



KHULNA SHIPYARD LIMITED

BANGLADESH NAVY, KHULNA

PHONE NO: PABX 02-47772003

E-mail: oiccomf.ksy@gmail.com, Web: www.khulnashipyard.gov.bd

IMPORTANT POINT

1. **TENDER NO: BABE(F)–632/Ventilation Fan, Tools etc./25-26 Date: 17/03/2026**
2. **DUE FOR OPENING ON: 13 April 2026.**
3. **PRICE OF TENDER DOCUMENT: 2,000.00 (Tk. Two Thousand) Non-refundable.**
4. **NAME OF THE COMMODITY: Ventilation Fan, as per Annex- B, Measuring Tools & Loos Tools as per Annex- C.**
5. **SOURCE OF FINANCE: Khulna Shipyard Limited**
6. **TERMS OF SUPPLY: CFR Chattogram Sea Port.**
7. **PRICE:**
 - i) FOB and Ocean freight should be shown separately.
 - ii) Freight should be shown/endorsed on Bill of Lading.
 - iii) Freight will be paid at actual against Bill of Lading but not exceeding the amount shown in quotation/offer.
 - iv) Khulna Shipyard will process all customs formalities with related duties and taxes.
8. **SHIPMENT: 45 Days from the date of letter of credit (LC).**
9. **TENDER SHOULD REMAIN VALID: 60 Days from the opening date of Tender.**

10. THE TENDER DOCUMENTS MUST BE REQUIRED WITH SEAL AND SIGN THEREOF ON EACH PAGE:

The Khulna Shipyard Ltd., Khulna invites quotation by **Single envelop** from Manufacturers / Principal Suppliers for supply of the item(s) described in the attached sheet schedule (Annex-B & C) on firm CFR Chattogram. Quotations will be received by this office up to **11-15 A.M.** and will be opened **11-30 A.M.** in public on the date specified above.

11. 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 / **KSY website** or by cable to all prospective bidders who have received Tender documents and the same will be binding on them (**For updated information suppliers should follow the KSY Website**).
- 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 TENDER

12. GENERAL:

- a. Tenders are to be dropped in the tender box provided for the purpose at the office of Khulna Shipyard Ltd., Khulna.
- 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:-
 - i. CONSIGNEE : **THE MANAGING DIRECTOR
KHULNA SHIPYARD LIMITED
BANGLADESH NAVY**

KHULNA – 9201, BANGLADESH
BIN: 000400834-0801
COMMANDING OFFICER
NAVAL STORES DEPOT,
NEW MOORING, CHATTOGRAM, BANGLADESH.
BIN: 002349278-0503

ii. NOTIFYING PARTY :

Tender number and 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 tenders to the **MANAGING DIRECTOR, KHULNA SHIPYARD LIMITED, BANGLADESH NAVY, KHULNA-9201, 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 should be confirmed their credit report issued from Tenderers banks and this credit report should be enclosed in the original Tender / quotation otherwise LC opening bank should be arranged to collect this credit report and necessary cost in this respect will be realized from the supplier during LC opening.

g. Tenders should enclose with the quotation the Original Proforma Invoice of their Principal and the Proforma should be based on CFR.

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.

i. The name of the manufacturers, principal suppliers and country/countries of origin with port of shipment proposed should invariably be indicated.

j. Tenderers must submit with the quotation the Original Proforma Invoice of their Principals and the Proforma Invoice shall clearly indicate detail technical specification, the percentage of commission, if any, included in Material Price for the local agent. Commission payable to the local agent by the foreign supplier will be deducted and paid to local agent in equivalent Local currency at the exchange rate on the purchase order date (bank BC selling rate).

k. 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.

l. Supplier must quote the offer as per schedule given in Annex A's list/ table as package wise to this document and incomplete or partial offer of any package may be treated as non-complied/ non-responsive.

m. KSY reserve the right to purchase partially or full quantity of the quoted goods.

n. Local Agent/ supplier should also submit along with the tender valid Indenting agent registration certificate issued by the Bangladesh Indenting Agent Association (BIAA), Trade license, and TIN certificate. In absence of original certificate attested Photostat copy by first class officer may serve.

13. **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 filled in be returned along with the **Tender**.

