



## Additional Tender Terms & Conditions

**GEM Bid no GEM/2026/B/7168677**

Procurement of Stern Tube for 01 TS and 06 NGOPV of ICG Y-16101, Yd 16401 to Yd 16406 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 03 dt 13.01.2026 section & Drawing No. 1114-01 and SOTR MDL/DR/CGP/NGOPV/2015 rev 02 dt 21.01.2026 section & Drawing No. 1114-01
- (b) **DOCUMENTATION:** SOTR MDL/DR/CGP/TS/2014 rev 03 dt 13.01.2026 section and SOTR MDL/DR/CGP/NGOPV/2015 rev 02 dt 21.01.2026 section para no. 2.2 & Drawing No. 1114-01

**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. 7,00,000/- only (Rupees Seven lakhs 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 (Stern Tube) 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:**

1. "Firm should have past experience of supplying Stern tube for any seagoing vessel. Firm shall submit the relevant PO, Weight Certificate, work completion certificate etc. as a proof of successful execution."

OR



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“Firm should have past experience of supplying Steel Castings weighing at least 1 ton, as well as experience of rolling & fabricating Pipes/Tubes/Cylinders etc. with minimum plate thickness of 25 mm. Firm shall submit the relevant PO, Weight certificate, work completion certificate etc. as a proof of successful execution.

2. Subcontracting either the casting or rolling process is permissible; however, the complete scope of work cannot be subcontracted. In case of subcontracting, subcontractor should have prior experience in the activities they are doing for principle bidder and the principle bidder should submit subcontractor’s PO, weight certificate, work completion certificate etc. as proof of successful execution of prior experience.”

### **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 1,05,00,000** /- 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.



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- (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.
- (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.Vishnu Kumar Dhaked, M (SB-Design - Structural)  
 3rd Floor, West Block  
 Mazagon Dock Ship Builders Limited  
 Dockyard Road, Mumbai 10
- (xi) The original IP to be submitted or couriered to MDL within 15 days after tender closing date. Address: DGM/PE(C-CGP), 5th Floor, New Service Block, North Yard, Mazagon Dock Shipbuilders Limited, Shipbuilding Division, Dock Yard Road, Mumbai400010, Maharashtra, in sealed envelope super scribing Tender Enquiry No. and Due date. The scanned image of IP shall be uploaded at Part-I tender stage.

**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
16401	PO + 04 months
16402	PO + 05 months
16403	PO + 06 months
16404	PO + 07 months
16405	PO + 08 months
16406	PO + 09 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.



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The tentative planned delivery of ships are as follows:

Yard	Delivery date of ship
16101	Dec 2026
16401	Jul'27
16402	Dec 27
16403	May 28
16404	Oct 28
16405	Mar 29
16406	Aug 29

- (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. **FIM BG**: Free issue material bank Guarantee for an amount of Rs 1,37,00,000/- (One crore Thirty-seven lakhs) payable in Indian Rupees to be submitted within 25 days of PO for works undertaken outside MDL premises. The same shall be returnable within a period of 15 days from the date of receipt of finished product and leftover material in MDL along with the certified statement of reconciliation showing following details;
- (i) Quantity of material issued.
- (ii) Quantity of materials consumed / vis-a vis percentage of job completed.
- (iii) Quantity of material returned to respective stores / held in stock by Contractor at his end.
- (iv) Actual quantity wasted / scrapped as a by-product of process as against stipulated amount.
12. **PRESERVATION & PACKING**: NA
13. **TAXES & DUTIES**: To be included in the submitted quote, as per GEM & Govt. guidelines. Custom Duty: Not reimbursable.
14. **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.



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### 15. **INSPECTION:**

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

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

MDL shall submit the 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-Inspection 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 & 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 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.

### 16. **PAYMENT TERMS:**

#### **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.



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17. **INTEGRITY PACT (IP):** The Integrity pact essentially envisages the agreement between prospective vendors / bidders & buyers committing the person/officials of both the parties not to exercise any corrupt influence on any aspects of the contract. Only those vendors/bidders who enter into such an integrity pact with the buyer would be competent to participate in the bid. The format of integrity Pact is enclosed with tender documents. IP shall be submitted on plain paper.

The 'Integrity pact' dully filled as per enclosed format to be submitted along with the offer. Each page of Integrity Pact shall be duly signed by the bidder. In case of non-submission of Integrity Pact by the bidders, duly signed on each page, with Part-I of the bid, shall render the bid liable for rejection.

The original IP to be submitted or couriered to MDL within 15 days after tender closing date. Address: DGM/PE(C-CGP), 5th Floor, New Service Block, North Yard, Mazagon Dock Shipbuilders Limited, Shipbuilding Division, Dock Yard Road, Mumbai400010, Maharashtra, in sealed envelope super scribing Tender Enquiry No. and Due date. The scanned image of IP shall be uploaded at Part-I tender stage.

### **INDEPENDENT EXTERNAL MONITORS (IEM):**

Presently the panel consisting of the following Independent External Monitors (IEMs) has been appointed by MDL, in terms of Integrity Pact (IP) which forms part of MDL Tenders / Contracts.

- i) Shri M.N.Krishnamurthy, IPS (Retd.)  
Email ID: krishnamurthymn19@gmail.com
- ii) Shri Deepak Kashyap, IRTS (Retd)  
Email id : deepakkashyapnd02@gmail.com

This panel is authorized to examine / consider all references made to it under this tender / contract. The bidder(s), in case of any dispute(s) / complaint(s) pertaining to this tender falling under provisions of Integrity Pact may raise the same directly with the IEMs on the panel viz Shri M.N.Krishnamurthy, IPS(Retd.) Email ID: krishnamurthymn19@gmail.com; Shri Deepak Kashyap, IRTS (Retd) Email ID : deepakkashyapnd02@gmail.com.

18. **EXCHANGE RATE VARIATION:NA**

### 19. **REVERSE AUCTION:**

- (a) MDL reserves the right to extend, reschedule, postpone, suspend/pause, resume and extend the Reverse Auction, or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
- (b) If the lowest price received during ERA is unreasonable or it is unacceptable on ground of being too high when compared with estimated price, MDL reserves the right to seek justification of the price from lowest bidder.
- (c) If the price is not considered reasonable, MDL may not accept such bid and can go for another tender process. MDL reserves the right to cancel the tender cum RA process.

20. **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. Vishnu Kumar Dhaked, M (SB-Design -Structural)	+91 22 2376 3365	<a href="mailto:vkdhaked@mazdock.com">vkdhaked@mazdock.com</a>



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<b>Commercial Dept.</b>	Mr. D S Chavan, DGM /PE(C-CGP)	+91 22 2376 2782	dschavan@mazdock.com
	Ms Shipon Sarkar, M(C-CGP)	+91 22 2376 2765	sssarkar@mazdock.com

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

Yours faithfully,

**For MAZAGON DOCK SHIPBUILDERS LIMITED**





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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)	
1	Name:
	Designation
	Direct Landline Number:
	Mobile Number:
	Email id:
2	Name:
	Designation
	Direct Landline Number:
	Mobile Number:
	Email id:
3	Name:
	Designation
	Direct Landline Number:
	Mobile Number:
	Email id:



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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**



**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 .....

.....(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	<input style="width: 100%; height: 20px;" type="checkbox"/>
2) PPP MII 2017	<input style="width: 100%; height: 20px;" type="checkbox"/>



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(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**

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**Integrity Pact (IP) Format**

**Mazagon Dock Shipbuilders Limited (MDL)** hereinafter referred to as **"The Principal/Buyer"**

And.....hereinafter referred to as **"The Bidder/ Contractor"**

**Preamble**

	The Principal/Buyer intends to award, under laid down organizational procedures, contract/s for .....The Principal/Buyer values full compliance with all relevant laws of the land rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and /or Contractor(s). In order to achieve these goals, the Principal/Buyer will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.
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**Section 1 - Commitments of the Principal/Buyer:**

(1)	The Principal/Buyer commits itself to take all measures necessary to prevent corruption and to observe the following principles:
a)	No employee of the Principal/Buyer, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
b)	The Principal/Buyer will during the tender process treat all Bidder(s) with equity and reason. The Principal/Buyer will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
c)	The Principal/Buyer will exclude from the process all known prejudiced persons.
d)	The Principal/Buyer undertakes to scrupulously follow the tender containing Standard Terms & Conditions (STAC) and General Terms & Conditions (GT&C) in respect of procurement contracts for goods, services and civil works.
(2)	If the Principal/Buyer obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal/Buyer will inform the Chief Vigilance Officer, MDL and in addition can initiate disciplinary actions.

**Section 2 - Commitments of the Bidder(s)/Contractor(s):**

(1)	The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
a)	The Bidder(s)/Contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal/Buyer's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage or any kind whatsoever during the tender process or during the execution of the contract.
b)	The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
c)	The Bidder(s)/Contractor(s) will not commit any offence under the relevant Anti-Corruption Laws of India; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to other, any information or document provided by the Principal/Buyer as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.



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	d)	The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder(s)/Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. All payments made to the Indian Agent/representative have to be in Indian Rupees only. Further details as mentioned in the "Guidelines of Indian Agents of Foreign suppliers" shall be disclosed by the Bidders(s)/Contractor(s). Copy of the "Guidelines on Indian Agents of Foreign Suppliers" as annexed and marked as Annexure-A.
	e)	The Bidder(s)/Contractor(s) will when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
	f)	The Bidder (s)/Contractor(s), their agents, representatives shall not do such things so as to interfere with the procedures laid down in the Principal/Buyer's tender containing the Standard Terms and Conditions (STAC) and General Terms and Conditions (GT&C) in respect of procurement contracts for goods, services and civil works.
	g)	The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
(2)		The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlines above or be an accessory to such offences.

#### **Section 3 - Disqualification from tender process and exclusion from future contracts:**

		If the Bidder(s)/Contractor(s) before contract award or during execution of Contract has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility as Bidder(s) in question, the Principal/Buyer is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or to terminate the contract, if already signed for such reason, as per the procedure mentioned in the "Guidelines on Banning of business dealings" Copy of the "Guidelines on Banning of business dealings" is annexed and marked as Annexure-B.
	1)	If the Bidder(s)/Contractor(s) has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal/Buyer is entitled also to exclude the Bidder(s)/Contractor(s) from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder(s) and the amount of the damage. The exclusion will be imposed for a minimum of <u>six</u> months and maximum of <u>five</u> years, which may be further extended at the discretion of the Principal/Buyer.
	2)	A transgression is considered to have occurred, if the Principal/Buyer after due consideration of the available evidence, concludes that no reasonable doubt is possible.
	3)	The Bidder (s) accepts and undertakes to respect and uphold the Principal/Buyer's absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining legal advice.
	4)	If the Bidder(s)/Contractor(s) can prove that he has restored/ recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Buyer may revoke the exclusion prematurely.

#### **Section 4 – Sanctions for Violation:**

(1)	Any breach of the aforesaid provisions by the Bidder or any one employed by him or acting
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	on his behalf (whether with or without the knowledge of the Bidder) or the commission of any offence by the Bidder or any one employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act 1988 or any other Act enacted for the prevention of corruption shall entitle the Principal/Buyer to take all or any one of the following actions, wherever required –
a)	To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.
b)	The Earnest Money Deposit/Security Deposit/Performance Bond shall stand forfeited either fully or partially, as decided by the Principal/Buyer, and the Principal/Buyer shall not be required to assign any reason there for.
c)	To immediately cancel the contract, if already signed, without giving any compensation to the Bidder.
d)	To recover all sums already paid by the Principal/Buyer, in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Base Rate of SBI, and in case of a Bidder from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the Bidder from the Buyer in connection with any other contract for any other Defence stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
e)	To en-cash the advance Bank Guarantee and Performance Bond/Warranty bond, if furnished by the Bidder, in order to recover the payments, already made by the Principal/Buyer, along with interest.
f)	To cancel all or any other contracts with the Bidder.
g)	To debar the Bidder from entering into any bid from Principal/Buyer for a minimum period of five years, which may be further extended at the discretion of the Principal/Buyer.
h)	To recover all sums paid in violation of this Pact by Bidder(s) to any middleman or agent or broker with a view to securing the contract.
i)	If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, either directly or indirectly, is closely related to any of the officers of the Buyer, or alternatively, if any close relative of an officer of the Buyer has financial interest/stake in the Bidder's firm, the same shall be disclosed by the Bidder at the time of filing of tender. Any failure to disclose the interest involved shall entitle the Buyer to rescind the contract without payment of any compensation to the Bidder.
	The term 'close relative' for this purpose would mean spouse whether residing with the Principal/Buyer's employee/employees or not, but not include a spouse separated from the Principal/Buyer's employee/employees by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon Principal/Buyer's employee/employees, but does not include a child or step child who is no longer in any way dependent upon the Principal/Buyer's employee/employees or of whose custody the Principal/Buyer's employee/employees has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Principal/Buyer's employee/employees or to the Principal/Buyer's employee/employees wife or husband and wholly dependent upon Principal/Buyer's employee/employees.
j)	The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Principal/Buyer, and if he does so, the Principal/Buyer shall be entitled forthwith to rescind the contract and all other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to the Principal/Buyer resulting from such rescission and the Principal/Buyer shall be entitled to deduct the amount so payable from the money(s) due to the Bidder.
k)	In cases where Irrevocable Letters of Credit have been received in respect of any contract signed by the Principal/Buyer with the Bidder, the same shall not be opened.
(2)	The decision of the Principal/Buyer to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder shall be final and binding on the Bidder, however, the same Bidder can approach the Monitor(s) appointed for the purposes of this Pact.



