



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



वसुधैव कुटुम्बकम्  
ONE EARTH • ONE FAMILY • ONE FUTURE

Tender No: HCSL/PUR/TEN/2025/029

Dated: 04.04.2025

### TENDER NOTICE

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

Tender No. & date	HCSL/PUR/TEN/2025/029 Dated: 04.04.2025
Scope of work	Supply and Installation of Orange Chock-fasting of 04 types of Machinery foundations for 40T BP ASD Tug at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah (Detailed specification is enclosed separately).
Type of Tender	Two Bid (Email Tender)
Earnest Money Deposit	Nil
Last date & time of receipt of tender	16.04.2025 at 15:00 Hrs.
Date & time of opening of technical bid	16.04.2025 at 15:30 Hrs.
Tenure of contract	Ref: Annexure-3, Cl. No. 15
Officer - in - Charge	<p>Name: Saikat Kumar Biswas Designation: Deputy Manager (Materials) Email: saikat.biswas@hooghlycsl.com Phone No: 8250792208</p> <p>Name: Sreerag .G Designation: Manager (Materials) Email: sreerag.g@hooghlycsl.com Phone No: 9482608957</p>

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

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

For Hooghly Cochin Shipyard Limited

Signature and Seal of the Bidder(s)



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



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



CIN : U35900WB2017GOI223197, GSTIN : 19AAECH3640L1ZD

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

Officer - in - Charge for the above work:

Name: Saikat Kumar Biswas  
Designation: Deputy Manager (Materials)  
Email: saikat.biswas@hooghlycsl.com  
Phone No: +91 8250792208

Name: Sreerag .G  
Designation: Manager (Materials)  
Email: sreerag.g@hooghlycsl.com  
Phone No: +91 9482608957

**For any technical queries:**

For technical query (Please contact the below person)

Name: : Amarjit Kumar Prasad  
Designation: : Manager (Planning)  
Email: :prasad.amarjit@hooghlycsl.com  
Phone No: : +91 9884928588

  
**For Hooghly Cochin Shipyard Limited**

\*\*\*





## TABLE OF CONTENTS

Sl. No.	Description	Annexure
1.	Pre-Qualification Criteria.	-
2.	Scope Of Work And Technical Specification	1
3.	Price Bid Format	2
4.	General Terms & Conditions	3
5.	Restriction On Procurement From Countries Sharing Land Border With India	4
6.	Purchase Preference For Make In India (MII)	5
7.	Make In India Certificate	6
8.	Special Instruction To Bidder	7
9.	Techno-Commercial Check List	8
10.	Vendor Details	9
11.	NEFT Mandate Form	10
12.	List Of Deviations	11
13.	Bank Guarantee Format Towards SD	12
14.	Self-Declaration By Bidder	13
15.	Declaration Of Pending Legal Cases	14

  
For Hooghly Cochin Shipyard Limited

Signature and Seal of the Bidder(s)



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

- 



**SCOPE OF WORK AND TECHNICAL SPECIFICATION**

1. Purchase Technical Specification of Chock fasting & Chock fasting calculation: Ref. Enclosure-1 (Consisting 21 No. of Pages).



## Annexure –2

**PRICE BID FORMAT**

Tender Enquiry No: HCSL/PUR/TEN/2025/029 Dated: 04.04.2025

Sl. No.	Description	Qty per vessel	Total Qty for 04 nos. of vessel	UOM	Unit Rate (Rs.)	Total Amount without GST (Rs.)
		(A)	B=(Ax 4)		(C)	[D=C xB]
A.	SUPPLY					
1.	Supply of Orange Chock fastening forfollowing machinery foundations: Per Shipset: i. Main Engine: 02 Nos. ii. Fi-Fi Pump: 01 No. iii. Shaft Bearings: 10 Nos. (Both Sides) iv. Anchor Windlass: 01 No.	‘ _____ ’ ##	‘ _____ ’ ##	Ltr.		
2.	Total amount without GSTfor 04 Shipset (Rs.)					
3.	HSN Code					
4.	Total GST Amountfor 04 Shipset (Rs.)					
5.	Total Amount including GSTfor 04 Shipset (Rs.)					
B.	INSTALLATION					
6.	Installation of Chock fastening	1	4	AU		
7.	Total amount without GSTfor 04 Shipset (Rs.)					
8.	HSN CODE					
9.	Total GST Amount04 Shipset(Rs.)					
10.	Total Amount including GST04 Shipset (Rs.)					
	GRAND TOTAL					
11.	Grand Total (Sl. No. 2+7) without GST for 04 Shipset (Rs.)					
12.	Total GST Amount (Sl.No. 4+9)					
13.	Grand Total (Sl. No. 11 + 12) including GST					
14.	Total Amount including GST (Rs.) for 04 Nos. of Shipset- In Words (Sl.No. 13)					

**Note:**

**## To be filled by the bidder.** As per PTS the total quantity requirement per vessel is 127 ltr. However, the quantity shall be rounded up to the next higher standard pack size (per vessel).

1. Rate should be quoted in INR only.
2. Bidder has to submit the price bid as mentioned in the format only, otherwise bid will be rejected.
3. L1 bidder will be evaluated based on the total cost of all the items (Sl.No. 11) excluding GST for 04 no. of Shipsets.
4. Quotation for all line items is mandatory. Partially quoting for few line items shall result in rejection of the bid.
5. Bidder should quote in consideration with all the clauses of Annexure-1 (Purchase technical specification for Chock fasting & Chock fasting calculation).
6. Supply shall be made on FOR Hooghly CSL storers basis, freight charge, if any, also should be included in Unit Rate and not to be mentioned as a separate line item.
7. Cost should be inclusive of all charges as per the scope of Annexure-1, including pouring, installation, inspection, associated spare parts, tools etc.
8. Un-priced price bid format (which is an exact replica of the Price bid except that Price is blanked) as per **Annexure-2** to be submitted along with techno-commercial bid with details like percentage of taxes & duties applicable and stating **“Quoted”** or **“Not Quoted”** or **“Not Applicable”** to be mentioned for each line item.

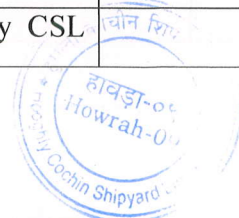
**Seal & Sign. of the Bidder**



## Annexure-3

## General Terms &amp; Conditions

Sl. No.	Description	Compliance by Supplier (YES/NO) In case of non compliance, please provide remarks.
1.	Bidders are required to carefully go through the terms and conditions and the technical specification of the items for which offers are called for. Tenderers have to adhere to above and supply full technical scope of items along with compliance of commercial conditions. Hooghly CSL have full right upon deviations, if any, including rejecting the partial scope/ complied offers.	
2.	Offers are to be furnished in duplicate and should be free from overwriting. Corrections and additions, if any, must be attested. The offers shall be submitted only through email. Incomplete/ambiguous/conditional offers are likely to be rejected.	
3.	Technical checklist, if applicable and general terms & conditions of enquiry duly filled and signed and technical specifications of items offered (refer clause 5), should be submitted along with part-1 techno-commercial bid in the case of two-bid tenders. Non receipt of the document may lead to rejection of offers. In the case of E tender filling up of GTC check list in the portal itself is sufficient.	
4.	Bidders can contact Officer-in-charge of the work which is indicated in the Tender Notice for any clarification before submitting the offer. If clarifications/details are not obtained before the offer is submitted, no claim on this account will be admitted.	
5.	Spare/Tool requirements to be confirmed, if applicable i) Installation and commissioning spares, Manufacturer's standard recommended consumable spares, special jigs and tools for maintenance of the machinery/equipment and Classification society required Spares are to be included in Scope and costs. ii) The same shall be included in offered costs and shall be a part of L1 evaluation. List of Spares to be submitted along with the offer. <b>[Refer: Purchase Technical Specification at Annexure-1]</b>	
6.	Please note that the Class test and approval charges, if any are to be included in the equipment pricing.	
7.	<b><u>SPECIFICATIONS: -</u></b> a) Manufacturer's name, their trade mark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars (technical details of items offered including technical literature) etc., should be attached to the offer. Spare/Tool required as per PTS to be included in scope along with cost. b) Materials offered shall be new and unused and conform to Hooghly CSL	





	specifications and drawings.	
	c) Samples are to be supplied free of cost in the event of requirement by Hooghly CSL. The detailed working drawing, if called for, is also to be furnished for approval before commencement of manufacture. <b>[Refer: Purchase Technical Specification at Annexure-1]</b>	
8.	Packing materials should be eco friendly.	
9.	Supplier should follow the statutory requirements of product offered. <b>[Refer: Purchase Technical Specification at Annexure-1]</b>	
10.	Products supplied shall be non toxic and harmless to health. In case of toxic materials, Materials Safety Data Sheet may be furnished along with the material.	
11.	<del><b>COMMISSIONING:</b> Scope and cost of offer also to include availability of competent service engineer as required by Hooghly CSL for commissioning / test and for official trials</del>	
	<del>b) Cost considered to include travel tickets, lodging, boarding and local transport costs.</del>	
12.	<div>For Foreign vendor</div> <div> <del>d) Applicable taxes in India shall be borne by the Supplier (As per Income tax act, 1961 for Indian suppliers and Income Tax Act, 1961 and DTAA agreements in the case of foreign vendors).</del>  <del>e) Income tax liability of non resident service engineer based on his period of stay in India shall not be borne by HOOGHLY CSL</del>  <del>f). The non resident vendor/service provider shall provide such documents that are necessitated by the Indian income tax laws so as to enable HOOGHLY CSL to comply with the provisions of Indian statute and for payments of income tax in India. Following documents shall be sought by HOOGHLY CSL in this regard</del>  <del>(i) Certificate under 10 (F)</del>  <del>(ii) Tax residency certificate</del>  <del>(iii) The certification regarding the existence/non existence of business connection or permanent establishment in India.</del>  <del>(The above is only an indicative list)</del> </div>	
13.	Taxes and duties, if any, payable extra are to be indicated in the techno commercial part and price part.	
14.	<div>For indigenous vendor</div> <div> <b><u>MSEs, Startups and Make in India</u></b>  a) Local Suppliers (Make In India), MSME firms and Startups will be eligible for various Relaxations in pre-qualification criteria and other Benefits as per the orders promulgated by Government of India. Bidders are advised to refer the details of various Benefits and Relaxation in pre-qualification criteria as published at Hooghly CSL website (www.hooghlycsl.com) </div>	



