessary using 5X magnification optics.
- 3.8.3. The NDT shall be carried out as per Para 3.6.2 above. The sterntube shall be subjected to the following NDTs to ensure that the sterntube are defect free:
- (a) Visual inspection to detect the surface flaws viz. surface finish, sand holes, surface shrinkage, blow holes, cold shuts, surface dross, slag etc.
  - (b) Ultrasonic test or radio graphic test shall be carried out on sample basis to establish a satisfactory general quality of weld joints and to detect internal defects.
  - (c) Magnetic Particle inspection to detect surface and sub-surface discontinuities
  - (d) Liquid Penetrant Test (LPT) to identify cracks pores and other flaws which are open to the surface
- 3.8.4. Dimensional checks shall be carried out by the ABS and IRS as per the drawing.
- 3.8.5. Water pressure testing shall be witnessed by ABS and IRS carried out as per governing standards at enclosure A.

### 3.9. PAINTING:

- 3.9.1. Stern tube to be supplied with two coats of epoxy red oxide shop primer after the final inspection at firms' premise. Machined surfaces are to be applied with rust preventive oil
- 3.9.2. After fabrication inside and outside surface of stern tube to be painted with zinc silicate primer. Further, Post installation painting to be carried out i.e.w CGBR-382, issue 2.

## ENCLOSURE A

### WATER PRESSURE TESTING

1. Water testing is to be done after completion of all structural work and other fitting which affect the watertight integrity of the structure. However,



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subsequent to the water pressure test, if any hot work is carried out in to the compartment/tank, Tank/compartment needs to be Air tested again.

2. Water pressure testing is to be done by filling the compartments with fresh water to a pressure, without any sign of leakage
3. Any temporary means for closing openings such as venting plates, hoists etc., which may be necessary for the purpose of water testing, are to be provided
4. When water testing, an Air escape cock is to fitted in the highest point of crown of the compartment. The indicator test can be used or adopted for this purpose.

<b>WEIGHT CERTIFICATE</b>			
<b>EQUIPMENT DESCRIPTION:</b>		<b>EQUIPMENT NO. :</b>	
The form shall be completed by Supplier & shall be supplied along with the equipment.			
<b>SUPPLIER'S NAME</b>		<b>Ref. Drg. No.</b>	
<b>ADDRESS</b>		<b>Part No.</b>	
<b>TELEPHONE NO.</b>		<b>EQPT. NO.</b>	
<b>ORDER NO.</b>			
<b>METHOD OF WEIGHING:</b> Supplier shall prescribe Method & Equipment Used:			
	<b>DATE OF LAST CALIBRATION</b>	<b>SPECIFIED ACCURACY REQUIREMENT</b>	
	<b>NOTE :-</b>		
<b>RESULT OF WEIGHING TOTAL EQUIPMENT DRY WEIGHT</b> (Excluding packing, temporary protection etc.)		<input type="text"/>	
<b>ALLOCATED WEIGHT</b> (Weight estimate agreed by purchaser and supplier based on order specs).		<input type="text"/>	
<b>REASONS FOR VARIATION BETWEEN ALLOCATED WEIGHT AND CERTIFIED WEIGHT:</b>			
<b>WEIGHING ADDRESS:</b>	<b>WITNESSED BY</b>		
	<b>FOR SUPPLIER</b>	<b>FOR PURCHASER</b>	
	<b>Representative</b>	<b>Representative</b>	
<b>Date:</b>	<b>Signature / Date &amp; Seal</b>	<b>Signature/Date &amp; Seal</b>	

**Compliance Matrix****EQUIPMENT DESCRIPTION:****EQUIPMENT NO. :**

The form shall be completed by Supplier &amp; shall be supplied along with the equipment.