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

15. **TERMS OF PAYMENT:**

i. LC for full purchase amount will be opened by Khulna Shipyard Limited in favour of the principal supplier under the following payment terms where the **LC commission charge 0.30% (per quarter) of the total LC Value equivalent of BDT taka** including related VAT & others will be borne by foreign principal/ local agent (supplier) at LC opening that will be included of quotation.

a. **80%** of total CFR value will be paid on delivery of the items described under the scope of supply and on production of following shipping documents :

- (1) Complete set of original 'Clean on Board' Bill of Lading (Master Bill)/ mentioning the amount of freight on Bill of Lading,
- (2) Supplier's invoice signed in ink,
- (3) Certificate of standard test,
- (4) Fax/E-mail/Swift advice for insurance cover,
- (5) Certificate of origin,
- (6) Authorization certificate,
- (7) Certificate showing that the material has been shipped in a non-Israel vessel,
- (8) Undertaking regarding supply/ re-placement of short supplied and defective materials on free of cost demanded by the buyer.

b. Remaining **20%** of LC amount will be paid after receiving the material at KSY site with satisfactory acceptance that will be generated by user end & supplier representative or satisfactory Material Quality Inspection note that will be generated by KSY.

ii. Bank charges in Bangladesh for opening of LC shall be borne by the supplier. Any Bank charges for revalidation or amendment of the LC on the request of the supplier shall be exclusively borne by the beneficiaries and not by the Khulna Shipyard Ltd. Confirmation of letter of credit by foreign bank will not be entertained or if applicable that will be borne by the supplier.

iii. Bank charges for withdrawal against LC established by buyer will be borne by the beneficiary/ Supplier.

iv. The beneficiary/ Supplier will have to bear the following foreign bank charges: -

- (1) Negotiation commission.
- (2) Payment & Discrepancy commission.
- (3) Postage & Cable charges.
- (4) LC confirmation charges / additional (ADD) confirmation charges.
- (5) LC amendment commission/ LC extension commission.
- (6) LC cancellation charges.
- (7) LC confirmation charges (if any).

16. **PACKING AND MARKING:**

a. The seller shall be responsible for proper sea worthy 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 packet/ 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 the seller,

N.B:- Non-negotiable copies of shipping documents will be sent in advance by email (oiocomf.ksy@gmail.com) before getting original and original shipping documents will

be delivered in the LC opening Bank before 10 days arrival of ship at port. In the event of any delay in dispatch of the shipping documents or above state or their incorrect preparation or submission of wrong IGM, the supplier shall be responsible for any demurrage, extra handling charges or any other expense arising there from.

17. **QUANTITY:**

- a. Check of quality, quantity and condition of goods at the discharging port/ place i.e. chattogram will be carried out by the buyer if required, it will be at their cost.
- b. The quotation must be based on firm prices for individual items as per Annex-A. Average prices should not be quoted.
- c. The approximate weight of each Packet/ Bundle should be shown separately on quotation.
- d. The Khulna Shipyard 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. The Khulna Shipyard 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.

SPECIAL CLAUSES

18. **JOINT INSPECTION:** The Materials/items will be checked (quality, quantity, condition of goods) and mustered by supplier representative and KSY representative after arrival the items at KSY.

If any defective or 2nd hand item is found during the joint mustering at KSY, the defective or 2nd hand item will not be acceptable. Supplier shall undertake the full responsibility to supply and replace the defective or 2nd hand item by new one.

19. **LATE SHIPMENT/DELIVERY AND LIQUIDATED DAMAGES:** Late shipment/ delivery will not be accepted. However with reasonable cause, if KSY agrees for late Shipment/ Delivery, in that case followings will be imposed:

- a. On genuine reasons / grounds beyond the control of the suppliers / contractor, extension of delivery period may, however, be granted by the Purchase Approving Authority (KSY) without realization of any liquidated damage provided validity of their performance guarantee covers such extension.
- b. Liquidity damage equivalent to half percent per week or part thereof on the value of the undelivered goods will be realized from the supplier/contractor.
- c. In specific cases, where delay in shipment is likely to cause dislocation of work or financial loss, or related to the delivery of ships/ handed over of construction work, a higher rate of liquidity damage from 05% to 10% (as decided by KSY) per week or part thereof on the value of the undelivered goods will be charged.
- d. In case of delay in shipment beyond approved timeframe as stated in Clause no. 8, this schedule will be treated as cancelled and the full Performance Guarantee shall also be forfeited as a consequential effect.
- e. Minimum 14 days free time for container shipment at destination port must allow for each shipment.

20. **TERMINATION OF CONTRACT:**

- a. At any time during the period of this contract, the Purchaser shall have the right to cancel contract under following reasons:

- (1) If the supplier fails to supply the contracted item as per specification given in the purchase order/contract of the contracted item being rejected by the competent technical authority.
- (2) If the supplier fails to deliver the contracted item within the date specified in the purchase order/contract or any extensions thereof.
- (3) In the event of breach of any contractual obligations given in the terms and conditions of the purchase order/contract.

b. Moreover, in case of termination of contract as under this clause the Purchaser shall have the right to decide taking appropriate punitive action against the supplier as deemed suitable by the KSY authority.