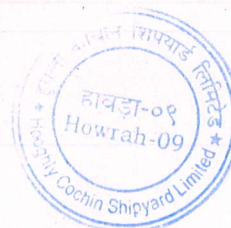


		under the Tenders tab for further reference.											
15.	Delivery schedule to be followed:												
	<table><tr><th>Sl. No.</th><th>Yard No.</th><th>Delivery Schedule</th></tr><tr><td rowspan="2">1<sup>st</sup> lot</td><td>01124001</td><td rowspan="2">Within 45 days from the date of issuance of PO.</td></tr><tr><td>01224002</td></tr><tr><td rowspan="2">2<sup>nd</sup> lot</td><td>01324003</td><td rowspan="2">Not earlier than 120 days but within 180 days from the date of issuance of PO.</td></tr><tr><td>01424004</td></tr></table>	Sl. No.	Yard No.	Delivery Schedule	1 <sup>st</sup> lot	01124001	Within 45 days from the date of issuance of PO.	01224002	2 <sup>nd</sup> lot	01324003	Not earlier than 120 days but within 180 days from the date of issuance of PO.	01424004	
Sl. No.	Yard No.	Delivery Schedule											
1 <sup>st</sup> lot	01124001	Within 45 days from the date of issuance of PO.											
	01224002												
2 <sup>nd</sup> lot	01324003	Not earlier than 120 days but within 180 days from the date of issuance of PO.											
	01424004												
	<b>Note:</b> Part supply (complete material per shipset wise) may be accepted at the discretion of Hooghly CSL, on a case-to-case basis.												
16.	HOOGHLY CSL, may increase or decrease the quantity or may change in scope of work at its own discretion.												
17.	<b><u>PAYMENT TERMS (applicable per shipset):</u></b>  Stage-1: HooghlyCSL payment term is 90% of material value alongwith 100% applicable taxes upon receipt and acceptance of all the items per vessel as per PO at Hooghly CSL stores after inspection.  Stage-2: Balance 10% of Material value+ 95% Installation charges with 100% applicable Taxes after satisfactory completion of installation duly certified by the Hooghly CSL Officer in Charge.  Any inadvertent delay in installation beyond six months from the date of delivery of the material at Hooghly CSL stores, which is not attributable to the supplier, balance 10% of the material value will be released consequently.  Stage-3: Balance 5% of Installation charges will be released after completion of the Defect Liability period.												
	Payment shall be made within 45 days after submission of certified invoice by Hooghly CSL Officer-in Charge.												





	c) Payment mode shall be Electronic Clearing System (ECS)/cheque /NEFT/ /LC/CAD/TT-as mutually agreed in line with above standard payment terms. Variations from standard terms, if any, shall be appropriately loaded for tender comparison purposes for arriving the lowest bid.	
For — Foreign vendor	Bank charges (including LC charges, if any) inside India will be to HOOGHLY CSL account and outside India to supplier's account (In the case of import shipments). The charges for LC amendment, if any, shall be borne by the parties by whom the same is attributed/ necessitated.	
	d) Normally advance payments are not encouraged. In case, if advance payment is sought, the same can be considered for a maximum of 15% order value only. In addition, Bank guarantee for equivalent amount of advance to cover the period till advance payment is adjusted to be furnished. (i.e. till completion of supplies or for a period as specifically agreed + 90 days). Interest at the base rate of SBI {applicable on the date of price bid opening} + 1% for the amount of advance will be loaded on your quoted basic prices, for tender comparison purposes for arriving the lowest bid.	
	e) Part payment shall be considered only if specifically agreed against partial supplies.	
18.	<b><u>Earnest Money Deposit (EMD): NIL</u></b>	
19.	<p><b><u>Security Deposit/ Warrantee Bank Guarantee:</u></b></p> <p>i) The successful bidder shall remit a security deposit of 3% of the total order value (excluding taxes, duties) in the form of demand draft drawn in favor of "Hooghly Cochin Shipyard Ltd" towards the satisfactory performance of the contract, if an order is placed on them. Alternatively, a Bank Guarantee equivalent to above % of the total order value (excluding taxes, duties) as per Hooghly CSL format from an International Bank as per approved list of banks available in CSL website (for overseas supplier) &amp; Scheduled Indian bank for Indian supplier is to be submitted, if an order is placed towards satisfactory performance of the contract.</p> <p>a.ii) The supplier shall also agree for 3% of total order value (excluding taxes and duties) as Bank guarantee towards the Guarantee clause.</p> <p>a.iii) The Bank Guarantee /DD as above should be initially valid till 90 days after completion of supplies in terms of SD and later revalidated (within the validity of initial BG) to cover the guarantee period mutually agreed plus 90 days.</p> <p>However in the case of items where WBG is not applicable the SD shall be valid for item delivery at yard plus 90 days.</p> <p>Fixed Deposit Receipt (for equivalent amount of Security Deposit/WBG required as per tender) in lieu of bank guarantee is also acceptable. Fixed Deposit Receipt shall be in the name of supplier with lien marked in favour of Hooghly Cochin Shipyard Limited, Howrah.</p>	



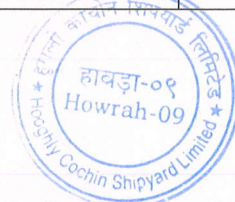


	b) The above SD is required or applicable only when the total order value (excluding taxes and duties) is Rs.20 lakhs (or equivalent foreign currency) and above.		
	c) If the bidder is not agreeable to submission of SD/ warantee bank guarantee as per Hooghly CSL general terms and conditions of enquiry, Hooghly CSL reserves the right to reject the offer at our discretion or 3% of total order value (excluding taxes and duties) will be added to the quoted price for tender comparison/ evaluation purpose on case to case basis for arriving the lowest bid.		
	<p>However in cases where total quoted value is less than 20 lakhs,(i.e split order etc) and the order value of entire tendered items is more than Rs 20.0 lakhs, the aforesaid loading will be applied on individual items in following cases.</p> <ul style="list-style-type: none"> <li>• The bidder has not quoted for entire tendered quantity.</li> <li>• HOOGHLY CSL has technically / commercially rejected a few items in the tender</li> </ul>		
	c) SD to be submitted within 14 days of receipt of order from yard.		
	d) Format of bank guarantee along with enquiry to be agreed.		
20.	<b><u>Risk Purchase:</u></b> If the supplier fails to supply the items ordered in good quality as per contract specification and fails to deliver within the delivery date or violate any of the terms and conditions of the purchase order, Hooghly CSL shall have the following rights.		
	a. To cancel the order partially or full with 15 days' notice and to forfeit the security deposit, if any.		
	b. To impose tender holiday for the vendor for an appropriate period as decided by Hooghly CSL.		
	c.To initiate alternate procurement action at the risk and cost of the supplier. This Risk Purchase clause is applicable only in the case of total order/ contract value (excluding taxes and duties) is Rs.20 lakhs and above (or equivalent foreign currency). Cases of value less than 20 lakhs will be addressed by serving appropriate caution/ warning notice to the firm.		
21.	<b><u>Liquidated Damage:</u></b> In case of delay in supply of ordered materials beyond the stipulated delivery period, which is not attributable to Hooghly CSL, supplier is to pay Liquidated Damages (and not by way of penalty) a sum equivalent to ½% (half percent) per week or part of the week of the total basic price of the undelivered items, subject to a maximum of 10% of the total basic price of the materials/supply delayed (Total basic price is the order value excluding freight, taxes, other charges etc.). However, LD applicability is without prejudice to Hooghly CSL right to terminate contract for delayed delivery or other actions as per clause above.		
	For indigenous vendors	GST will be applicable upon LD and the same also will be deducted along with LD.	



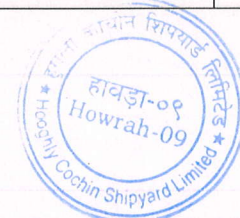


22.	<p><b>i) <u>Guarantee/Warranty:</u></b></p> <p>The product supplied shall be guaranteed for rated performance for a period of at least 12 months from the date of delivery at Hooghly CSL yard.</p> <p><b>ii. <u>Defect Liability Period:</u></b></p> <p>a) The contractor/supplier has to give guarantee for the workmanship provided under this contract for a period of 12 months from the date of installation duly certified by the Officer-in charge. During the Defect Liability Period, any defects identified shall be promptly repaired/replaced/rectify by the contractor/supplier at no additional cost. The contractor/supplier shall have to attend the defect within 05days from the date of intimation by Hooghly CSL. All costs for the rectification of defects, including materials, labor, and any related expenses, shall be borne entirely by the Contractor/Supplier.</p> <p>b) Claim notice will be given within 10 days of the defect becoming apparent after inspection of Hooghly CSL QC.</p> <p>c) Further the repair/replacement/rectifications shall be guaranteed for 12 months from date of repair/replacement/rectification.</p>	
23.	<p><b>Occupational Health, Safety &amp; Environmental Requirements:</b></p> <p>Contractor is deemed to comply with the occupational health, safety and environmental policy of the company.</p>	
24.	<p><b>Safety Rules:</b></p> <p>a) The contractor shall be entirely responsible for the safety of all the personnel employed by him on the work. In this regard, he may adopt all the required safety measures and strictly comply with the safety regulations in force. Detailed information and references available with HSE department of Hooghly CSL.</p> <p>b) The Contractor may arrange to suitably insure all his workmen/ other personnel in this regard. Hooghly CSL will not be responsible for any injury or illness to the Contractor's workmen/other personnel during execution of the works due to whatsoever reasons.</p> <p>c) All personnel may require visiting production area with Hooghly CSL premises frequently. The contractor shall provide all PPEs including, coverall, safety shoes, safety helmet, gloves, Full body harness and safety goggles.</p> <p>d) In this regard, the Contractor will have to fully indemnify Hooghly CSL against any claims made by his workmen/other personnel.</p> <p>e) The Contractor shall provide and maintain so as to be readily accessible</p>	



