

HOOGHLY COCHIN SHIPYARD LIMITED

(A Govt. of India Enterprise)

Tender No: HCSL/PUR/TEN/2025/100

Dated.01.11.2025

TENDER NOTICE

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

Tender No. & date	HCSL/PUR/TEN/2025/100, Dated. 01.11.2025
Scope of work	Procurement of Valve (Non-Class approved) at Hooghly Cochin Shipyard Limited, Nazirgunge Unit, Howrah.
	(Detailed specification is enclosed separately).
Earnest Money Deposit	Nil
Type of Tender	Two Bid (Email Tender)
Last date & time of receipt of tender	07.11.2025 at 15:00 Hrs.
Date & time of opening of technical bid	07.11.2025 at 15:00 Hrs.
Tenure of contract	40 Days from the date of issuance of PO.
Officer - in - Charge	Name: Saikat Kumar Biswas Designation: Deputy Manager (Materials) Email: saikat.biswas@hooghlycsl.com Phone No: 8250792208 Name: Sreerag .G Designation Manager (Materials) Email sreerag.g@hooghlycsl.com Phone No 9482608957

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.

Signature and Seal of the Bidder(s)

For Hooghly Cochin Shipyard Limited

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) saikat.biswas@hooghlycsl.com

Email: Phone No:

8250792208

Name:

Sreerag .G

Designation

Manager (Materials)

Email

sreerag.g@hooghlycsl.com

Phone No

9482608957

For any technical queries:

For technical query(Please contact the below person)

Name

: Karthik K

Designation

: Manager (Mechanical)

Email

: karthik.k038@hooghlycsl.com

Phone No

: +91 7799670699

For Hooghly Cochin Shipyard Limited

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PRE-QUALIFICATION CRITERIA

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

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

Similar Supply means:

Successful supply of valves to for State/Central Govt., Shipyards within scheduled delivery date as per PO/extended delivery date, plus 3 weeks as grace period.

Note: Any delivery beyond 3 weeks after scheduled delivery date/extended delivery date shall not be considered as successful experience for this tender.

- ii. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (2021-22, 2022-23,2023-24) should be submitted along with the application for prequalification.
- iv. The Tenderer should enclose copy of MSME Certificate in relevant field (if applicable), PAN, GST registration certificate, Income tax returns for last three FY (2021-22, 2022-23,2023-24).
- v. Offers from joint ventures/consortium will not be accepted.
- vi. Net worth of the bidder must be positive as per the latest balance sheet. (MSME/NSIC will get exemptions)

SCOPE OF WORK AND TECHNICAL SPECIFICATION

(Attached separately)

Purchase Technical Specifications for Valves (Total No. of Pages: 07)

PRICE BID FORMAT

Tender No. HCSL/PUR/TEN/2025/100, Dated.01.11.2025

Sr. No	Туре	Size (NB)	Pr. Rating	Class	End Connection	System	Fluid	Body Material	Qty	FTF	Unit Price (Rs.)	Total Amount without GST (Rs.)
i di	hisum som en ener acce	SECTION 1							(A)		(B)	C=A x B
1	SDSL VALVE (SV 1.1,1.2) Globe Valve	80	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	2 0	310	antes, c	Lagor Vingo
2	SDSL VALVE (SV 3.1,3.2,3.3) Globe Valve	65	PN 10	III	Flange	Fire Main System	Bilge Water/Sea Water	Nodular Cast Iron	3	290	Mau-ji	spear the second
3	SDSL VALVE (GV 1.1) Globe Valve	15	PN6	III	Flange	Domestic Fresh Water	Fresh Water	Nodular Cast Iron	3	130	Francisco St.	ase, actions
4	SDNR VALVE -4.1	40	PN 10	III	Flange	Fire Main System	Bilge Water/Sea Water	Nodular Cast Iron	1	200		
5	RELIEF VALVE (1.1) (Set value 7.5 bar)	40	PN 10	III	Flange	Fire Main System	Bilge Water/Sea Water	Nodular Cast Iron	1	-		
6	RELIEF VALVE (2.1) (Set value 7.5 bar)	65	PN 10	III	Flange	Fire Main System	Bilge Water/Sea Water	Nodular Cast Iron	1	-		
7	PRESSURE RELIEF VALVE(lov2.1-2.5)	10	PN 6	III	Threaded	Lube Oil System	Lube Oil	Nodular Cast Iron	5	-		
8	BALL VALVE (7)	25	PN 10	III	Threaded	EXHAUST SYSTEM	Air	Nodular Cast Iron	2	-		
9	BALL VALVE (LOV3.1 and 01 no FO System)	25	PN 10	III	Flange	LUBE OIL SYSTEM/FUEL OIL SYSTEM	Lub Oil/Fuel Oil	Nodular Cast Iron	2	125		
10	BALL VALVE (LOV 4.1-4.5)	10	PN 10	III	Flange	LUBE OIL SYSTEM	Lub Oil	Nodular Cast Iron	5	115		
11	BALL VALVE(CA 8.1 -8.6)	15	PN 10	III	Flange	COMPRESSED AIR SYSTEM	Compressed Air	Nodular Cast Iron	6	-		
12	Check Valve	15	PN10	III	Flange	Fuel Oil System	Fuel Oil	Nodular Cast Iron	2	-		
13	Check Valve	10	PN10	III	Threaded	Fuel Oil System	Fuel Oil	Nodular Cast Iron	2	-		
14	Check Valve	25	PN10	III	Flange	Fuel Oil System	Fuel Oil	Nodular Cast Iron	1	-		

