



**TENDER DOCUMENT FOR FOREIGN PURCHASE
DOCKYARD & ENGINEERING WORKS LTD**

BANGLADESH NAVY

SONAKANDA, BANDAR, NARAYANGANJ

Web: www.dewbn.gov.bd, E-mail- commercial@dewbn.gov.bd

Price of tender document Tk. 1000.00 (Taka One Thousand only) (Non-refundable)

TENDER DOCUMENTS FOR SUPPLY OF FITTINGS MATERIALS (SERIAL NO: 1-88), LOT: 03

TENDER ENQUIRY NO- 06.02.6758.165.07.193.25.2196 DATE 13 APRIL 2025

DUE FOR OPENING ON: 07 MAY 2025; AT TIME: 12:30 PM





DOCKYARD & ENGINEERING WORKS LTD
BANGLADESH NAVY
SONAKANDA, BANDAR, NARAYANGANJ
Phone: 02-7661480, Fax: 02-7661027
E-mail- commercial@dewltd.gov.bd

IMPORTANT POINTS

1. **TENDER NO:** 06.02.6758.165.07.193.25.2196 Dated 15 April 2025.
2. **DUE FOR OPENING ON:** 07 May 2025; AT Time: 12.30 PM.
3. **PRICE OF TENDER DOCUMENTS:** TK 1,000.00 (Taka One Thousand only) non-refundable.
4. **EARNEST MONEY:** 1% (one) of the total quoted total value, either in Bangladesh currency or equivalent US\$/ EURO/ GBP etc., favoring Dockyard & Engineering Works Ltd. in the form of Bank Draft/ Pay Order/ Bank Guarantee.
5. **NAME OF THE COMMODITY:** Fittings Materials (Items Serial No: 1-88), Lot: 03
6. **SOURCE OF FINANCE:** Cash.
7. **TERMS OF SUPPLY:** CFR Chattogram / CPT Hazrat Shahjalal International Airport, Dhaka Bangladesh.
8. **Price:**
 - a) Materials and freight should be shown separately.
 - b) Freight should be shown/ endorsed on bill of lading.
 - c) Freight will be paid at actual against Bill of lading but not exceeding the amount shown in quotation/ offer.
9. **DELIVERY/ SHIPMENT:** 45 (Forty five) days after receiving Irrevocable Letter of Credit (ILOC).
10. **TENDER SHOULD REMAIN VALID:** 60 (Sixty) days from the date of opening.
11. **THE TENDER DOCUMENTS MUST BE WITH SEAL AND SIGN THEREOF ON EACH PAGE:**

The Dockyard & Engineering Works Ltd, BN, Narayanganj invites quotation in duplicate (Marked as "Original" and " Duplicate") from Manufactures/ Principal Suppliers for Supply of the item(s) described in the attached sheet schedule (Annex-B) on firm CFR Chattogram/ Hazrat Shahjalal International Airport, Bangladesh. Quotations will be received by this office up to **12:15 A.M.** and will be Opened **12:30 AM** in Public on the date specified above.

12. **AMENDMENTS TO TENDER DOCUMENTS:**
 - a. At any time prior to deadline for submission of bids the purchaser may, for any reason, whether of its own initiative or in response to a clarification requested by a prospective bidder, modify the tender documents by the amendment(s).
 - b. The amendment(s) will be notified in writing by letter/email or by cable to all prospective bidders who have purchased tender documents and the same will be binding on them.
 - c. In order to allow the prospective bidders reasonable time to take the amendment into account in preparing their bids, the purchaser may at its sole discretion extend the deadline for submission of bids.

PREPARATION AND SUBMISSION OF QUOTATION

13. **GENERAL :**
 - a. Offers are to be dropped in the tender box provided for the purpose at the office of DOCKYARD & ENGINEERING WORKS LTD, BNGLADESH NAVY, NARAYANGANJ



b. Tender number and opening date as above should be written on the envelope. The envelope containing quotation should be sealed and addressed as follows:

THE MANAGING DIRECTOR
DOCKYARD & ENGINEERING WORKS LTD
BANGLADESH NAVY
SONAKANDA, BANDOR
NARAYANGANJ, BANGLADESH

Tender number opening date as above should be written on the envelope.

c. Tender may be put into the Tender Box kept for this purpose at the above address, but care must be taken to ensure that it reaches this office on the date and time fixed. Late tenders will not be considered. Suppliers may also post the tender to THE MANAGING DIRECTOR, DOCKYARD & ENGINEERING WORKS LTD, BANGLADESH NAVY, SONAKANDA, BANDOR, NARAYANGANJ, BANGLADESH, so, as to reach him on due date and time. No responsibility will be accepted by buyer for late receipt.

d. The Manufacturers/ Principal Suppliers may quote in their own letter head, but it is essential that the tender schedule is also completed and returned, along with original money receipt to the buyer. If the schedule is not accordingly returned the quotation may not be considered.

e. Tenderers may quote price Bangladesh Taka/ US Dollar/ in any International trading currency.

f. Tenderers may quote price for Package or item Wise.

g. Tenders should enclose with the quotation the original proforma Invoice of their principal and the proforma should be based on FIRM CFR PRICE.

h. Quotation should be strictly in accordance with the following:

- (1) Accounting unit prescribed in the tender enquiry.
- (2) Terms of delivery and place of delivery as specified in the tender enquiry.

j. The name of the Manufacturers/ Principal suppliers and country/ countries of origin with port of shipment proposed should invariably be indicated.

k. Tenderers must submit the original proforma Invoice of their principals with the quotation and the proforma Invoice shall clearly indicate detail technical specification, the percentage of commission (if any) included in FOB price for the local agent. Commission is payable to the local agent by the foreign supplier. **Buyers will not pay any extra Commission or otherwise to the local Agent.**

l. No claims on the ground of typographical errors in calculating prices would be entertained later and the tendering firms would be asked under points of penalty and disciplinary action to supply at price they have originally quoted.

m. Indenting agent should also submit along with the tender valid registration certificate issued by the CCI & E and Bangladesh bank permission. In absence of original certificate photo state copy may serve.

n. Tenderers should quote the price as per schedule given in Annex A to this document.

p. Tenderers should submit a certificate along with the offer to the effect that they have gone through the instructions and terms and conditions stipulated in the tender documents and have accepted them into. **As a token of such acceptance each page of this tender documents must be signed by the supplier with their SEAL.** If the tender documents are not received accordingly, the quotation may not be considered. In case of disagreement on any point this must be stated clearly in a separate sheet. Tenderers must give full and detailed specification of the items they like to offer. Expressing like as per your specifications should be avoided and will be treated as disqualification.

14. CONTRACT:

The terms and conditions of the tender document shall form an integral part of the contract/ purchase order document. The tenderer is requested to check this set of tender documents in order to ensure proper



compliance and the "Form of Acknowledgement" along with the "Certificate as to **Corporate Principal**" Where applicable, duly filed in be returned along with **tender**.

15. **BID LANGUAGE**

The bid's, all correspondences and documents relating thereto exchanged between the bidders and the purchaser shall be written in English Language.

16. **TERMS OF PAYMENT:**

Necessary LC is to be opened in favour of the principal supplier but payment will be made as per following terms:

- a. 80% of total Letter of Credit (LC) value is to be paid on production of necessary shipping documents.
- b. Remaining 20% of Letter of Credit (LC) value will be paid after received material receiving report from our main Store.
- c. Following documents are to be provided for payment:
 - (1) Complete set of original 'Clean on Board' Bill of lading /mentioning the amount of freight on Bill of Lading.
 - (2) Supplier's invoice signed in ink,
 - (3) Supplier's Packing list signed in ink,
 - (4) Authorized inspection agent's certificate (If required)
 - (5) Manufacturer Certificate
 - (6) Fax/E-mail/Swift advice for insurance cover,
 - (7) Country of origin Certificate
 - (8) Certificate showing that the material has been shipped in a non-Israil vessel,
 - (9) Undertaking regarding supply/re-placement of short supplied and defective materials on free of cost demanded by the buyer.
- d. Bank charges in Bangladesh for opening of LC shall be borne by the buyer. Any Bank Charge for revalidation or amendment of the LC on the request of the supplier shall be exclusively borne by the beneficiaries and not by the DOCKYARD & ENGINEERING WORKS LTD. confirmation of letter of credit by foreign bank will not be entertained.
- e. Bank charge for withdrawal against LC established by buyer will be borne by the beneficiary.
- f. The beneficiary will have to borne the following foreign bank charge:-
 - (1) Negotiation commission.
 - (2) Payment Commission.
 - (3) Postage and Cable charges.
 - (4) LC confirmation charges/ additional (ADD) confirmation charges.
 - (5) LC amendment commission/LC extension commission.
 - (6) LC Cancellation charges.

17. **PACKING AND MARKING:**

- a. The Seller shall be responsible for proper packing and marking the goods for shipment by rail, road and sea. Goods shall be assembled to the maximum extent practical prior to shipment. Goods shall be packed so as to withstand usually rough handling and ensure delivery without loss or damage.
- b. Each Bundle must have the following information printed in **BOLD LETTERS** on the outside.
 - (1) Name of the consignee and Destination,
 - (2) Letter of credit number,
 - (3) Gross and net weight,
 - (4) Serial number of Bundle and,
 - (5) Name and address of seller,



18. **QUANTITY:**

- a. Check of quality, quantity and condition of goods at the discharging port i.e, Chattogram/ Hazrat Shahjalal International Airport will be carried out by the buyer at their cost.
- b. The quotation must be based on firm prices for package. Average prices should not be quoted.
- c. Descriptive catalogue/ literature duly stamped should be furnished along with the Quotation.
- d. The approximate weight of each Bundle should be shown separately on quotation.
- e. The DOCKYARD & ENGINEERING WORKS LTD, reserves the right of awarding contracts for individual technically acceptable items on the lowest acceptable prices. Firms quoting on an average basis for joint items do so at their own risk. DOCKYARD AND ENGINEERING WORKS LTD, will not make any allowances for this action of the tendering firms when awarding contracts for individual items which if and when refused by tendering firms any lead to disciplinary action.

SPECIALLY CLAUSES:

19. **INSPECTION:** The buyer reserves the right to have the stores inspected before shipment by any agency of their choice. In that case inspection charges will be borne by the buyer. The name of the Inspector will be intimated at the time of placement of purchase order. The supplier will be liable to pay any expenses of rejected stores and also for such inspection, which will become payable to the inspector due to multiple intervention/ visits and or fruitless visits at the call of and to suit the convenience of the supplier. The Inspector should be provided with all facilities to carry out their job smoothly and without interference. The provision laid down above does not restrain the buyer, from a detailed inspection of quality and quantity of the cargo on arrival of the same at the port of discharge.