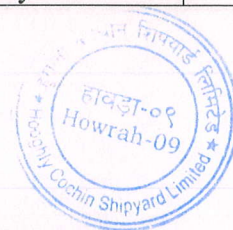


	during all working hours, a first aid box with prescribed contents at every place where he employs contract labour for executing the works	
25.	<p><b>Labour Laws &amp; Regulations:</b></p> <p>a) The Contractor shall provide the minimum wage rate of the Central Govt. and submit the Bank account statement of the wage payment along with the bill;</p> <p>b) The Contractor shall undertake and execute the work with contract Labour only after taking license from the appropriate authority under the Contract Labour (Regulation &amp; Abolition) Act 1970.</p> <p>c) The Contractor shall observe and comply with the provisions of all labour and industrial laws and enactments and shall comply with and implement the provisions of the Factories Act, 1948, Employees Provident Funds at Miscellaneous Provisions Act, 1952, Employees State Insurance Act, Payment of Gratuity Act, minimum Wages Act, Payment of Bonus Act, Contract Labour (Regulation and Abolition) Act and all other enactments as are applicable to his and his workmen employed by him.</p> <p>d) All contract workmen shall necessarily be insured under the ESI scheme and be made members of the EPF Scheme from the day of their engagement as contract workmen in the Company. All such insured contract workmen should carry with them their ESI Identity Card for verification by the authorities. No contract workmen without a valid ESI Identity Card for verification by the authorities will be permitted to work in the company.</p> <p>e) The Contractor shall submit the Labour Reports/ Returns as required by the Company from time to time in respect of their workmen in standard format to the concerned contracting officer so as to enable the same to reach Personnel Department by the 5th of every month. delayed submission of the same shall attract penal interest /damages at the rate as levied by the respective authorities under the relevant Acts.</p> <p>f) The Contractor shall maintain the records viz. Muster Roll, Acquittance Roll with full details, Account books etc., in original. These are required for inspection by the concerned authorities under each scheme.</p> <p>g) If the Contractor fails to pay any contributions, charges or other amounts payable under any of the aforementioned provisions of law, Hooghly CSL shall deduct or adjust amounts equivalent to such contribution, charges or amounts from amount payable to him by Hooghly CSL, including any deposit or amounts payable against bills and make payments on his account to the appropriate authority. He shall not be entitled to question or challenge such deductions, adjustments or payment made by Hooghly CSL.</p> <p>h) Any other amount payable under any law or in respect of any person employed by the Contractor, if not paid by him, shall be deducted or adjusted by Hooghly CSL out of any amount payable to the Contractor</p>	



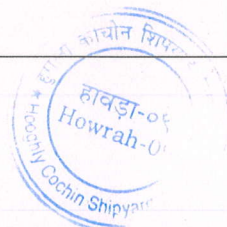


	<p>including any Security Receipt and paid ever or withheld for payment by Hooghly CSL.</p> <p>i) The Contractor shall be fully responsible for the conduct and discipline of the workmen employed by him in the Company premises. If such workmen commit any misconduct or criminal act inside the Company, the Contractor shall take appropriate action against such workmen. The contractor shall abide by the instructions/ guidelines issued by the Company for maintenance of discipline and good conduct among the workmen employed by him.</p> <p>j) All person who are engaged for various works in Hooghly CSL either directly or through contractors, should produce the following documents prior to issuing their entry passes:</p> <p>k) Aadhar/attested copy of Aadhar with photo and address particulars. OR</p> <p>l) Police clearance certificate with photo and address particulars. (Police clearance certificate to the effect that the concerned person is staying in the area of jurisdiction of the certificate issuing Police Station and that the person is not involved in any criminal offences as per the records available therein.)</p> <p>m) Application and Declaration for enrolling under Employees Provident Fund and ESI Scheme.</p> <p>n) Contractors are requested to familiarize themselves with the labour rules &amp; regulations prevailing in HOOGLY CSL including the labour wage pattern of contract labours.</p>	
26.	<p><b><u>Jurisdiction:</u></b></p> <p>All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Kolkata, West Bengal, India. Alternate dispute resolution mechanism can also be considered.</p>	
27.	<p><b><u>Arbitration:</u></b></p> <p>(a) Any disputes arising during the period of the contract shall, in the first instance be settled by mutual discussions and negotiations.</p> <p>(b) If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended from time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one arbitrators nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or</p>	





		forms a part of the subject matter of arbitration proceedings. (c) Seat & Venue of Arbitration: The seat & venue of arbitration shall be at Kolkata. (d) Language of Arbitration: The Language of arbitration shall be English. Governing Law: The contract shall be governed by Indian Law. (e) In case of disputes, the same will be subjected to the jurisdiction of courts at Kolkata, West Bengal.	
28.		<b><u>Force Majeure condition:</u></b> Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of Legislature or other Statutory Authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, HOOGHLY CSL may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/ cessation.	
29.	For <del>Foreign</del> vendor	<b><u>Indian Agent:</u></b> a) <del>Hooghly Cochin Shipyard Ltd, prefers to deal directly with the supplier. However, if the supplier appoints an Indian Agent to deal with Hooghly Cochin Shipyard Ltd., the Agency commission payable by the supplier to such an agency shall be intimated.</del> b) <del>If manufacturers effect the supply through Agents only, authorization in writing from manufacturers in favour of the Agent for supply to HOOGHLY CSL shall be furnished.</del> c) <del>In case where an Agent participates a tender on behalf of a Foreign manufacturer Indian agent should submit specific authorization from the authorized person of foreign manufacturer.</del> d) <del>In a tender, either the Indian agent on behalf of the Principal/ OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender. If an agent submits bid on behalf of principal/OEM, the same agent shall not submit a bid on behalf of another principal/OEM in the same tender for the same item/product. Indian agents cannot represent more than one firm or quote on their behalf for any particular tender.</del> e) Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender	
30.		<b><u>PRICING:</u></b> Bidders should quote prices for delivery and installation of materials FOR Hooghly CSL stores basis.	
	For indigenous vendors	b. Bidders should quote prices for delivery of materials FOR HOOGHLY CSL stores.	



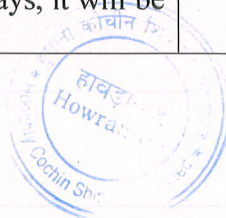


		<p><b>Address:</b> Hooghly Cochin Shipyard Ltd (HOOGHLY CSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109.</p> <p>c. Indigenous Firms shall quote in INR only. Exchange rate variation will not be applicable and the prices shall be fixed for an order within validity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



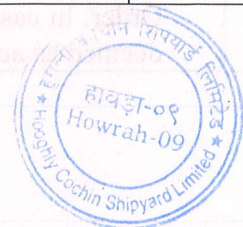


	1. Hooghly Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.	
31.	<b>L1 computation shall be based on total landed cost of all items on FOR HOOGHLY CSL store basis, including installation as per scope of the tender (excluding GST/IGST) (overall basis) for 04 vessels.</b>	
32.	<p><b><u>Integrity Pact:</u></b></p> <p>(a) <del>As per Government of India (Central Vigilance Department), CSL and the SUPPLIER have to sign an Integrity Pact for the high value contracts, for ensuring transparency, equity and competitiveness in public procurement. The Tenderer has to sign Pre-Contract Integrity Pact as per format enclosed and to submit along with your offer.</del></p> <p><del>The above is applicable when the total basic price is above Rs. 100.0 lakhs. (present limit)</del></p> <p>(b) <del>For offers less than the threshold value of Rs.100 Lakhs, Code of Integrity in Public Procurement (CIPP) and Code of Conduct for suppliers is to be signed and submitted along with the offer</del></p>	
33.	<p><b><u>SUB CONTRACTING AND ASSIGNMENT:</u></b></p> <p>Supplier shall not contract with any subcontractor and/or vendor without the prior written consent of HOOGHLY CSL. Such consent shall not relieve the Supplier from any of his responsibilities and liabilities under the Purchase Order. In addition, Supplier shall ensure that the terms and conditions of any such contract shall comply with and correspond to the terms and conditions of the Purchase Order.</p>	
34.	<p><b><u>General:</u></b> a. Prior to price bid opening, HOOGHLY CSL is at liberty to take the credit rating of bidders at our cost on case to case basis, and to include the same during the evaluation of the tender.</p> <p>b. Deviations, if any in the techno-commercial offer from that of the tender enquiry in any form should be clearly furnished in a separate document titled as "List of Deviations", failing which it will be presumed that all the terms and conditions are acceptable.</p> <p>c. The techno-commercial part alone will be opened initially on the due date of tender. The price part will be opened only after evaluation of the Techno commercial part. Date of opening of the price part will be intimated to those firms whose Techno- commercial bids would be acceptable after the evaluation.</p> <p>Suppliers shall not depute their representative to HOOGHLY CSL.</p>	
35.	<p><b><u>Purchase Order:-</u></b> a. In the event supplier's offer leads to an agreement to effect supplies, a formal purchase order shall be issued by HOOGHLY CSL on the basis of agreed terms and conditions of tender.</p> <p>b. Upon placement of order (by post or mail) the supplier shall submit the acknowledgement (ie: signed and stamped original/ scanned soft copy by mail) as a token of acceptance of order within 15 days from receipt of Purchase Order. In case order acknowledgement is not received within 15 days, it will be deemed as accepted.</p>	



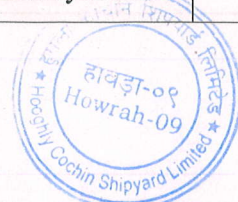


36.	<p><b>SUPPLY: -</b></p> <p>a) HOOGHLY CSL reserve the right to inspect the goods after receipt at HOOGHLY CSL store / prior to dispatch (by HOOGHLY CSL or HOOGHLY CSL authorized agency at yard cost). Short supply / Mismatch / Replacement of Defective items / those not meeting agreed / contractual specification/ Items failing during commissioning shall be sent on air freight/ DDP basis courier freight prepaid/delivered at HOOGHLY CSL store.</p> <p>The customs clearance charges of above (If any) shall be to supplier account.</p> <p>b) In case HOOGHLY CSL deputs its personnel / Third Party Inspectors to inspect items in the supplier premises prior dispatch, in such cases supplier shall provide all necessary facilities for inspection, testing and performance checks at his works on case to case to basis. The accepted items samples shall be identified with stamps/ permanent marks and reference of the same shall be given in the inspection report. Location of stamping shall be mentioned in the inspection report.</p> <p>c) Replacements during guarantee period to be sent on Duty and all taxes paid basis to location as required by yard/vessel owner with all expenses to supplier account.</p> <p>d) Defective items, if any, after receipt shall be sent back on cost, carriage, handling and insurance prepaid basis including re-export (wherever desired by supplier) to be arranged by supplier. Defective items shall be returned after receipt of replacement item. Supplier, shall replace all/ part of items as applicable, in case of rejection, within 4 weeks of reporting the defect, without any additional cost to HOOGHLY CSL. In case the defective materials are not taken back within the said period, HOOGHLY CSL reserves the right to dispose the same without further intimation.</p> <p>(e) The supplier shall compensate HOOGHLY CSL for loss on account of shortage in quantity and number of pieces received than that indicated in the bill of lading provided the HOOGHLY CSL's claim is rejected by the insurance due to any fault of supplier. Such claims, if any, shall be supported by recognized surveyors report. The supplier shall also compensate for losses, if any sustained by the HOOGHLY CSL due to defective packing and/or marking of the goods not in accordance with the terms of contract. The time limits for filing claims under clauses above shall be generally 180 days from the date of complete discharge of goods.</p>	
37.	<p>HOOGHLY CSL reserves the right to alter, modify the scope of supply at its discretion and in consistent with the policy of the Government of India and statutory bodies under them as applicable to the contract from time to time.</p> <p>The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders as per extant regulations.</p>	