**SUPPLIER'S  
NAME****Ref. Drg. No.****ADDRESS****Part No.****TELEPHONE  
NO.****ORDER NO.****EQPT. NO.**

<b>S No.</b>	<b>Tender Specifications Para reference</b>	<b>Brief Description as per Relevant Tender Specifications</b>	<b>Compliance to Tender Specifications</b>	<b>Deviations if any, with Reasons</b>	<b>Remarks if any</b>
<b>SUPPLIER'S COMPANY SEAL</b>				<b>SUPPLIER'S SIGNATURE &amp; DATE</b>	

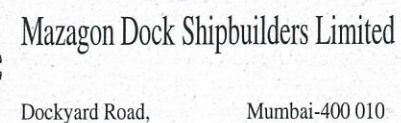


## DESCRIPTION

[illegible]




## MDL. YARD NOS. 16101

- 1) ALL DIMENSIONS ARE IN MM.
- 2) IF IN DOUBT ASK.
- 3) DO NOT SCALE THE DRAWING.



Ship	TS-01
------	-------

Title **STERN TUBE**

	Modelled	Drawn	Checked	Section Head
Name	---	AAK	VISHNU	V.S.WAGH
Desgn	---	D'Man	M(D-S)	DGM(D-S)
Sign.				

Yard no.	Drawing no.	Rev.
16101	1114-01	1
Date 20-08-2025	Sheet 01 of 04	A3

## DESCRIPTION

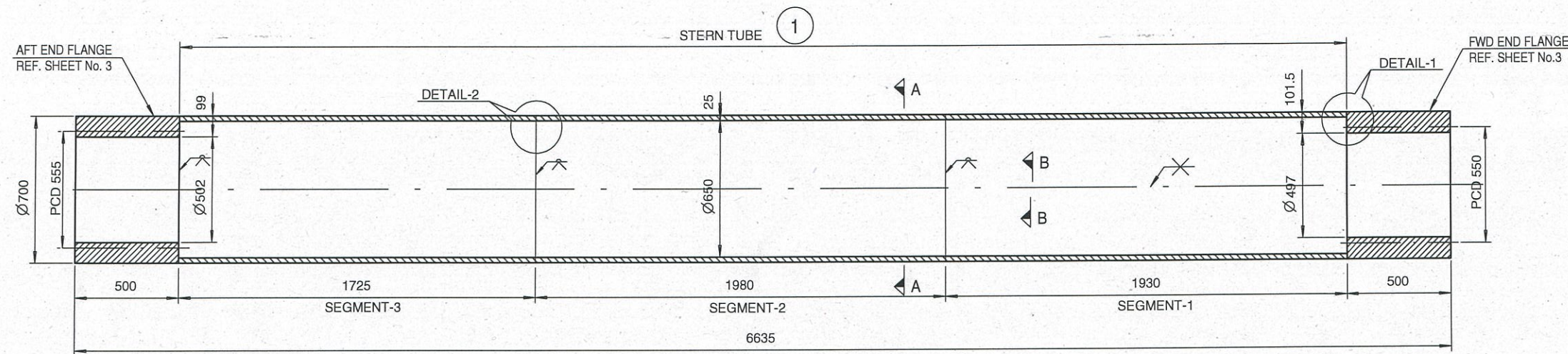
REV. NO.	SHT. NO.	DESCRIPTION	AUTH.	DATE	SIGN.
01	01 TO 04	DETAILS HAS BEEN UPDATED AS PER CGHQ LETTER SA/0157/01TS/HULL EQPT ; DATED 14 JUL 2025	CGHQ	20/08/2025	

1) STERN TUBE DRG NO. DAAF643791 (WARTSILA)

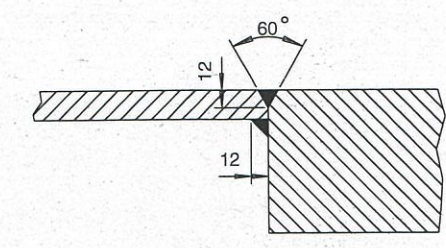
### TOLERANCE FOR FABRICATION OF STERN TUBE.