20. **INSURANCE:** Insurance of the consignment after shipment to destination port/ place (up to the buyers premises) will be arranged by buyer. Quotation should, therefore, be exclusive of the insurance charges.

21. **LATE DELIVERY AND LIQUIDATED DAMAGES:** Liquidity damage equivalent to half percent per week or part thereof on the value of the undelivered goods may be realized from the supplier/ contractor.

In specific case where delay in delivery is likely to cause dislocation of work and financial loss, a higher rate of liquidity damage, not over one percents per week or part thereof on the value of the undelivered goods may be charged.

In case of delay in delivery beyond one hundred days for importable item(s), purchase order/ contract may be cancelled in which case the performance guarantee shall be forfeited. On genuine reasons/ grounds beyond the control of the suppliers/contractor, extension of delivery period may, however, be granted by the purchase approving authority without realization of any liquidated damage provided validity of their performance guarantee cover such extension.

22. **GENUINENESS OF THE PRINCIPAL SUPPLIERS:**

The Principal supplier shall have to submit a certificate from the supplier's bankers regarding the bonafide and standing of the supplier.

AND/OR

Certificate from the chamber of Commerce and Industry from the supplier's country regarding its standing as an exporter/manufacturer along with the proforma invoice.

23. **QUALITY CERTIFICATE:** Tenderers should furnish guarantee from the original Manufacturers/ Suppliers/ Sole Agent to the effect that the goods will be of exact specification as laid down in the tender and in the event of placing order with the tenderers the Manufacturers/ Suppliers or their Sole agents will supply materials to them (Tenderers) for supply of the same against their tender. Tenderers for all purposes shall be responsible for the acts of omission and commission of their principal.

24. **EARNEST MONEY:** All bidders must submit earnest money for an amount equivalent to 01% (one percent) of the actual quoted CFR value of the stores either by Bangladesh currency or equivalent to any International Trading currencies favoring the Dockyard & Engineering Works Ltd, in bank draft/pay order /bank guarantee/ which will be issued by any scheduled bank of Bangladesh (Not applicable to enlisted suppliers). In case bank guarantee is submitted, the same should remain valid for 60 days from the date of opening of the tender. Neither any inland cheque for a cheque/ guarantee issue by bank of foreign countries will be entertained. Earnest money is liable to forfeiture if



the bidder for any reason whatsoever withdraws or modifies its offer or violets the terms after opening of the tender and before expiry of the validity of the offer, or fails to furnish the required performance bond with in the stipulated time after issuance of letter of intent. Bid bond/ earnest money of unsuccessful tenderer would be returned once a decision of the tender is made. A tender not accompanied by earnest money/ bid bond would be rejected as non-responsive. Bid bond of the successful bidder shall be returned after furnishing performance bond. A specimen copy of bid bond is enclosed herewith as annex-C.

25. **PERFORMANCE BOND:** The successful tenderer will be required to furnish performance bond to the extent 05% of the total CFR value either in the form of pay order/ bank draft/ bank guarantee for the satisfactory execution of the order. The performance bond should be given by any Bangladesh Commercial Bank under their (Bank) full risk in liabilities. If the same is submitted by bank guarantee it must remain valid material receiving report (MRR) from our main Store. Performance bond must be furnished within 10(ten) days from the date of letter of intent. It will be liable for forfeiture if the supplier fails to supply the goods within the specified time or commits any breach of contract. A specimen copy of performance bond is enclosed herewith Annex-D.

26. **WARRANTY:** 18 (Eighteen) Months warranty from the date of acceptance is to be provided. Total 05% of contract price is to be cut as security money which will be paid after the end of warranty period or Bank Guarantee against the same amount is to be provided until the end of warranty period.

27. **INDEMNITY:** The supplier have to indemnify the buyer against all claims which may be made in respect of the stores for infringement of any right protected by patent, registration of design etc and shall take all risk of accident or damage which may cause failure of the supply from whatever cause arising and take entire responsibility for the sufficiency of the means used by the supplier for the fulfillment of the contract.

28. **INCREASE OR DECREASE IN QUANTITY OF CONTRACT:** The buyer reserves the right at the time of award of contract, with no adjustment in unit price (bid) to increase or decrease the quantity tendered. The buyer also reserves the right to accept or reject any or all the tenders or to waive any informality, minor deviation or omission.

Award would be made to the bidder whose responsive bid determined to be the lowest evaluated bid who meets specification and other terms and conditions of the tender document.

29. The buyer has the option to place orders either on CFR Chattogram/ CPT Hazrat Shahjalal International Airport Bangladesh.

30. Should the suppliers be adjudged insolvent, the buyer shall have the power to terminate the contract.

31. **DISQUALIFICATION OF OFFER :**

a. Telex/ E-mail/ Swift/ Fax offer may be considered provided signed copy of proforma invoice is received within 24 (twenty four) hours from the opening of the tender.

b. Any addition or alternator to the specification or rate quoted by a firm in the tender after not only be ignored but should also render the firms liable to disqualification.

c. Any tender received late and not strictly confirming to terms and conditions prescribed in the tender documents not accompanied with the requisite earnest money and the money receipt of tender price and registration certificate may be liable for rejection.

32. **SPECIFIC EXPERIENCE:** The principal supplier must have experience of supply of similar goods in Bangladesh and understand the Letter of Credit (LC) process of Bangladesh. The supplier must provide at least 2 letter of credit (LC) references of previous supply record to Bangladesh Buyer to prove its business relation and reliability in Bangladesh market.

33. **TAXES AND OTHER CHARGES:**

a. All duties, taxes and other charges levied on the goods by authorities in buyers country shall be borne by the buyer and shall not be included in the bid price.

b. Charges of such nature in seller's country or in any country other than the buyer country shall be borne by the seller's.



34. **BREACH OF CONTRACT:** On any breach of contract by the seller, the buyer may recover the actual loss suffered and the amount may be realized by encasing the performance guarantee.

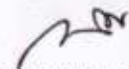
35. **UNDER TAKING:** The Manufacture/ Suppliers shall issue a certificate to be effect that they have shipped the goods strictly conforming to the quality and quantity stipulated in the purchase order and that they will replace defective materials and replenish the short supplied quantity free of charge on demand by the buyers. Such certificate shall form and integral part of the original shipping documents required to be submitted to the bank for drawing of payment against letter of credit by the supplier.

36. **APPLICABLE LAW:** The purchase order shall be interpreted in accordance with the law of the buyer's country.

37. **FORCE MAJEURE:** Should any circumstance arise preventing either of the contracting parties from wholly or partly carrying its obligation under the present contract, namely natural calamities, Strikes, Riots, fire, acts of God, war, Military operation of any Nature, blockades any unforeseen event which is beyond human control, the period stipulated for the performance of this contract shall be extended for as long as the circumstances prevail. Provided that in the even of these circumstances continuing for more than 30(thirty) days, either party shall have the right to refuse to fulfill its obligation under these contract and in such case neither party shall be entitled to indemnification of any loss it may sustain. The party unable to carry out its obligation under this contract shall immediately advise the other party of the commencement and the termination of the circumstances preventing the performance of the contract. A certificate issued by the Chamber of Commerce of the sellers of the buyer's country shall be sufficient proof of the existence and duration of such circumstances.

38. **ARBITRATION:** In the event any dispute or difference arising out of the terms and conditions as specified above, the same shall be referred to the award of a sole Arbitrator appointed by the parties on mutual agreement, failing which it shall be referred to the award of the two arbitrators, from each side (buyer and seller) or in the case of disagreement between the two arbitrators to the award of an umpire to be appointed by the two arbitrators in writing before proceeding on the reference of the decision of the sole arbitrator or of two Arbitrators in the writing before proceeding on the reference of the decision of the sole arbitrator or of two arbitrator or the umpire as the case may be shall final, conclusive and binding upon the parties. The provisions of the arbitration Act 2001 and rules there under and any statutory modification thereof shall deem to apply to the said arbitration. The place of arbitration shall be Dhaka, Bangladesh any statutory modification enactment thereof for the time being in force in Bangladesh shall apply to the arbitration proceeding. The above terms and conditions are not absolute, the Dockyard & Engineering works Ltd, Bangladesh Navy, reserves the right to incorporate additional terms and condition, if necessary. The Dockyard Engineering & works Ltd, BN also is not bound to accept the lowest tender and reserves the right to reject any or all tenders without assigning any reason whatsoever.

Yours faithfully


MOSTOFA KAMAL
Commander BN
For Managing Director

Enclosures:

- | | | |
|----|---|------------|
| A. | Format of price Schedule (Annex – A) | - 23 pages |
| B. | Technical Specification (Annex-B) | - 32 Pages |
| C. | Format of Bank Guarantee in Lieu of Earnest money (Annex-C) | - 01 page |
| D. | Format of performance Bank guarantee (Annex-D) | - 01 page |

Dockyard & Engineering Works Ltd

Bangladesh Navy

Sonakanda, Bandar, Narayanganj

SCHEDULE TO TENDER NO: 06.02.6758.165.07.193.25.2196 DATE 13 APRIL 2025 DUE FOR RETURN BY 07 MAY 2025 AT 12.15 HOURS

Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
1	Flanged Type Air Pipe Head with Floating Ball & Flame Arrester Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	05		
2	Flanged Type Air Pipe Head with Floating Ball & Flame Arrester Size/ Dimension: DN125 Materials: Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	05		
3	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	15		
4	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN100 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	15		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
5	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN125 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	20		
6	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN150 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	10		
7	Flanged Type Air Pipe Head with Flame Arrester Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	05		
8	Flanged Type Air Reducing Valve (7bar to 2bar) Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	05		
9	Flanged Type Angle Globe Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Fire System	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	(As per Technical Specification Annex B)				
10	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
11	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
12	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
13	Threaded Type Ball Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 System: MDO Transfer & Filling & Overflow System DIN Standard (As per Technical Specification Annex B)	Nos	15		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
14	Flanged Type Ball Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System (As per Technical Specification Annex B)	Nos	10		
15	Threaded Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	10		
16	Threaded Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	20		
17	Flanged Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
18	Flanged Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		
19	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN8 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	25		
20	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	05		
21	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	10		
22	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN80 Materials: GG25 DIN Standard	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	System: Ballast Water System (As per Technical Specification Annex B)				
23	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN100 Materials: GG25 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	05		
24	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GG25 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	30		
25	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GG25 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	30		
26	Manual Type Butterfly Valve Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
27	Manual Type Butterfly Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		
28	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	10		
29	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	20		
30	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN250 Materials: GG25 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
31	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
32	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	20		
33	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
34	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System (As per Technical Specification Annex B)	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
35	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN100 Materials: GG25 DIN Standard System: Sanitary Discharge System (As per Technical Specification Annex B)	Nos	05		
36	Flanged Type Gate Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		
37	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GGG40 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	05		
38	Flanged Type Gate Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	10		
39	Flanged Type Globe Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 DIN Standard	Nos	10		

Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)				
40	Flanged Type Globe Valve Pressure Rating: PN6 Size/ Dimension: DN20 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	05		
41	Threaded Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
42	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
43	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Oily Water & Sludge System	Nos	25		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	(As per Technical Specification Annex B)				
44	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	05		
45	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System (As per Technical Specification Annex B)	Nos	05		
46	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	05		
47	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	45		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
48	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	15		
49	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN80 Materials: GG25 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
50	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: Sanitary Discharge System (As per Technical Specification Annex B)	Nos	05		
51	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GGG40 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	05		
52	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GGG40	Nos	10		

Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	DIN Standard System: Compressed Air System (As per Technical Specification Annex B)				
53	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
54	Flanged Type Non-Return Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GG25 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	05		
55	Flanged Type Non-Return Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GG25 DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	05		
56	Flanged Type Non-Return Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
57	Flanged Type Pressure Regulator Valve (Set pressure 4bar) Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
58	Flanged Type Pressure Relief Valve (Set pressure 2.2bar) Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	05		
59	Threaded Type Quick Closing Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
60	Flanged Type Quick Closing Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
61	Flanged Type Quick Closing Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: Quick Closing Valve System (As per Technical Specification Annex B)	Nos	10		
62	Flanged Type Relief Valve (Set pressure 2.2bar) Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	05		
63	Flanged Type Relief Valve (Set pressure 4.4bar) Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		
64	Flanged Type Relief Valve (Set pressure 4.4bar) Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
65	Safety Valve (Set pressure 4.4bar) Pressure Rating: PN10 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	10		
66	Flanged Type Self-Closing Valve Pressure Rating: PN6 Size/ Dimension: DN20 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	10		
67	Flanged Type Self-Closing Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: Lube Oil System (As per Technical Specification Annex B)	Nos	05		
68	Threaded Type Solenoid Valve Pressure Rating: PN10 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Domestic Water System (As per Technical Specification Annex B)	Nos	10		
69	Flanged Type Stop Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	DIN Standard System: Oily Water & Sludge System (As per Technical Specification Annex B)				
70	Flanged Type Stop Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System (As per Technical Specification Annex B)	Nos	10		
71	Flanged Type Stop Valve Pressure Rating: PN16 Size/ Dimension: DN250 Materials: GGG40 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
72	Flanged Type Expansion Joint Pressure Rating: PN6 Size/ Dimension: DN125 Materials: Galvanized Steel DIN Standard System: Ballast Water System (As per Technical Specification Annex B)	Nos	25		
73	Flanged Type Expansion Joint Pressure Rating: PN10 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
74	Flanged Type Expansion Joint Pressure Rating: PN10 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
75	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN40 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
76	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
77	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
78	Flush Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System	Nos	40		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	(As per Technical Specification Annex B)				
79	Self-Closing Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	05		
80	Self-Closing Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System (As per Technical Specification Annex B)	Nos	10		
81	Flanged Type Mud Box Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Fire System (As per Technical Specification Annex B)	Nos	05		
82	Flanged Type Mud Box Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		
83	Strum Box Size/ Dimension: DN25 Materials: Galvanized Steel DIN Standard	Nos	10		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
	System: Oily Water & Sludge System (As per Technical Specification Annex B)				
84	Strum Box Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	15		
85	Flanged Type Y-Filter Pressure Rating: PN6 Size/ Dimension: DN40 Materials: Steel DIN Standard System: MDO Transfer & Filling & Overflow System (As per Technical Specification Annex B)	Nos	05		
86	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		
87	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System (As per Technical Specification Annex B)	Nos	05		



Ser	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
88	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN250 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System (As per Technical Specification Annex B)	Nos	05		

FOB including local agent commission as per manufacture/ principal/ supplier/ quotation/ proforma invoice Price					
Freight Cost					
CFR Chattogram / CPT Hazrat Shahjalal International Airport, Dhaka Bangladesh Total Price					

Inword:



TERMS OF CONDITIONS:

01	Name and Address of Manufacturer's	To be mentioned	
02	Name and Address of principal	To be mentioned.	
03	Name and Address of Local Agent	To be mentioned.	
04	Name of the Manufacturer & Authorization Certificate	To be mentioned.	
05	Country of Origin	To be mentioned.	
06	Country of Manufacturer	To be mentioned.	
07	Certification	Certificate to be provided as per Technical Specification.	
08	Offer validity	60 days from the date of opening	
09	Port of shipment	To be mentioned	
10	Part Shipment	Not allowed	
11	Transshipment	Allowed	
12	Shipment / Delivery	45 days after receiving LC.	
13	Original Proforma Invoice	To be provided	
14	Earnest Money	To be provided	



15	Payment	a. 80% of total Letter of Credit (LC) value is to be paid on production of necessary shipping documents. b. Remaining 20% of Letter of Credit (LC) value will be paid after received material receiving report from our main Store.	
16	All other terms and conditions as laid down in tender documents to be followed.		

Your quotation No:
the tendered:
Date:

Signature, name and address



TECHNICAL SPECIFICATION

SL No	Technical Description, Specification and standard required	UNIT	QTY	Specification offered by Bidder
1	Flanged Type Air Pipe Head with Floating Ball & Flame Arrester Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
2	Flanged Type Air Pipe Head with Floating Ball & Flame Arrester Size/ Dimension: DN125 Materials: Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
3	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	15	
4	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN100 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	15	
5	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN125 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	20	
6	Flanged Type Air Pipe Head with Floating Ball Size/ Dimension: DN150 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	10	



7	Flanged Type Air Pipe Head with Flame Arrester Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
8	Flanged Type Air Reducing Valve (7bar to 2bar) Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
9	Flanged Type Angle Globe Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
10	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	
11	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	
12	Flanged Type Angle Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	



13	Threaded Type Ball Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 System: MDO Transfer & Filling & Overflow System DIN Standard Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	15	
14	Flanged Type Ball Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
15	Threaded Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
16	Threaded Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	20	
17	Flanged Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
18	Flanged Type Ball Valve Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	



19	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN8 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	25	
20	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
21	Flanged Type Ball Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
22	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN80 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
23	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN100 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
24	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	30	



25	Manual Type Butterfly Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	30	
26	Manual Type Butterfly Valve Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
27	Manual Type Butterfly Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
28	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
29	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	20	
30	Manual Type Butterfly Valve Pressure Rating: PN16 Size/ Dimension: DN250 Materials: GG25 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	



31	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
32	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	20	
33	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
34	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
35	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN100 Materials: GG25 DIN Standard System: Sanitary Discharge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
36	Flanged Type Gate Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate	Nos	05	



	HS code no: To be mentioned			
37	Flanged Type Gate Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GGG40 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
38	Flanged Type Gate Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	10	
39	Flanged Type Globe Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
40	Flanged Type Globe Valve Pressure Rating: PN6 Size/ Dimension: DN20 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
41	Threaded Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
42	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned	Nos	10	



	Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned			
43	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Oily Water & Sludge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	25	
44	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
45	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Sanitary Discharge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
46	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
47	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	45	
48	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System; M/E & Generator Cooling Water System	Nos	15	



	Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned			
49	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN80 Materials: GG25 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
50	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: Sanitary Discharge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	
51	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GGG40 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	
52	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GGG40 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	10	
53	Flanged Type In-line Non-Return Stop Valve Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: BV Product Certificate HS code no: To be mentioned	Nos	05	
54	Flanged Type Non-Return Valve Pressure Rating: PN6 Size/ Dimension: DN125 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned	Nos	05	



	Certification: Manufacturer Certificate HS code no: To be mentioned			
55	Flanged Type Non-Return Valve Pressure Rating: PN6 Size/ Dimension: DN200 Materials: GG25 DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
56	Flanged Type Non-Return Valve Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
57	Flanged Type Pressure Regulator Valve (Set pressure 4bar) Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
58	Flanged Type Pressure Relief Valve (Set pressure 2.2bar) Pressure Rating: PN6 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
59	Threaded Type Quick Closing Valve Pressure Rating: PN6 Size/ Dimension: DN8 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
60	Flanged Type Quick Closing Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow	Nos	10	



	System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned			
61	Flanged Type Quick Closing Valve Pressure Rating: PN10 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: Quick Closing Valve System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
62	Flanged Type Relief Valve (Set pressure 2.2bar) Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
63	Flanged Type Relief Valve (Set pressure 4.4bar) Pressure Rating: PN10 Size/ Dimension: DN50 Materials: GG25 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
64	Flanged Type Relief Valve (Set pressure 4.4bar) Pressure Rating: PN16 Size/ Dimension: DN65 Materials: GG25 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
65	Safety Valve (Set pressure 4.4bar) Pressure Rating: PN10 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
66	Flanged Type Self-Closing Valve Pressure Rating: PN6 Size/ Dimension: DN20 Materials: GGG40 DIN Standard System: MDO Transfer & Filling & Overflow System	Nos	10	



	Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned			
67	Flanged Type Self-Closing Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GGG40 DIN Standard System: Lube Oil System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
68	Threaded Type Solenoid Valve Pressure Rating: PN10 Size/ Dimension: DN15 Materials: GG25 DIN Standard System: Domestic Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
69	Flanged Type Stop Valve Pressure Rating: PN6 Size/ Dimension: DN40 Materials: GG25 DIN Standard System: Oily Water & Sludge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
70	Flanged Type Stop Valve Pressure Rating: PN16 Size/ Dimension: DN25 Materials: GG25 DIN Standard System: Compressed Air System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
71	Flanged Type Stop Valve Pressure Rating: PN16 Size/ Dimension: DN250 Materials: GGG40 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
72	Flanged Type Expansion Joint Pressure Rating: PN6 Size/ Dimension: DN125 Materials: Galvanized Steel DIN Standard System: Ballast Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned	Nos	25	



	Certification: Type Approved Certificate HS code no: To be mentioned			
73	Flanged Type Expansion Joint Pressure Rating: PN10 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	10	
74	Flanged Type Expansion Joint Pressure Rating: PN10 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
75	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN40 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
76	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
77	Flanged Type Expansion Joint Pressure Rating: PN16 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
78	Flush Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	40	