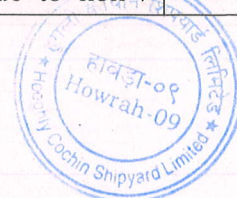


38.	HOOGHLY CSL reserves the right to commercially reject the offer if compliance is not issued to General Terms and Condition without any further clarification / notice / communication in this regard from M/s. Hooghly Cochin Shipyard Ltd., even though the offer is technically acceptable.	
39.	<p><b><u>Termination Clause:</u></b></p> <p>(a) This purchase order may be terminated upon the occurrence of any of the following events</p> <ul style="list-style-type: none"> <li>(i) By agreement in writing of the parties hereto;</li> <li>(ii) By the non-defaulting party, upon default by the other party, of any clause of this contract, if not remedied within thirty (30) days, or such longer time as may be agreed upon by the parties, after receipt of notice thereof in writing from the non-defaulting party;</li> <li>(iii) By the other party, upon either parties; <ul style="list-style-type: none"> <li>• Making the assignment for the benefit of creditors, being adjudged bankrupt or becoming insolvent; or</li> <li>• Having a reasonable petition filed seeking its "dissolution or liquidation, not stayed or dismissed within sixty (60) days; or</li> <li>• Ceasing to do business for any reason.</li> </ul> </li> <li>(iv) In cases where maximum limit of LD is reached and still the items are not delivered.</li> <li>(v) For fraud and corruption or other unacceptable practices.</li> </ul> <p>(b) Upon expiry or termination of this Contract, neither party shall be discharged from any antecedent obligations or liabilities to the other party under this Contract unless otherwise agreed in writing.</p> <p>(c) HOOGHLY CSL may by notice in writing to supplier terminate the order after issuing due notice i.e. 15 days notice period. HOOGHLY CSL shall be entitled to compensation for the loss limited to the order value.</p> <p>(d) Liability maximum that can be claimed by the supplier shall be limited to what is due to be and has been paid by HOOGHLY CSL for the material delivered/work done as per the payment milestones</p>	
40.	<p><b><u>Limitations of Liability:</u></b></p> <p>Neither party shall be liable to the other party for any indirect and consequential damages. Neither party shall be liable to the other party for any loss of profits or loss of production</p>	
41.	<p><b><u>Indemnity clause:</u></b></p> <p>Supplier will indemnify HOOGHLY CSL and its affiliates, directors, officers, and employees against all liabilities, damages, losses, costs, fees (including legal fees), and expenses relating to any allegation or third-party legal proceeding (including action by a government authority) to the extent arising from an allegation that use, possession, or sale of the products or services violates or infringes a third party's rights, including intellectual property rights; or an allegation that any personnel are entitled to employee compensation, benefits, or other rights or transfer law rights, except to the extent caused by HOOGHLY CSL's unlawful acts or omissions.</p>	
42.	<p><b><u>Malicious Code:</u></b></p> <p>The Bidder will be overall responsible for all cyber/information security related aspects pertaining to the Systems Projects &amp; ICT goods and services and will be the single point of contact for addressing all Cyber/information security related</p>	





		issues for the goods and services supplied by the Bidder as part of the contract. It will be responsibility of the Bidder to enter into such agreements/contracts with the OEMs as may be necessary to ensure that all cyber/information security aspects are addressed holistically and comprehensively. The Bidder will provide list of tests conducted by OEM or an accredited certification agency along with list of such test reports for the Systems Projects & ICT goods and services provided as part of contract.	
43.		<b><u>Packaging:</u></b> (a) Material to be wrapped with protective covers like VCI/ Environmental friendly Polythene (as per Govt. of India guidelines)/ Tarpauline. (b) To the extent possible, material needs to be packed in standard pallet/ box size of 1 X 1 meter. (c) If multiple components needed to be accommodated in the boxes, separator to be provided inside. (d) Packaging should withstand at least 2 Years life without degradation (e) Material should be with proper preservation for the prevention of rust, Transit damage etc. (f) Boxes should be accessible with forklift, Stacker & Hydraulic Trolley. (g) Proper Identification details should be provided on each box. The below details are required as minimum: Purchase Order Number, Material code, Description, Quantity, Supplier details, Tag Numbers & Serial number list (for applicable parts), Batch details, Shelf life. (h) Packing to be done in such a way to enable adequate preservation for long period, with no transit damage, easy to identify and count. (i) Asbestos should not be part of any material / packing material supplied to HOOGHLY CSL. (j) Transporter's Vehicles are to have all statutory documentation including valid PUC certificate.	
44.	For indigenous vendors	<b><u>Goods &amp; Service Tax:</u></b> (a) Please note the HOOGHLY CSL GST registered number as 19AAECH3640L1ZD. GST registration is prerequisite for entering into the business with HOOGHLY CSL. Your firms GST registration shall be indicated. Offers received from GST unregistered suppliers / service providers are liable for rejection. (b) Indicate the applicable rate of GST for services in line with GOI published rate scheduled for services along with SAC. (c) Tax inclusive invoices from the registered service providers are not acceptable. Any corrections / rectifications in the invoice shall be made good through Debit note / Credit note. (d) Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.	
45.	For indigenous vendors	<b><u>Input Tax Credit:</u></b> (a) Bidders shall ensure timely delivery of services and submit the tax invoices to HOOGHLY CSL as per the GST law. In case, GST input tax credit is delayed / denied to HOOGHLY CSL due to non /	





	<p>delayed receipt of services and / or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or owing to the bidder not paying the taxes to the Government within prescribed time as per the law or any other reasons not attributable to HOOGHLY CSL and solely attributable to the bidder, the GST amount charged to HOOGHLY CSL, shall be recoverable from the bidder along with interest levied / liveable and any other penalties on HOOGHLY CSL and the vendor shall indemnify against all costs to HOOGHLY CSL, and consequences therefrom.</p> <p>(b) In case bidder delays declaring particulars in respect of any invoice in the GST return required to be filed by such bidder, and GST credit availed by HOOGHLY CSL is denied or reversed subsequently as per GST law, GST amount paid by HOOGHLY CSL towards such ITC reversal as per GST law shall be recoverable from vendor / bidder along with interest levied / leviabale on HOOGHLY CSL and any other penalties on HOOGHLY CSL and the bidder shall hold HOOGHLY CSL indemnified against all cost and consequences there form.</p> <p>(c) Bidders shall submit the invoices as per the provisions of GST law. The bidders invoice shall contain the HSN code / SAC and GSTIN number of the bidder and HOOGHLY CSL as well along with other particulars. The GST charged (IGST / CGST + SGST / UTGST) shall be clearly indicated in the invoice.</p> <p>(d) In case any credit, refund or other benefit is denied or delayed to HOOGHLY CSL due to any non-compliance of GST legislation such as failure to pay GST to the government (includes late filing of GST return) or due to non-furnishing or furnishing of incorrect or incomplete documents/ information by the bidder or service provider, the bidder or service provider would reimburse the loss to HOOGHLY CSL or HOOGHLY CSL may recover the same, but not limited to, the tax loss, interest and penalty. The Bidders should submit the copy of Latest GST Return filed statement/ form in GSTR-3B</p>	
--	--	--

**Specify Yes / No**





**Restriction on Procurement from Countries Sharing Land Border with India**

(a) Any bidder from a country which shares a land border with India will be eligible to bid only if the bidder is registered with the Competent Authority, specified below.

(b) A bidder is permitted to procure raw material, components, sub-assemblies etc, from vendors from countries sharing land border with India. Such vendors will not be required to be registered with competent authority.

(c) However, in case the bidder has proposed to supply finished product from vendors from countries sharing land border with India, such vendors will be required to be registered with competent authority

(d) Definitions

(i) "Bidder" for the purpose of the Order (including the term "tenderer", "consultant", "vendor" or "service provider" in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.

(ii) "Tender" for the purpose of the Order will include other forms of procurement, except where the context requires otherwise.

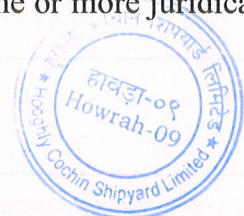
(iii) "Bidder from a country which shares a land border with India" for the purpose of the Order means

- An entity incorporated, established or registered in such a country; or
- A subsidiary of an entity incorporated, established or registered in such a country; or
- An entity substantially controlled through entities incorporated, established or registered in such a country; or
- An entity whose beneficial owner is situated in such a country; or
- An Indian (or other) agent of such an entity; or
- A natural person who is a citizen of such a country; or
- A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

(iv) "Agent" for the purpose of the Order is a person employed to do any act for another, or to represent another in dealings with third persons.

(v) Beneficial owner for the purposes of point (iii) above will be as under:

- In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical





person(s), has a controlling ownership interest or who exercises control through other means. Explanation:-

- In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- Where no natural person is identified under para (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

(e) Wordings of certificate to be submitted along with tender documents:-

“I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable).

Further, I will not subcontract any work to a contractor / source finished goods from an entity from such countries unless such contractor/ entity is registered with the competent authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable).”

Sign and stamp





### Purchase Preference for Make In India (MII)

#### Purchase Preference for Make In India (MII)

(a) To encourage „Make in India“ and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, Government of India, issued Public Procurement (Preference to Make in India), Order 2017. The order is issued pursuant to Rule 153 (iii) of GFR, 2017. The Order is applicable on the procurement of Goods, Works and Services. For the purpose of this Order:-

(b) Eligibility of „Class-I local supplier“/ „Class-II local supplier“/ „Non-local suppliers“ for different types of procurement

- (i) In procurement of all goods, services or works in respect of which the Nodal Ministry/ Department has communicated that there is sufficient local capacity and local competition, only „Class-I local supplier“, shall be eligible to bid irrespective of purchase value.
- (ii) Only „Class-I local supplier“ and „Class-II local supplier“, shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry has been issued. In global tender enquiries, „Non-local suppliers“ shall also be eligible to bid along with „Class-I local suppliers“ and „Class-II local suppliers“. In procurement of all goods, services or works, not covered by sub-para (a) above, and with estimated value of purchases less than Rs. 200 Crore.