OUT OFF ROUNDNESS	$\pm 3$ MM.
CONCENTRICITY	$\pm 1$ MM (OVER OF LENGTH OF 6635 MM)
LENGTH	+ 4 MM
DIAMETER	$\pm 3$ MM.
WEIGHT	+ 5%

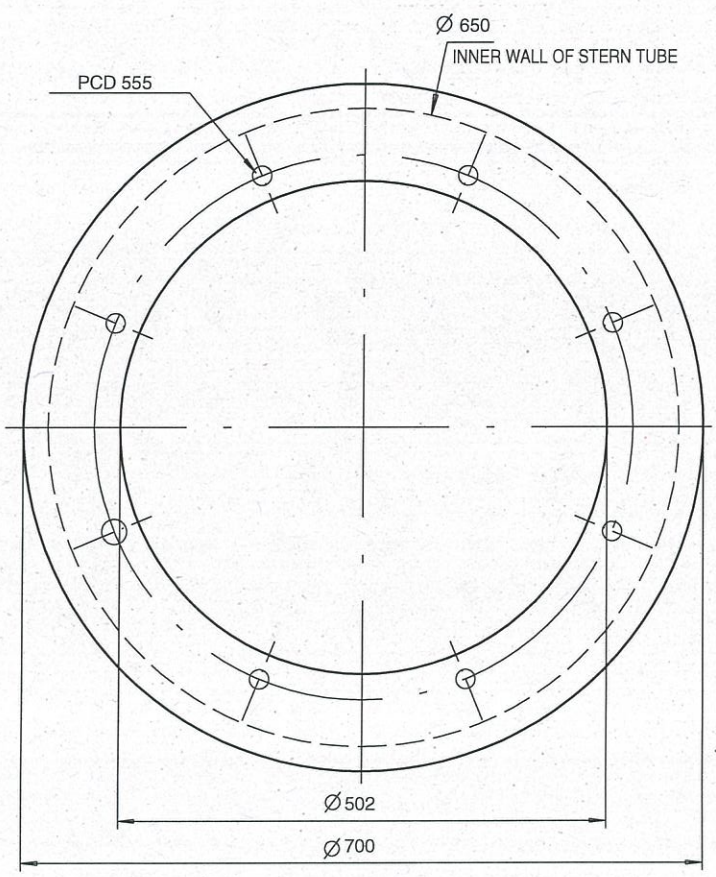




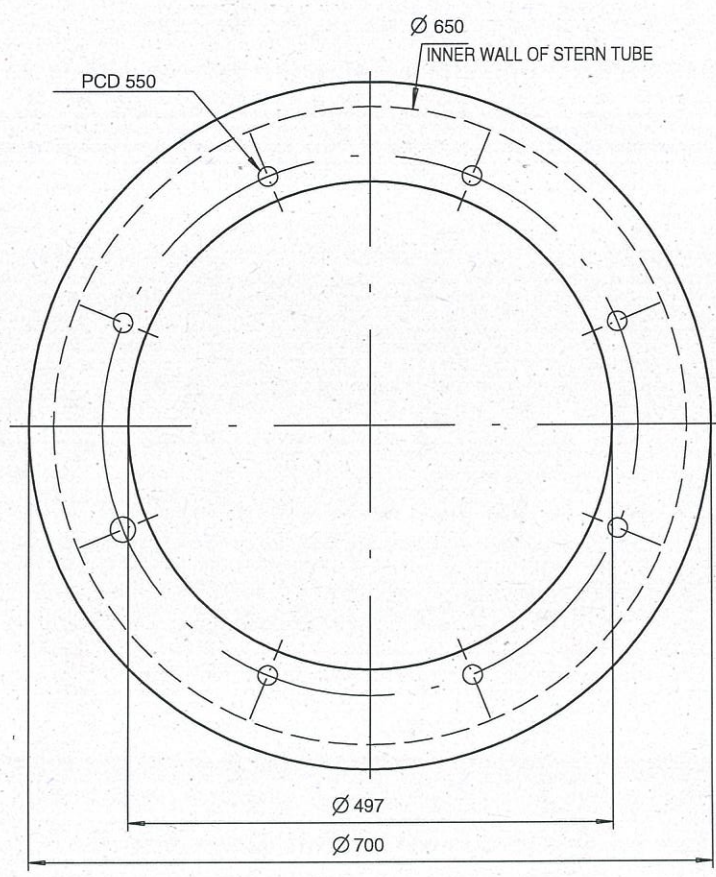
DETAIL OF STERN TUBE



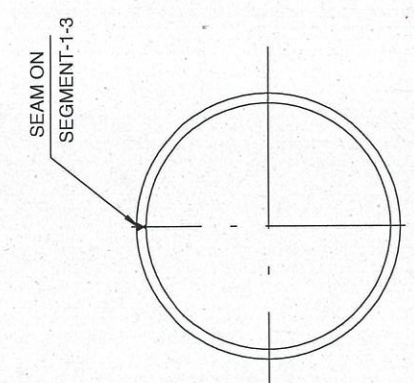
DETAIL -1  
WELDING DETAIL OF TUBE & FLANGE  
(NTS)