79	Self-Closing Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
80	Self-Closing Type Threaded Sounding Pipe Head Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Air Vent & Sounding System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
81	Flanged Type Mud Box Pressure Rating: PN10 Size/ Dimension: DN65 Materials: GGG40 DIN Standard System: Fire System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
82	Flanged Type Mud Box Pressure Rating: PN16 Size/ Dimension: DN50 Materials: GGG40 DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Type Approved Certificate HS code no: To be mentioned	Nos	05	
83	Strum Box Size/ Dimension: DN25 Materials: Galvanized Steel DIN Standard System: Oily Water & Sludge System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	10	
84	Strum Box Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	15	
85	Flanged Type Y-Filter Pressure Rating: PN6 Size/ Dimension: DN40 Materials: Steel	Nos	05	



	DIN Standard System: MDO Transfer & Filling & Overflow System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned			
86	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN50 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
87	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN65 Materials: Galvanized Steel DIN Standard System: M/E & Generator Cooling Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	
88	Flanged Type Sea Water Filter Pressure Rating: PN16 Size/ Dimension: DN250 Materials: Galvanized Steel DIN Standard System: Bilge & Sea Water System Country of Origin: To be mentioned Country of Manufacturer: To be mentioned Certification: Manufacturer Certificate HS code no: To be mentioned	Nos	05	

Compliance Statement. A compliance statement (in a tabular format) fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations. Stating mere 'Yes' or 'No' or 'Complied' will not suffice and detailed description/ information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered laser guided alignment machine, the deviation has to be spelt out clearly.

Enclosures:

- | | | |
|----|---|------------|
| a. | Ballast Water System Rev-03 | - 01 pages |
| b. | Ballast Tanks Air Vent&Sounding System Rev-01 | - 01 pages |
| c. | MDO Filling&Transfer&Overflow System Rev-02 | - 01 pages |
| d. | Lub Oil System Rev-00 | - 01 pages |
| e. | Compressed Air System Rev-01 | - 01 pages |
| f. | Main Engine Cooling Water System Rev-00 | - 01 pages |
| g. | Bilge&Sea Water System Rev-01 | - 01 pages |
| h. | Oily Water&Sludge System Rev-00 | - 01 pages |
| j. | Fire System Rev.01)-BV | - 06 pages |
| k. | Sanitary Discharge System Rev-00 | - 01 pages |
| m. | Domestic Water System Rev-00 | - 01 pages |
| n. | Quick Closing Valve System Rev-00 | - 01 pages |







 Tommy TRANSPORTATION		70 ton SELF PROPELLER CHAIN BARGE	
TBN-SPCB-04			
BALLAST TANKS AIR VENT & SOUNDING SYSTEM			
Alarm: Excessive TANKS Alarm: Excessive TANKS Control: Remote Tank Monitoring Alarm: Excessive TANKS	Alarm: Excessive TANKS Alarm: Excessive TANKS Control: Remote Tank Monitoring Alarm: Excessive TANKS	Alarm: Excessive TANKS Alarm: Excessive TANKS Control: Remote Tank Monitoring Alarm: Excessive TANKS	Alarm: Excessive TANKS Alarm: Excessive TANKS Control: Remote Tank Monitoring Alarm: Excessive TANKS

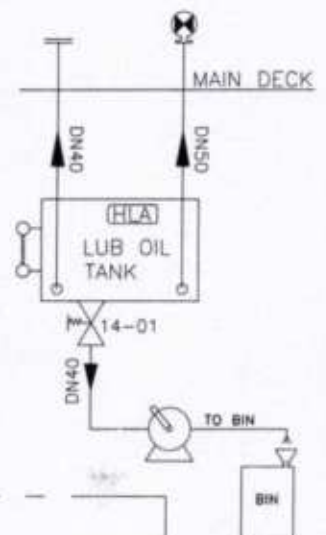
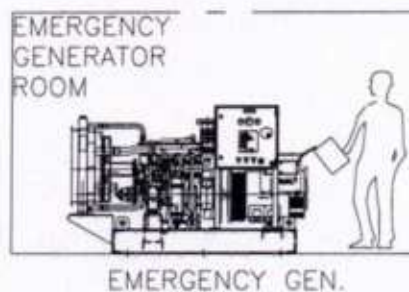


 TOMAY PROFESSIONAL TRANSPORTATION		70 ton SELF PROPELLED CRANE BARGE	
TBN-SPCB-04			
MCC TRANSFER & FILLING & OVERFLOW SYSTEM			
Project: Project TBN-04 Location: Small Port 04-02 Contact: Small Port 04-02 Approved:	Description: Transfer of MCC from Small Port 04-02 to Small Port 04-02 Date: 10/10/04 Time: 10:00 AM Status: Completed	Operator: Small Port 04-02 Date: 10/10/04 Time: 10:00 AM Status: Completed	Operator: Small Port 04-02 Date: 10/10/04 Time: 10:00 AM Status: Completed

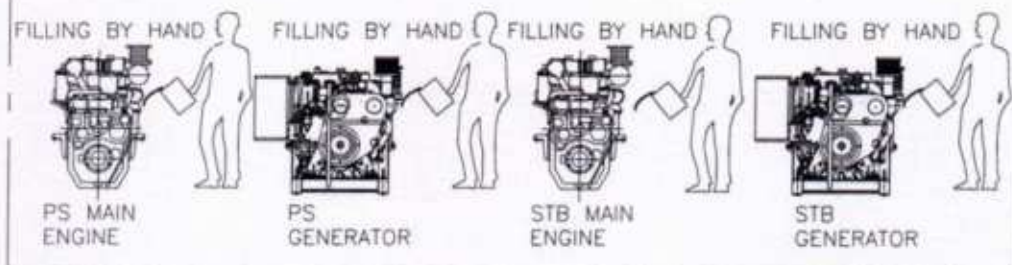
Pos No.	DN	Material	Type
14-01	DN40	GGG40	Self Closing Valve
14-02	DN50	STEEL	Air Pipe Head with Flame Arrestor (Type Approved)

Pipe Scentlings		
Nominal Diameter	Outer Dia. & Wall Thickness	Material
1 1/2" DN40	48.3x2.3	Seamless Steel
2" DN50	60.3x4.5	

DESCRIPTION	SYMBOL
WIND PUMP	
HIGH LEVEL ALARM	(HLA)
SELF CLOSING VALVE	
AIR PIPE HEAD WITH FLAME ARRESTER	
LEVEL TURE	

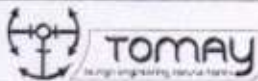


ENGINE ROOM



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BUT DESIGN VE BIRNINLA CİSİL HESAPLAMA TEPA HAYATI ZEMAN TOMAY A GİTME TOMAY TOMAY Nİ SADECE MÜHÜRLE İLAKİNE BİLİ BİRDİMAN İYETİ BUNDA BİR KİME İÇİNDÜ BAŞVURARA KİRLİMEZ, TEYER İYETİ KİPİSİ EĞİLEMEZ VE HER NE MİCİSİTİLE OLURSA OLUSUN MİCİSİTİLE İZDİNE KİLLİRLİRLİRLİ

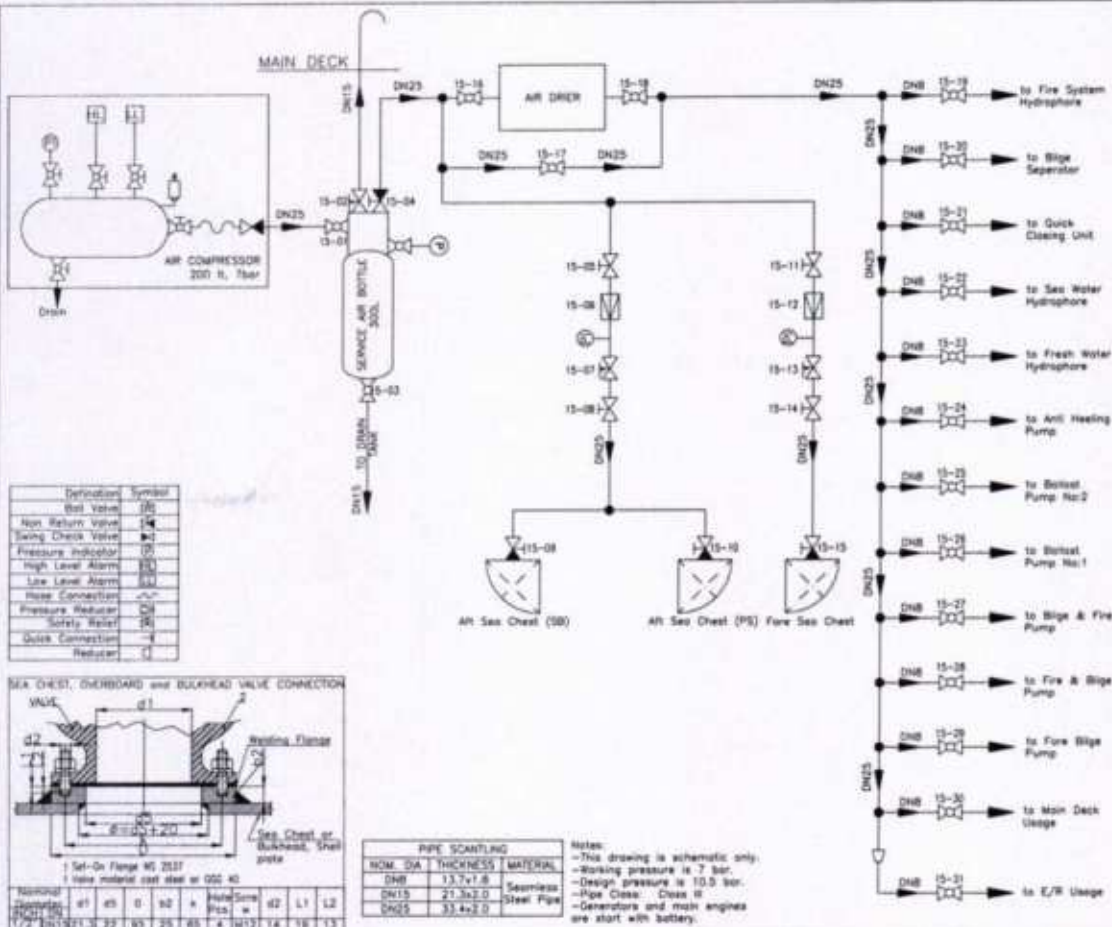


TBN-SPCB-04

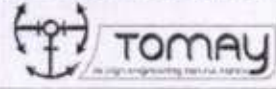
LUBRICATION OIL SYSTEM

Design	Teoman TOMBAK	Shipyard	Class	BV / 48464F	Revision No	00
Drawn	İsmail Can YILMAZ	Cockyard&Engineering Work Ltd.	Hull No	NB 252	Page	1/1
Control	Ahmet Burek KABASAKAL	Owner	Project No	SPCB-04	Issue Date	23.01.2025
Approved		Bangladesh Navy	Drawing No	P-12	Scale	1/50