#### (c) Purchase Preference

A ~~In the procurements of goods or works which are divisible in nature, the „Class-I local supplier“ shall get purchase preference over „Class-II local supplier“ as well as „Non-local supplier“, as per following procedure:-~~

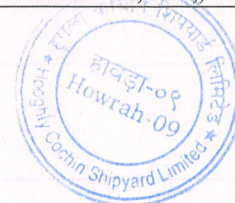
- (i) ~~Among all qualified bids, the lowest bid will be termed as L1. If L1 is „Class-I local supplier“, the contract for full quantity will be awarded to L1.~~
- (ii) ~~(ii) If L1 bid is not a „Class-I local supplier“, 50 (fifty) percent of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the „Class-I local supplier“ will be invited to match the L1 price for the remaining 50 (fifty) percent quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such „Class-I local supplier“ subject to matching the L1 price. In case such lowest eligible „Class-I local supplier“ fails to match the L1 price or accepts less than the offered quantity, the next higher „Class-I local supplier“ within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder~~

B In the procurements of goods or works which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the „Class-I local supplier“ shall get purchase preference over „Class-II local supplier“ as well as „Non-local supplier“, as per following procedure:-

- (i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is „Class-I local supplier“, the contract will be awarded to L1.
- (ii) If L1 is not „Class-I local supplier“, the lowest bidder among the „Class-I local supplier“, will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such „Class-I local supplier“ subject to matching the L1 price.
- (iii) In case such lowest eligible „Class-I local supplier“ fails to match the L1 price, the „Class-I local supplier“ with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the „Class-I local supplier“ within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- (iv) „Class-II local supplier“ will not get purchase preference in any procurement, undertaken by procuring entities

(d) Applicability in tenders where contract is to be awarded to multiple bidders

In tenders where contract is awarded to multiple bidders subject to matching of L1 rates or otherwise, the „Class-I





local supplier" shall get purchase preference over „Class-II local supplier" as well as „Non-local supplier", as per following procedure:

- (i) In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only „Class I Local suppliers".
  - (ii) In other cases, „Class II local suppliers" and „Non local suppliers" may also participate in the bidding process along with „Class I Local suppliers" as per provisions of the Order.
  - (iii) If „Class I Local suppliers" qualify for award of contract for at least 50 (fifty) percent of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case „Class I Local suppliers" do not qualify for award of contract for at least 50 (fifty) percent of the tendered quantity, purchase preference should be given to the „Class I local supplier" over „Class II local suppliers"/ „Non local suppliers" provided that their quoted rate falls within 20 (twenty) percent margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the „Class I Local suppliers" taken in totality are considered for award of contract for at least 50 (fifty) percent of the tendered quantity.
  - (iv) First purchase preference has to be given to the lowest quoting „Class-I local supplier", whose quoted rates fall within 20 (twenty) percent margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting „Class-I local supplier", does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher „Class-I local supplier", falling within 20 (twenty) percent margin of purchase preference, and so on.
- (e) **Minimum local content:** The „local content" requirement to categorize a supplier as „Class-I local supplier" is minimum 50 (fifty) percent. For „Class-II local supplier", the „local content" requirement is minimum 20 (twenty) percent. Nodal Ministry/ Department may prescribe only a higher percentage of minimum local content requirement to categorize a supplier as „Class-I local supplier"/ „Class-II local supplier". For the items, for which Nodal Ministry/ Department has not prescribed higher minimum local content notification under the Order, it shall be 50 (fifty) percent and 20 (twenty) percent for „Class-I local supplier"/ „Class-II local supplier" respectively.
- (f) **Requirement for specification in advance:** The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders or other form of procurement solicitation and shall not be varied during a particular procurement transaction.
- (g) **Verification of local content:**
- (i) The „Class-I local supplier"/ „Class-II local supplier" at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self- certification that the item offered meets the local content requirement for „Class-I local supplier"/ „Class-II local supplier", as the case may be. They shall also give details of the location(s) at which the local value addition is made.
  - (ii) In cases of procurement for a value in excess of Rs. 10 crores, the „Class-I local supplier"/ „Class-II local supplier" shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
  - (iii) False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
  - (iv) A supplier who has been debarred by any procuring entity for violation of the Order shall not be eligible for preference under the Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities.





## Annexure-6

### Make in India Certificate

In line with Government Public Procurement (Preference to Make in India), Order 2017, P-45021/2/2017-PP (BE-II) dated 16.09.2020 and as amended from time to time we M/s....., hereby certify the following facts for our offered product against GeM bid number .....

Schedule	Item description	Local content in %	Class of local supply Local content(> 50%)- Class 1 Local content(20-50 %)-Class 2 Local content(<20%) - Non local	Location of local value addition (Location shall be the specified as address or name of city or district)

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law. The above declaration does not include services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc as local value addition

Sign and stamp





**SPECIAL INSTRUCTION TO BIDDER**

**1. MODE OF SUBMISSION OF TENDERS**

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

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

- i. Technical Specification (Annexure-1)
- ii. Unquoted Price bid (Annexure-2)
- iii. General Terms and Conditions (Annexure-3)
- iv. Restriction On Procurement From Countries Sharing Land Border With India (Annexure-4)
- v. Purchase Preference For Make In India (MII) (Annexure-5)
- vi. Make In India Certificate (Annexure-6)
- vii. Special Instruction To Bidder (Annexure-7)
- viii. Techno-Commercial Check-List (Annexure-8)
- ix. Vendor Details (Annexure-9)
- x. NEFT Mandate Form (Annexure-10)
- xi. List Of Deviations (Annexure-11)
- xii. Bank Guarantee Format Towards SD (Annexure-12)
- xiii. Self-Declaration By Bidder (Annexure-13)
- xiv. Declaration Of Pending Legal Cases (Annexure-14)

**3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -**

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

**Note:**

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

**4. While submitting the bid, bidders are requested to note that the e-mail ID starting with following words may probable be treated as spam, not always necessary-**

info, support, admin, sales, customer support, helpdesk, mail, mailadmin, billing, hello, careers.

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

[saikat.biswas@hooghlycsl.com](mailto:saikat.biswas@hooghlycsl.com)

[sreerag.g@hooghlycsl.com](mailto:sreerag.g@hooghlycsl.com)





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

  
**For Hooghly Cochin Shipyard Limited**





TECHNO-COMMERCIAL CHECK LIST				
SL. NO.	DESCRIPTION	COMPLIANCE		REMARKS
		YES	NO	
1.	Submission of Tender in two parts –Techno-commercial& Price Bid (Password Protected)			
2.	Delivery date confirmation to yards delivery schedule.			
3.	Validity of offer – four months from the date of tender opening.			
4.	Payment Terms - confirm your offered mode of payment			
5.	The Prices offered should remain firm till the completion of delivery, in case the purchase order is placed with you.			
6.	Delivery schedule required for 04 vessels at HOOGHLY CSLas per clause 15 of Annexure-3,			
7.	Have you quoted the rates on FOR HOOGHLY CSL Stores basis			
8.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer?			
9.	L.D. payable as per relevant Clause in the General terms of enquiry.			
10.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.			
11.	Termination of contract/Risk purchase as per relevant clause in the General terms of enquiry.			
12.	Supplier Should furnish all the requisite certificates as per Annexure-1 (Purchase technical specification for fire detection system)			
13.	Confirm all other terms and conditions of enquiry are acceptable.			
14.	Vendor details to be submitted as per Annexure-9			
15.	NEFT Mandate form to be submitted as per Annexure-10			
16.	List of deviations to be submitted as per Annexure-11			
17.	Bank Guarantee Format to be submitted as per Annexure-12			





**Annexure-9****VENDOR DETAILS (to be submitted along with TECHNICAL BID)**

<b>1</b>	Name of Bidder/Firm	
<b>2</b>	Registered office Address of Company/firm in Kolkata/Howrah: Local office address at Kolkata/Howrah (if held):	
<b>3</b>	Telephone No./Fax No./Mobile No:	
<b>4</b>	E-mail address:	
<b>5</b>	Names of the contact person & Designation:	1) 2) 3)
<b>6</b>	Type of Entity-Pro praetorship/Partnership firm/company/NSIC/MSME Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
<b>7</b>	Cost of Tender Details (DD No. Name of Bank)	N/A
<b>8</b>	EMD Details (DD No. Name of Bank)	N/A
<b>9</b>	PAN Card Number (Self-attested copy of PAN card has to be Submitted)	
	GST Registration No. (Self-attested copy has to be Submitted)	
<b>10</b>	Whether the agency has been blacklisted/debarred or given tender holiday or contract terminated before expiry of the contract period by any govt. autonomous bodies/organizations where bidder has provided services earlier due to deficiencies in service or misconduct etc.	Yes/No (Please tick as applicable) If yes, please furnish details on a separate sheet

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

**Place:**

**Date:**

**Signature of Supplier/Authorized signature of firm/agency:**

**Name of Supplier or authorized signatory of firm/agency:**

**Designation:**





## NEFT MANDATE FORM

**(ON THE LETTER HEAD OF THE COMPANY)**

## Electronic Payment Mandate Form

(Mandate for receiving payments through RTGS/NEFT Hooghly Cochin Shipyard Ltd)

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

- 3) Vendor Code

- 4) Permanent Account No. (PAN)

[illegible]

- 5) Particulars of Bank Account

- a. Name of the Bank

[illegible][illegible]

- b. Name of the Branch

[illegible][illegible]

- c. Branch Code

- d. NEFT Code of the Bank
- 
- e. City Name

- e. City Name

- f. Branch Location

- g. Branch Telephone No.  
h. Bank IFSC Code  
i. Bank MICR Code

- 

- i. 9-Digit MICR Code

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

(Where MICR is starting with "0". Please take the correct code from your bank for proper identification of city, bank, branch)

- i. Type of the Account (S.B  
Current or  
Cash Credit) with code

Current or  
Cash Cred

- Cash Credit) with code  
(010/011/013)

--	--	--

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

[illegible]

- 6 Email Address of Vendor  
7 Date of Effect of RTGS/N

- 7 Date of Effect of RTGS/NEFT  
in your Bank

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





We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or lost because of incomplete or incorrect information, we would not hold the company responsible.

(.....)

Signature of Employee

Bank Certificate

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

Date:

Place:

(.....)

Authorized official of  
Bank





## Annexure-11

<b>COMPLIANCE STATEMENT- List of Deviations</b>		<b>PAGE 1 OF 1</b>
<b>Tender Name:</b> Supply and Installation of Orange Chock-fasting of 04 types of Machinery foundations for 40T BP ASD Tug at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah		
<b>TENDER NO:</b> HCSL/PUR/TEN/2025/029 Dated: 04.04.2025		
We hereby confirm and truly declare that our Offer / Bid No. ....dated .....is in full compliance with the documents issued against the Tender No. -----dated -----, except for the deviations listed below: LIST OF DEVIATIONS (HOOGLY CSL reserves the right to reject offers with deviations)		
Sl. No.	Description / Tender Reference	Reasons for Deviation
Name of tenderer: _____  <div style="display: flex; justify-content: space-between;"> <div>Date: _____</div> <div>Name &amp; Designation _____</div> <div>Seal &amp; Signature _____</div> </div> <div style="text-align: right; margin-top: 20px;">(Company Seal)</div>		



**BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT/  
WARRANTY GUARANTEE**

To

**HOOGHLY COCHIN SHIPYARD LTD**

(Govt. of India Enterprise,)

Satyen Bose Road,

Danesh SK Lane (PO),

Nazirgunge, Howrah,

West Bengal - 711109.