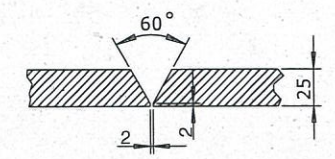
DETAIL OF AFT END FLANGE



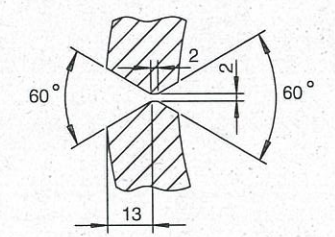
DETAIL OF FWD END FLANGE



SECTION A-A  
FOR WELDING SEE SECTION B-B.



DETAIL -2



SECTION B-B  
TYP. DETAIL FOR ALL SEGMENT  
SEAMS AT SEGMENT 1 & 2 TO BE  
STAGGERED BY 120 DEGREES.

MF1614B200M-STERN TUBE DETAIL SH02-AF651



Mazagon Dock Shipbuilders Limited  
Dockyard Road, Mumbai-400 010

Client I.C.G.  
Ship TS-01

Title  
**STERN TUBE**

Scale  
1 : 5

Name	Modelled	Drawn	Checked	Section Head
---	---	AAK	VISHNU	V.S. WAGH
Design	---	D'MAN	M(D-S)	M(D-S)
Sign.				