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

d. Decisions under this clause SHALL not be subject to arbitration.

21. **INSURANCE.** After shipment to the destination upto buyers premises (Khulna Shipyard Ltd.), marine insurance of the consignment will be arranged by buyer but considering **insurance charge 0.30% of the total LC Value equivalent of BDT** including VAT, Stamp & all related charge will be paid by foreign principal/ local agent (supplier) at LC opening. Quotation should, therefore, be included with the insurance charges.

22. **EARNEST MONEY.** All bidders must submit earnest money BDT 2,00,000.00 (Two Lac) or equivalent US Dollar / in any International trading currency favoring Khulna Shipyard Ltd.(KSY). Khulna, in the form of Bank Draft / Pay Order / Bank Guarantee which will be issued by any scheduled bank of Bangladesh. In case bank guarantee is submitted, the same should remain valid for 180 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 Tender; or violates the terms after opening of the Tender and before expiry of the validity of the Tender; or fails to furnish the required performance bond within 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-D.

23. **PERFORMANCE BOND.** The successful Tenderer will be required to furnish performance bond to the extent 10% of the total CFR value either in the form of pay order or bank guarantee from any scheduled bank of Bangladesh for the satisfactory execution of the order. The submitted bank guarantee must remain valid 06 (Six) months beyond the day of shipment. Performance bond must be furnished within 10 (Ten) day's 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. The Performance Guarantee will be released after satisfactory inspection (quantity, quality and weight), test-trial and acceptance by Khulna Shipyard Limited Quality Control committee and in presence of supplier's representative at Khulna Shipyard Premises. The buyer shall have the right to forfeit the performance guarantee for failure of the supplier in fulfilling the terms and conditions of this contract partially or wholly, besides taking any other action against the supplier that may be warranted. A specimen copy of performance bond is enclosed herewith as Annex-E.

24. **WARRANTY.** Supplier shall undertake the full responsibility to rectify any defect of supplied items free of charges under warranty period. To rectify/ replace any such defective item, provided that the defects are appeared / discovered during the period of 12 months after acceptance. Warranty repair/ replacement shall be accomplished within 03 months of notification of the relevant defect. Otherwise warranty will be extended by non-operational period of the item.

25. **GUARANTEE FOR WARRANTY.** Supplier shall furnish to KSY a guarantee for warranty for an amount equivalent to 05% (five percent) of the total contract price from any scheduled bank situated in Bangladesh. The buyer shall have the right to forfeit the performance guarantee for failure of the supplier in fulfilling the terms and conditions of this contract partially or wholly, besides taking any other action against the supplier that may be warranted. It will be released after completion of warranty period

26. **INDEMNITY.** The supplier has 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 accidents or damage which may cause or 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.

27. **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 and who meets the specification and other terms and conditions of the Tender document.

28. **COMPLIANCE STATEMENT.** A compliance statement considering all clauses of Technical and Financial (as per ANNEX-A including relevant information a tabular format) fulfilling all the given requirement of the specifications is to be submitted for evaluation of the Tenders. Stating mere 'Yes', 'No' "Complied" will not suffice and detailed description/ information as required is to be given. An incomplete compliance statement may attribute to cancellation of the Tender. If any clause of this specification does not commensurate with tender, the deviation has to be spelt out clearly and reasonably. **Information/ document/ certificate/ data shared by the bidder must be genuine which can be cross-checked through authentic website information.** Before giving purchase order, KSY may ask any type of technical, financial, administrative queries to the tender. Tender will provide all information/ document/ data to comply KSY's requirement immediately.

29. **DISQUALIFICATION OF TENDER:**

a. Any addition or alteration 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.

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

30. **TAXES, DUTIES AND DELAY DOCUMENTS:**

a) All Customs duties, taxes and other charges (C&F charge, port charge etc. except dumping charge (Cargo/ Barge/ Truck/ Trailer loaded from mother vessel)) levied on the goods by authorities in buyer's 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's country shall be borne by the sellers.

c) In the event of any delay in dispatch of the shipping documents or their incorrect preparation, the supplier shall be responsible for any demurrage, extra handling charges or any other expense arising there from.

31. **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 encashing the performance guarantee.