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### **Section 5 - Previous Transgression:**

(1)	The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.
(2)	If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process or further action can be taken.

### **Section 6 - Equal treatment of all Bidders/Contractor(s)/Subcontractors:**

(1)	The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this integrity Pact, and to submit it to the Principal before contract signing.
2)	The Principal/Buyer will enter into agreements with identical conditions as this one with all bidders, contractors and subcontractors.
(3)	The Principal/Buyer will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

### **Section 7 - Criminal charges against violation Bidder(s)/Contractor(s)/ Subcontractor(s):**

(1)	If the Principal/Buyer obtains knowledge of conduct of a Bidder, Contractor or subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor of subcontractor which constitutes corruption or if the Principal has substantive suspicion in this regard, the Principal/Buyer will inform the same to the Chief Vigilance Officer, MDL.
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### **Section 8 - Independent External Monitor/Monitors:**

(1)	The Principal/Buyer appoints competent and credible independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively whether and to what extent the parties comply with the obligations under this agreement.
(2)	The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairman & Managing Director of the Principal/Buyer.
(3)	The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal/Buyer including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.
(4)	The Principal/Buyer will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations, between the Principal/Buyer and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
(5)	As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal/Buyer and request the Management to discontinue or take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Monitor shall give an opportunity to the Bidder(s)/Contractor(s) to present its case before making its recommendation to the Principal/Buyer.
(6)	The Monitor will submit a written report to the Chairman & Managing Director of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the Principal/Buyer and, should the occasion arise, submit proposals for correcting problematic situations.
(7)	Monitor shall be entitle to compensation on the same terms as being extended to / provided to Independent Directors on the Board of Principal/Buyer.
(8)	If the Monitor has reported to the Chairman & Managing Director of the Principal, a



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	substantiated suspicion of an offence under relevant Anti-Corruption Laws of India and the Chairman & Managing Director of the Principal/Buyer has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
(9)	The word 'Monitor' would include both singular and plural.

**Section 9 - Pact Duration:**

	This pact begins when both parties have legally signed it. It expires for the Contractor <b>12 months</b> after the last payment under the contract and for all other Bidders <b>06 months</b> after the contract has been awarded.  If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above unless it is discharged / determined by Chairman & Managing Director of the Principal/Buyer.
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**Section 10 - Other provisions:**

(1)	This agreement is subject to Indian Law, place of performance and jurisdiction is the Registered Office of the Principal/Buyer, i.e. Mumbai (For MDL). The Arbitration clauses provided in the main tender document/ contract shall not be applicable for any issue/dispute arising under this Integrity pact.
(2)	Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
(3)	If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
(4)	Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

**Section 11 – Fall Clause: #**

“The Bidder undertakes that it has not supplied/is not supplying similar products/ systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the Bidder to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance of elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the Bidder to the Principal/Buyer, if the contract has already been concluded.”

For & on behalf of  
Mazagon Dockshipbuilders Limited

(Office Seal)

Place \_\_\_\_\_

Date \_\_\_\_\_

Witness 1:

(Name & Address)

\_\_\_\_\_

For & on behalf of  
Bidder/Contractor

(Office Seal)

Witness 2:

(Name & Address)

\_\_\_\_\_



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### Annexure-A

#### **GUIDELINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS**

1.0	There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with MDL shall apply for registration.
1.1	An agent shall represent only one Foreign Supplier and not represent two suppliers or quote on their behalf in the same tender.
	However, either the Indian Agent on behalf of the Foreign Suppliers (also includes foreign manufacturers) or the Foreign Suppliers (also includes foreign manufacturers) directly could bid in a tender, but not both. In cases where an agent participates in a tender on behalf of one manufacturer, shall not quote on behalf of another manufacturer along with the first Manufacturer in a subsequent/parallel tender for the same item.
1.2	Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/remuneration/salary/ retainer ship being paid by the principal to the agent before the placement of order by MDL.
1.3	Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.

#### **2.0 DISCLOSURE OF PARTICULARS OF AGENTS/ REPRESENTATIVES IN INDIA, IF ANY.**

2.1	Tenderers of Foreign nationality shall furnish the following details in their offer:	
	2.1.1	The name and address of the agents/representatives in India, if any and the extent of authorization and authority given to commit the Principals. In case the agent/representative be a foreign Company, it shall be confirmed whether it is real substantial Company and details of the same shall be furnished.
	2.1.2	The amount of commission/remuneration included in the quoted price(s) for such agents/representatives in India.
	2.1.3	Confirmation of the Tenderer that the commission/ remuneration if any, payable to his agents/ representatives in India, may be paid by MDL in Indian Rupees only.
2.2	Tenderers of Indian Nationality shall furnish the following details in their offers:	
	2.1.1	The name and address of the foreign principals indicating their nationality as well as their status, i.e, whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/representatives.
	2.2.2	The amount of commission/remuneration included in the price (s) quoted by the Tenderer for himself.
	2.2.3	Confirmation of the foreign principals of the Tenderer that the commission/remuneration, if any, reserved for the Tenderer in the quoted price (s), may be paid by MDL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items .
2.3	In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission /remuneration, if any payable to the agents/representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.	
2.4	Failure to furnish correct and detailed information as called for in paragraph-2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by MDL. Besides this there would be a penalty of banning business dealings with MDL or damage or payment of a named sum.	



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Annexure-B

### GUIDELINES ON BANNING OF BUSINESS DEALINGS CONTENTS

Sr.	Description
1.	Introduction
2.	Scope
3.	Definitions
4.	Initiation of Banning / Suspension
5.	Suspension of Business Dealings
6.	Ground on which Banning of Business Dealing can be initiated
7.	Banning of Business Dealings
8.	Removal from List of Approved Agencies-Suppliers/ Contractors etc.
9.	Procedure for issuing Show-cause Notice
10.	Appeal against the Decision of the Competent Authority
11.	Review of the Decision by the Competent Authority
12.	Circulation of the names of Agencies with whom Business Dealings have been banned

#### 1. Introduction

1.1	Mazagon Dock Shipbuilders Limited (MDL), being a Public Sector Enterprise and 'State', within the meaning of Article 12 of Constitution of India, has to ensure preservation of rights enshrined in Chapter III of the Constitution. MDL as also to safeguard its commercial interests. MDL deals with Agencies, who have a very high degree of integrity, commitments and sincerity towards the work undertaken. It is not in the interest of MDL to deal with Agencies who commit deception, fraud or other misconduct in the execution of contracts awarded / orders issued to them. In order to ensure compliance with the constitutional mandate, it is incumbent on MDL to observe principles of natural justice before banning the business dealings with any Agency.
1.2	Since banning of business dealings involves civil consequences for an Agency concerned, it is incumbent that adequate opportunity of hearing is provided and the explanation, if tendered, is considered before passing any order in this regard keeping in view the facts and circumstances of the case.

#### 2. Scope

2.1	MDL reserves its rights to remove from list of approved suppliers / contractors or to ban business dealings if any Agency has been found to have committed misconduct and also to suspend business dealings pending investigation.
2.2	Similarly, in case of sale of material there is a clause to deal with the Agencies / customers / buyers, who indulge in lifting of material in unauthorized manner.
2.3	However, absence of such a clause does not in any way restrict the right of MDL to take action / decision under these guidelines in appropriate cases.
2.4	The procedure of (i) Removal of Agency from the List of approved suppliers / contractors; (ii) Suspension and (iii) Banning of Business Dealing with Agencies, has been laid down in these guidelines.
2.5	These guidelines apply to all the Divisions/Yards of MDL.
2.6	It is clarified that these guidelines do not deal with the decision of the Management not to entertain any particular Agency due to its poor / inadequate performance or for any other reason.
2.7	The banning shall be with prospective effect, i.e., future business dealings.

#### 3. Definitions

In these Guidelines, unless the context otherwise requires:

i)	'Bidder / Contractor / Supplier / Purchaser / Customer' shall mean and include a public limited company or a private limited company, a firm whether registered or not, an individual, a cooperative society or an association or a group of persons engaged in any commerce, trade, industry, etc. 'Bidder / Contractor / Supplier / Purchaser / Customer' in the context of these
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	guidelines is indicated as 'Agency'.
ii)	'Inter-connected Agency' shall mean two or more companies having any of the following features:
a)	If one is a subsidiary of the other.
b)	If the Director(s), Partner(s), Manager(s) or Representative(s) are common;
c)	If management is common;
d)	If one owns or controls the other in any manner;
iii)	'Competent Authority' and 'Appellate Authority' shall mean the following:
a)	Functional Director shall be the 'Competent Authority' for the purpose of these guidelines. CMD, MDL shall be the 'Appellate Authority'.
b)	CMD, MDL shall have overall power to take suo-moto action on any information available or received by him and pass such order(s) as he may think appropriate, including modifying the order(s) passed by any authority under these guidelines.
iv)	'Investigating Department' shall mean any Department or Unit investigating into the conduct of the Agency and shall include the Vigilance Department, Central Bureau of Investigation, the State Police or any other department set up by the Central or State Government having powers to investigate.
v)	'List of approved Agencies – Bidder / Contractors / Suppliers / Purchasers / Customers shall mean and include list of approved / registered Agencies - Bidder / Contractors / Suppliers / Purchasers / Customers, etc.

#### 4. Initiation of Banning / Suspension

	Action for banning / suspension business dealings with any Agency should be initiated by the department having business dealings with them after noticing the irregularities or misconduct on their part. Besides the concerned department, Vigilance Department may also be competent to initiate such action.
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#### 5. Suspension of Business Dealings

5.1	If the conduct of any Agency dealing with MDL is under investigation by any department, the Competent Authority may consider whether the allegations under investigation are of a serious nature and whether pending investigation, it would be advisable to continue business dealing with the Agency. If the Competent Authority, after consideration of the matter including the recommendation of the Investigating Department, if any, decides that it would not be in the interest to continue business dealings pending investigation, it may suspend business dealings with the Agency. The order to this effect may indicate a brief of the charges under investigation. If it is decided that inter-connected Agencies would also come within the ambit of the order of suspension, the same should be specifically stated in the order. The order of suspension would operate for a period not more than six months and may be communicated to the Agency as also to the Investigating Department. The Investigating Department may ensure that their investigation is completed and whole process of final order is over within such period.
5.2	The order of suspension shall be communicated to all Commercial Departmental Heads. During the period of suspension, no business dealing may be held with the Agency.
5.3	As far as possible, the existing contract(s) with the Agency may continue unless the Competent Authority, having regard to the circumstances of the case, decides otherwise.
5.4	If the gravity of the misconduct under investigation is very serious and it would not be in the interest of MDL, as a whole, to deal with such an Agency pending investigation, the Competent Authority may order suspension of business dealing with Agency and send his recommendation to Chief Vigilance Officer (CVO), MDL along with the material available, copy of which may be issued to the Agency concerned with intimation to CVO MDL. Such an order would operate for a period of six months from the date of issue.
5.5	If the Agency concerned asks for detailed reasons of suspension, the Agency may be informed that its conduct is under investigation. It is not necessary to enter into correspondence or argument with the Agency at this stage.
5.6	It is not necessary to give any show-cause notice or personal hearing to the Agency before issuing the order of suspension. However, if investigations are not complete in six months' time, the Competent Authority may extend the period of suspension by another three months, during which period the investigations must be completed.



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### 6. Ground on which Banning of Business Dealings can be initiated

6.1	If the security consideration, including questions of loyalty of the Agency to the State, so warrants;
6.2	If the Director / Owner of the Agency, proprietor or partner of the firm, is convicted by a Court of Law for offences involving moral turpitude in relation to its business dealings with the Government or any other public sector enterprises or MDL, during the last five years;
6.3	If there is strong justification for believing that the Directors, Proprietors, Partners, owner of the Agency have been guilty of malpractices such as bribery, corruption, fraud, substitution of tenders, interpolations, etc;
6.4	If the Agency continuously refuses to return / refund the dues of MDL without showing adequate reason and this is not due to any reasonable dispute which would attract proceedings in arbitration or Court of Law;
6.5	If the Agency employs a public servant dismissed / removed or employs a person convicted for an offence involving corruption or abetment of such offence;
6.6	If business dealings with the Agency have been banned/blacklisted by Government Agencies/ Statutory bodies, DGQA, Defence Shipyards, DPSUs or with whom commercial transactions have been suspended for sufficient and justifiable reasons. If the Agency having same promoters/Directors /Partners as the barred/blacklisted Company as at 6.6 above for the duration for which the barring/ blacklisting of sister concern persists.
6.7	If the Agency has resorted to Corrupt, fraudulent practices including misrepresentation of facts; If the agency who had fraudulently dealt with the Company for pecuniary gains or had connived with dealing officers for mutual benefit.
6.8	If the Agency uses intimidation / threatening or brings undue outside pressure on the MDL or its official in acceptance / performances of the job under the contract;
6.9	If the Agency indulges in repeated and / or deliberate use of delay tactics in complying with contractual stipulations;
6.10	Wilful indulgence by the Agency in supplying sub-standard material irrespective of whether pre-dispatch inspection was carried out by MDL or not;
6.11	Based on the findings of the investigation report of CBI / Police against the Agency for malafide / unlawful acts or improper conduct on his part in matters relating to the MDL or even otherwise;
6.12	Established litigant nature of the Agency to derive undue benefit;
6.13	Continued poor performance of the Agency in several contracts;
6.14	If the Agency misuses the premises or facilities of the MDL, forcefully occupies, tampers or damages the Company's properties including land, water resources, forests / trees, etc. If the Agency who knowingly collude to defeat competition with the aim of deriving undeserved profit or gain from doing business with MDL. (Note: The examples given above are only illustrative and not exhaustive. The Competent Authority may decide to ban business dealing for any good and sufficient reason).