Yard no.  
**16101**

Drawing no.  
**1114-01**

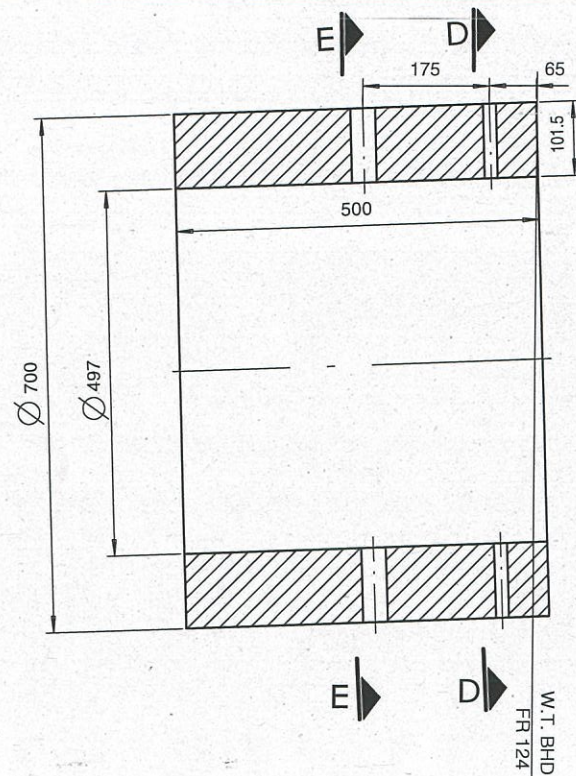
Rev.  
**1**

Date 20-08-2025

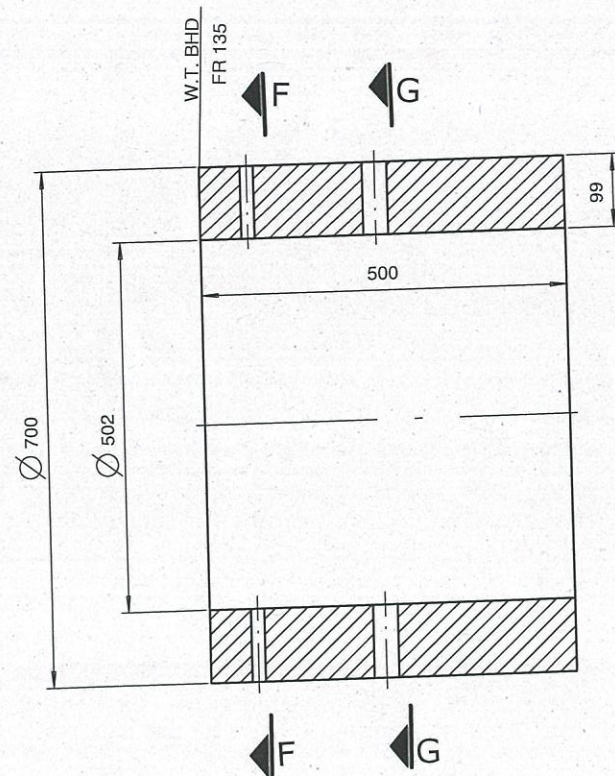
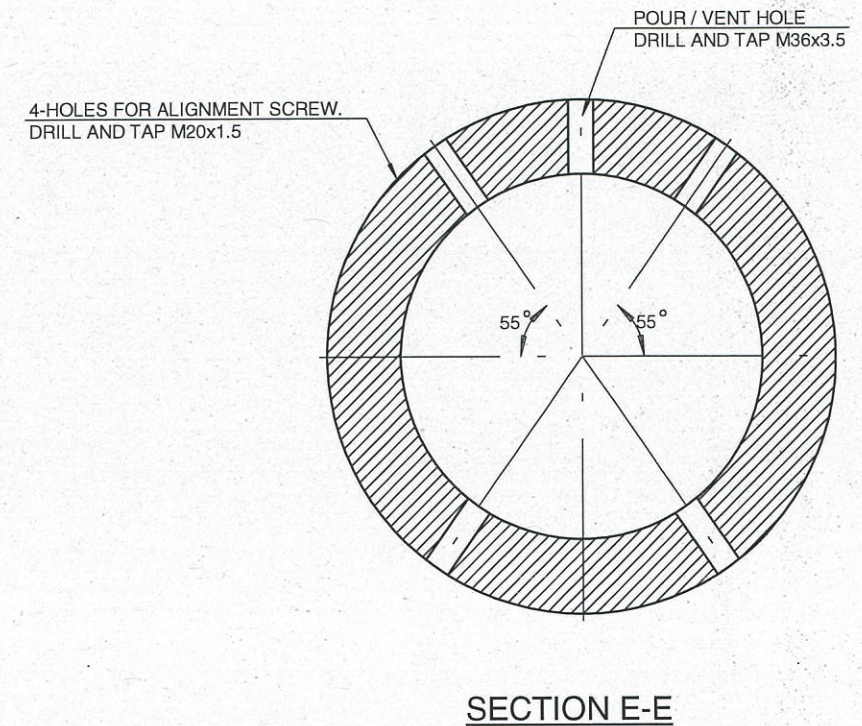