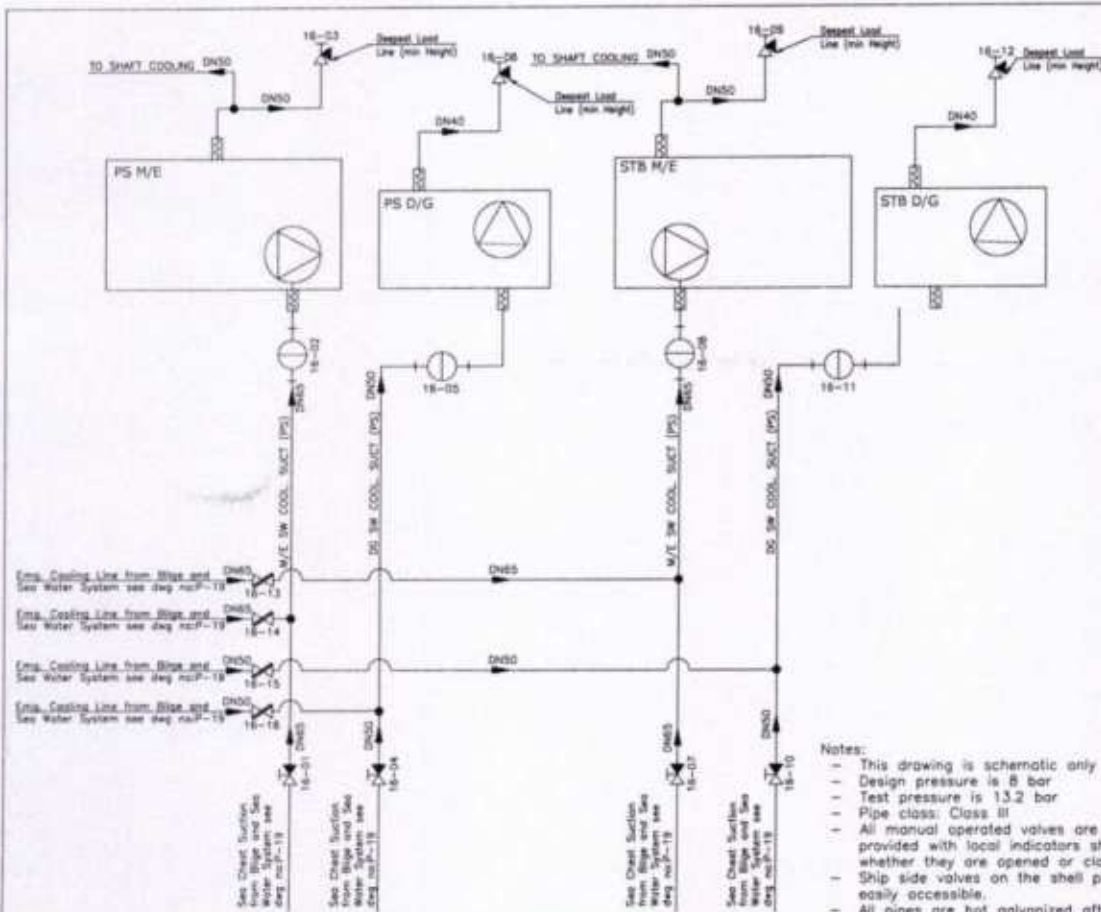




Pos. No.	DN	Material	Type	PS (bar)
15-01	DN25	GG25	Ball Valve	16
15-02	DN25	GG25	Ball Valve	16
15-03	DN15	GG25	Ball Valve	16
15-04	DN25	GG25	Non-Return Stop Valve	16
15-05	DN25	GG25	Stop Valve	16
15-06	DN25	GG25	Air Reducing Valve (7bar to 2bar)	16
15-07	DN25	GG25	Relief Valve (set press. 2.2 bar)	16
15-08	DN25	GG25	Stop Valve	16
15-09	DN25	GG40	Non-Return Stop Valve	16
15-10	DN25	GG40	Non-Return Stop Valve	16
15-11	DN25	GG25	Stop Valve	16
15-12	DN25	GG25	Air Reducing Valve (7bar to 2bar)	16
15-13	DN25	GG25	Relief Valve (set press. 2.2 bar)	16
15-14	DN25	GG25	Stop Valve	16
15-15	DN25	GG40	Non-Return Stop Valve	16
15-16	DN25	GG25	Ball Valve	16
15-17	DN25	GG25	Ball Valve	16
15-18	DN25	GG25	Ball Valve	16
15-19	DN25	GG25	Ball Valve	16
15-20	DN25	GG25	Ball Valve	16
15-21	DN25	GG25	Ball Valve	16
15-22	DN25	GG25	Ball Valve	16
15-23	DN25	GG25	Ball Valve	16
15-24	DN25	GG25	Ball Valve	16
15-25	DN25	GG25	Ball Valve	16
15-26	DN25	GG25	Ball Valve	16
15-27	DN25	GG25	Ball Valve	16
15-28	DN25	GG25	Ball Valve	16
15-29	DN25	GG25	Ball Valve	16
15-30	DN25	GG25	Ball Valve	16
15-31	DN25	GG25	Ball Valve	16

				TBN-SPCB-04 COMPRESSED AIR SYSTEM				Design: Teoman TOMBAK Drawn: İsmail Can Yılmaz Control: Ahmet Burak KABASAKAL Approved: Bangladesh Navy				Class: BV / 48454F Hull No: N8 252 Project No: SPCB-04 Drawing No: 17-16				Revision No: 00 Page: 1/1 Issue Date: 12.09.2024 Scale: 1/75			
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Pipe No.	DN	Material	Type	PN (bar)
16-01	DN85	G235	Non-Return Stop Valve	16
16-02	DN85	Steel	Filter	16
16-03	DN50	G235	Angle Non-Return Stop Valve (Type Approved)	16
16-04	DN50	G235	Non-Return Stop Valve	16
16-05	DN50	Steel	Filter	16
16-06	DN40	G235	Angle Non-Return Stop Valve (Type Approved)	16
16-07	DN85	G235	Non-Return Stop Valve	16
16-08	DN85	Steel	Filter	16
16-09	DN50	G235	Angle Non-Return Stop Valve (Type Approved)	16
16-10	DN50	G235	Non-Return Stop Valve	16
16-11	DN50	Steel	Filter	16
16-12	DN40	G235	Angle Non-Return Stop Valve (Type Approved)	16
16-13	DN85	G235	Butterfly Valve	16
16-14	DN85	G235	Butterfly Valve	16
16-15	DN50	G235	Butterfly Valve	16
16-16	DN50	G235	Butterfly Valve	16

PIPE SCANTLING			
NOMINAL DIAMETER	OUTER DIAMETER	WALL THICKNESS	MATERIAL
1 1/2"	DN40	44.5	1.2
2"	DN50	57	1.5
2 1/2"	DN65	76.1	1.5

Symbol	Description
	Butterfly Valve
	Stop Check Valve
	Angle Non-Return Stop Valve
	Flow Direction
	Pump
	Exp. Joint
	Filter

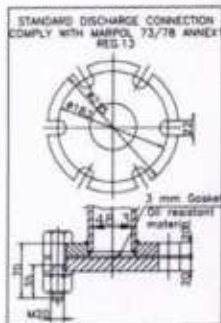
- Notes:
- This drawing is schematic only
 - Design pressure is 8 bar
 - Test pressure is 13.2 bar
 - Pipe class: Class III
 - All manual operated valves are to be provided with local indicators showing whether they are opened or closed
 - Ship side valves on the shell plating shall be easily accessible.
 - All pipes are hot galvanized after fabrication.

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	TBN-SPCB-04		Design	Teoman TOMBAL	Shipyard	Class	BV / 48464F	Revision No	00
	M/E & GENERATOR COOLING WATER SYSTEM		Drawn	Ismael Can YILMAZ	Dockyard & Engineering Work Ltd	Shut No	NB 252	Page	1/1
			Control	Ahmet Burak KABASAKA	Owner	Project No	SPCB-04	Issue Date	16.01.2024
			Approved		BANGLADESH NAVY	Drawing No	P-16	Scale	1/75



Pos No.	DN	Material	Type	PR (bar)
20-01	DN25	Steel	Strum Box	-
20-02	DN25	GG25	Non-return Stop Valve	6
20-03	DN25	Steel	Strum Box	-
20-04	DN25	GG25	Non-return Stop Valve	6
20-05	DN25	Steel	Strum Box	-
20-06	DN25	GG25	Non-return Stop Valve	6
20-07	DN25	Steel	Strum Box	-
20-08	DN25	GG25	Non-return Stop Valve	6
20-09	DN25	Steel	Strum Box	-
20-10	DN25	GG25	Non-return Stop Valve	6
20-11	DN25	GG25	Non-return Stop Valve	6
20-12	DN25	GG25	Non-return Stop Valve	6
20-13	DN25	GG25	Non-return Stop Valve	6
20-14	DN25	GG25	Non-return Stop Valve	6
20-15	DN25	GG25	Non-return Stop Valve	6
20-16	DN25	GG25	Non-return Stop Valve	6
20-17	DN25	GG25	Non-return Stop Valve	6
20-18	DN40	GG25	Stop Valve	6



Notes:

- This drawing is schematic only
- Design pressure is 3 bar
- Test pressure is 4.5 bar
- Pipe class: Class II
- All pipes are hot galvanized after fabrication
- For air vent/sounding details please see dwg no: P-05
- For tank locations details please see dwg no: R-07
- Discharge connection will be locate suitable place near the superstructure.