15	Total amount withou	et GST (Rs.)
16	HSN Code	e set ou system from the production of the free from the set of the free free free free free free free fr
17	Total GST amoun	nt (Rs.)
18	Total amount including	ng GST (Rs.)
19	Total amount including GST (Rs.)- In Words	PARENT CONTRACT CONTRACT DESCRIPTION OF THE PROPERTY OF THE PR

NOTE:

- 1. Bidder has to submit the price bid as mentioned in the format only, otherwise bid will be rejected.
- 2. Quoted rate should be inclusive of all charges on FOR Hooghly CSL stores basis considering entire scope of work & technical specification as per tender (Annexure-1).
- 3. The L1 shall be determined based on Overall quoted amount excluding GST.
- 4. Quotation for all line items is mandatory. Partially quoting for few line items shall result in rejection of the bid.
- 5. Freight Charge, Inspection Charge if any or any other charges should be included in Unit Rate and not to be mentioned as a separate line item.
- 6. 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.

General Terms & Conditions

SL.	Description	Compliance bySupplier: (YES/NO) In case of non- compliance, please provide remarks.
1.	Tenderers are to carefully go through the terms and conditions and the technical specification of the items for which offers are called for.	ro eV Igosopi
2.	Corrections and additions, if any, must be attested. Incomplete/ambiguous offers are likely to be rejected.	rancal
3.	All applicable taxes, duties, transportation, delivery, etc at Hooghly CSLNazirgunge, should be included in the rate quoted, unless specified otherwise. HOOGHLY CSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.	ansica in bog cit
4.	Tenderers should quote prices for delivery of materials at Hooghly CSL store (Address: Hooghly Cochin Shipyard Ltd (Hooghly CSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109). Insurance for transit shall be arranged by the vendor.	rodus and tunent of the control of t
5.	Bidders to note that no advance payment will be made by Hooghly CSL against purchase order issued.	16. Sample
6.	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.	to nA rr moonl th liA gr
7.	Final amount shall be calculated on the basis of accepted quantity by Hooghly CSL executing officer/store officer.	o The q
8.	Hooghly CSL has the right to withdraw the tender in partial or full during the course of this tender.	me of
9.	Delivery:40 Days from the date of issuance of PO. (Delivery period is inclusive of time frame for drawing preparation, manufacture, transportation etc.) The delivery schedule shall be a deciding factor in the finalization of this tender. Bidders are requested to clearly indicate the delivery lead time in the technical bid. Hooghly CSL reserves the full right to accept/reject any offer based on the delivery period.	त्रात शिपयांड है। वर्षात शिपयांड है।