### 7. Banning of Business Dealings

7.1	Decision to ban business dealings with any Agency would apply throughout the Company.
7.2	There will be a Standing Committee to be appointed by the CMD which may include HOD of respective Commercial Section/Capital Works/OTS, HOD (M), rep of Legal Dept. and OIC (SR&R) for processing the cases of "Banning of Business Dealings". The functions of the committee shall, inter-alia include: i) To study the report of the Investigating Agency and decide if a prima-facie case for banning exists, if not, send back the case to the Competent Authority. ii) To recommend for issue of show-cause notice to the Agency by the concerned department. iii) To examine the reply to show-cause notice and call the Agency for personal hearing, if required. iv) To submit final recommendation to the Competent Authority for banning or otherwise.
7.3	If the Competent Authority is prima-facie of view that action for banning business dealings with the Agency is called for, a show-cause notice may be issued to the Agency as per



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	paragraph 9.1 and an enquiry held accordingly.
<b>8</b>	<b>Removal from List of Approved Agencies - Suppliers / Contractors, etc.</b>
8.1	If the Competent Authority decides that the charge against the Agency is of a minor nature, it may issue a show-cause notice as to why the name of the Agency should not be removed from the list of approved Agencies - Suppliers / Contractors, etc.
8.2	The effect of such an order would be that the Agency would not be disqualified from competing in Open Tender Enquiries but LTE may not be given to the Agency concerned.
8.3	Past performance of the Agency may be taken into account while processing for approval of the Competent Authority for awarding the contract.
<b>9.</b>	<b>Show-cause Notice</b>
9.1	In case where the Competent Authority decides that action against an Agency is called for, a show-cause notice has to be issued to the Agency. Statement containing the imputation of misconduct or misbehavior may be appended to the show-cause notice and the Agency should be asked to submit within 15 days a written statement in its defence.
9.2	If the Agency requests for inspection of any relevant document in possession of MDL, necessary facility for inspection of documents may be provided.
9.3	The Competent Authority may consider and pass an appropriate speaking order:
	a) For exonerating the Agency if the charges are not established;
	b) For removing the Agency from the list of approved Suppliers / Contractors, etc.
	c) For banning the business dealing with the Agency.
9.4	If it decides to ban business dealings, the period for which the ban would be operative may be mentioned. The order may also mention that the ban would extend to the interconnected Agencies of the Agency.
<b>10.</b>	<b>Appeal against the Decision of the Competent Authority</b>
10.1	The Agency may file an appeal against the order of the Competent Authority banning business dealing, etc. The appeal shall lie to Appellate Authority. Such an appeal shall be preferred within one month from the date of receipt of the order banning business dealing, etc.
10.2	Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the Agency as well as the Competent Authority.
<b>11.</b>	<b>Review of the Decision by the Competent Authority</b>
	Any petition / application filed by the Agency concerning the review of the banning order passed originally by Competent Authority under the existing guidelines either before or after filing of appeal before the Appellate Authority or after disposal of appeal by the Appellate Authority, the review petition can be decided by the Appellate Authority upon disclosure of new facts / circumstances or subsequent development necessitating such review. The Competent Authority may refer the same petition to the separate Standing Committee which may be constituted by Appellate Authority for examination and recommendation.
<b>12.</b>	<b>Circulation of the names of Agencies with whom Business Dealings have been banned</b>
12.1	Depending upon the gravity of misconduct established, the Competent Authority may direct HOD (Materials)/OIC (SR&R) to circulate the names of Agency with whom business dealings have been banned, to the Government Departments, other Public Sector Enterprises, etc. for such action as they deem appropriate.
12.2	If Government Departments or a Public Sector Enterprise request for more information about the Agency with whom business dealings have been banned, a copy of the report of Inquiring Authority together with a copy of the order of the Competent Authority / Appellate Authority may be supplied.
12.3	If business dealings with any Agency have been banned by the Central or State Government or any other Public Sector Enterprise, MDL may, without any further enquiry or investigation, issue an order banning business dealing with the Agency and its inter-connected Agencies.



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### **PROFORMA BANK GUARANTEE FOR FREE ISSUE MATERIAL** (ILLUSTRATIVE FORMAT)

(On Non-Judicial stamp paper of value Rs. 500/- . However, the value of stamp paper to be confirmed from Legal Department, MDL.)

IN CONSIDERATION OF MAZAGON DOCK SHIPBUILDERS LIMITED, a company incorporated under the Companies Act 1956 and having its registered office at Dockyard Road, Mumbai 400010 (hereinafter referred to as the "the Company" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) having placed an order on Messers ..... a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its office at .....(hereinafter called " the Contractor/ Supplier" which expression shall, unless it be repugnant or contrary to the subject or context thereof, be deemed to mean and include its successors and assigns) vide order no.....dated..... (hereinafter called "the order" which expression shall include any amendments/alterations to "the order" issued by "the Purchaser") which, inter alia, provides for the issuance of materials such as MS/AL Sheets, Steel, Component etc free of cost to the Contractor/ Supplier for Galvanising, heat treatment, Fabrication, Fitment etc. on returnable basis subject to furnishing a Bank Guarantee equivalent to the value of materials supplied by the Contractor / Supplier to the Company, We, ..... Bank having office at ..... (hereinafter referred to as "the Bank" which expression shall includes its successors and assigns) hereby agree to pay to the Company without any demur on first demand an amount not exceeding Rs..... (Rupees.....only) against any loss or damage, costs, charges and expenses caused to or suffered by the Company by reason of non performance and nonfulfillment or for any breach on the part of the Contractor / Supplier of any of the terms and conditions of the said order.

2. We, ..... Bank further agree that the Purchaser shall be sole judge whether the said Contractor/Supplier has failed to perform or fulfil the said order in terms thereof or committed breach of any terms and conditions of the order and the extent of loss, damage, cost, charges and expenses suffered or incurred or would be suffered or incurred by the Company on account thereof and we waive in the favour

of the Purchaser all the rights and defences to which we as guarantors may be entitled to.

3. We, ..... Bank further agree that the amount demanded by the Company as such shall be final and binding on the Bank as to the Bank 's liability to pay and the amount demanded and the Bank undertake to pay the Company the amount so demanded on first demand and without any demur notwithstanding any dispute raised by the Contractor/Supplier or any suit or other legal proceedings including arbitration pending before any court, tribunal or arbitrator relating thereto, our liability under this guarantee being absolute and unconditional.

4. We, ..... Bank further agree with the Company that the Purchaser shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order/or to extend time of performance by the Company from time to time or to postpone for any time to time any of the powers exercisable by the Company against the Contractor/ Supplier and to forbear to enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the Contractor/ Supplier or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the Contractor/Supplier or by any such matter or things whatsoever which under the law relating to sureties would have the effect of relieving us.

5. We, ..... Bank further undertake not to revoke this guarantee during its currency except with the previous consent of the Purchaser in writing.

6. We, ..... Bank also agree that the Bank's liability under this guarantee shall not be affected by any change in the constitution of the Contractor / Supplier.

7. Notwithstanding anything contained herein above:

i) Our liability under this guarantee shall not exceed Rs.....

ii) This Bank Guarantee shall be valid upto and including .....; and

iii) We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before .....(validity + ---weeks from the date of expiry of this guarantee).



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8. This Guarantee shall be governed by Indian laws and the Courts at Mumbai, India shall have the exclusive jurisdiction.

IN WITNESS WHEREOF the Bank has executed this document on this..... day of

For ..... Bank

(by its constituted attorney)

(Signature of a person authorised to sign on behalf of 'the Bank')

**BLANK RATE SHEET FOR GEM/2026/B/7168677 (PROCUREMENT OF STERN TUBE TS and NGOPV 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	100,200	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16401) and Documentation	1	SET	16401							
2	300,400	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16402) and Documentation	1	SET	16402							
3	500,600	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16403) and Documentation	1	SET	16403							
4	700,800	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16404) and Documentation	1	SET	16404							
5	900,1000	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16405) and Documentation	1	SET	16405							
6	1100,1200	One shipset (01 Qty Port & 01 Qty Stbd) Stern tube as per the SOTR MDL/DR/CGP/NGOPV/2015 and Drawing No. 1114-01 (Y16406) and Documentation	1	SET	16406							
7	1300,1400	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) and Documentation	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>CGP – Training Ship</b>
<b>MDL YARD NO</b>	:	<b>16101</b>
<b>CLIENT</b>	:	<b>INDIAN COAST GUARD</b>
<b>DOCUMENT NO</b>	:	<b>MDL/DR/CGP/TS/2014</b>

3	2.8.3, 3.2 material and transport clause updated	13/01/2026	MDL
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	
<b>Re.</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>AUTH.</b>
			
	<b>Vishnu Dhaked M(D-S)</b>	<b>Dodde Saganandam CM(D-S)</b>	<b>V S Wagh DGM/ HOS (D-S)</b>
	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>



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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.

## 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.



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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.
- 2.8.3. The Transport cost for the Free issue material ( ABS Grade B plates) for the fabrication of stern tube shall be borne by the supplier. After the fabrication of the stern tube remaining material shall be returned to MDL.

## 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



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the goods 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



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supplier. 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. The ABS Grade B Material for fabrication of Stern tube will be provided by MDL. 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 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



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- 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 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.



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### 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%

### 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.



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## 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, 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>	





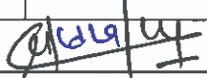
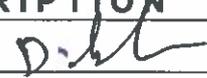
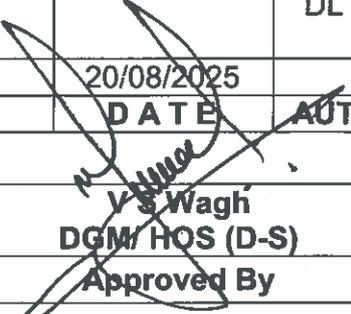


**MAZAGON DOCK SHIPBUILDERS LIMITED**  
(A Govt. Of India Undertaking)

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

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

<b>PROJECT</b>	:	<b>CGP – NGOPV</b>
<b>MDL YARD NO</b>	:	<b>16401/2/3/4/5/6</b>
<b>CLIENT</b>	:	<b>INDIAN COAST GUARD</b>
<b>DOCUMENT NO</b>	:	<b>MDL/DR/CGP/NGOPV/2015</b>

2	2.8.3, 3.2 material and transport clause updated	21/01/2026	MDL
1	CGHQ comments received vide letter SA/0159/06NGOPVs/12 dated 16 Oct 25 are incorporated. Accordingly, section I clause 2.16.1 modified. Notes in Para 2.13.1, 3.2, 3.4.6&3.4.10 is also updated.	04/11/2025	CGH Q/M DL
0	First Issue	20/08/2025	
Re.	<b>DESCRIPTION</b>	<b>DATE</b>	<b>AUTH.</b>
			
	<b>Vishnu Dhaked M(D-S)</b>	<b>Dodde Sadanandam CM(D-S)</b>	<b>N. S. Wagh DGM/ HOS (D-S)</b>
	<b>Prepared By</b>	<b>Checked By</b>	<b>Approved By</b>



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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 Six NGOPV 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 NGOPV is +A1 HSC (E) (Special Government Service)+AMS NIBS +ACC+DPS-1, 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 30 years with annual exploitation rate up to 2500 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 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 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 to get QAP approved 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 manufacturing drawing 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.
- 2.8.3. The Transport cost for the Free issue material ( ABS Grade B plates) for the fabrication of stern tube shall be borne by the supplier. After the fabrication of the stern tube remaining material shall be returned to MDL.

## 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



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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 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	NGOPV Y16401	Jul'27
2	NGOPV Y16402	Dec'27
3	NGOPV Y16403	May'28
4	NGOPV Y16404	Oct'28
5	NGOPV Y16405	Mar'29
6	NGOPV Y16406	Aug'29



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## 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 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. 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):



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- 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.
- ix. Classification society type/class certificate to be submitted with technical Offer.



MAZAGON DOCK  
SHIPBUILDERS LTD.  
Dockyard Road, Mumbai  
-400 010.

DESIGN STRUCTURAL

SOTR NO.

MDL/DR/CGP/NGOPV/2015

Project - CGP

REV. NO.