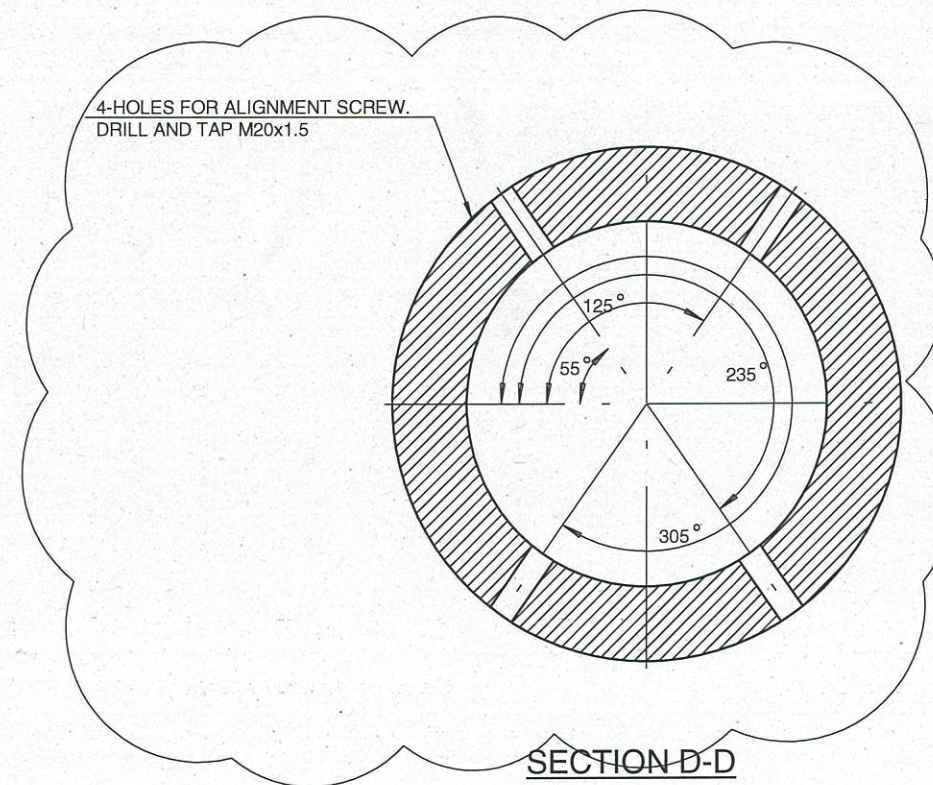
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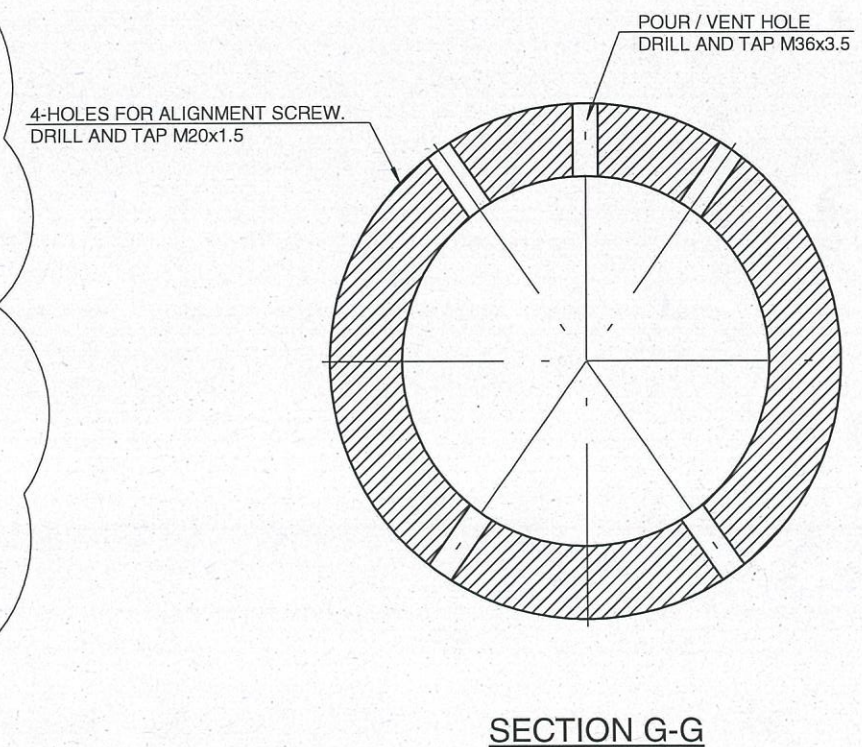
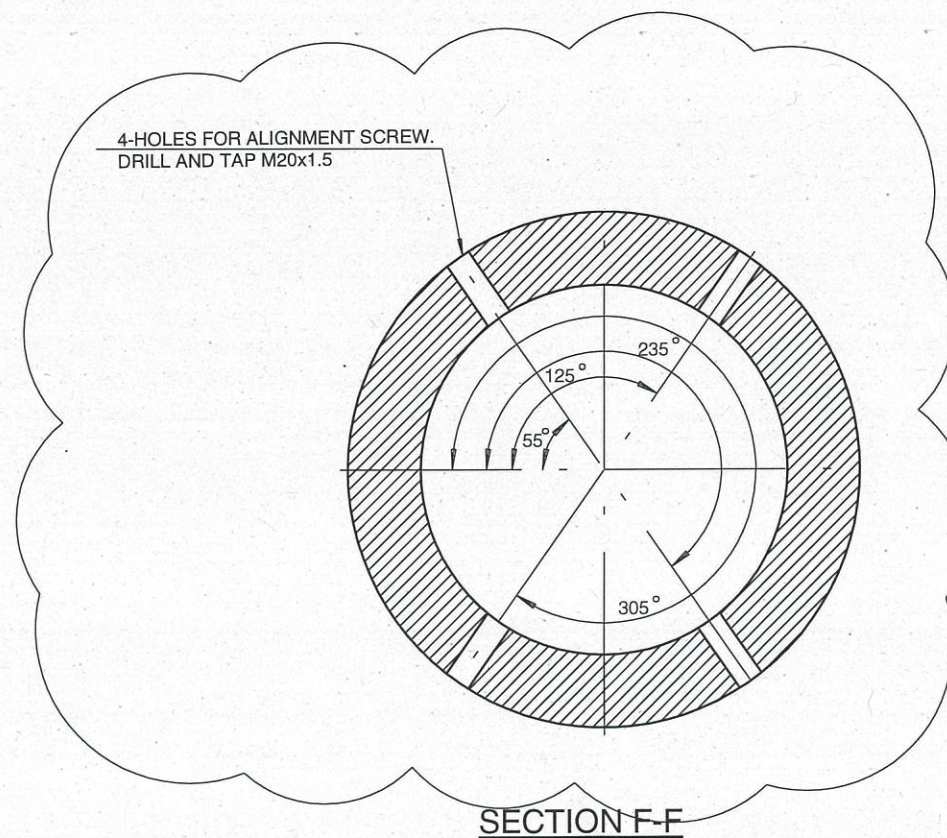




DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING.  
FWD-END FLANGE



DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING.  
AFT-END FLANGE



MC1614B200MSH03R01-STERNTUBE



Mazagon Dock Shipbuilders Limited  
Dockyard Road, Mumbai-400 010

Client I.C.G.  
Ship TS-01

Title

STERN TUBE

Scale  
1 : 10

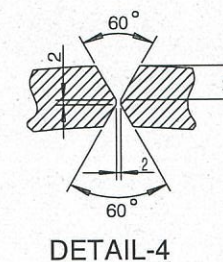
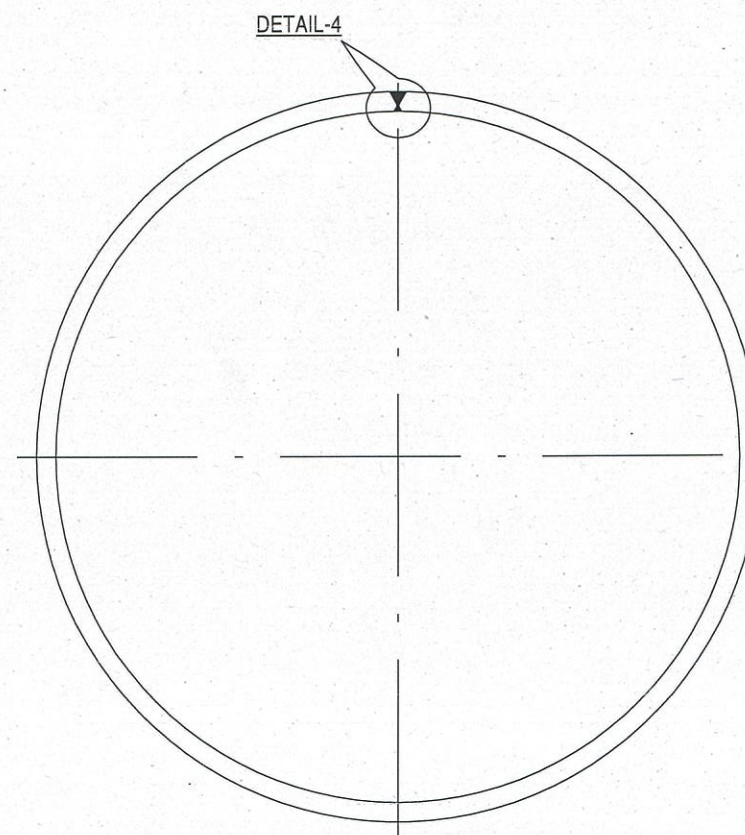
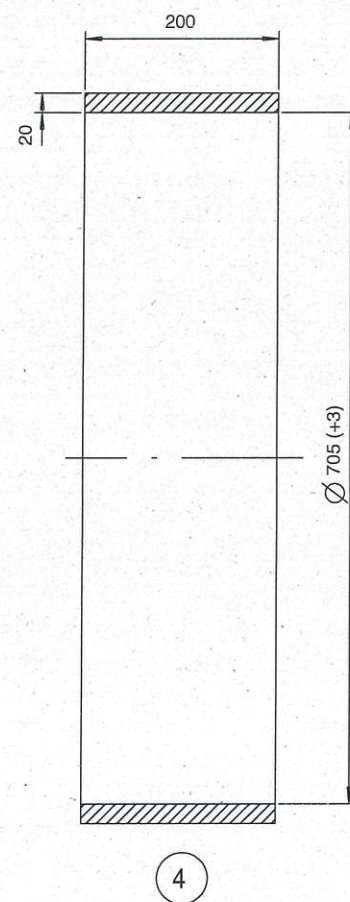
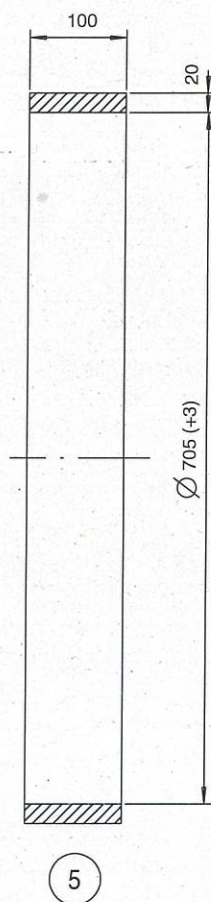
Name	Modelled	Drawn	Checked	Section Head
---	AAK	VISHNU	V.S. WAGH	
Desgn	---	D'Man	M(D-S)	DGM(S-S)
Sign.		AZ	gty	