10.	Loading, transportation and all sundry expenses etc. shall be at supplier's scope. Material unloading scope at Hooghly Cochin Shipyard Ltd, Nazirgunge Unit is under Hooghly CSL Account.	
11.	In case of rejection, the rejected item shall be taken back by the supplier from Hooghly CSL site and replace the same with new, without any additional cost. The replacement has to be completed within 5days from the date of intimation.	
THE STATE OF THE S	Validity: The offer should be valid for a minimum period of 90Days from the date of Techno-Commercial Bid opening.	
12.	No enhancement of rate for whatever 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 Security deposit, if any and/or risk purchase.	Dings (finage pan / h
13.	Acknowledge the receipt and acceptance of purchase order/Work order by signing and returning a copy of the same within three days of receipt of the same. If the acknowledgement is not received, it will be presumed as accepted.	20011 E I
14.	Subcontracting is not allowed.	26-233
15.	Manufacturer's name, their trade mark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars etc., should be attached to the offer.	aparticl a
16.	Samples are to be supplied free of cost in the event of requirement by Hooghly CSL.	edona mana
17.	An offer with full scheme shall only be considered for further processing. Incomplete offers may be rejected without prior notice	State A
18.	All documents submitted against this tender shall be signed and sealed by authorized persons. Otherwise, it may be rejected without prior notice	Direlas
19.	The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders	Ng Sana
20.	Payment Terms: a) 100% on receipt and acceptance of materials (full order quantity) at Hooghly CSL stores after inspection. Payment shall be released against invoice certified by store officer/executing officer and other mandatory documents, as per purchase order and on furnishing the following documents.	reliati
	 i. GST Invoice in Triplicate. ii. Packing List. iii. Certificate as per PTS. b) Payment shall be made as per actual quantity of supply and at the accepted rates. 	क्रिकारी क्रिकारी
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- c) Supplied material to be verified defect free, and to be accepted.
- d) Payment towards all on account bills shall be normally paid within 45 working days from the date of receipt of error free certified bill by the Officer of Hooghly CSL as far as possible.
- e) To avoid non-acceptance, ensure to indicate P.O.NO, ITEM NO, PART NO. AND VENDOR CODE in the Delivery Challan accompanying the material.
- f) i) The invoice shall be compliant with GST Law. (ii) GST liability is to be discharged and ensure filing of outward supply details on GSTN portal within timeline prescribed. (Covered under GST Terms and Condition at (B)) (iii) Any debit note/supplementary invoice if any, is to be raised within September month following the respective Financial year or filing of annual return by Hooghly CSL, whichever is earlier. (iv) Any loss of tax credit due to the reason attributable to supplier shall be recovered from supplier along with Applicable interest and penalty.
- g) Part payment on pro-rata / part supplies shall be considered only if specifically agreed against partial supplies.
- 21. Materials offered shall confirm to Hooghly CSL specification.

Security Deposit/ Warrantee Bank Guarantee:

22.

- a.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 favour 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 a Scheduled Indian bank is to be submitted, if an order is placed towards satisfactory performance of the contract.
- a.ii) 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. However, in the case of items where WBG is not applicable, the SD shall be valid for item delivery at yard plus 90 days. 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, Kolkata.
- a.iii) The above SD/WBG is required or applicable only when the total order value (excluding taxes and duties) is Rs.20 Lakhs and above.
- b) If the bidder is not agreeable to submission of SD/ warrantee bank guarantee as per Hooghly CSL general terms and conditions of enquiry, Hooghly CSL reserves the right to reject the offer at their discretion or 3% of total order value (excluding taxes and duties) will be added to the quoted

	price for tender comparison/ evaluation purpose on case-to-case basis for arriving the lowest bid. However, in cases where total quoted value is less than 20 lakhs, (ie split order etc) and the order value of entire tendered items is more than Rs 20.0 lakhs, the aforesaid loading will be applied on individual items in following cases.	
	The bidder has not quoted for entire tendered quantity	
	 Hooghly CSL has technically / commercially rejected a few items in the tender 	
	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, in general.	
23.	EMD (Earnest Money Deposit): Nil	
24.	Force Majeure condition: - Should failure in performance of the contract or part thereof arise from war insurrection, restrain 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.	
25.	Liquidated Damage: 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 materials delayed subject to a maximum of 10% of the total basic price of the materials delayed (Total basic price is the order value excluding freight, taxes, other charges etc.). Further GST will be applicable upon LD and the same also will be deducted along with LD. However, LD applicability is without prejudice to Hooghly CSL right to terminate contract for delayed delivery or other actions as per Risk Purchase clause.	
26.	 Risk Purchase: 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 	FOREST-OR BANK

	(or equivalent foreign currency). Cases of value less than 20 lakhs will be addressed by serving appropriate caution/ warning notice to the firm.	Shoot .
	Warranty/ Guarantee: -	
27.	a) The Items supplied shall be guaranteed for rated performance and against damage or failure due to faulty design, defective materials and bad workmanship for a period of 12 months from the date of delivery of the ship to owner or 24 months from delivery of items to Yard, whichever is earlier. Should such damage/failure occur within the Guarantee period, supplier should immediately rectify the failure by repair/replacement of any such part found to be under performing/defective, at supplier's own expenses.	
	b) Further, replaced/repaired items shall be guaranteed for 12 months from date of repair/replacement.	
i hoj	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.	pontal plante of
28.	Jurisdiction: All questions, disputes or difference arising under, out of, or in connection with contracts shall be subjected to the exclusive jurisdiction of the Courts at Kolkata, India.	
29.	Packing Material should be eco-friendly.	urala - y .
30.	Supplier should follow the statutory requirements of products offered.	absorption .
31.	After submission of tender, no unsolicited correspondence will be entertained	no M
32.	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.	can can cando cando
33.	In any case of the above conditions is not acceptable to the tenderer, it should be specifically indicated in the tender failing which it will be presumed that all the terms and conditions are acceptable.	(2000) (2003) (2004)
34.	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.	181111111