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

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

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

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

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

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





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

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

**Notwithstanding** anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed .....(only).

2. This Bank Guarantee shall be valid upto (date)and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if **HOOGHLY CSL** serve upon us a written claim or demand on or before.....(validity date).

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

Yours truly,

Signature and seal of the

guarantor:.....

Name of

Bank:.....

...

Address:.....

Date:.....

<sup>11</sup> An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in respective Dollars / Indian Rupees/Other Currency.



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

Bid's Reference No. & Date:

Bidder's Name & Address:

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

1. We do hereby declare that we have not been debarred/black listed by HOOGHLY CSL or by any of the Public Sector Undertaking or Government department etc.
2. If HOOGHLY CSL finds that, we have been blacklisted/ debarred by any of the Public Sector Undertaking or Government department, and then HOOGHLY CSL can reject the offer or terminate the contract at any point of time. In such case, we are aware that, EMD, security deposit, performance guarantee etc will be forfeited by HOOGHLY CSL. Further we are confirming herewith that, any loss that has happened to HOOGHLY CSL due to this will be compensated by us.

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date: .....

Place:.....





(Sample Format)

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

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

### SIGNATURE OF BIDDER



Rev. No.	Pages	Description	Date	Sign.
0	21	First Issue	10-02-2025	Rakesh



## HOOGHLY COCHIN SHIPYARD LIMITED

HOWRAH – 711 109

YARD NO		01124001, 01224002, 01324003, 01424004,	<b>PROJECT: 40 T BOLLARD PULL ASD TUG</b>									
OWNER		INDUSTRIAL HANDLING PRIVATE LIMITED	<b>PURCHASE TECHNICAL SPECIFICATIONS FOR CHOCKFASTING</b>									
APPROVED		SANIL PETER										
CHECKED		RAKES N										
PREPARED		RAKESH KR. SAGAR										
DATE		10-02-2025	Doc. No.: PTS-01124001-046									
ISSUED TO	NO. DEP.											
	NO.											

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





## **PURCHASE TECHNICAL SPECIFICATIONS FOR CHOCKFASTING**

### **1. NAME & QUANTITY**

Orange chock-fastening to be supplied for the following machinery foundations.

- |                    |   |                     |
|--------------------|---|---------------------|
| a. Main Engine     | - | 2 Nos               |
| b. Fi-Fi Pump      | - | 1 Nos               |
| c. Shaft Bearings  | - | 10 Nos (both sides) |
| d. Anchor Windlass | - | 1 Nos               |

The calculated quantity of orange chock-fastening for the machinery above is 127 L. The firm shall supply the suitable quantity of chock fast for the machinery above as required.

Quantity indicated is for 1 vessel. The total requirement is for 04 vessels.

### **2. CONDITIONS OF SUPPLY**

- a) Vendor to supply and carry out pouring of chock fastening inside the vessel.
- b) Orange chock-fastening to be supplied & poured.
- c) The specific deadweight loading considered for chock-fast is  $9\text{kg/cm}^2$  and specific loading of chock-fast after tightening of bolt is  $45\text{kg/cm}^2$ . In case of any changes in the values, the same should be specified in the offer.
- d) The chock-fastening calculations for the machinery listed in clause 1 is attached herewith this document as Annexure-1. The firm shall verify the same and provide valuable suggestions for changes, if any.
- e) The class approval for chock-fastening calculations will be obtained by yard post finalization of order and confirmation from the vendor.
- f) Set of accessories for application of 01 vessel:
  - Damming Foam (Size 6" long) = 32 nos (approx.)
  - Sealing Putty (1 kg/pack) = 26 nos (approx.)
  - Non-melt grease (0.5kg per Can)= 11 nos (approx.)
  - Mould Release spray (500 ml) = 03 nos (approx.)
  - Mixer Blade (Big) = 05 nos. (approx.)
- g) Final quantity shall be mentioned in Purchase order.
- h) In case of failure, the vendor to rectify as necessary without additional cost.



- i) Prior to pouring, test samples will be sent to NABL/Government Approved lab for Yard appointed IRS will witness the pouring of Chock Fasting. testing. Vendor to include lab testing cost.
- j) Yard appointed IRS will witness the pouring of Chock Fasting.

### **3. DOCUMENTS TO BE SUBMITTED ALONG WITH THE TECHNICAL OFFER**

- a. TDS (Technical Data Sheets) of the offered products.
- b. MSDS (Material Safety Data Sheet) of the offered products.
- c. Quantity offered per shipsets, rounded up to the next higher standard pack size of the product.

### **4. PRESERVATION**

All pipes shall be varnished/oiled externally, and ends shall be blanked using wood or plastic caps.

### **5. GUARANTEE**

Manufacturer shall guarantee all the items for any defect in design, material and workmanship for a period as mentioned in the commercial terms of the inquiry.

### **6. ANNEXURE**

Doc. No: 01124001-01-001-A-Chockfasting Calculations for Main Engine, FiFi Pump, Shaft Bearings and Anchor Windlass.

**Note: Notwithstanding any omission in this specification, all items/features required as per class rules/statutory regulations, safe working and good ship building practice shall be included in the offer by the bidder**







## Table of Contents

1. MAIN ENGINE.....	3
2. FIF PUMP.....	7
3. SHAFT BEARING .....	11
4. ANCHOR WINDLASS.....	14

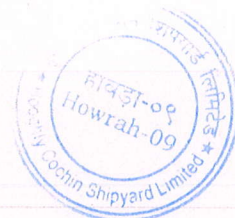




## CHOCK FAST AREA CALCULATION

### 1. MAIN ENGINE

Model No	:	6L25HX	
Make	:	Niigata	
Dry Mass	:	13500	Kg
Wet Weight of Engine		14500	Kg
(including oil and jacket water)	:		
Total Load acting on foundation	:	142245	N
No of foundation bolts	:	12	Nos.
Diameter of foundation bolts	:	30	mm
Diameter of foundation bolt hole	:	33	mm
Area of one foundation bolt holes	:	855.30	mm <sup>2</sup>
No of jack bolt	:	6	Nos.
Diameter of jack bolts	:	24	mm
Diameter of jack bolt hole	:	26	mm
Area of jack bolt holes	:	530.93	mm <sup>2</sup>
No of reamer bolts	:	2	Nos.
Diameter of reamer bolts	:	34	mm
Area of jack reamer holes	:	907.92	mm <sup>2</sup>