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

33. **FORCE MAJEURE.** Should any circumstance arise preventing either contracting party from wholly or partly carrying its obligations under the present contract, namely Natural Calamity, Strike, Riots, firm acts and elements of War, Military Operation of any, Nature, Block ads and any unforeseen event which is beyond human control the period stipulated for the performance of this contract shall be extended or as long as the circumstances prevail. Provided that in the event of these circumstances continuing for more than thirty days, either party shall

have to refuse to fulfill its obligations under this contract and in such case neither party shall be entitled to indemnification of any losses 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 circumstances preventing the performance of the contract. A certificate issued by the Chamber of Commerce of the sellers of the buyers' country shall be sufficient proof of the existence and duration of such circumstances.

34. **ARBITRATION.** In the event of 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 arbitrator in writing before proceeded on the reference of the decision of the sole arbitrator or of the two arbitrator in the writing before proceeded on the reference of the decision of the sole arbitrator or of the two Arbitrators or the umpire as the case may be shall be final, conclusive and binding upon the parties. The provisions of the arbitration Act 2001 and rules there under and any statutory modification there of 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 Khulna Shipyard Ltd., Bangladesh Navy, reserves the right to incorporate additional terms and conditions, if necessary. The Khulna Shipyard Ltd., BN also is not bound to accept the lowest Tender and reserves the right to cancel the tender, reject any or all Tenders without assigning any reason whatsoever.

Yours faithfully



SK. SHAH MOSIUR RAHOMAN
Manager Purchase
For Managing Director

Enclosure:

- | | | |
|----|---|------------|
| A. | Format of Price Schedule (Annex - A) | - 01 Page |
| B. | Technical Specification (Annex – B & C) | - 18 Pages |
| C. | Format of Bank Guarantee in Lieu of Earnest Money (Annex-D) | - 01 Page |
| D. | Format of Performance Bank Guarantee (Annex-E) | - 01 Page |



KHULNA SHIPYARD LTD.

BANGLADESH NAVY, KHULNA

PHONE NO: PABX 02-477720003

E-mail: oiocomf.ksy@gmail.com, Web: www.khulnashipyard.gov.bd

ANNEX-A

TENDER NO: BABE (F) - 632/Ventilation Fan, Tools etc./2025-2026 DATED: 17 MARCH 2026

TENDER OPENING DATE: 13 April 2026 AT 1130 AM HOURS

The package material items:

Sr No	DESCRIPTION OF PACKAGE ITEM (As per Annex)	Quantity	Material Price (Itemize)	Freight	Itemize Total CFR Price
1.	Marine Type Ventilation Fan (As per Annex- B)	Itemize			
2.	Measuring Tools and Loose Tools (As per Annex- C)	Itemize			

N.B:

- i. Supplier must quote the offer according to the above list/ table as package wise and incomplete or partial offer of any package may be treated as non-complied/ non-responsive.**
- ii. Supplier must follow commercial & Financial Terms that are integrated at schedule.**
- iii. As per schedule given in Annex A's list/ table as package wise, the financial offer must be quoted identically.**

Yours quotation No.

Signature, Name and address of the tenderer:

Date:

Terms of delivery:

Telephone No:

TECHNICAL SPECIFICATION OF MARINE TYPE VENTILATION FAN

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
1.	Forward Engine Room Supply Fan supplied with automatic Non- return fire damper and flexible connection	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial Fan 4. Body Material: Galvanized Iron 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum)/ To be mentioned 9. IP: 56 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 57,000 m3/hr (Minimum). 12. Pressure: 550 Pa (Minimum) 13. Size: 20 Inch (Minimum) 14. Starting Method: Variable Frequency Drive (VFD) or to be mentioned. 15. Starter Panel: The starter panel should include a start/stop push-button switch and indication lamps for proper operation and monitoring. The starter should have a remote start-stop and speed control option. The starter panel should be supplied with the fan. 16. Accessories: Fitting Flange 2 nos and rubber gasket and safety mesh will be providing with the fan. 17. Connection terminal box with required cable inlet. 18. Communication facility: To interface with Noris Automation the following Hardware platform and protocol is required - (1) Hardwired platform :RS485/RS422/RJ45 (2) Protocol: ModBus RTU/ModBus TCP/NMEA0183 19. Country of origin: to be mentioned 20. Country of manufacture: To be mentioned 	06	
2.	Aft Engine Room Supply Fan and flexible connection	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial Fan 4. Body Material: Galvanized Iron 5. Supply Voltage: 3Phase 415 V AC, 50 Hz 6. Power: To Be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) / To be mentioned 9. IP: 56 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 24,000 m3/hr (Minimum). 12. Pressure: 525 Pa (Minimum) 13. Size: 20 Inch (Minimum) 14. Starting Method: Variable Frequency Drive (VFD) or to be mentioned. 15. Starter Panel: The starter panel should include a start/stop push-button switch and indication lamps for proper operation and monitoring. The starter should have a remote start-stop and speed control option. The starter panel should be supplied with the fan. 16. Accessories: Fitting Flange 2 nos and rubber gasket and safety mesh will be providing with the fan. 	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		17. Connection terminal box with required cable inlet 18. Communication facility: To interface with Noris Automation the following Hardware platform and protocol is required - (1) Hardwired platform :RS485/RS422/RJ45 (2) Protocol: ModBus RTU/ModBus TCP/NMEA0183 19. Country of origin: to be mentioned 20. Country of manufacture: To be mentioned		
3.	Forward Engine Room Exhaust Fan with flexible connection	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial Fan 4. Body Material: Galvanized Iron 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum)/ To be mentioned 9. IP: 56 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 88000 m3/hr (Minimum) 12. Pressure: 115 Pa (Minimum) 13. Size: 20 Inch (Minimum) 14. Starting Method: Variable Frequency Drive (VFD) or to be mentioned. 15. Starter Panel: The starter panel should include a start/stop push-button switch and indication lamps for proper operation and monitoring. The starter should have a remote start-stop and speed control option. The starter panel should be supplied with the fan. 16. Accessories: Fitting Flange 2 Nos and rubber gasket and safety mesh will be providing with the fan. 17. Connection terminal box with required cable inlet 18. Communication facility: To interface with Noris Automation the following Hardware platform and protocol is required - (1) Hardwired platform :RS485/RS422/RJ45 (2) Protocol: ModBus RTU/ModBus TCP/NMEA0183 19. Country of origin: to be mentioned 20. Country of manufacture: To be mentioned	03	
4.	Aft Engine Room Exhaust Fan with Flexible Connection	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial Fan 4. Body Material: Galvanized Iron 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 56 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 21500 m3/hr (Minimum) 12. Pressure: 75 Pa (Minimum) 13. Size: 20 Inch (Minimum) 14. Starting Method: Variable Frequency Drive (VFD) 15. Starter Panel: The starter panel should include a start/stop push-button switch and indication lamps for proper operation and monitoring. The starter should have a	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		remote start-stop and speed control option. The starter panel should be supplied with the fan. 16. Accessories: Fitting Flange 2 nos and rubber gasket and safety mesh will be providing with the fan. 17. Connection terminal box with required cable inlet 18. Communication facility: To interface with Noris Automation the following Hardware platform and protocol is required - (1) Hardwired platform :RS485/RS422/RJ45 (2) Protocol: ModBus RTU/ModBus TCP/NMEA0183 18. Country of origin: to be mentioned 19. Country of manufacture: To be mentioned		
5.	2 Speed Circular inline duct fan for Ram Winch Room Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 440 m3/hr. (Minimum) 12. Pressure: 450 Pa (Minimum) 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
6.	2 Speed Circular inline duct fan Steering Gear Compartment Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 16,00 m3/hr (Minimum) 12. Pressure: 350 Pa (Minimum) 13. Duct Size: 250 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	06	
7.	2 Speed Circular inline duct fan Domestic Machinery Room Supply fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		11. Air Flow Rate: 2170 m3/hr (Minimum) 12. Pressure: 350 Pa (Minimum) 13. Duct Size: 300 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
8.	2 Speed Circular inline duct fan HPU Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 165m3/hr (Minimum) 12. Pressure: 400 Pa Minimum 13. Duct Size: 100 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
9.	2 Speed Circular inline duct fan Emergency Generator Room Supply Fan with Flexible Connection	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 310 m3/hr (Minimum) 12. Pressure: 550 Pa (Minimum) 13. Duct Size: 100 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
10.	2 Speed Circular inline duct fan AHU Room Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 420 m3/hr (Minimum) 12. Pressure: 400 Pa (Minimum) 13. Duct Size: 125 mm (Minimum) 14. Starting Method: To Be Mentioned 15. Country of origin: to be mentioned	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		16. Country of manufacture: To be mentioned		
11.	2 Speed Circular inline duct fan AHU Room Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase ,415 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 420 m3/hr (Minimum) 12. Pressure: 400 Pa (Minimum) 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