Specify Yes / No in the compliance column with remarks, if applicable

n	nemorandum dt 23.7.2020 Order Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020, Order no 3 dt 24.7.2020 and amendments issued by GOI time to time.
A	Requirement of registration
1	Any bidder from a country which shares a land border with India will be eligible to bid inthis tender only if the bidder is registered with competent authority as per C below. Inworks contracts, including turkey contracts, contractors shall not be allowed to subcontract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
2	Wordings of certificate to be submitted along with tender documents
Zal	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable)
2	Wordings of certificate to be submitted along with tender documents for Works Involving possibility of subcontracting
	I have read the clause regarding restrictions on procurement from a bidder of a Country which shares a land border with India and on subcontracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not sub contract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
В	Validity of registration
1	Registration should be valid at the time of submission of bids and at the time of Acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder is validly registered at the time of acceptance /order placement, registration shall not be a relevant consideration during contract execution.
	फारवाह है

1	The competent authority for the purpose of registration under the order shall be Registration committee constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). Details of the committee and procedure for registration and restrictions shall be as per Ann I of the Order – Public Procurement no 1 dt 23.7.2020 issued by Ministry of Finance, department of Expenditure.
D	Definition of Bidder and Bidder from a country sharing land border with India
1	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated here in before, including any agency, branch or office controlled by such person, participating in a procurement process.
	"Bidder from a country which shares a land border with India "for the purpose of this Order means:
Constant Second	 a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or
2	f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
(a) (46-y)	Type of business entity
3	(Private Limited Company / Public Limited Company / Sole Proprietorship / One Person Company / Partnership / Limited Liability Partnership / Joint Venture / Trust/ NGO) In case of incorporated entity—to attach certificate of incorporation
ballyni g sama g er sens Haw sy	Beneficial Owners –as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019–PPD dated 23 rd July, 2020.Details of all beneficial owners having entitlement of more than 01% of shares or Capital or profit to be given, in the format as given in Annexure–I duly certified by Practicing Chartered Account in India.

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	Tender condition- Preference to Make in India
A	Purchase preference in accordance with Public procurement (Preference to Make in India Order – 2017) Order from Department of Promotion of Industry and Internal Trade P-45021/2/2017/-B.E-IIdt,4.6.2020 and as amended from time to time shall be applicable as per below
1	In the procurement of all goods/services/works in respect of which there is sufficient local capacity /local competition, only Class I Local suppliers shall be eligible to bid irrespective of purchase value
2	In the procurement of all goods/services /works which are not covered as above and with estimated value of purchase less than Rs 200.0 Crores, only Class I local Suppliers along with Class II local suppliers shall be eligible to bid.
	Purchase preferences for Class I local suppliers
В	In the procurement of goods/works covered under 2 above and which are divisible in nature, Class I local supplier shall be eligible for Purchase preference over Class II / Non local supplier as per following
1	If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1bidder.
moq	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to matchL1 price, procedure same as para 3 above will be opted. In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference
С	Local content requirement to categories a supplier as Class I/Class II/Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 i.e amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.
1	Class I–Local content equal to or greater than 50%
2	Class II—Local content greater than 20%, less than 50%
3	Non local—Local content less than 20%
D	Declaration of local content
1	Class I local supplier /Class II local supplier at the time of tender shall indicate % of local content and provide self-certification that offered item shall meet the local content requirement for Class I/Class II as applicable including details of locations at which local value addition is made.
	In case of procurement for a value in excess of Rs 10.0 Crores Class I/Class II local supplier is to provide a certificate from statutory auditor/cost auditor(for companies) /practicing cost accountant/

2	Chartered accountant (suppliers other than companies) indicating % of local content
	Verification of the Certificates issued by the bidder shall be carried out by HOOGHLY CSL on
\$-07	random basis. False declarations will attract actions as stipulated in the order referred, including other
3	actions as permissible by law.
	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0
4	lakhs
	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt
5	4.6.2020 and as amended from time to time shall apply.