02

Stern tube

DATE

21/01/2026

PAGE

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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 plates ABS grade B to be used. The ABS Grade B Material for fabrication of Stern tube will be provided by MDL. 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 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



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SHIPBUILDERS LTD.  
Dockyard Road, Mumbai  
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DESIGN STRUCTURAL	SOTR NO.	MDL/DR/CGP/NGOPV/2015
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	DATE	21/01/2026
Stern tube	PAGE	12 of 16

- 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 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.



MAZAGON DOCK  
SHIPBUILDERS LTD.  
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-400 010.

DESIGN STRUCTURAL

SOTR NO.

MDL/DR/CGP/NGOPV/2015

Project - CGP

REV. NO.

02

DATE

21/01/2026

Stern tube

PAGE

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### 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%

### 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



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-400 010.

DESIGN STRUCTURAL	SOTR NO.	MDL/DR/CGP/NGOPV/2015
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Stern tube	PAGE	14 of 16

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, 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>TELEPHONE NO.</b>		<b>Part No.</b>	
<b>ORDER NO.</b>		<b>EQPT. 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>	



## INDEX

## REVISION

S. NO.	SHT.NO.	DESCRIPTION
1	01	INDEX OF DRGS. AND RECORD OF REVISION.
2	02	TUBE AND FLANGE
3	03	ALIGNMENT AND VENT HOLE FOR CHOCKFASTING DETAIL.
4	04	RING DETAILS AND GENERAL NOTES.

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	

REFERENCE DRG.:-

- 1) STERN TUBE DRG NO. DAAF643791 (WARTSILA)

APPLICABLE FOR  
MDL. YARD NOS. 16101

TOLERANCE FOR FABRICATION OF STERN TUBE.

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

Notes:-

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

MC1614B200MSH01R01-STERNTUBE

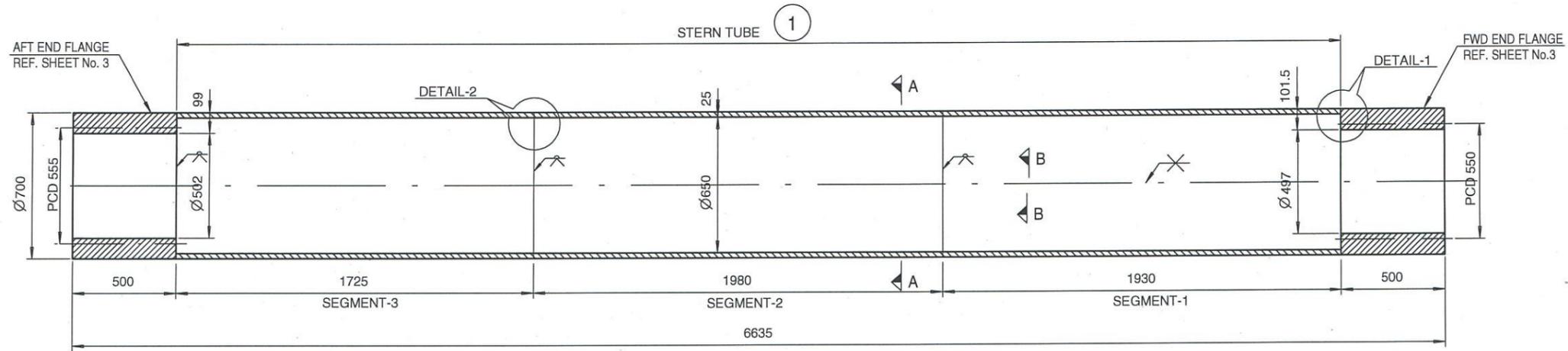


**Mazagon Dock Shipbuilders Limited**  
Dockyard Road, Mumbai-400 010

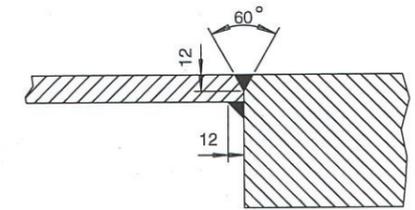
Client **I.C.G.**  
Ship **TS-01**

Title **STERN TUBE**

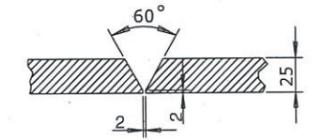
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	---	D'Man	M(D-S)	RGM(D-S)	Date 20-08-2025	Sheet 01 of 04	A3



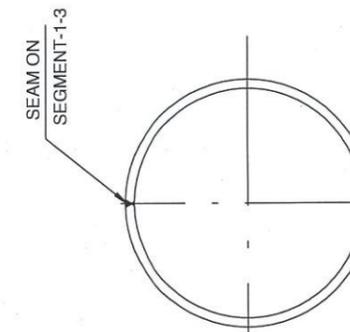
DETAIL OF STERN TUBE



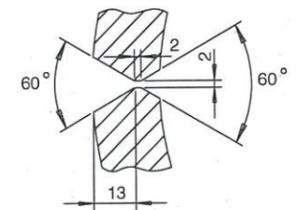
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WELDING DETAIL OF TUBE & FLANGE  
(NTS)



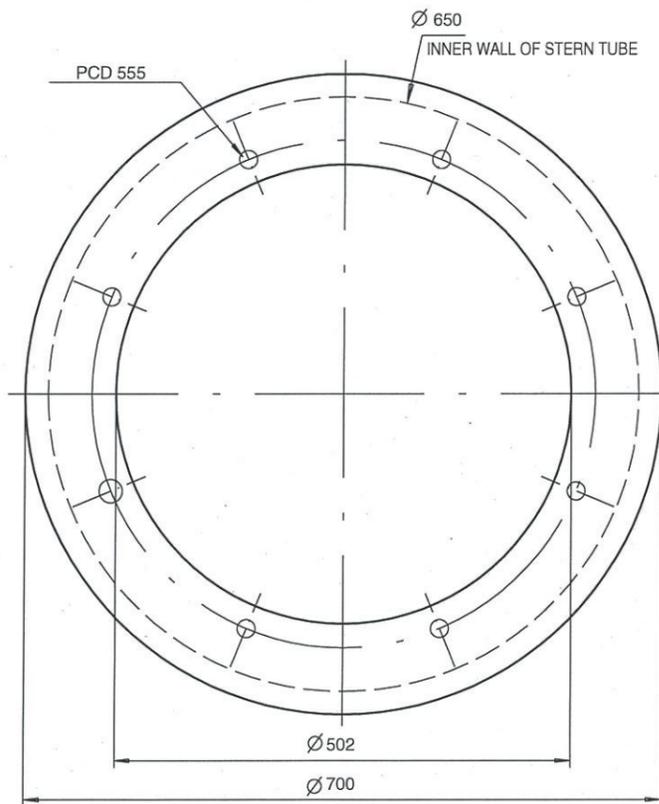
DETAIL -2



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

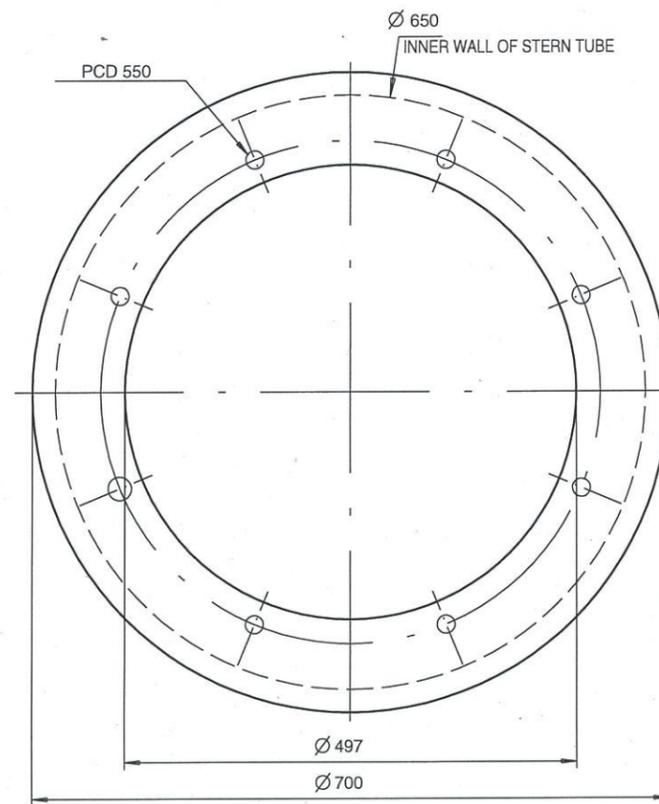


SECTION B-B  
TYP. DETAIL FOR ALL SEGMENT  
SEAMS AT SEGMENT 1 & 2 TO BE  
STAGGERED BY 120 DEGREES.



DETAIL OF AFT END FLANGE

2



DETAIL OF FWD END FLANGE

3

MF1614B200M-STERN TUBE DETAILS SH02-AF651



Mazagon Dock Shipbuilders Limited  
Dockyard Road, Mumbai-400 010

Client I.C.G.  
Ship TS-01

Title  
**STERN TUBE**

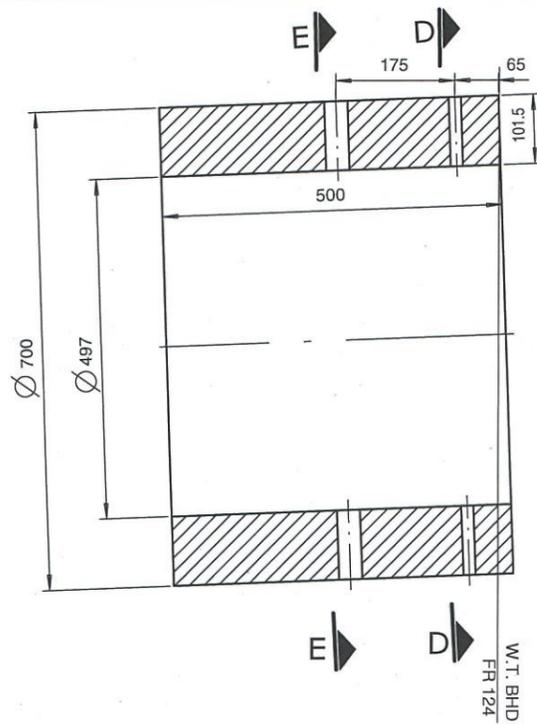
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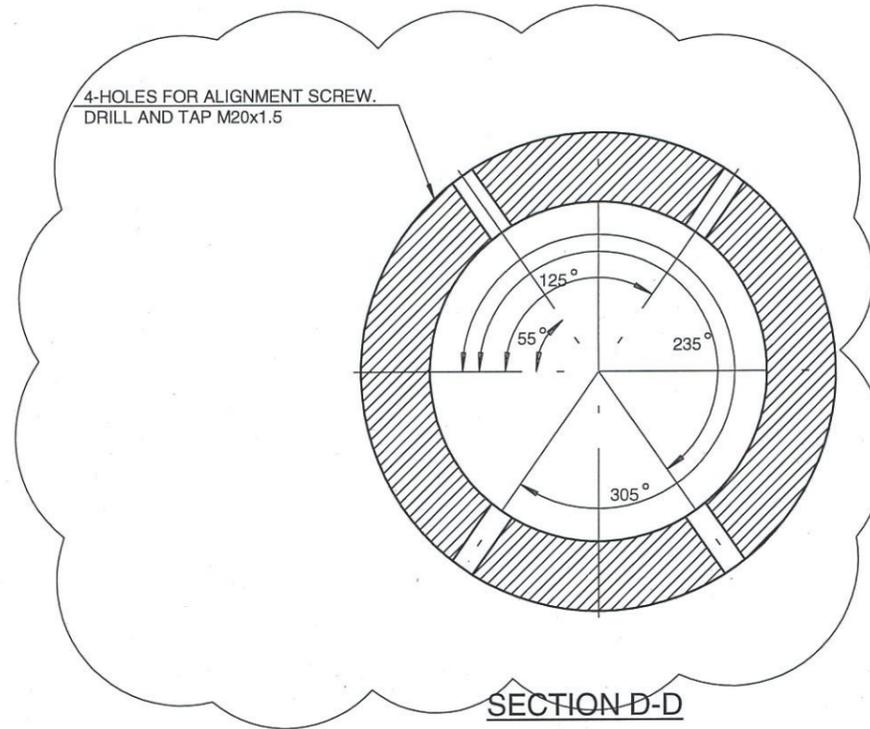
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Date 20-08-2025