12.	Explosion Proof 2 Speed Circular inline duct fan Battery Room Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 220 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certificate: 1) Explosion Prof certificate 2) Manufacture Test Certificate 11. Air Flow Rate: 210 m3/hr (Minimum) 12. Pressure: 750 Pa Minimum 13. Duct Size: 80 mm (Minimum) 14. Starting Method: To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
13.	Explosion Proof 2 Speed Circular inline duct fan Paint Locker Room Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: single phase 220 V AC, 50 Hz 6. Power: 0.3 KW (Maximum) 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certificate: 1) Explosion Prof certificate 2) Manufacture Test Certificate 11. Air Flow Rate: 195 m3/hr (Minimum) 12. Pressure: 550 Pa (Minimum) 13. Duct Size: 80 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
14.	2 Speed Circular inline duct fan	1. Brand: To be mentioned 2. Model: To be mentioned	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
	Bonsun / Lashing Room Supply Fan	3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase , 220 V AC, 50 Hz 6. Power: To Be Mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 40 m3/hr (Minimum) 12. Pressure: 50 Pa Minimum 13. Duct Size: 80 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
15.	2 Speed Circular inline duct fan Aft Damage Control Locker Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 75 m3/hr (Minimum) 12. Pressure: 100 Pa Minimum 13. Duct Size: 80 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
16.	2 Speed Circular inline duct fan Eng/Elec. Store Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 330 m3/hr (Minimum) 12. Pressure: 650 Pa minimum 13. Duct Size: 100 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
17.	2 Speed Circular inline duct fan Naval Store Supply Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To Be Mentioned	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 135 m3/hr (Minimum) 12. Pressure: 250 Pa (Minimum) 13. Duct Size: 80 mm (Minimum) 14. Starting Method: To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
18.	2 Speed Circular inline duct fan CO2 Locker Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 115 m3/hr (Minimum) 12. Pressure: 200 Pa (Minimum) 13. Duct Size: 80 mm (min) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
19.	2 Speed Circular inline duct fan Garbage Store Exhaust Fan	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 760 m3/hr. Minimum 12. Pressure: 500 Pa Minimum 13. Duct Size: 150 mm 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
20.	2 Speed Circular inline duct fan 1/2 Deck Stair Tower Supply	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 225 m3/hr. Minimum	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		12. Pressure: 350 Pa (Minimum) 13. Duct Size: 100 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
21.	2 Speed Circular inline duct fan for Deck Stair Tower Supply	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 225 m3/hr (Minimum) 12. Pressure: 450 Pa (Minimum) 13. Duct Size: 100 mm 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
22.	2 Speed Circular inline duct fan Galley exhaust	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 1500 m3/hr (Minimum) 12. Pressure: 400 Pa (Minimum) 13. Duct Size: 200 mm (Minimum) 14. Starting Method : Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	06	
23.	2 Speed Circular inline duct fan Galley supply	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Axial 2 Speed Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 3 Phase 415 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 1060 m3/hr (Minimum) 12. Pressure: 400 Pa (Minimum) 13. Duct Size: 200 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	06	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
24.	Circular inline duct fan for San. Main	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 126 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 125 mm 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned 	03	
25.	Circular inline duct fan for Pantry Room	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 247 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned 	03	
26.	Circular inline duct fan for Electric Equipment Room	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned. 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 320 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 160 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned 	03	
27.	Circular inline duct fan for Diving Equipment Room	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 185 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
28.	Circular inline duct fan for Dry Provisions Room	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 241 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 150 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
29.	Circular inline duct fan for Galley Room	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 1444 m3/hr (Minimum) 12. Air Changes per Hour: 30 13. Pressure: to be mentioned 14. Duct Size: 300 mm (min) 15. Starting Method: Direct On Line or To Be Mentioned 16. Country of origin: to be mentioned 17. Country of manufacture: To be mentioned	03	
30.	Circular inline duct fan for Sick Bay Room	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum)	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 200 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 150 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
31.	Circular inline duct fan for Laundry Room	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 370 m3/hr (Minimum). 12. Pressure: to be mentioned 13. Duct Size: 224 mm (min) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
32.	Explosion proof Circular inline duct fan for Magazine Room	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Explosion proof Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 120 m3/hr (Minimum). 12. Pressure: To be mentioned 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
33.	Circular inline duct fan for 02 Dec LAV	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 135 m3/hr (Minimum). 12. Pressure: to be mentioned 13. Duct Size: 125 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
		15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned		
34.	Circular inline duct fan for Lavatory 3 & 4	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 107 m3/hr (Minimum). 12. Pressure: to be mentioned 13. Duct Size: 100 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
35.	Circular inline duct fan for 1 Deck Shower	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 300 m3/hr (Minimum). 12. Pressure: to be mentioned 13. Duct Size: 160 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	
36.	Circular inline duct fan for Lavatory 01	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single Phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 312 m3/hr (Minimum). 12. Pressure: to be mentioned 13. Duct Size: 160 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned	03	