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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. Special Instruction to Bidder (Annexure-4)
- v. Techno-Commercial Check List along with requisite documents (Annexure-5)
- vi. Vendor Details (Annexure-6)
- vii. NEFT Mandate Form (Annexure-7)
- viii. Deviation List (Annexure-8), if any.
- ix. Form of bank Guarantee towards SD (Annexure-9).
- x. Self-declaration by bidder (Annexure-10)
- xi. Declaration of Pending legal cases (Annexure-11)
- xii. Tender Declaration (Annexure-12)

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. <u>Modification or alteration of the price bid format attached is strictly prohibited. Otherwise Bid will be liable for rejection.</u>
- ii. <u>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.</u>
- **4.** While submitting the bid, bidders are requested to note that the e-mail ID starting with following words may probable be treated as spam, not always necessary-

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

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

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

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

For Hooghly Cochin Shipyard Limited

Annexure-5

	TECHNO-COMMERCIAL CH	IECK LI	IST	
SL.	DESCRIPTION	COMP	LIANCE	REMARKS
NO.	DESCRIFTION	YES	NO	REMARKS
1.	Delivery date confirmation to yards delivery schedule		705 7	
2.	Validity of offer – 90 Days from the date of Techno-Commercial Bid opening.	Digital is to		
3.	Payment Terms - confirm your offered mode of payment			
4.	The Prices offered should remain firm till the completion of delivery, in case the purchase order is placed with you.			ance known
5.	Have you quoted the rates for delivery at Hooghly Cochin Shipyard Ltd (Hooghly CSL), Satyen Bose Road, Danesh Sk. Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109 (FOR Hooghly CSL Store basis)	on a duea Luce (73) a aean an aga	nemine zar Mengen od Alasona z	
7.	Have you considered Taxes, duties, levies, packing & forwarding etc., if any, in the offer?	7 11/6 16	d of time	ije spolitici i je
8.	L.D. payable as per relevant Clause in the General terms of enquiry.		y water	Mile out
9.	Disputes in connection with contract subject to jurisdiction of courts at Kolkata India.	Harana P	n 231020.04	d una apatracens A
10.	PAN & GST (Self Attested)			
11.	Termination of contract/Risk purchase as per relevant clause in the General terms of enquiry.			
12.	Supplier Should furnish Certificates from competent authority for line ofitems[Refer Technical Specification]			
13.	Confirm all other terms and conditions of enquiry are acceptable.			

VENDOR DETAILS (to be submitted along with TECHNICAL BID)

1	Name of Bidder/Firm	ETS ES EPHOL
2	Registered office Address of Company/firm	
	in Kolkata/Howrah:	always and the
	Local office address at Kolkata/Howrah (if	Control of the state of the sta
	held):	
3	Telephone No./Fax No./Mobile No:	
4	E-mail address:	Something of the second of
5	Names of the contact person & Designation:	1) epail religion
		20 The the wall consultable - a line of the con-
		2)
		3)
6	Type of Entity-Pro praetorship/Partnership	3)
	firm/company/NSIC/MSME Category etc.	
	(Please attach registration certificate of	
	Firm/Partnership agreement/proprietorship	
	documents)	
7	Cost of Tender Details (DD No. Name of	
	Bank)	And the state of t
8	EMD Details (DD No. Name of Bank)	anektyja s
9	PAN Card Number	f Brainsh Location
	(Self-attested copy of PAN card has to be	Jok shorigateT Jargaid in
	Submitted)	John JOSE mall of
	GST Registration No.	and state and the
	(Self-attested copy has to be Submitted)	
10	Whether the agency has been blacklisted/de	Yes/No
	barred or given tender holiday or contract	(Please tick as applicable)
	terminated before expiry of the contract	If yes, please furnish details on a separate
	period by any govt. autonomous	sheet
	bodies/organizations where bidder has	
	provided services earlier due to deficiencies	
	in service or misconduct etc.	

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

P	ace:

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) 2)	Vendor Name Vendor Address with Phone No	
3) 4) 5)	Vendor Code Permanent Account No. (PAN) Particulars of Bank Account	Turness of the wingst person & legistration
3)	a. Name of the Bank	
	b. Name of the Branch	
	c. Branch Code d. NEFT Code of the Bank e. City Name f. Branch Location g. Branch Telephone No. h. Bank IFSC Code i. 9-Digit MICR Code (Where MICR is starting with for proper identification of city	"0". Please take the correct code from your bank
6 7	i. Type of the Account (S.B Current or Cash Credit) with code (010/011/013) j. Account Number (as appearing on the cheque book) Email Address of Vendor 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)

	culars given above are correct and complete. If the cause of incomplete or incorrect information, we would le.
	Signature of Employee
Bank Certificate	
We certify that	has an Account
No are correct as per our records.	with us and we confirm that the details given above
Date:	
Place:	()
	Authorized official of Bank

COMI	PLIANCE STATEMENT- List of Deviation	as adding the second superior and the	PAGE 1 OF 1
	er Name: Procurement of Valve (Non-Country Unit, Howrah (Detailed specification)		ochin Shipyard Limited,
TEND	DER NO: HCSL/PUR/TEN/2025/100, Dated	1.01.11.2025	
compl	ereby confirm and truly declare that our Officiance with the documents issued against ions listed below:		
LIST	OF DEVIATIONS (Hooghly CSL reserve	es the right to reject offers wit	h deviations)
SI.	Description / Tender Reference	Reasons for I	Dovietion
No.	Description / Tender Reference	Reasons for 1	Peviation
1			veget9
Name	of tenderer:		
Date:	Na	me & Designation	Seal & Signature
			(Company Seal)

BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT/ WARRANTY GUARANTEE

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

WHEREAS					(Name	& A	Address	of Su	ipplier)
			Supplier")						
Contract	• • • • • • • • • • • • •		No		Date	d:			to
execute			(Name of Co	ntract an	d brief de	scriptio	n of w	orks)(here	einafter
called" the Co	ontract").								
AND WHER	EAS it ha	s been	stipulated by	HOOG	HLYCOC	HIN S	HIPYAI	RD LTD	(The
Buyer - here	inafter cal	led "H	OOGHLY C	SL") in t	the said co	ontract	that the	Supplier	shall
furnish HOO	GHLY CS	Lwith	a Bank Guara	intee for	the sum sp	ecified	therein	as securi	ty for
compliance w	ith the Sup	plier's	obligations in a	accordanc	e with the	Contrac	et.		
AND WHERI	EAS we har	ve agre	ed to give the	Supplier s	such a Banl	Guara	ntee.		
NOWTHERE	FORE w	e	(Nam	e of t	the Bank) havi	ng its	Head	Office
at	(Addres	s of Head	Office)a	and acting	g thro	ugh its	branch	office
at	(Ad	ddress	of the executi	ng branc	h)(hereinaf	ter call	ed" the	Bank")	hereby
affirm that we	e are the G	uaranto	r and responsi	ble to HO	OOGHLY	CSL,	on behal	f of the S	upplier
			(amoun						
We, the bank	, hereby ir	revocab	oly undertake t	to pay yo	u any amo	unt not	exceed	ing in tot	al the
Guarantee An	nount upon	receipt	t by us of your	demand	in writing	accomp	oanied b	y the follo	owing
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. Weareliabletopaytheguaranteedamountoranypartthereofunderthisbankguaranteeonlyand 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:

Date:....

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

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

Bid's Reference No.	& Date:		
Bidder's Name & Ad	dress:		
Person to be contacted	d:		
Designation:			
Telephone No.:	Fax No.:	Email:	
	lare that we have not bee ertaking or Government d	en debarred/black listed by Hooghly CSL or by any of epartment etc.	the
Undertaking or Go contract at any po guarantee etc will	overnment department, an int of time. In such case	een blacklisted/ debarred by any of the Public Second then Hooghly CSL can reject the offer or terminate, we are aware that, EMD, security deposit, performant CSL. Further we are confirming herewith that, any loss till be compensated by us.	the nce
For and on behalf of t	he firm		
(Firms Name & Addr	ess)		
(Signature of Authori Name:	zed Signatory)		
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
			THE TOWN		
				o sair sacioni comi sumissi	
	all the ball yet the real	alpha bissississelse i	est wad are a	gat short le	
	20	, and some not of	l pw sintrei seb (1	The diagonals of	Losogons
				enut ad/form	Laded no s

SIGNATURE OF BIDDER

TENDER DECLARATION

This is to certify that I have completely read and understood the tender enquiry / number
and we/I, M/s,
hereby declare that will abide by all the tender conditions. Deviations, if any in the techno-
commercial offer from that of the tender enquiry and subsequent corrigendum in any form will be
clearly furnished by us in a separate document which will be titled as "List of Deviations".
If we are not providing any separate document titled as "List of Deviations" then it is to be
considered that all the terms and conditions are acceptable to us.
Signature of Supplier/Authorized signature of firm/agency:
Name of Supplier or authorized signatory of firm/agency:
Designation:

Rev. No.	Pages	Description	Date	Sign.
0	07	FIRST ISSUE	26-08-2025	Karthik K
1	07	Amended for specification and quantity	25-10-2025	Rakesh Sagar
2	08	Sec. 12 numbering and Size of valve no 2 mentioned now.	01-11-2025	Rakesh Sagar
		stor withous notific temperary as plant w		

	-
1	
-	

HOOGHLY COCHIN SHIPYARD LIMITED HOWRAH – 711 109

OWNER JAK MARITIME &		PROJECT: 2200MT MULTIPURPOSE VESSEL												
		the similarn bytrauc maperium of the value maperium of the value												
APPROVI	ED ARAVIND DOSS		PURCHASE TECHNICAL SPECIFICATION FOR VALVES											
CHECKE	D	RAKESH SAGAR												
PREPARI	ED	KARTHIK K	A NOW CLASS VALUE TWEE											
DATE		26-08-2025	SC	ALE: -	NA	Doc.	No.:	PTS-0	04240	004-00	06			
OT OS	DEP	re presci and septell	1825TH	- cyles	/ Ton	n be	5 93	eloit ned	tail-r	i bo	grań			
ISSUED	NO.					ką go	itos	TY (SV	erios	93.56	iang			

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

SECTION A - GENERAL SPECIFICATION

1. SCOPE OF SUPPLY:

1.1 This document indents for the supply of Valves.

2. QUANTITY:

2.1 As per the Quantity Table in Annexure-1. The quantity may increase/decrease slightly based on the drawing approval & amendment.