Drawing no. **1114-01**  
Sheet 02 of 04

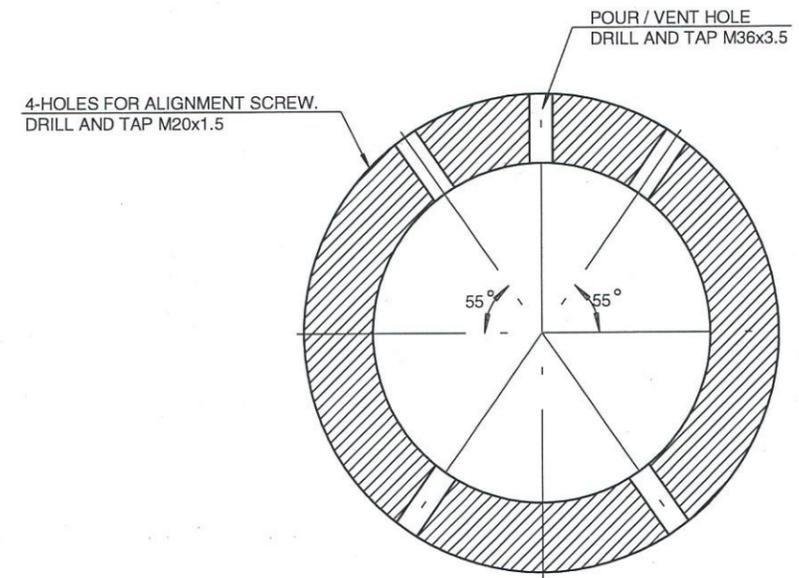
Rev. **1**  
A3



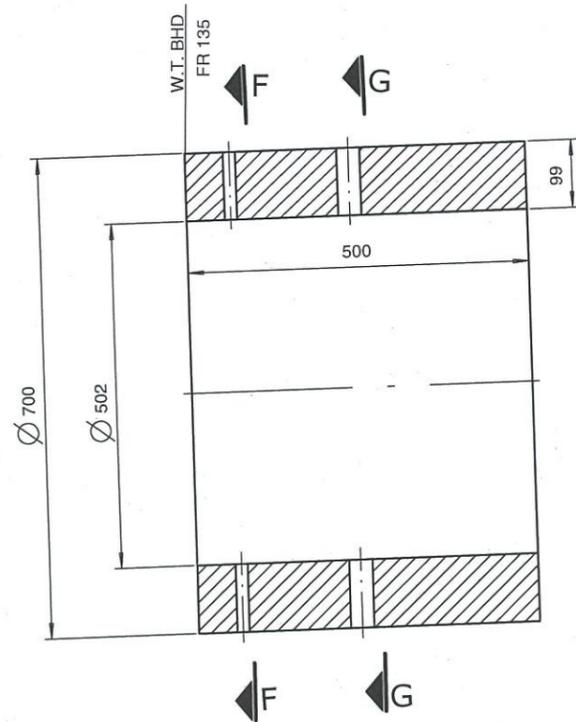
**DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING.  
FWD-END FLANGE**



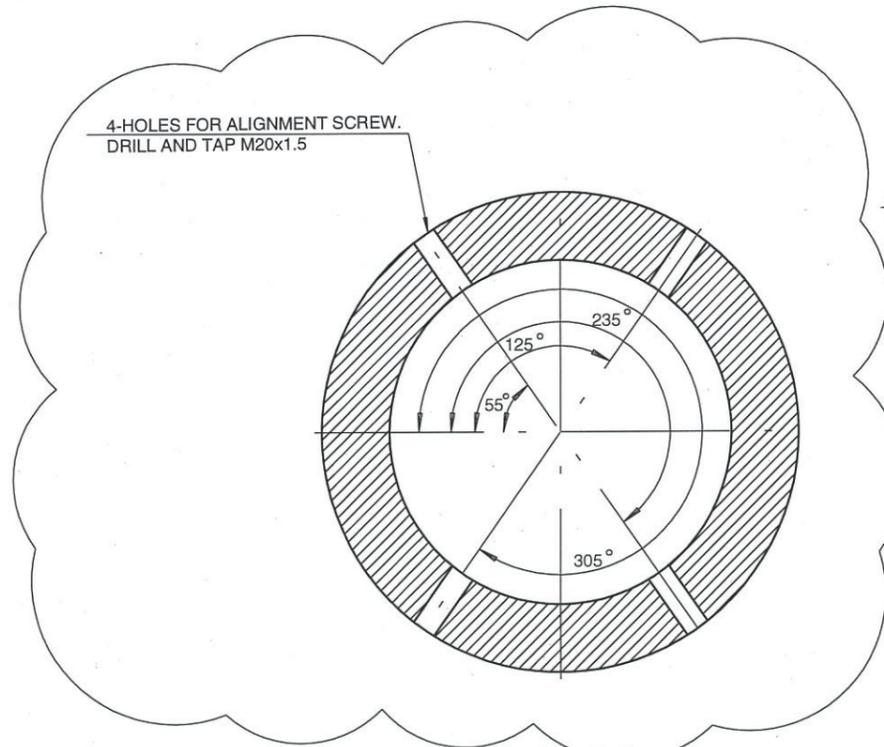
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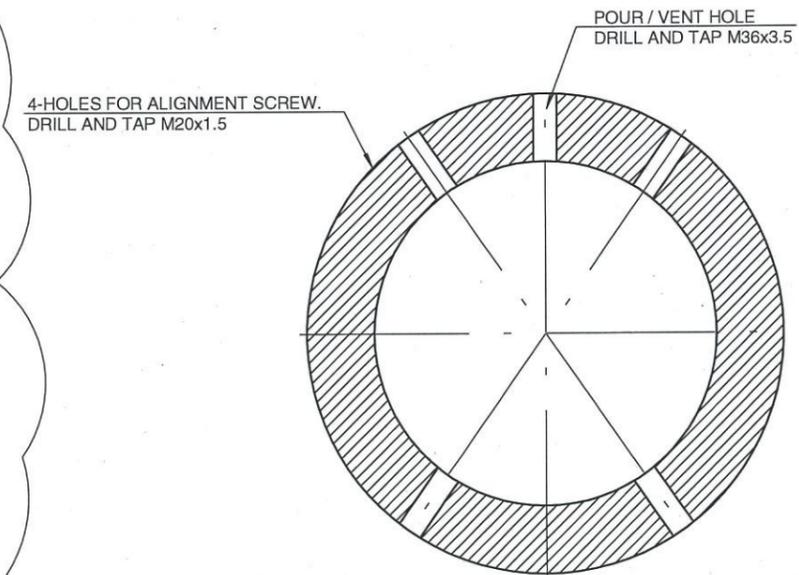
**SECTION E-E**



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



**SECTION F-F**



**SECTION G-G**

MC1614B200MSH03R01-STERNTUBE



**Mazagon Dock Shipbuilders Limited**  
Dockyard Road, Mumbai-400 010

Client **I.C.G.**  
Ship **TS-01**

Title **STERN TUBE**

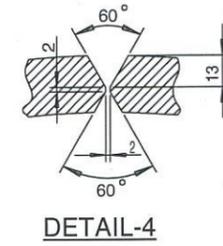
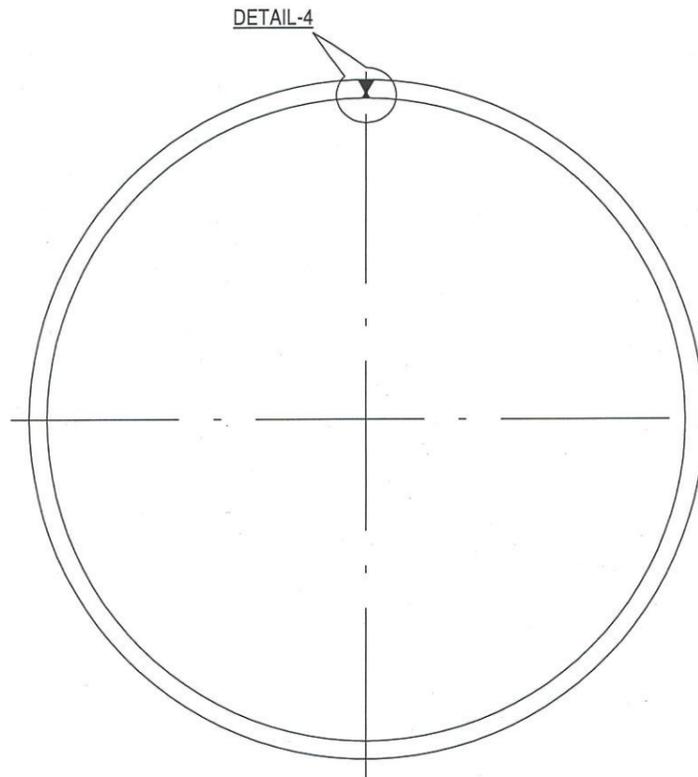
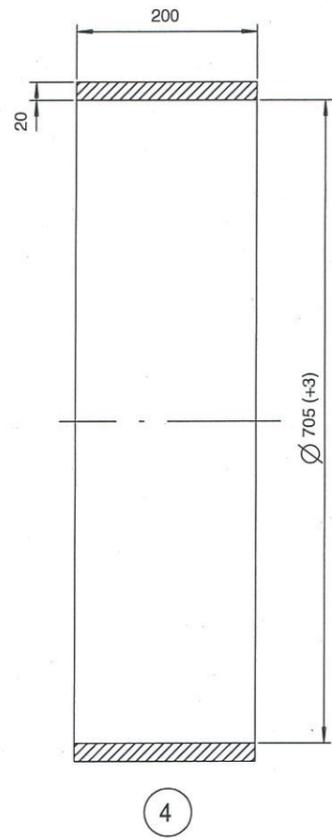
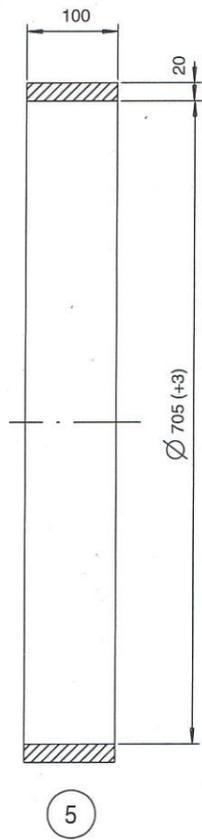
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Desgn	---	D'Man	M(D-S)	DGM(D-S)
Sign.		<i>AKS</i>	<i>cajw</i>	<i>[Signature]</i>

Yard no. **16101**  
Date 20-08-2025

Drawing no. **1114-01**  
Sheet 03 of 04

Rev. **1**  
A3



**DETAIL OF RINGS**

**MATERIAL LIST**

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

**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 DETAILS 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
Desgn	---	D'MAN	M(D-S)	GM(D-S)
Sign.		<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Yard no. **16101**

Drawing no. **1114-01**

Rev. **1**

Date 20-08-2025 Sheet 04 of 04 A3

# INDEX

# REVISION

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1	01	INDEX OF DRGS. AND RECORD OF REVISION.	01	01 TO 06	DWG UPDATED AS PER INPUT RECEIVED FROM D-ENGG EMAIL DATED 27 OCT 2025	MDL	06-11-25	VISHNU
2	02	TUBE, FLANGE AND RING DETAILS (SHAFTING INCLINATION 2°)						
3	03	TUBE, FLANGE AND RING DETAILS (SHAFTING INCLINATION 3.5°)						
4	04	ALIGNMENT AND VENT HOLE FOR CHOCKFASTING DETAIL. (PORT)						
5	05	ALIGNMENT AND VENT HOLE FOR CHOCKFASTING DETAIL. (STBD)						
6	06	GENERAL NOTES.						

**APPLICABLE FOR**  
MDL. YARD NOS. 16401

**TOLERANCE FOR FABRICATION OF STERN TUBE.**

OUT OFF ROUNDNESS	± 3 MM.	
CONCENTRICITY	± 1 MM (OVER OF LENGTH OF 6254 & 6262 MM)	
LENGTH	+ 4 MM	
DIAMETER	± 3 MM.	
WEIGHT	+ 5%	

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

REFERENCE DRG.:-  
1) STERN TUBE OF L&T DRG NO. C028-00000-000 (REV-00)  
2) D-ENGG STERN TUBE DRG DATED 02/09/2025

MC16148200MSH01R01-STERNTUBE

  
**Mazagon Dock Shipbuilders Limited**  
Dockyard Road, Mumbai-400 010

Client: I.C.G.  
Ship: NGOPV

Title: **DETAIL OF STERN TUBE**

Scale		Name		Modelled		Drawn		Checked		Section Head		Yard no.		Drawing no.		Rev.	
Name	Desgn	Sign	...	AAK	...	AAK	DMan	VISHNU	M/D-SI	V.S. WAGH	...	16401	1114-01	1	A3		
												03-11-2025					



Mazagon Dock Shipbuilders Limited  
Dockyard Road,  
Mumbai-400 010

Client  
Ship  
I.C.G.  
NGOPV

Title

STERNTUBE

Scale  
1 : 5

Name  
Design

Modelled

Drawn  
AAK  
DWMAN

Checked  
VISHNU  
M(D-S)

Section Head  
K.S. WAGH  
D(M/S)