Pipe Sizing		
Nominal Diameter	Outer Dia. & Wall Thickness	Material
1"	DN25 33.7x3.2	Seamless Steel Pipe
1 1/2"	DN40 48.3x3.8	Seamless Steel Pipe

Symbol	Description
	Non Return Stop Valve
	Stop Valve
	Strum Box
	Shore Connection
	Flow Direction
	Pump
	Suction Bell

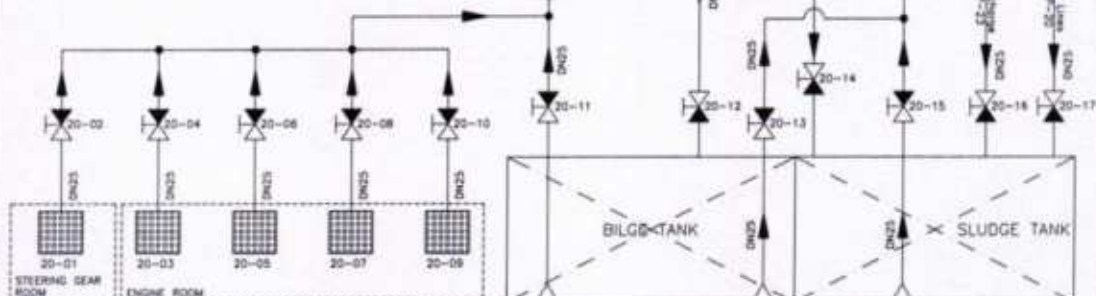
No.	Designation	Type	Capacity
20-P-01	Sludge Collection Pump	Gear Type	3 m³/h.3 bar
20-P-02	Sludge Transfer Pump	Gear Type	3 m³/h.3 bar

BILGE TANK CAPACITY CALCULATION
 Required Capacity according to MLC 1/10/04/542
 Above 1000kW up to 2000kW: P/250
 P=1004kW
 Required Capacity=1004/250=4.016m³
 Actual Capacity=4.75m³

SLUDGE TANK CAPACITY CALCULATION
 MARPOL Annex 1 Reg 12
 $V = K \times C \times D$
 $K = 0.005$
 $C = 6.977 \text{ m}^3/\text{day}$
 $D = 30 \text{ days}$
 $V = 1.046 \text{ m}^3$
 Actual Capacity=4m³

DECK PENETRATION DETAIL FOR STEEL PIPE

DN	d2	d1	S1	L	d3
25	33.7	42.4	4	60	45
40	48.3	60.3	6	60	62

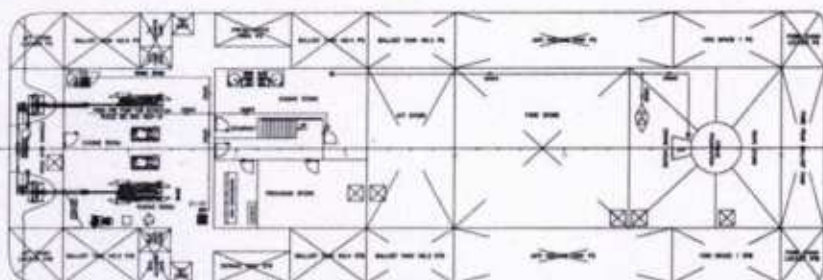
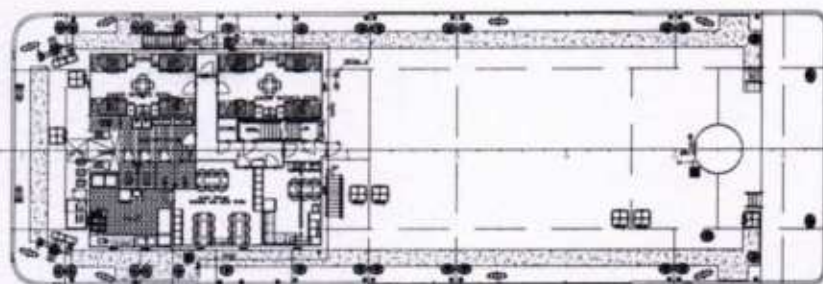
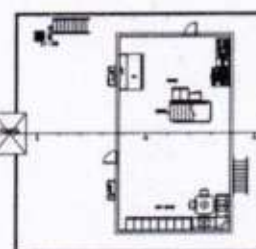
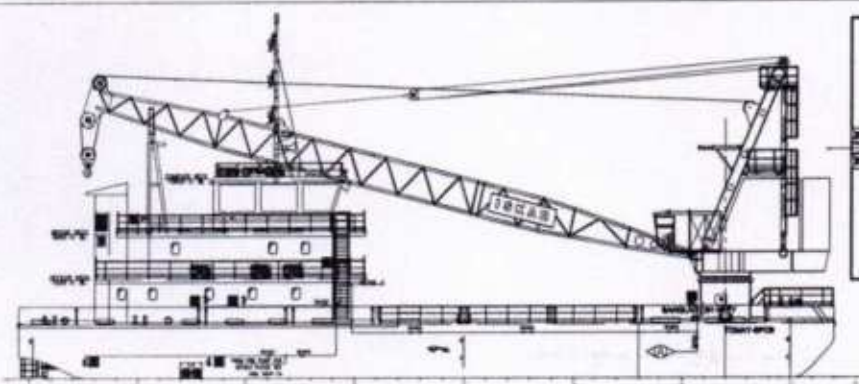


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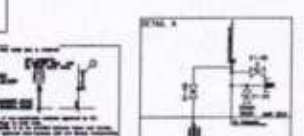
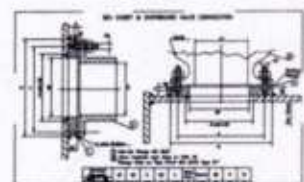
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	OILY WATER & SLUDGE SYSTEM		Drawn	İsmail Can YILMAZ	Cooley&Engineering Work Ltd.	Hull No	NB 252	Page	1/1
			Control	Ahmet Burak KABASAKAL	Owner	Project No	SPCB-04	Issue Date	19.09.2024
			Approved		Bangladesh Navy	Drawing No	P-20	Scale	1/50





NO.	REVISION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	15/05/2014	MD	MD

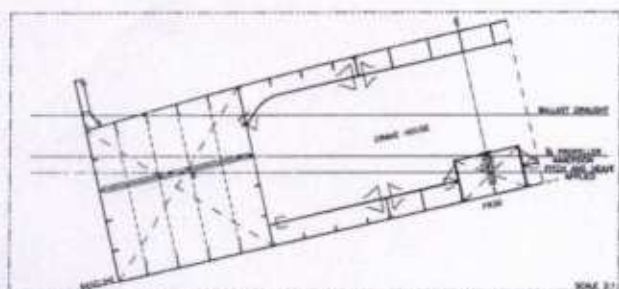
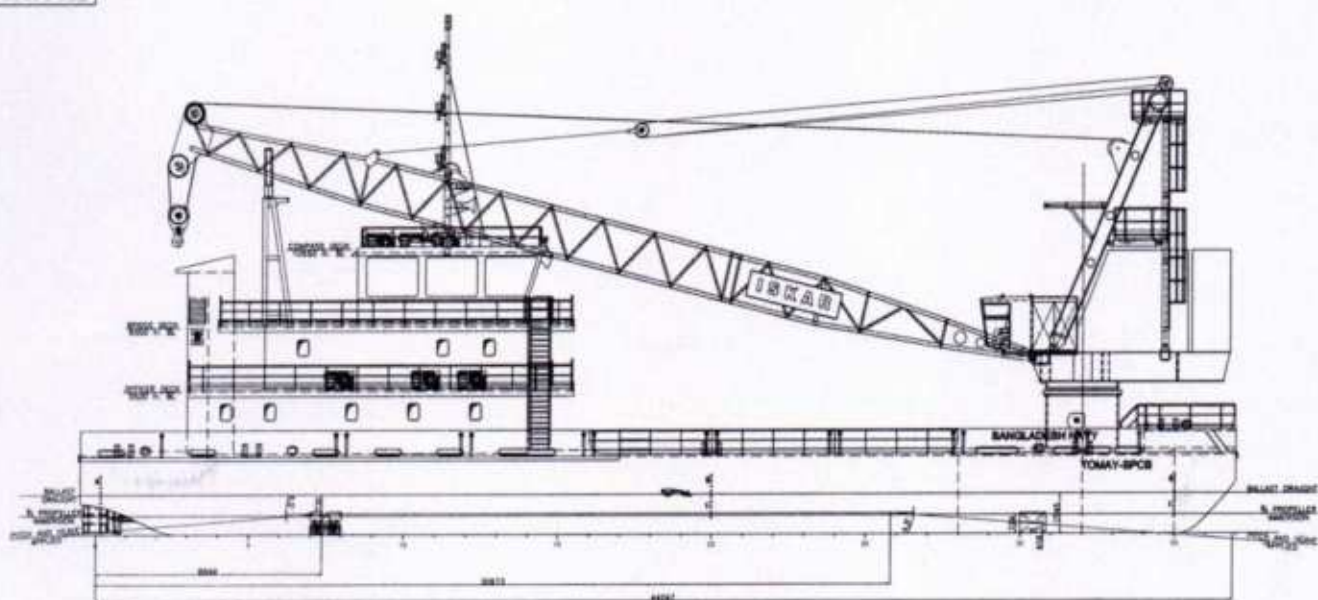
Approved for Construction
 15/05/2014
 MD



800 DWT OIL PRODUCT TANKER	
TBN-SPCB-04 FIRE SYSTEM	
Design: TBN-SPCB-04	Drawn: TBN-SPCB-04
Checked: TBN-SPCB-04	Approved: TBN-SPCB-04
Date: 15/05/2014	By: MD
Scale: 1/20	Sheet No: 01



BUTTERFLY SECTION
 (As shown above, refer to the page)



L = Length between perpendiculars at the ballast: 44.036 meters
 $\phi = 4.50'$
 $H = 0.73$ m
 Pos.1 - Waterline in the arrival ballast condition (acc.MSC/CRC 1388 1.2.2)
 Draught MS: 1.456 m
 Pos.2 - Waterline for which heave combined pitch is taken into account (acc.MSC/CRC 1388 1.1.1)
 Pos.3 - Static waterline drawn through the level of 2/3 immersion of the propeller at even keel (acc.MSC/CRC 1388 1.2.1)
 Propeller diameter $D = 0.97$ m
 Axis of propeller - 0.618 m ab.BL