3. CONDITIONS OF SUPPLY:

- 3.1 The offer should be complete with all relevant details such as detailed technical specifications, material specifications, overall dimensions, storage/ preservation details etc.
- 3.2 All valves should be suitable for marine applications. The material of construction of valves should be suitable for fluid handled and as per class requirements. The body material of valves is mentioned in Annexure-1_ A and Annexure-1_B.
- 3.3 All flanged valves should have flanges at both ends of standard as per EN1092-1 Type 01 Flat Face. In case of any deviation with this standard, the same should be indicated in the offer.
- 3.4 All threaded valves should be as per ISO standard. In case of any deviation with this standard, the same should be indicated in the offer.
- 3.5 The minimum hydraulic inspection of the valves shall be based on the PN rating mentioned.

4. NON-CLASS VALVES TYPE

A) Relief Valve

Angled body metal seated relief valve. Pressure preset and sealed, fitted with manual relief handle. Flat face flanges at ends. Refer Annexure -1_A for the pressure relief valve setting pressure.

Part	Cast Iron Valves					
Body & Bonnet	Nodular Cast Iron					
Disc & Seat Ring	Stainless Steel					
Stem	Stainless Steel					
Spring	Stainless Steel					
Lifting lever	Aluminium					

B) Globe Valves

Marine screw down screw lift (S.D.S.L) globe valves shall be supplied. The valve shall have flanged ends, bolted yoke type/Union bonnet, outside screw, rising stem, open and shut indicator, renewable seat ring, guided valve disc and back seat arrangement.

Globe valve with Spring operator and Globe valve with weighted close are to be as per the marine standards and requirements.

For Non-Return Globe valves, Screw Down Non-Return (SDNR) globe regulation valve shall be used. The material of internals shall be as follows:

Part	Cast Iron Valves	Cast Steel Valves
Body & Bonnet	Nodular Cast Iron	Forged Steel (DN15 – DN40)
		Cast Steel (DN50& above)
Disc & Seat Ring	Forged Steel	Stainless Steel
Stem	Stainless Steel	Stainless Steel
Gland Packing & Gasket	Graphite	Graphite
Hand Wheel	Nodular cast iron	Nodular cast iron

C) Pressure relief Valve

Angled body metal seated relief valve. Pressure preset and sealed, fitted with manual relief handle. Flat face flanges at ends. Refer Annexure -1_A for the pressure relief valve setting pressure.

Part	Cast Iron Valves					
Body & Bonnet	Nodular Cast Iron					
Disc & Seat Ring	Stainless Steel					
Stem	Stainless Steel					
Spring	Stainless Steel					
Lifting lever	Aluminium					



D) Ball Valves:

Full-bore, two-way ball valves of design having anti blow out stem with ends as mentioned in Annexure-1 shall be supplied. The material of internals shall be as follows.

Part	Cast Iron Valves	Cast Steel Valves	Stainless Steel Valves
Body	Nodular Cast Iron	Cast Steel	SS316
Ball	SS316	SS316	SS316
Stem	SS316	SS316	SS316
Seat	PTFE	PTFE	PTFE
Lever	SS304	SS304	SS304
	(GAVICE)	mort teas not.	ingil - i ingi

E) Check Valves:

i. Dual plate Check Valve:

Wafer type with mounting loops, spring tensioned dual check valvewith rubber lined body and suitable for fitting between EN1092-1 Type 01 Flat Face flanges.

ii. Swing Check Valve (Short type):

Straight type Full bore bolted bonnet swingcheck valves short type to be supplied. The material of internals shall be as follows.