Ser.	Equipment Name	Description of goods	Qty (Pcs)	Remarks
37.	Circular inline duct fan for 01 Deck Lavatory & Shower	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Marine Centrifugal Fan 4. Body Material: To Be Mentioned 5. Supply Voltage: Single phase 220 V AC, 50 Hz 6. Power: To be mentioned 7. Speed: To be mentioned 8. Motor Insulation: F (Minimum) 9. IP: 44 (Minimum) 10. Certification: Manufacturer Test certificate 11. Air Flow Rate: 650 m3/hr (Minimum) 12. Pressure: to be mentioned 13. Duct Size: 250 mm (Minimum) 14. Starting Method: Direct On Line or To Be Mentioned 15. Country of origin: to be mentioned 16. Country of manufacture: To be mentioned 	03	

TECHNICAL SPECIFICATION OF MEASURING TOOLS AND LOOSE TOOLS

Ser.	Equipment Name	Description of Goods	Qty (Pcs)	Remarks
1	Portable Blower with Flexible Duct	<ol style="list-style-type: none"> 1. Brand: CS power/NK or equivalent 2. Model: To be mentioned 3. Material: Steel or equivalent 4. Diameter of the fan: 300 mm (12 inch) or to be mentioned 5. Power supply: Single Phase 220 V AC /50 Hz 6. Input power: To be mentioned 7. Speed (rpm): 2800 r/min or to be mentioned. 8. Air flow: 65 m³/min (2580 m³/h) Minimum. 9. Air Pressure: 373 Pa 10. Noise: 68 db 11. Protection For Fan Blade: Grills / To be mentioned. 12. Blade material: Steel or equivalent 13. Protection grade: IP 54 (Minimum) 14. Duct Length: 10 Mtr (Minimum). 15. Material of duct: To be mentioned 16. Country of origin: To be mentioned. 17. Country of manufacture: To be mentioned. 	06	
2	Portable Daylight Signaling Light Complete set	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: SPS-10A or equivalent (To be mentioned) 3. Rated voltage: 24V DC 4. Lamps Power rating: 60W or to be mentioned 5. Lamp Type: Halogen lamp 6. Max. luminous intensity(cd): Over 60,000cd 7. Beam spread (deg.): 6° 8. Telescope mag: 4 or to be mentioned 9. Telescope visual angle: 3° 10. Protection degree: IP56 11. Country of origin: Japan or equivalent. 12. Country of manufacture: To be mentioned. 13. Portable daylight Signaling Lamps Battery <ol style="list-style-type: none"> a. Model: PXL12090F2-W or equivalent b. Circuit: (2.0Vx6cell) × 2 circuits c. Capacity: 9Ah (20HR) d. Voltage: DC 24V (12V×2) e. Discharge finish voltage: DC 20.4V f. Country of origin: Japan or equivalent. g. Country of manufacture: To be mentioned. 14. Battery charger <ol style="list-style-type: none"> a. Model: BCN-24S or equivalent b. Input: AC100V~AC240V, 50Hz c. Output: DC 27.3V d. Charging system: Constant current maintenance charge 15. Protection degree: IP20 or to be mentioned 16. Country of origin: Japan or equivalent. 17. Country of manufacture: To be mentioned. 	06	
3	Portable Battery charger	<ol style="list-style-type: none"> 1. Brand: To be mentioned 2. Model: To be mentioned 3. Input Voltage: 220 V AC, 50 Hz 4. Output Voltage: 12 V DC & 24 V DC (Two separate terminal for 12 V DC and 24 V DC) 5. Output Power: 2000 Watt Maximum 	03	