Yard no. 16101  
Date 20-08-2025

Drawing no. 1114-01  
Sheet 03 of 04

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DETAIL OF RINGS

MATERIAL LIST

Item No.	Description	Size	Qty	MATERIALS	Remarks
1	TUBE	650 ID x 25 THK x 5635 LONG	2	ABSGRB	ROLLING
2	FLANGE	700 OD x 502 ID x 500 LENGTH	2	C.S. (ABS)	CASTING
3	FLANGE	700 OD x 497 ID x 500 LENGTH	2	C.S. (ABS)	CASTING
4	RING	705 ID x 20 Thk. x 200 LONG	6	ABSGRB	ROLLING
5	RING	705 ID x 20 Thk. x 100 LONG	2	ABSGRB	ROLLING
6	ALIGNMENT SCREW	M20x1.5 x 99 LONG (AFT END)	4	S.S.	-
7	ALIGNMENT SCREW	M20x1.5 x 101.5 LONG (FWD END)	4	S.S.	-

NOTES :-

- 1) ITEM NO.-4 & 5 (RINGS) TO SLIDE OVER THE TUBE (ITEM NO-1) FREELY.
- 2) EDGE PREPARATION SHALL BE DONE AS SHOWN IN THE DRAWING.
- 3) FLANGE HOLES SHALL BE DRILLED AND TAPPED AT SITE BY MDL AFTER VERIFYING WITH DEEP SEA SEAL.
- 4) THE I.D. OF THE FLANGE HAS TO BE MATCHED WITH THE FINAL O.D. OF THE STERN TUBE.
- 5) ALL NDT SHALL BE AS PER SOTR.
- 6) WATER PRESSURE TESTING SHALL BE DONE AS PER SOTR.

MF1614B200M-STERN TUBE DETAIL SSH02-AF651



Mazagon Dock Shipbuilders Limited  
Dockyard Road, Mumbai-400 010

Client I.C.G.  
Ship TS-01

Title

STERN TUBE

Scale  
1 : 5

Name	Modelled	Drawn	Checked	Section Head
---	---	AAK	VISHNU	V.S. WAGH
Design	---	D'MAN	M(D-S)	MDM(D-8)
Sign.	---	---	---	---

Yard no.	Drawing no.	Rev.
16101	1114-01	1
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