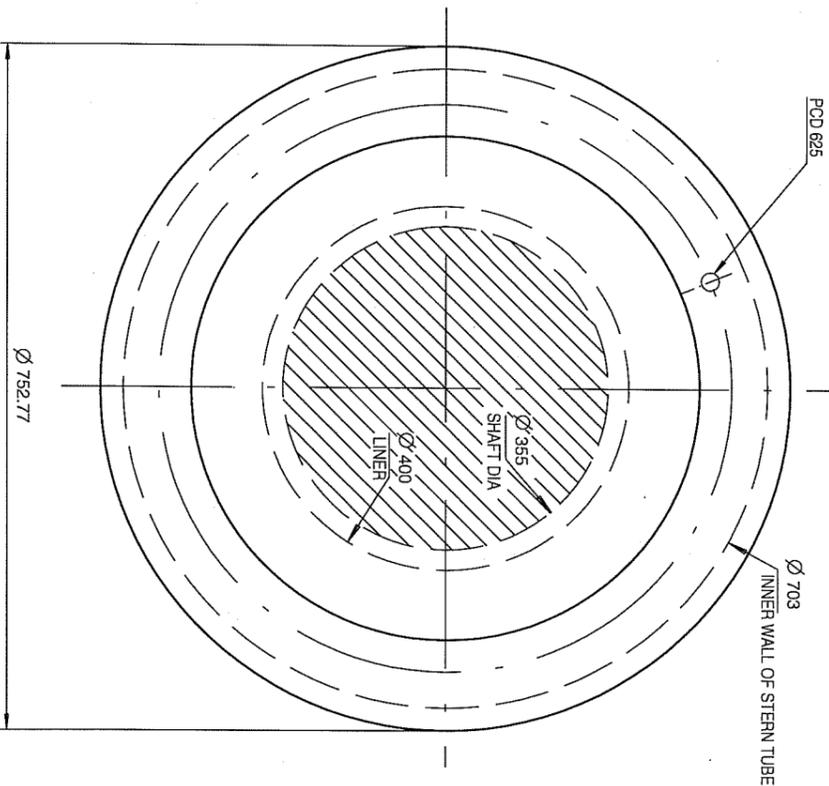
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16401  
Date  
04-09-2025

Drawing no.  
1114-01  
Sheet 02 of 06

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1  
A3

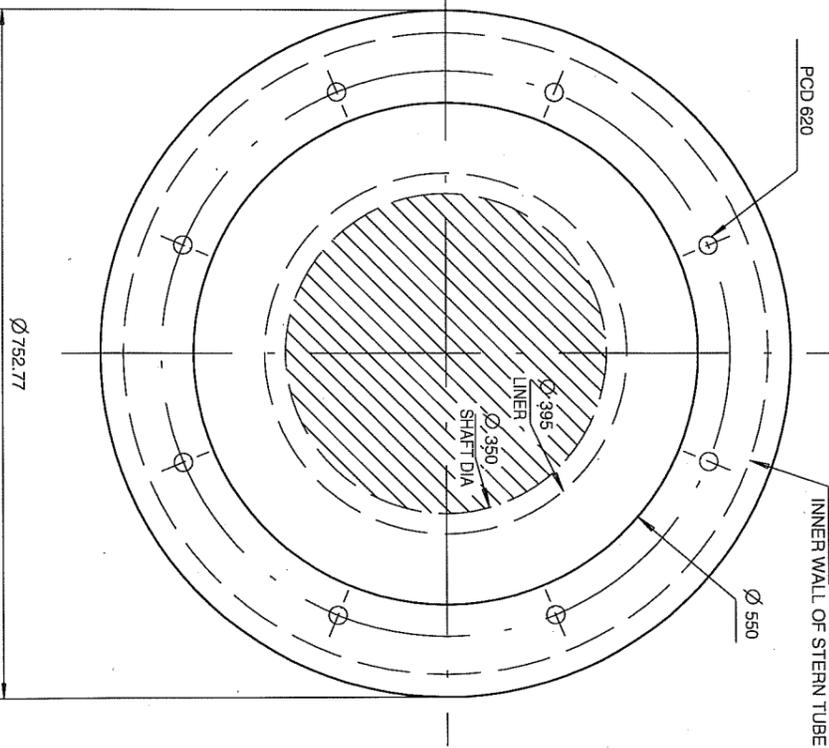
STERNTUBE AFT END FLANGE DETAIL

3

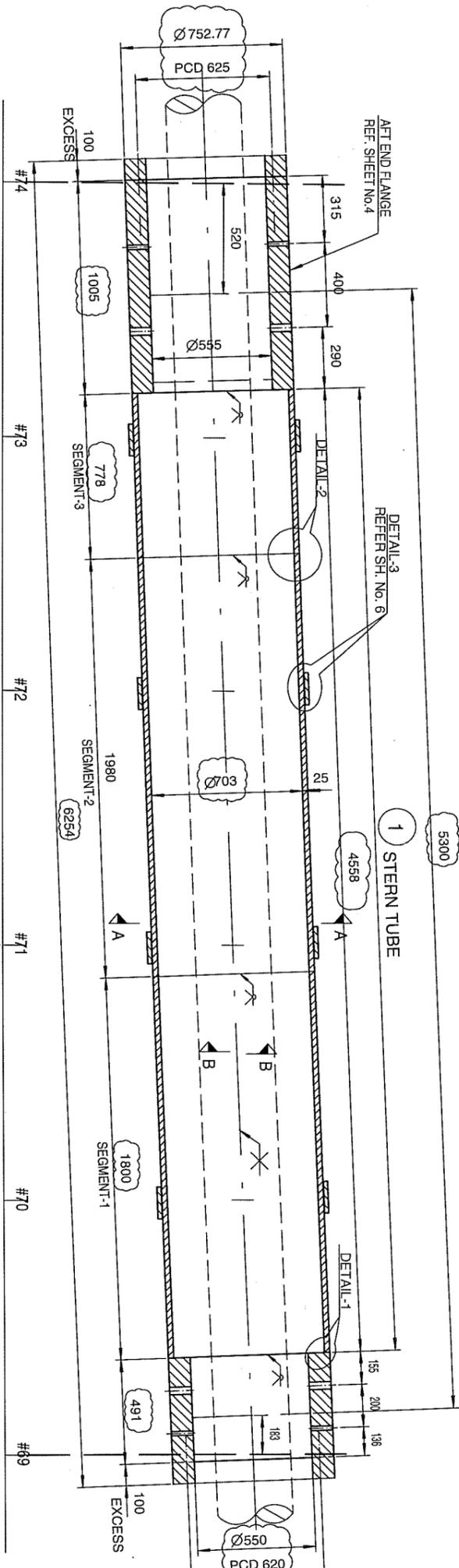


STERNTUBE FWD END FLANGE DETAIL

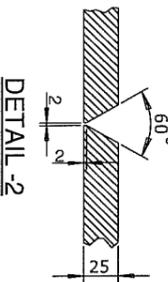
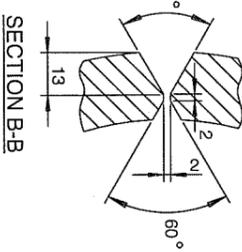
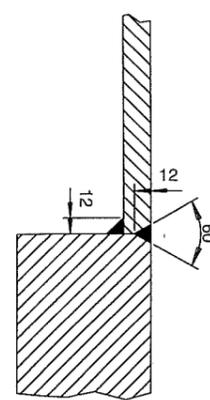
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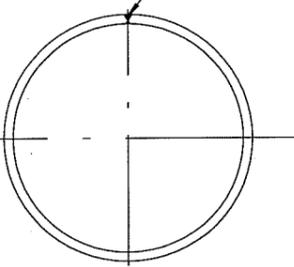
DETAIL OF STERN TUBE - PORT  
WITH SHEETING INCLINATION 2°



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



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



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



Mazagon Dock Shipbuilders Limited  
Dockyard Road,  
Mumbai-400 010

Client  
Ship  
I.C.G.  
NGOPV

Title

STERNTUBE

Scale  
1 : 5

Name  
Design

Modelled

Drawn  
AAK  
DWMAN

Checked  
VISHNU  
M(D-S)

Section Head  
S. WISHU  
D(M-D-S)

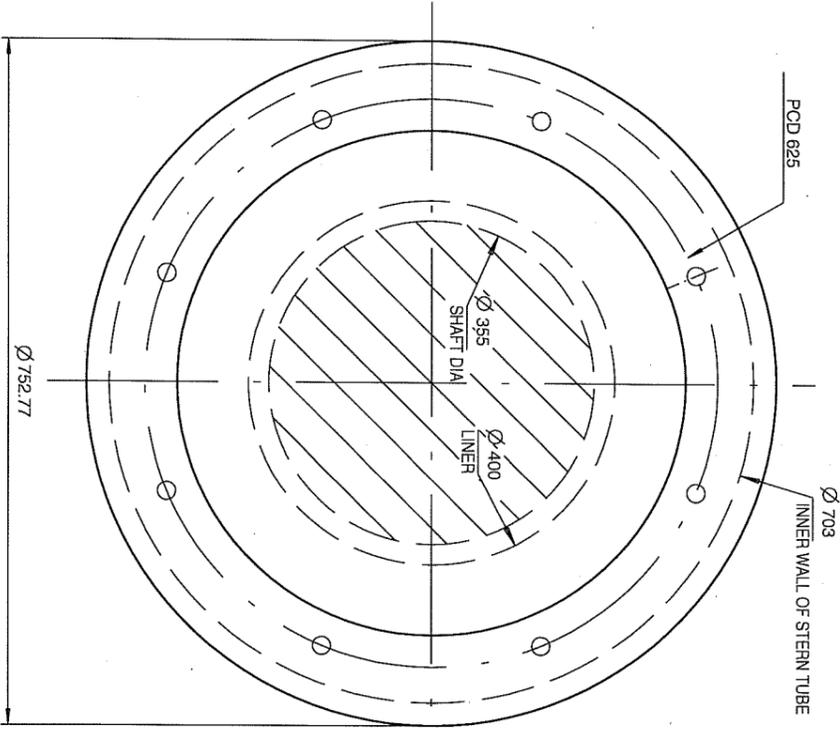
Date  
03-11-2025

Drawing no.  
16401  
1114-01

Rev.  
1

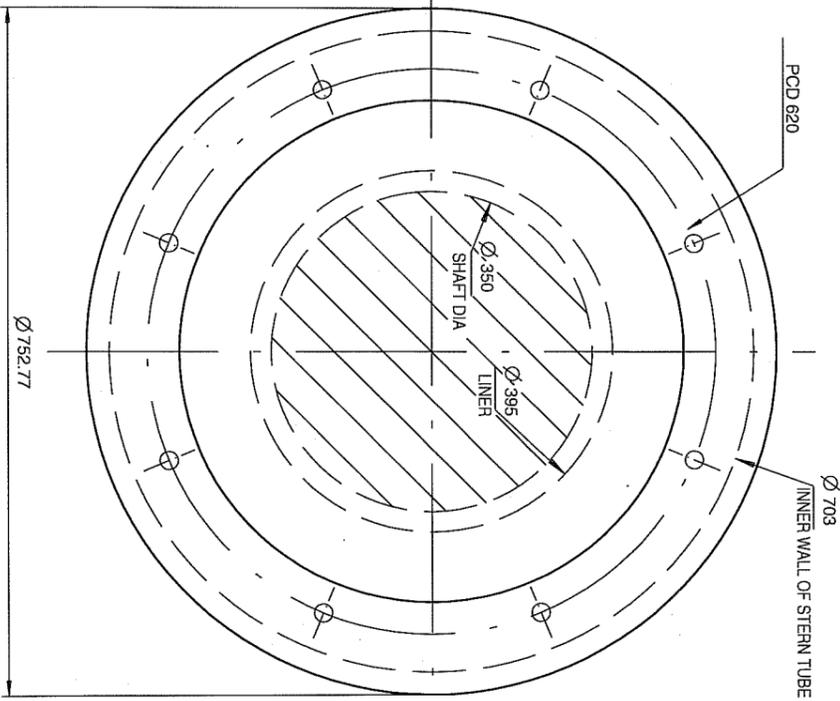
STERNTUBE AFT END FLANGE DETAIL

5

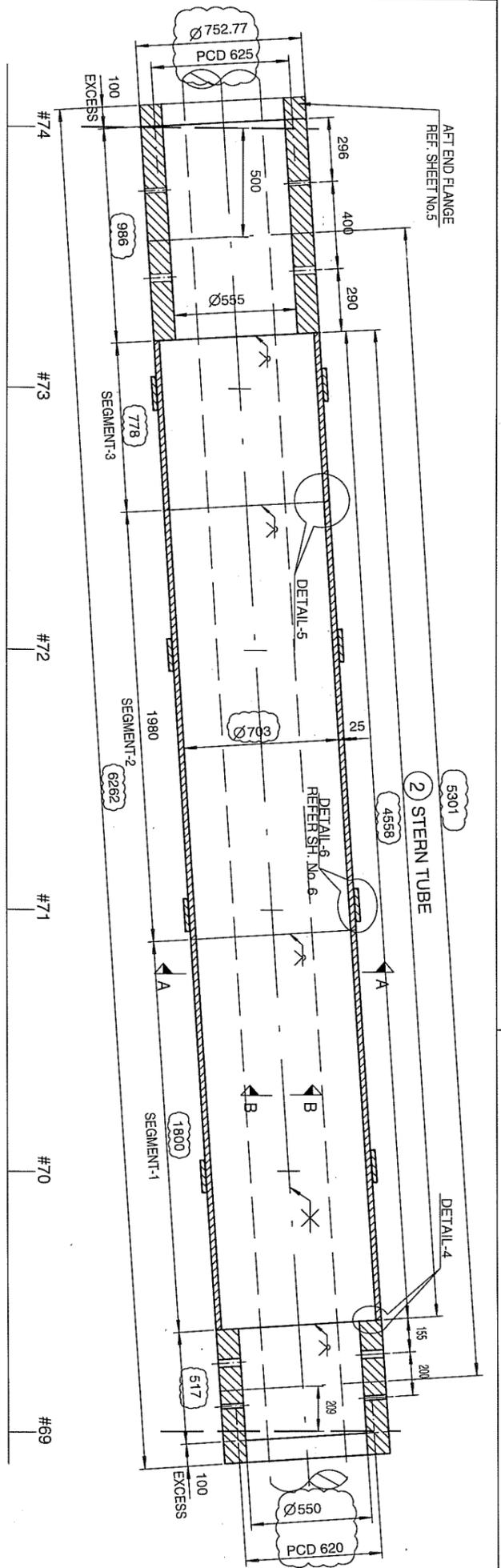


STERNTUBE FWD END FLANGE DETAIL

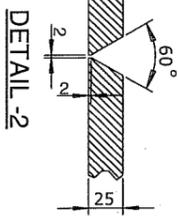
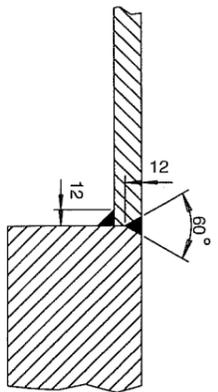
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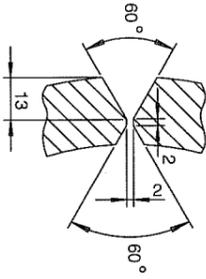
DETAIL OF STERN TUBE - STBD  
WITH SHIFTING INCLINATION 3.5°