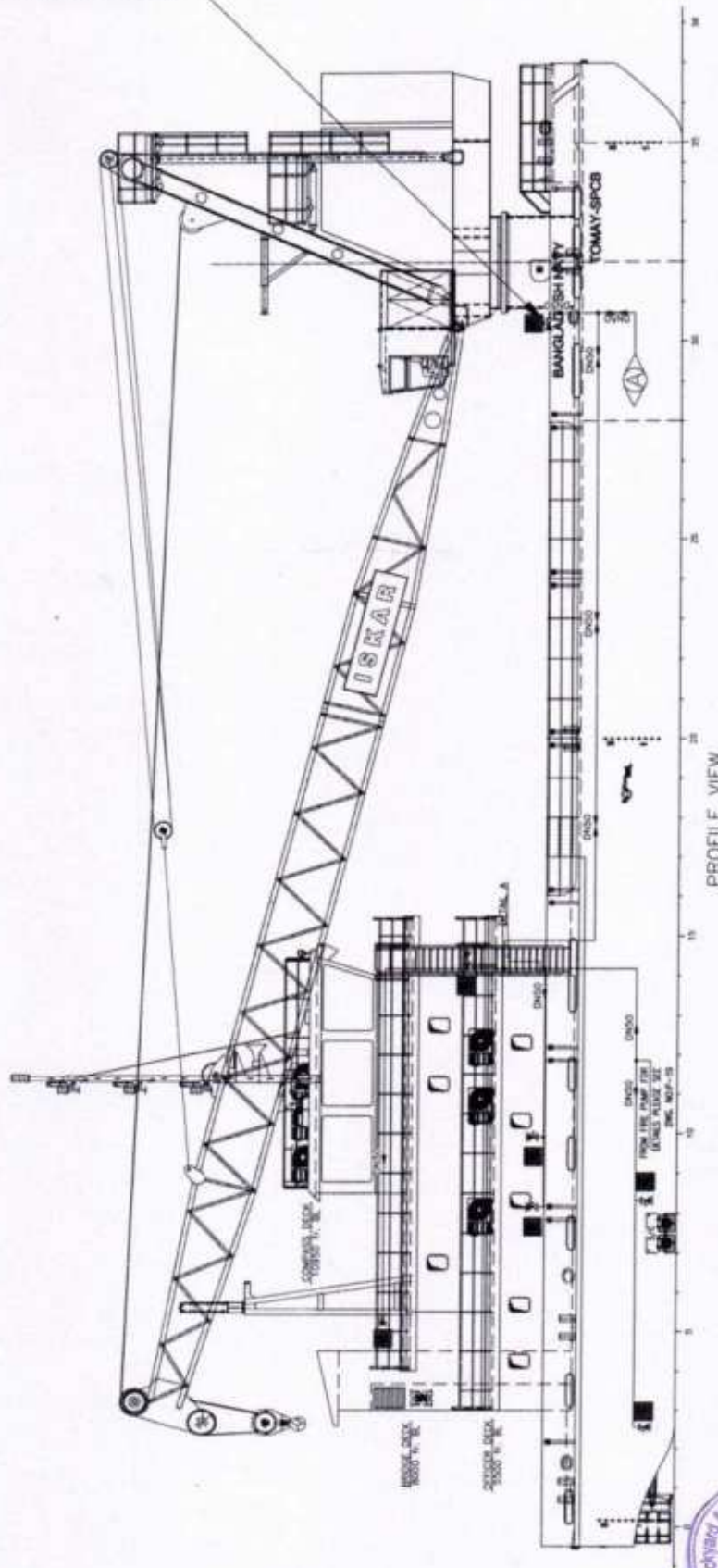
Ship Name	TBN-SPCB-04	800 DWT
Ship Type	OIL PRODUCT TANKER	
Ship No.	TBN-SPCB-04	
Ship Class	FIRE SYSTEM	
Design	Technical Drawing	
Drawn	Technical Drawing	
Checked	Technical Drawing	
Approved	Technical Drawing	
Scale	1:100	
Sheet No.	1/1	
Issue Date	12/04/2014	




TOMAY
 design engineering consultancy

TBN-SPCB-04 FIRE SYSTEM

OUTERMOST HYDRANT



	PIPE NOMINAL DIAMETER	DN65	DN50	TOTAL	
	TOTAL PIPE LENGTH (L)	40.83	1.5	-	m
h_f	TOTAL PIPE HEAD LOSS	9.214	0.077	9.291	m
	TOTAL FITTING CONSTANTS	4.49	2.4	-	
h_L	TOTAL FITTING LOSS	2.086	0.334	2.42	m
V	SPEED	3.019	1.653	-	m/s
h_z	ELEVATION DIFFERENCE (PUMP TO OUTERMOST HYDRANT)			3.2	m
This calculation has been calculated according to Hazen-Williams equation.				14.911	m
$h_F = (10.67 * L * Q^{1.852} / C^{1.852} * D^{4.87})$ $C=120$ (C is the Hazen-Williams coefficient (dimensionless) 120 for steel)		PUMP INFORMATION		TOTAL HEAD LOSS	1.462 bar
$h_L = K(V^2/2g)$		FLOW RATE (Q): 25	m^3/h	2.538	bar
$h_{Total} = h_z + h_L + h_F$		PRESSURE: 4	bar	0.254	MPa
				PRESSURE AT OUTERMOST HYDRANT	



FOR DN65 LINE

NAME	VALUE (K)	TOTAL	TOTAL VALUE
RESTR. 1A	0.13	0	0
RESTR. 1B	0.16	0	0
RESTR. 1C	0.20	12	2.4
RESTR. 2A	0.15	0	0
RESTR. 2B	0.20	0	0
RESTR. 2C	0.25	0	0
RESTR. 3	0.50	0	0
RESTR. 4	0.75	0	0
RESTR. 5	1.00	0	0
RESTR. 6	3.00	0	0
RESTR. 7	1.50	0	0
RESTR. 8	1.00	1	1
RESTR. 9	0.90	0	0
RESTR. 10	0.04	6	0.24
RESTR. 11	0.35	0	0
RESTR. 12	0.10	0	0
RESTR. 13A	0.02	0	0
RESTR. 13B	0.40	0	0
RESTR. 14A	0.30	0	0
RESTR. 14B	0.60	0	0
RESTR. 14C	1.25	0	0
RESTR. 15	2.50	0	0
RESTR. 16	5.00	0	0
RESTR. 17	0.25	0	0
RESTR. 18	0.05	0	0
RESTR. 19	0.70	0	0
RESTR. 20	0.25	2	0.5
RESTR. 21	0.35	1	0.35
RESTR. 22	2.00	0	0
RESTR. 23	0.01	0	0
TOTAL			4.49