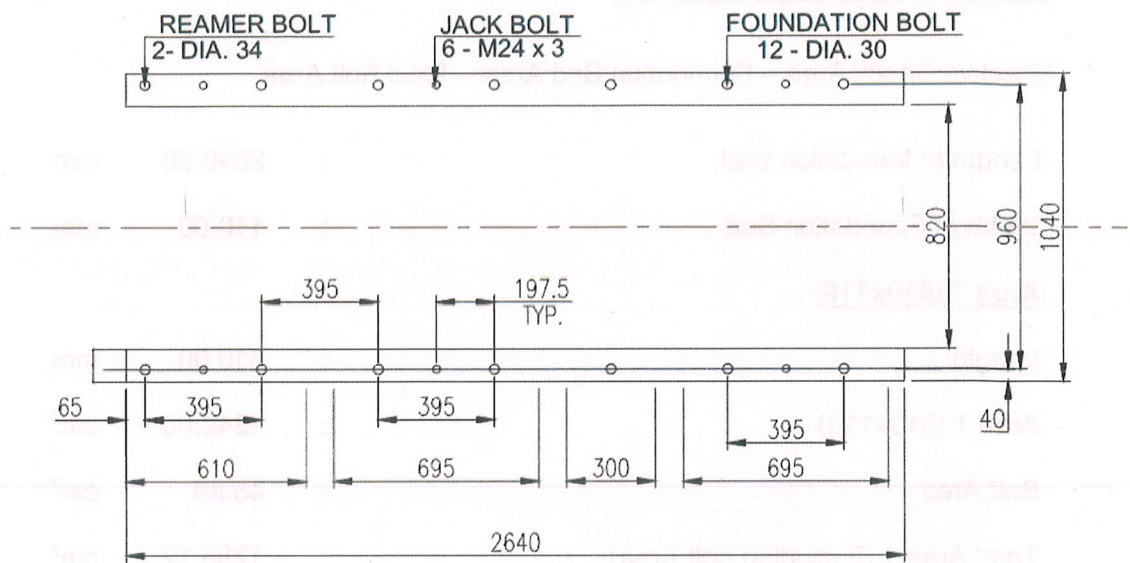


Fig 1. Footprint Drawing for Main Engine

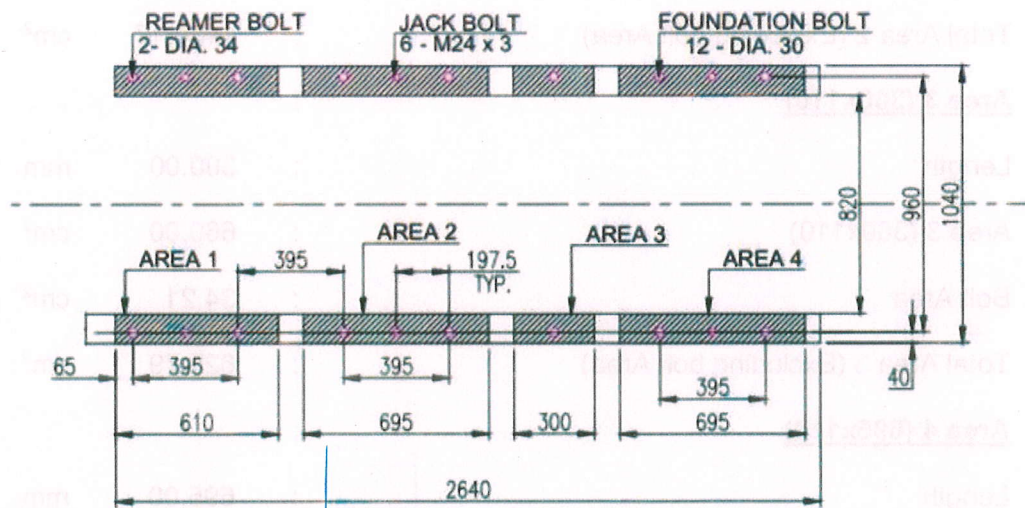


Fig 2. Chock fastening area of Main Engine





**Effective Area of Chock Fastening:**

Effective Chock Area = Foundation Bed Area – Total Bolt Area

Length of foundation Bed : 2640.00 mm

Width of Foundation Bed : 110.00 mm

**Area 1 (610x110)** :

Length : 610.00 mm

Area 1 (610x110) : 1342.00 cm<sup>2</sup>

Bolt Area : 45.88 cm<sup>2</sup>

Total Area 1 (Excluding bolt Area) : 1296.12 cm<sup>2</sup>

**Area 2 (695x110)** :

Length : 695.00 mm

Area 2 (695x110) : 1529.00 cm<sup>2</sup>

Bolt Area : 44.83 cm<sup>2</sup>

Total Area 2 (Excluding bolt Area) : 1484.17 cm<sup>2</sup>

**Area 3 (300x110)** :

Length : 300.00 mm

Area 3 (300x110) : 660.00 cm<sup>2</sup>

Bolt Area : 34.21 cm<sup>2</sup>

Total Area 3 (Excluding bolt Area) : 625.79 cm<sup>2</sup>

**Area 4 (695x110)** :

Length : 695.00 mm

Area 4 (722.5x110) : 1529.00 cm<sup>2</sup>

Bolt Area : 44.83 cm<sup>2</sup>

Total Area 4 (Excluding bolt Area) : 1484.17 cm<sup>2</sup>



Effective Chock Area	:	4890.24	cm <sup>2</sup>
Deadweight Loading on Chocks	:	<u>Equipment Weight</u> Effective Chock area	
Deadweight Loading on Chocks	:	2.97	Kg/cm <sup>2</sup>
	:	29.09	N/cm <sup>2</sup>
Chock fasting Material	:	Chock fast Orange	
Thickness of chock fast	:	12mm- 50 mm (1/2"-2")	
Maximum Permissible deadweight on Chocks	:	9.00	Kg/cm <sup>2</sup>

***The dead weight loading 2.97kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (9 kg/cm<sup>2</sup>).***

Tightening torque of each bolt	:	588.00	Nm
Tension on each bolt	:	98000.00	N
Total Bolt Tension	:	1176000.00	N
Maximum Total Static Loading		Bolt Tension + Equipment	
	:	Weight	
	:	1318245.00	N
Maximum Total Static Loading	:	134377.68	Kg
Static Stress on chock cast	:	<u>Maximum Total static Loading</u> Effective Chock area	
Static Stress on chock cast	:	27.48	Kg/cm <sup>2</sup>

***The static stress on chock fast due to the deadweight and tightening torque of bolts (27.48Kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (45 kg/cm<sup>2</sup>).***

**NOTE: The chock thickness is 40 mm**





## 2. FIFI PUMP

Model No : OGF300x400

Make : Jason

Weight : 1300 Kg

Total Load : 12753 N

### Area 1&2(380x85)

Length of foundation bed 1&2 : 380 mm

breadth of foundation bed 1&2 : 85 mm

Area of Foundation Bed 1&2 : 64600 mm<sup>2</sup>

### Area 3&4(184x130)

Length of Foundation Bed 4&3 : 184 mm

Breadth of Foundation Bed 4&3 : 130 mm

Area of Foundation Bed 4&3 : 47840 mm<sup>2</sup>

Total Foundation area : 1124.4 cm<sup>2</sup>

### **For FiFi Gearbox**

No. of Foundation Bolts : 6 Nos.

Diameter of Foundation Bolt Hole : 27 mm

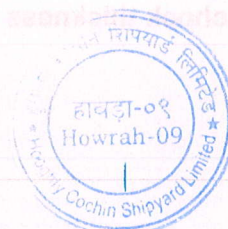
Area of Foundation Bolt Hole : 5.73 cm<sup>2</sup>

### **For FiFi Pump**

No. of Foundation Bolts : 4.00 Nos.

Diameter of Foundation Bolt Hole : 30.00 mm

Area of Foundation Bolt Hole : 7.07 cm<sup>2</sup>



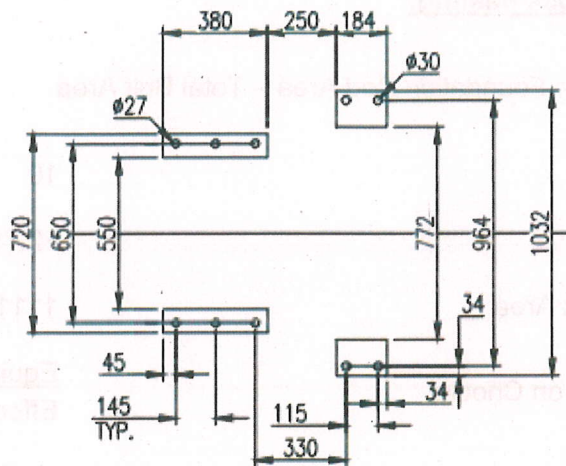


Fig 3. Footprint Drawing for Fi-Fi Pump

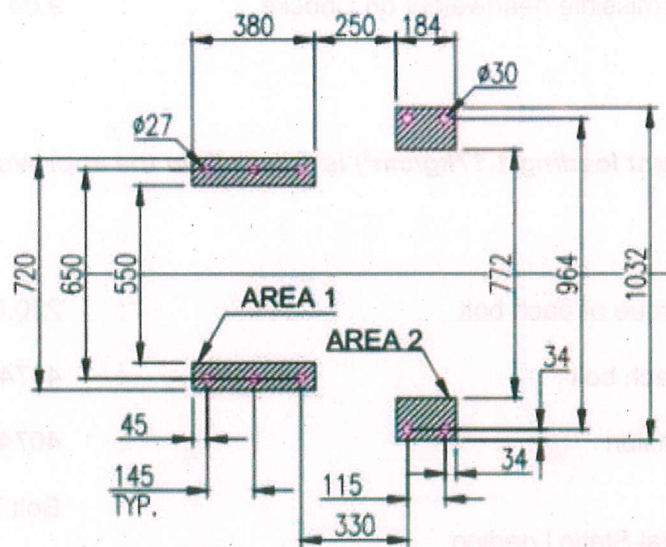
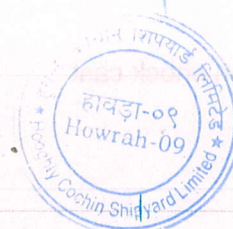


Fig 4. Chock fastening area of Fi-Fi pump & Gear Box





### Effective Area of Chock Fasting:

Effective Chock Area = Foundation Bed Area – Total Bolt Area

Total No. of Bolts	:	10	Nos.
Total Bolt Area	:	12.79	cm <sup>2</sup>
Total Effective Chock Area	:	1111.61	cm <sup>2</sup>
Deadweight Loading on Chocks	:	<u>Equipment Weight</u> Effective Chock area	
	:	1.17	Kg/cm <sup>2</sup>
Deadweight Loading	:	11.47	N/cm <sup>2</sup>
Chock fasting Material	:	Chock fast Orange	
Thickness of chock fast	:	12mm- 50 mm (1/2"-2")	
Maximum Permissible deadweight on Chocks	:	9.00	Kg/cm <sup>2</sup>

***The dead weight loading 1.17kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (9 kg/cm<sup>2</sup>).***

Tightening torque of each bolt	:	220.00	Nm
Tension on each bolt	:	40740.74	N
Total Bolt Tension	:	407407.41	N
Maximum Total Static Loading	:	Bolt Tension + Equipment Weight	
	:	420160.41	N
Maximum Total Static Loading	:	42829.81	Kg
Static Stress on chock cast	:	<u>Maximum Total static Loading</u> Effective Chock area	
Static Stress on chock cast	:	38.53	Kg/cm <sup>2</sup>

The static stress on chock fast due to the deadweight and tightening torque of bolts (38.53Kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (45 kg/cm<sup>2</sup>).

NOTE: The chock thickness is 40 mm





### 3. SHAFT BEARING

Weight	:	350	kg
No. of bearings Holding the Shaft	:	5	Nos.
Shaft Inclination Angle	:	2.16	Deg.
Weight acting on chock fast of one bearing	:	70	kg
Total Load Acting on each bearing	:	686.7	N
Length of Foundation Bed	:	230	mm
Breadth of Foundation Bed	:	440	mm
No. of Jack Bolts	:	4	Nos.
Diameter of Jack Bolts	:	20	mm
Diameter of Jack Bolts holes	:	22	mm
No. of Reamer Bolts	:	2	Nos.
Diameter of Reamer Bolts	:	27	mm
Diameter of Reamer Bolts holes	:	29	mm

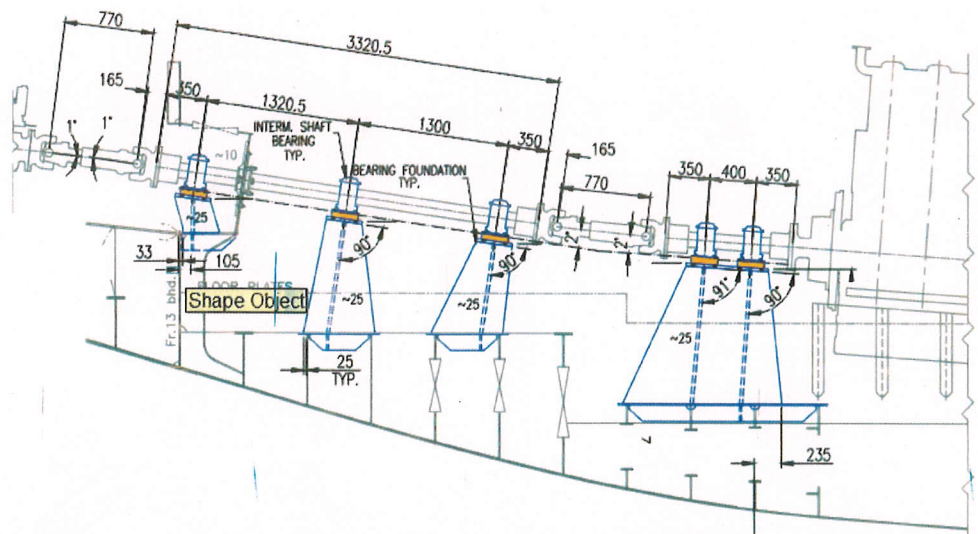


Fig 5. Arrangement of Shaft Bearing



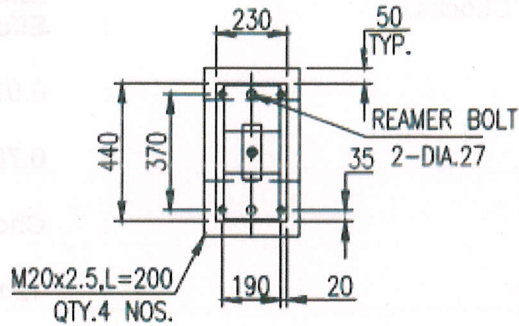


Fig 6. Footprint Drawing for Shaft Bearing

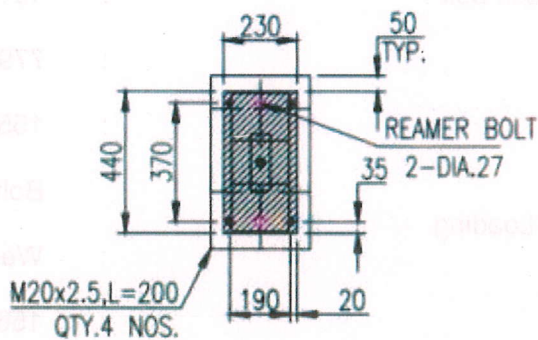


Fig 7. Chock fastening area of Shaft Bearing

#### Effective Area of Chock Fastening:

Effective Chock Area = Foundation Bed Area – Total Bolt Area

Area of Foundation Bed	:	101200	mm <sup>2</sup>
Area of jack bolt holes	:	2665.64	mm <sup>2</sup>