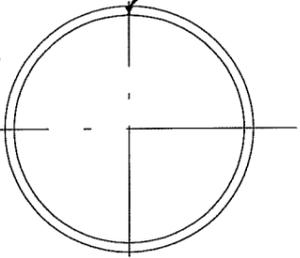
DETAIL -1  
WELDING DETAIL OF TUBE & FLANGE  
(NTS)



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



SEAM ON  
SEGMENT-1-3



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



Mazagon Dock Shipbuilders Limited  
Dockyard Road,  
Mumbai-400 010

Client  
I.C.G.  
Ship  
NGOPV

Title  
STERNTUBE

Scale  
1 : 10

Name  
Design

Modelled

Drawn  
AAK  
DIMAN

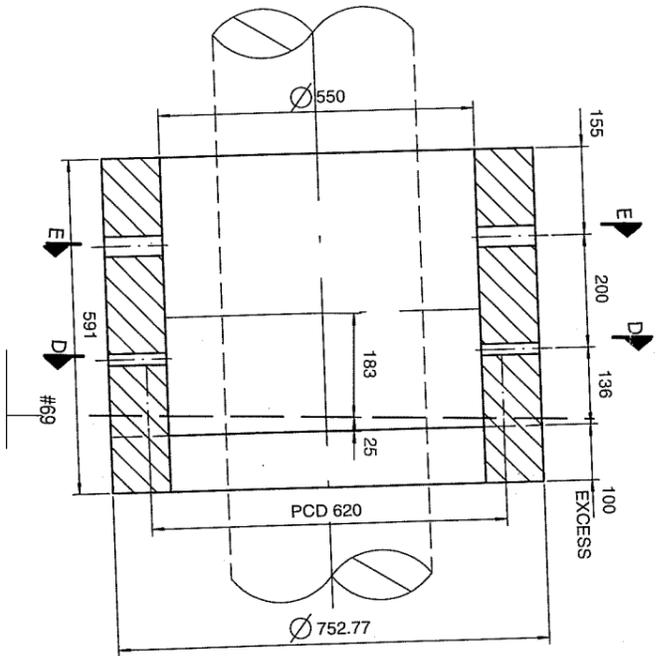
Checked  
VISHNU  
MID-SI

Section Head  
M.S. WADGAONKAR  
(DAMD-S)

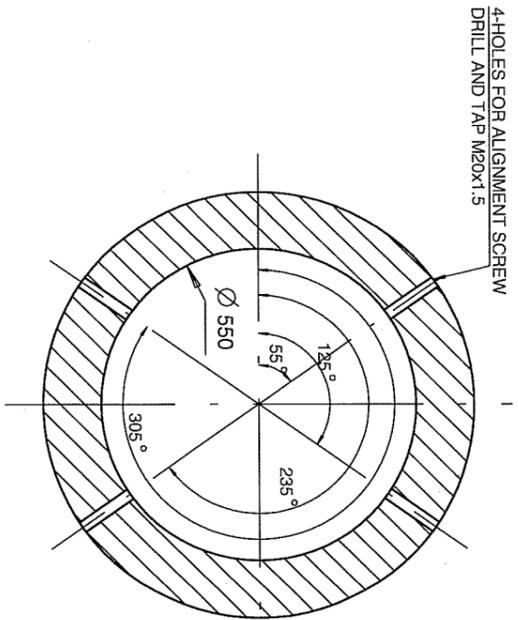
Date  
03-11-2025

Drawing no.  
1114-01  
Sheet 04 of 06

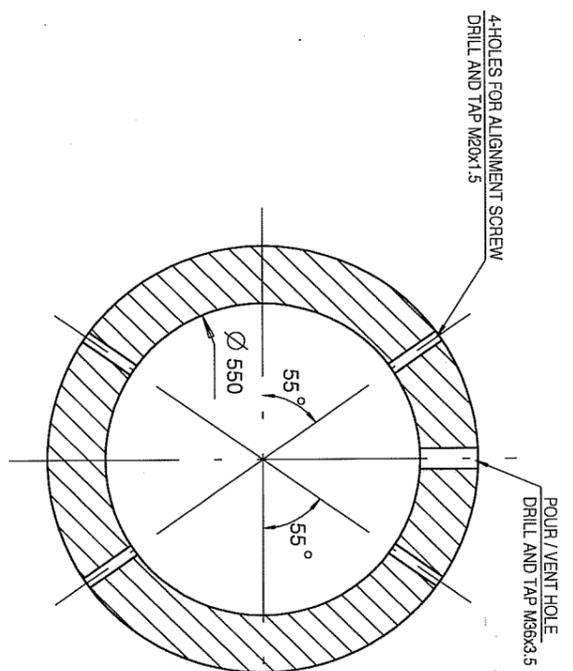
Rev.  
1  
A3



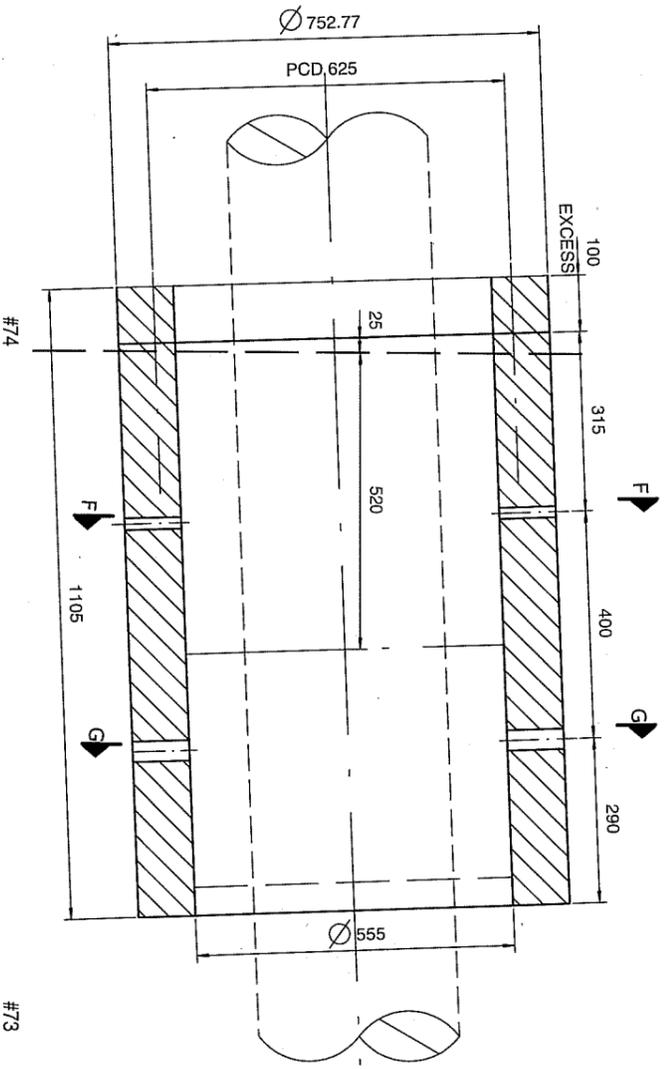
DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING (PORT)  
FWD-END FLANGE



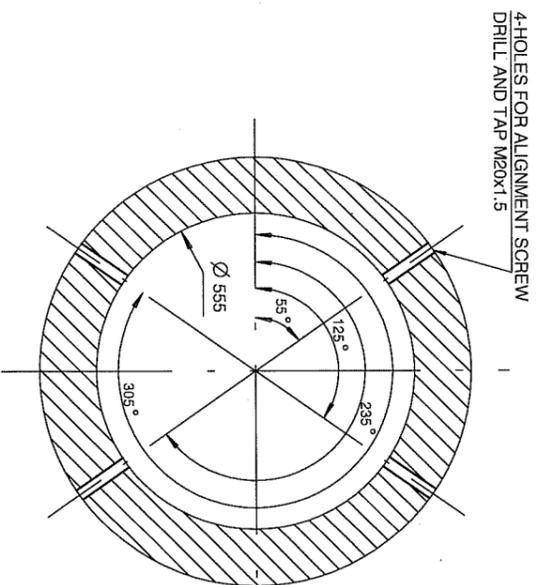
SECTION D-D



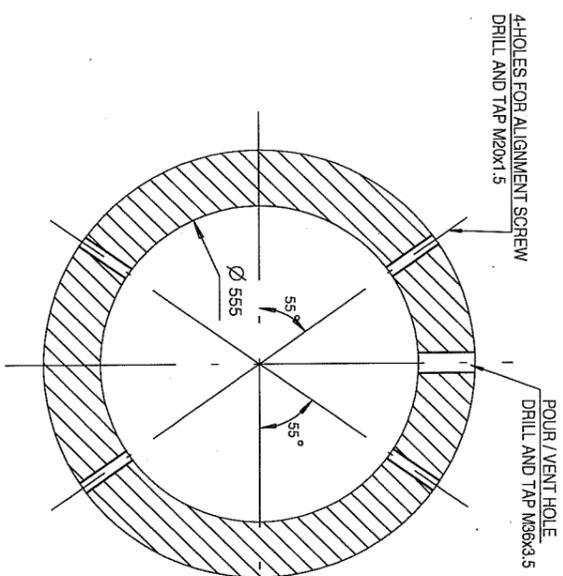
SECTION E-E



DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING (PORT)  
AFT-END FLANGE



SECTION F-F



SECTION G-G



Mazagon Dock Shipbuilders Limited  
Dockyard Road,  
Mumbai-400 010

Client  
I.C.G.  
Ship  
NGOPV

Title

STERNTUBE

Scale  
1 : 10

Name	Modelled	Drawn	Checked	Section Head	Yard no.
Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

Name	Modelled	Drawn	Checked	Section Head	Yard no.
Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

Name	Modelled	Drawn	Checked	Section Head	Yard no.
Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

Name	Modelled	Drawn	Checked	Section Head	Yard no.
Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

Name	Modelled	Drawn	Checked	Section Head	Yard no.
Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

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Design	...	AAK D/Man	VISHNU M/D-SJ	...	...