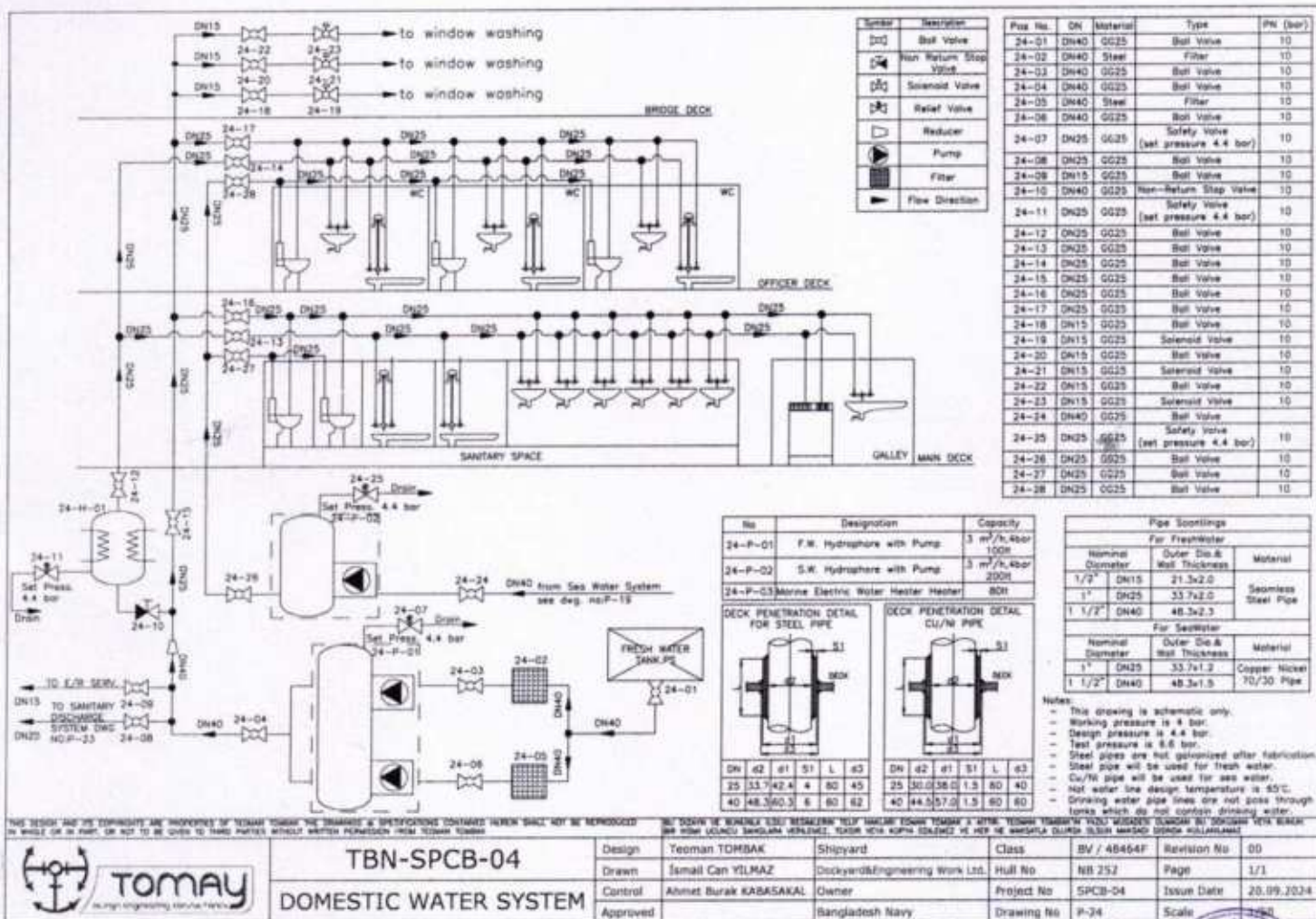
FOR DN50 LINE

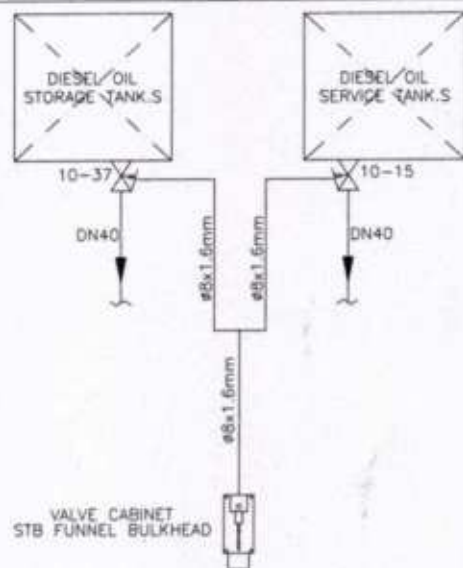
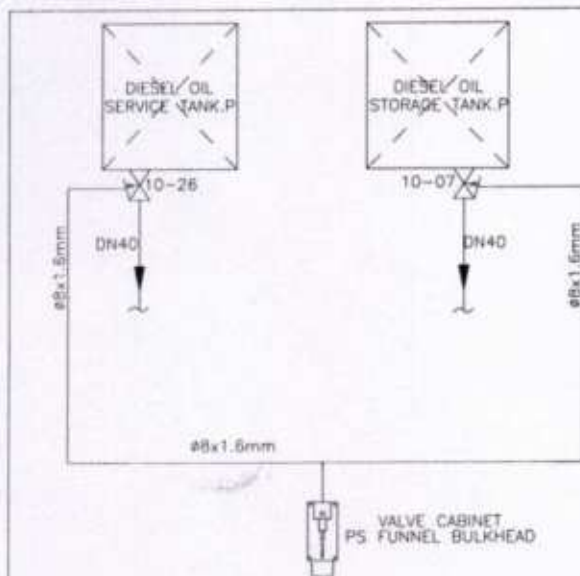
NAME	VALUE	TOTAL	TOTAL VALUE
RESTR. 1A	0.13	0	0
RESTR. 1B	0.16	0	0
RESTR. 1C	0.20	2	0.4
RESTR. 2A	0.15	0	0
RESTR. 2B	0.20	0	0
RESTR. 2C	0.25	0	0
RESTR. 3	0.50	0	0
RESTR. 4	0.75	0	0
RESTR. 5	1.00	0	0
RESTR. 6	3.00	0	0
RESTR. 7	1.50	0	0
RESTR. 8	1.00	0	0
RESTR. 9	0.90	0	0
RESTR. 10	0.04	0	0
RESTR. 11	0.35	0	0
RESTR. 12	0.10	0	0
RESTR. 13A	0.02	0	0
RESTR. 13B	0.40	0	0
RESTR. 14A	0.30	0	0
RESTR. 14B	0.60	0	0
RESTR. 14C	1.25	0	0
RESTR. 15	2.50	0	0
RESTR. 16	5.00	0	0
RESTR. 17	0.25	0	0
RESTR. 18	0.05	0	0
RESTR. 19	0.70	0	0
RESTR. 20	0.20	0	0
RESTR. 21	0.35	0	0
RESTR. 22	2.00	1	2
RESTR. 23	0.01	0	0
TOTAL			2.4



RESISTANCE OF VALVES AND FITTINGS TO FLOW OF FLUIDS								
1		A		B		C		
		45°	0,13	60°	0,16	90° 0,20		
2		A		B		C		
		45°	0,15	60°	0,20	90° 0,25		
3		90° BENDS IN SERIES					0,5	
4		90° BENDS IN SERIES					0,75	
5		90° BENDS IN SERIES					1	
6		CONFLUENCE IN TEE PIPE					3	
7		ANGLE FLOW IN TEE PIPE					1,5	
8		SEPARATION OF FLOW IN TEE PIPE					1	
9		ANGLE FLOW IN TEE PIPE					0,9	
10		STRAIGHT FLOW IN TEE PIPE					0,04	
11		BRANCH PIPE (CONFLUENCE)			$Q_b=0,5Q$			
					$Z_d=0,35$	$Z_a=0,35$		
12		BRANCH PIPE (CONFLUENCE)			$Q_b=0,5Q$			
					$Z_d=0,1$	$Z_a=0,1$		
13		SEP. OF FLOW		$Q_b=0,5Q$	A		B	
					$Z_d=0,02$		$Z_a=0,4$	
14		MITRE BENDS			A		B	C
					45°	0,3	60°	0,6
15		COMBINATIONS WITH 90° PIPE ELBOWS					2,5	
16		COMBINATIONS WITH 90° PIPE ELBOWS					5	
17		INLET					0,25	
18		INLET					0,05	
19		INLET					0,7	
20		BUTTERFLY VALVE					0,25	
21		DISCO CHECK VALVE					0,35	
22		FIRE HYDRANT					2	
23		SEP. OF FLOW			$Q_b=0,5Q$	A		B
						$Z_d=0,01$		$Z_a=0,9$







NOTES:

- 1) ALL PIPES 8mm. OD 1.6 mm WALL THICKNESS DIN2391 St.35 SEAMLESS PIPE.
- 2) REMOTE CONTROLLED VALVES ARE TO BE PROVIDED WITH INDICATORS ON THE LOCAL CONTROLS TO SHOW WHETHER THEY ARE OPEN OR SHUT.
- 3) VALVE HYDRAULIC ACTUATOR CABINETS PLACED ON MAIN DECK OUTSIDE, ON THE SIDE BULKHEADS OF FUNNEL.
- 4) FOR AIR VENTS AND SOUNDING PLEASE SEE "AIR VENT & SOUNDING SYSTEM" DWG NO: P-03.
- 5) FOR TANKS LOCATIONS AND VOLUMES SEE "TANK CAPACITY PLAN" DWG NO: R-07.

Pos. No.	DN	MATERIAL	TYPE	PN (bar)
10-07	DN40	GGG40	Quick Closing Valve	10
10-15	DN40	GGG40	Quick Closing Valve	10
10-26	DN40	GGG40	Quick Closing Valve	10
10-37	DN40	GGG40	Quick Closing Valve	10

Symbol	Description
	Quick Closing Valve
	Self Closing Valve
	Flow Direction

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BU TASARIM VE BÜYÜMLER KOPYA HAKKINDA TOMAK TOMAK'IN HAKKI VE MÜLKİYETİDİR. ÇİZİMLER VE TEKNİK ŞARTNAMESİ ÇİZİMLERİN İÇİNDEKİLERİNE GİRER VE ÜÇÜNCÜ TARAF KİMLERİNE VERİLMEDİKÇE VE BİR KISMI BİR KISIM OLARAK ÜÇÜNCÜ TARAF KİMLERİNE VERİLMEZ.



TBN-SPCB-04 QUICK CLOSING VALVE SYSTEM

Design	Teoman TOMBAK	Shipyard	Class	BV / AB464F	Revision No	00
Drawn	İsmail Can YILMAZ	Dockyard/Engineering Work Ltd.	Hull No	NB 252	Page	1/1
Control	Ahmet Burak KANASAKAL	Owner	Project No	SPCB-04	Issue Date	24.05.2024
Approved		Bangladesh Navy	Drawing No	P-66	Scale	1/50



BANK GUARANTEE IN LIEU OF EARNEST MONEY

Guarantee No _____
Dated _____
For (mention amount) _____

Dear Sir,

Whereas (Name of tender floating organization) under tender No-----
-----dated -----inviting tenders for supplies of (described
supplies) has agreed to waive the requirement of cash deposit /call deposit of US\$/ £/ Tk-----
-----being %1(one percent) of the value of supplies as earnest money by the tender for
making in accordance with the terms and conditions of the tenderer and the tenderer shall provide a
bank guarantee for payment for the said amount .

And whereas the tenderer M/S,----- of -----has
requested us (name of bank) of -----to issue a guarantee for payment of the
amount of US\$/ £/ Tk-----when called upon.

In consideration of the aforesaid, we (name of bank) of ----- hereby undertake
and guarantee due performance of the tender by tenderer M/S----- of ----- and
unconditionally and absolutely bind ourselves :

1. To make payment without any question whatsoever of US\$/ £/ Tk-----to ----
----- (name of organisation) or as direct by the organisation immediately on receipt of demand from
the said , organisation in writing , in the event be tenderer fail to perform the tender , it is expressly
understood that the organisation shall be the sole judge for deciding whether the tender has
performed the tender and fulfill the terms and condition of the tender.

2. It is specially stipulated and understood by the bank that any grant of time or indulgence to the
tenderer without reference to the bank shall not in any manner tent to absolve the bank from its
liability to make the payment stipulated above under this guarantee.

3. The bank's commitment under this guarantee is limited to and amount of US\$/ £/ Tk-----
-----(------) only .

4. The guarantee will remain valid up to -----

Yours faithfully

(seal of the bank)

-----Bank


ANNEX-D

PERFORMANCE BANK GUARANTEE

Managing Director
Dockyard & Engineering works Ltd
Bangladesh Navy
Sonakanda, Bandor, Narayanganj

Bank Guarantee no _____
Dated _____
For (Mention amount) _____

Dear Sir,

Whereas Dockyard & Engineering works Ltd, Bangladesh Navy, Sonakanda, Bandor, Narayanganj, hereinafter referred to as the buyers proposed to enter in to a contract through a letter of intent/Purchase Order No _____ dated _____ hereinafter called the contract with (name of the sellers) of _____ hereinafter referred to as the sellers for the supply of (described supplies) in accordance with terms and conditions of the contract. And whereas the sellers have requested us (name of the bank) to issue a guarantee for an amount of **US\$/ £/ EURO/ Tk.** _____ Being 5% of the CFR value of the supplies.

In Consideration aforesaid (name of bank) _____ here by undertake and guarantee due observance and performance of the terms and condition of the contract by the sellers and we unconditionally and absolutely bind ourselves.

To make payment on demand, without demur and without reference to the sellers, of US\$/ £/ EURO/ Tk. _____ to the buyers or as directed by the buyers in writing, if the sellers shall fail to perform the contract of fulfill the terms and conditions thereof.

To keep guarantee valid and in force for 4 (four) months beyond the date of shipment but extendable if so required by the buyers.

The guarantee is unconditional and it is expressly understood that the buyers shall be sole judge for deciding whether the sellers have performed the contract and fulfilled the terms and conditions thereof.

It is specifically stipulated and understood by us (name of bank) that any grant of time of indulgence to the sellers without reference to us shall not in any manner tend to absolve us from our liability to make payment as stipulated above under the guarantee.

our commitment under this guarantee is limited to an amount of US\$/£/EURO/Tk. _____ only.

Yours faithfully

(seal of the bank)

-----Bank