Total Effective Chock Fast Area	:	985.34	cm <sup>2</sup>
Deadweight Loading on Chocks	:	$\frac{\text{Equipment Weight}}{\text{Effective Chock area}}$	
Dead weight Loading	:	0.07	Kg/cm <sup>2</sup>
	:	0.70	N/cm <sup>2</sup>
Chock fasting Material	:	Chock fast Orange	
Thickness of chock fast	:	12mm- 50 mm (1/2"-2")	
Maximum Permissible deadweight on Chocks	:	9.00	Kg/cm <sup>2</sup>

***The dead weight loading (0.07kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (9 kg/cm<sup>2</sup>).***

Tightening torque of each bolt	:	421.00	Nm
Tension on each bolt	:	77962.96	N
Total Bolt Tension	:	155925.93	N
Maximum Total Static Loading	:	Bolt Tension + Equipment Weight	
	:	156612.63	N
Maximum Total Static Loading	:	15964.59	Kg
Static Stress on chock cast	:	$\frac{\text{Maximum Total static Loading}}{\text{Effective Chock area}}$	
Static Stress on chock cast	:	16.20	Kg/cm <sup>2</sup>

***The static stress on chock fast due to the deadweight and tightening torque of bolts (16.20kg/cm<sup>2</sup>) is lesser than the approved specific loading of chockfast (45 kg/cm<sup>2</sup>).***

**Note: The chock thickness is 50 mm**



#### 4. ANCHOR WINDLASS

Model No	:	WR-AWT-WGDGW22-010122	
Make	:	W-RIG	
Weight	:	7580	Kg
Total Load	:	74359.8	N
Length of Foundation Bed 1	:	385	mm
Breadth of Foundation Bed 1	:	240	mm
Foundation Bed Area 1	:	277200	mm <sup>2</sup>
Foundation Bed Area 2	:	256080.29	mm <sup>2</sup>
Length of Foundation Bed 3	:	325	mm
Breadth of Foundation Bed 3	:	210	mm
Foundation Bed Area 3	:	136500	mm <sup>2</sup>
Length of Foundation Bed 4	:	185	mm
Breadth of Foundation Bed 4	:	210	mm
Foundation Bed Area 4	:	77700	mm <sup>2</sup>
No. of Foundation Bolt	:	32	Nos.
Diameter of Foundation Bolt	:	36	mm
Diameter of Foundation Bolt hole	:	39	mm
Area of Foundation Bolt Hole	:	1194.59	mm <sup>2</sup>
No. of Jack Bolt	:	8	Nos.
Diameter of Jack Bolt	:	24	mm
Diameter of Jack Bolt hole	:	26	mm
Area of Jack Bolt hole	:	530.93	mm <sup>2</sup>





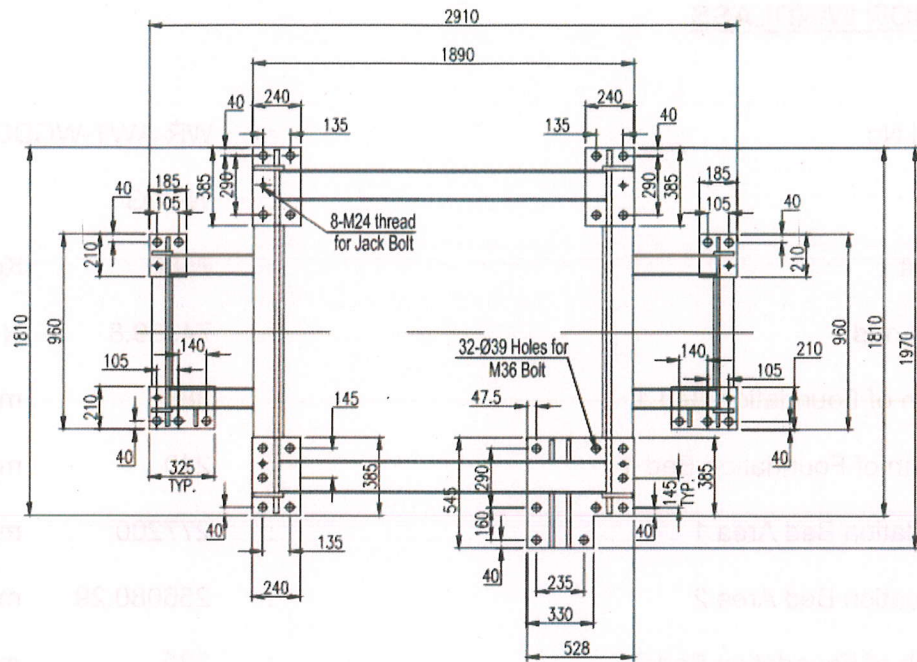


Fig 8. Footprint Drawing for Anchor Windlass

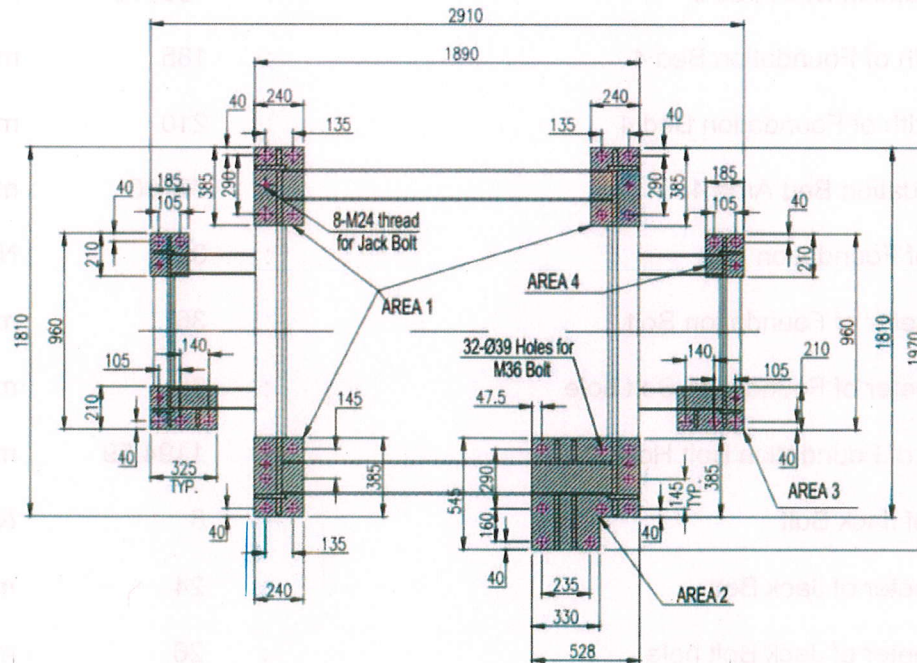


Fig 9. Chock fastening area of Anchor Windlass



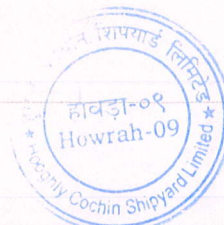
### Effective Area of Chock Fastening:

Effective Chock Area = Foundation Bed Area – Total Bolt Area

Total Foundation Bed Area	:	747480.29	mm <sup>2</sup>
Total Bolt Area	:	42474.33	mm <sup>2</sup>
Effective Chock Fastening Area	:	7050.06	cm <sup>2</sup>
Deadweight Loading on Chocks	:	<u>Equipment Weight</u> Effective Chock area	
Deadweight Loading	:	1.08	Kg/cm <sup>2</sup>
Chock fastening Material	:	Chock fast Orange	
Thickness of chock fast	:	12mm- 50 mm (1/2"-2")	
Maximum Permissible deadweight on Chocks	:	9.00	Kg/cm <sup>2</sup>

***The dead weight loading (1.08kg/cm<sup>2</sup>) is lesser than the approved specific deadweight loading of chockfast (9 kg/cm<sup>2</sup>).***

Approved Specific Loading	:	45	Kg/cm <sup>2</sup>
Available Loading Pressure on chocks	:	43.92	Kg/cm <sup>2</sup>
Load at Leg 1 (Area 1)	:	94224.21	kg
Total No. of Bolts (Area 1)	:	15.00	Nos.
Load per bolt at Leg 1	:	6281.61	kg
Torque on each Bolt	:	45.23	Kgm
Load at Leg 2 (Area 2)	:	31408.07	kg
Total No. of Bolts (Area 2)	:	9	Nos.
Load per bolt at Leg 2	:	3489.79	kg
Torque on each Bolt	:	25.13	Kgm
Load at Leg 3 (Area 3)	:	9731.42	kg





Total No. of Bolts (Area 3)	:	6.00	Nos.
Load per bolt at Leg 3	:	1621.90	kg
Torque on each Bolt	:	11.68	Kgm
Load at Leg 4 (Area 4)	:	9731.42	kg
Total No. of Bolts (Area 4)	:	4.00	Nos.
Load per bolt at Leg 4	:	2432.85	kg
Torque on each Bolt	:	17.52	Kgm

**NOTE: The chock thickness is 25 mm**



### Summary:-

Equipment	Thickness (cm)	Effective Chock Area (cm2)	Volume (cm3)	Volume (litre)	No. of equipment per vessel	Total Volume (litre)
Main Engine	4	4890.24	19560.96	19.56096	2	39.12
FiFi Pump	4	1111.61	4446.44	4.44644	2	8.89
Shaft Bearings	5	985.34	4926.7	4.9267	10	49.26
Anchor Windlass	2.5	7050.06	17625.15	17.62515	1	17.62
Total Requirement (In Liters)						~ 115.0
Total Requirement + 10% Allowance						127.0