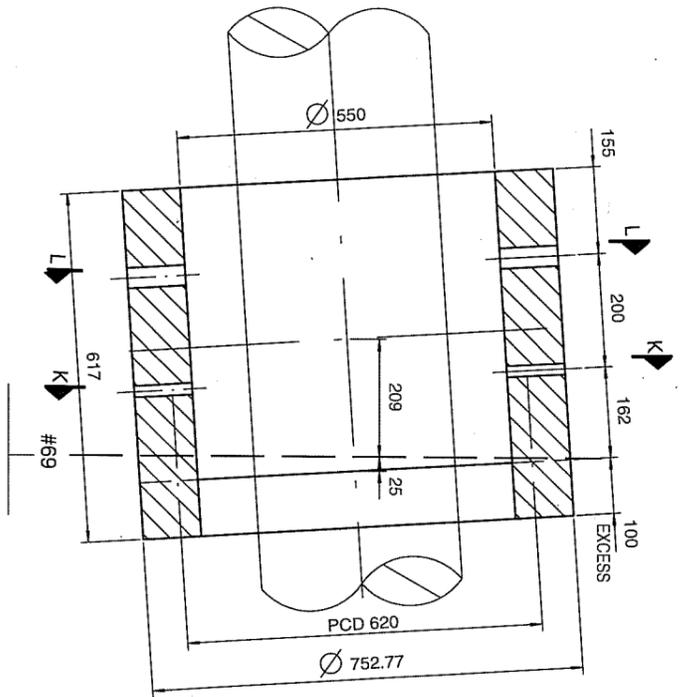
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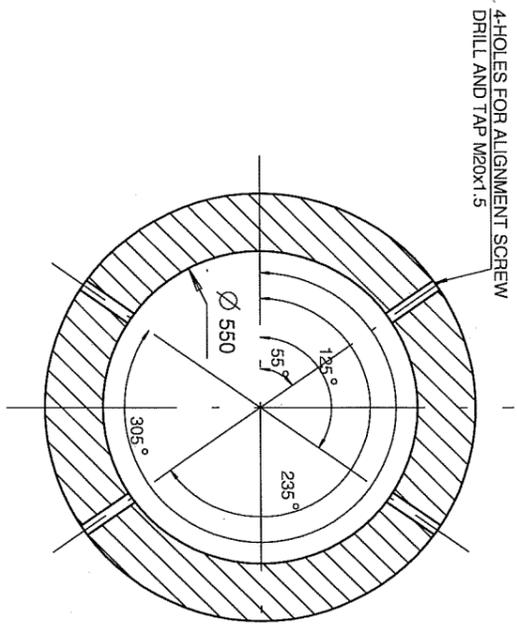
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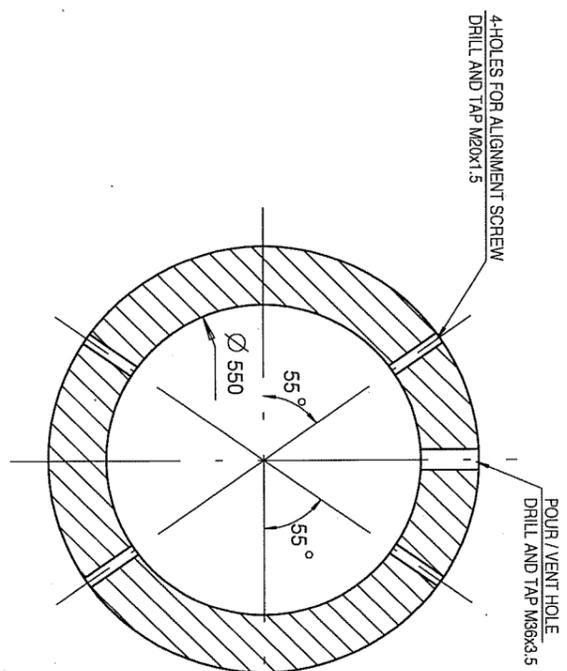
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Design	...	AAK D/Man	VISHNU M/D-SJ	...	...



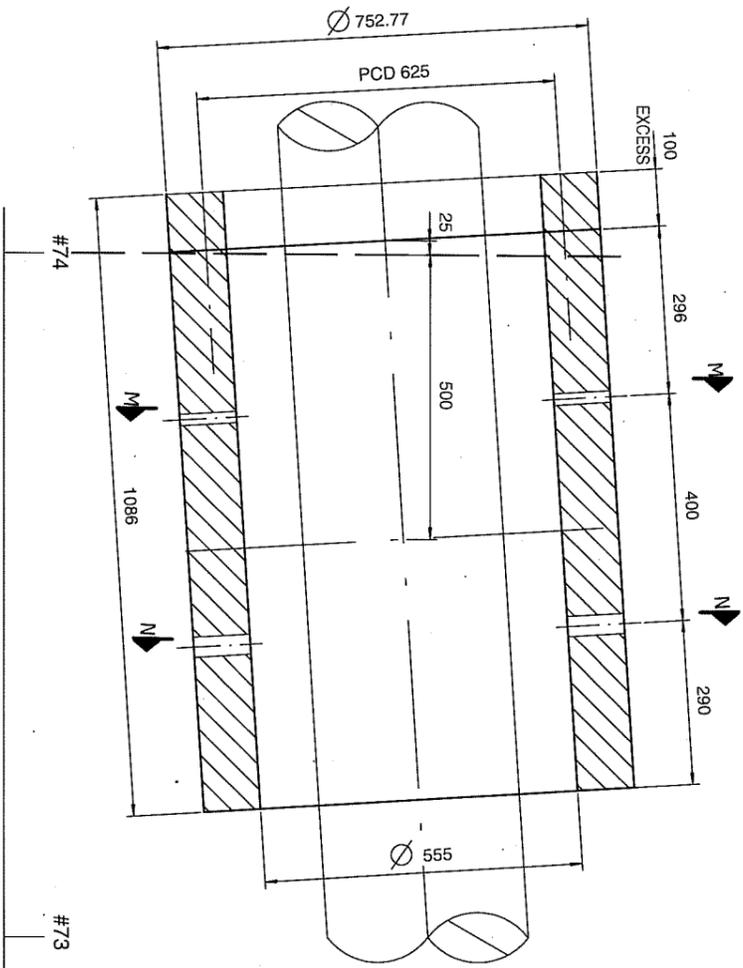
DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING (STBD)  
FWD-END FLANGE



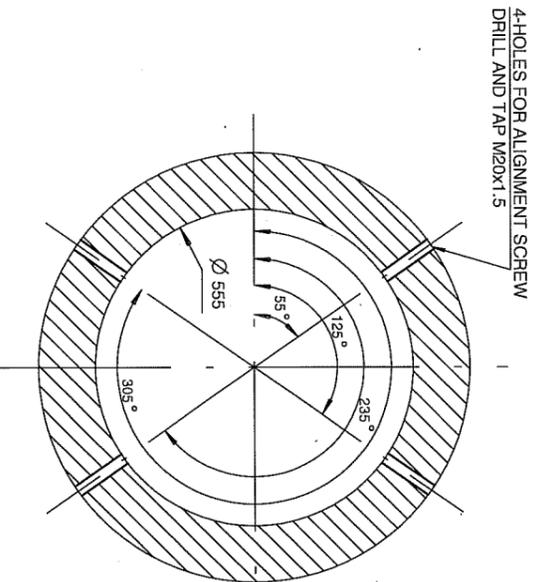
SECTION K-K



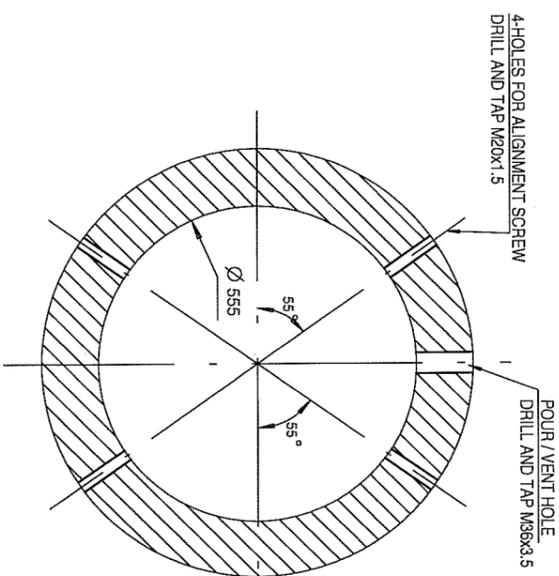
SECTION L-L



DETAIL-ALIGNMENT AND VENT HOLES  
FOR CHOCKFASTING (STBD)  
AFT-END FLANGE



SECTION M-M



SECTION N-N



Mazagon Dock Shipbuilders Limited  
Dockyard Road, Mumbai-400 010

Client: I.C.G.  
Ship: NGOPV

Title: STERN TUBE

Scale: 1 : 5

Name	Modelled	Drawn	Checked	Section Head
Design	...	AAK	VISHNU	...
Sign.		DWMN	M/D-S	DGM/S

Date: 03-11-2025

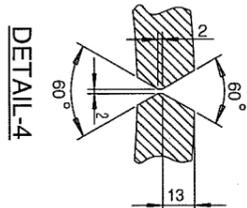
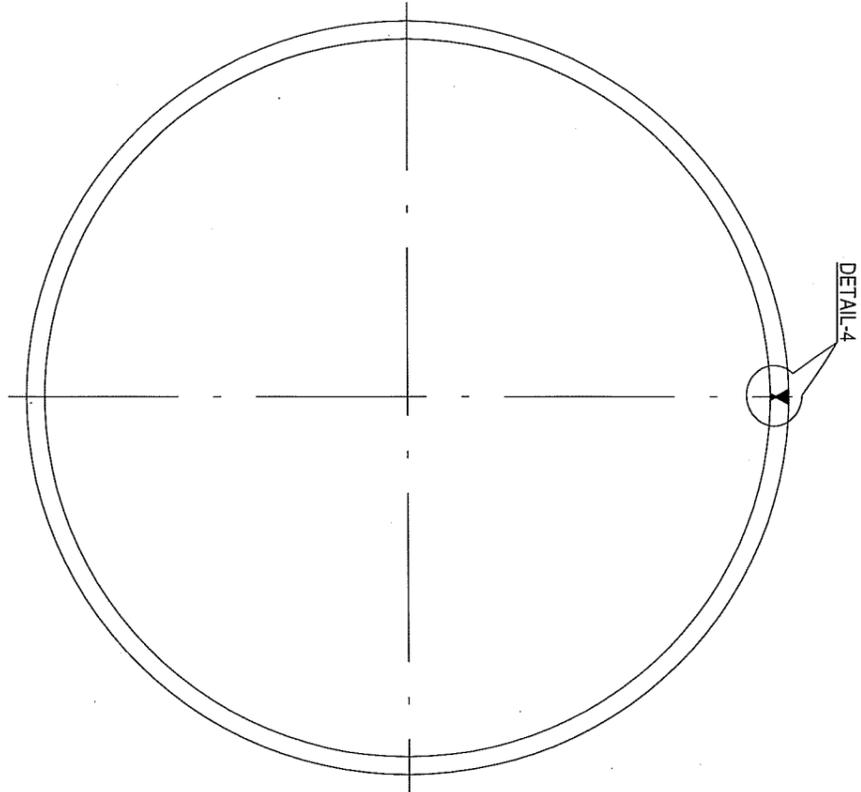
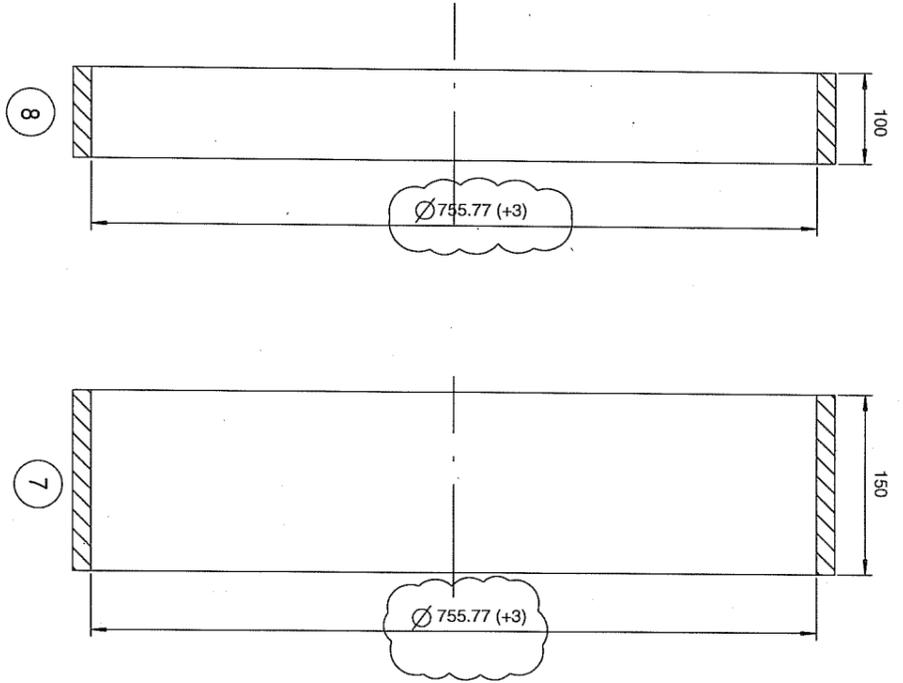
Drawing no. 1114-01  
Sheet 06 of 06

Rev. 1

Item No.	Description	Size	Qty	MATERIALS	Remarks
1	TUBE	703 ID x 25 THK x 6254 LONG (P)	1	ABSGRB	ROLLING
2	TUBE	703 ID x 25 THK x 6262 LONG (S)	1	ABSGRB	ROLLING
3	FLANGE	752.77 OD x 555 ID x 1105 LENGTH	1	C.S (ABS)	CASTING
4	FLANGE	752.77 OD x 550 ID x 591 LENGTH	1	C.S (ABS)	CASTING
5	FLANGE	752.77 OD x 555 ID x 1086 LENGTH	1	C.S (ABS)	CASTING
6	FLANGE	752.77 OD x 550 ID x 617 LENGTH	1	C.S (ABS)	CASTING
7	RING	755.77 ID x 20 THK x 150 LONG	8	ABSGRB	ROLLING
8	RING	755.77 ID x 20 THK x 100 LONG	2	ABSGRB	ROLLING

MATERIAL LIST

DETAIL OF RINGS



NOTES :-

- 1) ITEM NO.-7 & 8 (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.