Part	Cast Iron Valves	Cast Steel Valves			
Body& Bonnet	Nodular Cast Iron	Cast Steel			
Seat	SS304	Bronze			
Disc	Nodular Cast Iron	Cast Steel			
Hinge Arm	Nodular Cast Iron	Cast Steel			

5. The test pressure of valves shall be as follows.

Item	PN6	PN10	PN16	PN20
Seat	6.6kg/cm"	11 kg/cm"	17.6 kg/cm"	27.5 kg/cm"
Body	9.0 kg/cm"	15 kg/cm"	24.0 kg/cm"	37.5 kg/cm"

- **6.** The face to face and centre to face dimensions of valves shall be followed as per EN558 standard. FTF provided in list, In case of any deviation with this standard shall be mentioned in the technical offer.
- **7.** All Valve testing shall comply to EN12266-1 Standard. In case of any deviation with this standard shall be mentioned in the technical offer.
- 8. The manufacturer's test certificate to be provided for each consignment of material. All items shall be inspected by Hooghly Cochin Shipyard's representative, or a third party authorized by Hooghly Cochin shipyard Limited.
- **9.** In case of any deviation with these conditions of supply, the same should be clearly indicated in the offer.

10. Guarantee

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

11. Environmental Conditions

The supplied valves should be designed for use in ambient conditions as mentioned below:

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

Engine Room temperature : 50° C

List, rolling, trim and pitch according to limits as per Class

12. Supply of Documents

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

12.1 Documents to be submitted along with offer

- a. Preliminary dimensional drawing of valves along with valve model number (if any), test pressure, material of body and internal items etc.
- b. Technical datasheet / Valve catalogue

- 12.2 <u>Documents to be submitted within 07 working days after placement of Order/LOI/As per final agreement.</u>
- a. Final dimensional drawing of valves indicating Open and Closed Position
- b. Valve model number (if any), test pressure, material of body and internal items etc.
- c. 'K' factor / Pressure drop across the valve
- d. Technical datasheet / Valve catalogue

Original plus 3 copies of material/chemical composition and mechanical test certificate shall be furnished at the time of supply of the item. For Class approved Valves, the class certification should be submitted.

13. General Remarks

a) Tally Plate

Identification markings/ tally plate to be provided showing the type of valve, material, nominal bore, pressure rating, test pressure and manufacturing process as applicable and as per manufacturer's standard. The details should be clearly visible and indicated in English and in SI unit.

HCSL will advise the identification marking/tally plate description at later stage. Vendor to request HCSL for details before valve manufacturing starts.

b) <u>Preservation</u>

- i) Each valve shall be cleaned, prepared & suitably protected for dispatch in such a way so as to prevent ingress of moisture and contamination during transportation & storage.
- ii) The machined surface of fittings is to be suitably protected against mechanical damage during shipment & storage.

14. Compliance

The vendor should comply all the points mentioned in this document. Deviations from the Technical specification shall be specifically indicated.

ANNEXURE 1 Non-Class Valves

Sr. No	Туре	Size (NB)	Pr. Rating	Class	End Connection	System	Fluid	Body Material	Qty	FTF	Remarks
1	SDSL VALVE (SV 1.1,1.2)	80	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	2	310	Globe Valve
2	SDSL VALVE (SV 3.1,3.2,3.3)	65	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	3	290	Globe Valve
3	SDSL VALVE (GV 1.1)	15	PN6	III	Flange	Domestic Fresh Water	Fresh Water	Nodular Cast Iron	3	130	Globe Valve
4	SDNR VALVE (4.1)	40	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	1	200	
5	RELIEF VALVE (1.1) (Set value 7.5 bar)	40	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	1	-	
6	RELIEF VALVE (2.1) (Set value 7.5 bar)	65	PN 10	III	Flange	Fire Main System	Bilge Water/ Sea Water	Nodular Cast Iron	1	-	
7	PRESSURE RELIEF VALVE(lov2.1-2.5)	10	PN 6	III	Threaded	Lube Oil System	Lube Oil	Nodular Cast Iron	5	-	
8	BALL VALVE (7)	25	PN 10	III	Threaded	EXHAUST SYSTEM	Air	Nodular Cast Iron	2	-	
9	BALL VALVE (LOV3.1 and 01 no FO System)	25	PN 10	III	Flange	LUBE OIL SYSTEM/FUEL OIL SYSTEM	Lub Oil/Fuel Oil	Nodular Cast Iron	2	125	
10	BALL VALVE (LOV 4.1-4.5)	10	PN 10	III	Flange	LUBE OIL SYSTEM	Lub Oil	Nodular Cast Iron	5	115	
11	BALL VALVE (CA 8.1 -8.6)	15	PN 10	III	Flange	COMPRESSED AIR SYSTEM	Compressed Air	Nodular Cast Iron	6		
12	Check Valve	15	PN10	III	Flange	Fuel Oil System	Fuel Oil	Nodular Cast Iron	2		
13	Check Valve	10	PN10	III	Threaded	Fuel Oil System	Fuel Oil	Nodular Cast Iron	2		
14	Check Valve	25	PN10	III	Flange	Fuel Oil System	Fuel Oil	Nodular Cast Iron	1	1617	(Stadis