Ser.	Equipment Name	Description of Goods	Qty (Pcs)	Remarks
		6. Charging Current: 50 A at 28.8 V DC 7. Charge voltage Bulk : 28.8 V DC 8. Charge voltage Absorption :28.5 V DC 9. Charge voltage Float : 26.5 V DC 10. Protection: a. Over voltage Protection b. Over load protection c. Auto charge Cut Off 11. Meter: Charging Voltage and current must be displayed on the charger. 12. Country of origin: China. 13. Country of manufacture: To be mentioned.		
4	Digital Megger	1. Brand: Victor or equivalent 2. Model: VC 60 B + or equivalent 3. Measuring Voltage: 250 V, 500 V, 1000 V 4. Range: 0.1 MW to 2000 MW. 5. Max Display: 1999 6. Power: 9 V (1.5 V ^ 4 battery) 7. Battery will be provided with the Meter. 8. Country of origin: China. 9. Country of manufacture: To be mentioned	06	
5	Digital Multi meter	1. Brand: Victor or equivalent 2. Model: VC890D or equivalent 3. Features: a. Data hold b. Low battery indication c. Full overload protection d. Fuse protection at 10A current range e. Protective holster (rubber boot) f. Diode check g. Continuity test (audible) 4. Specifications: a. Frequency response : 40 ~ 400 Hz b. DC voltage: 200mV/2V/20V/200V/1000V (+/- 0.5%) c. AC voltage: 2V/20V/200V/750V (+/- 0.8%) d. DC current: 20µA/2mA/200mA/20A (+/- 1.2%) e. AC current: 2mA/200mA/20A (+/- 1.2%) f. Resistance: 200 Ohm/2k Ohm/20k Ohm/200k Ohm/2M Ohm/20M Ohm (+/- 0.8%) g. Capacitance: 20nF/200nF/20µF/200µF (+/- 4.0%) h. Input impedance : 10 M Ohm i. Sampling rate : 3 times/s j. Operation way : Manual range k. Max. Display : 1999 l. LCD size : 55 x 43 mm 5. Power : Battery will be provide with the meter 6. Country of origin: China. 7. Country of manufacture: To be mentioned	09	
6	Clamp Meter	1. Brand: Victor or equivalent 2. Model: 610C or equivalent 3. Features: a. Data hold	06	

Ser.	Equipment Name	Description of Goods	Qty (Pcs)	Remarks
		<ul style="list-style-type: none"> b. Low battery indication c. Full overload protection d. Fuse protection at 10A current range e. Protective holster (rubber boot) f. Diode check g. Continuity test (audible) 4. Specifications: <ul style="list-style-type: none"> a. AC Voltage: 2V/20V/200V/750V b. DC Voltage: 200mV/2V/20V/200V/1000V c. AC Current: 2A/20A/200A/1000A d. Resistance: 200Ω/2kΩ/20kΩ/200kΩ/40MΩ e. Display: Max. display 2000, update 3 times/s f. Polarity indicates: Cathode auto display g. Overload indicate: OL indicating on the LCD h. Low battery display: indicating on the LCD i. Operation temperature: 0°C~40°C, less than 75%RH j. Storage temperature: -10°C~50°C, less than 80%RH k. Battery type: (Size AAA) 1.5V×2 (Battery will be provide with the meter) 5. Country of origin: China. 6. Country of manufacture: To be mentioned. 		
7	Digital Photo Tachometer	<ul style="list-style-type: none"> 1. Brand: Lutron or equivalent 2. Model: DT-2234B or equivalent 3. Range:5 to 99,999 RPM 4. Resolution: 0.1 RPM (2.5 to 999.9 RPM) Accuracy: ± (0 05%+1 digit) 5. Sampling time: 0.8 sec. (Over 60 RPM) 6. Test range selection: Automatic 7. Memory: Max value, min value, last value 8. Detecting distance: 50 to 250 mm/2 to 10 inches (LED) 9. 50 to 500mm/2 to 20 inches (Laser) 10. Time base: Quartz crystal 11. Circuit: Exclusive one-chip of microcomputer LSI circuit. 12. Battery: 4x 1.5V AAA(UM-3) (Battery will be provide with the meter) 13. Country of origin: Taiwan. 14. Country of manufacture: To be mentioned. 	03	
8	Digital infrared Thermometer	<ul style="list-style-type: none"> 1. Brand: Fluke or equivalent 2. Model: 64 max 3. Temperature range: -30 °C to 600 °C 4. Accuracy : ± 1.0 °C or ± 1.0 % of reading, whichever is greater 5. Optical Resolution: 20: 1(calculated at 90 % energy) 6. Response Time: < 500 ms 7. Battery Power: To be mentioned. (Battery will be provide with the meter) 8. Ingress Protection Rating: IP 54 9. Drop test: 3 meters 10. Laser Safety: IEC 60825-1 Class 2, 650 nm, < 1 mW 11. Country of origin: USA. 	06	

Ser.	Equipment Name	Description of Goods	Qty (Pcs)	Remarks
		12. Country of manufacture: To be mentioned.		
9	Weber Tester	1. Brand: To be mentioned 2. Model: To be mentioned 3. Country of origin: To be mentioned. 4. Country of manufacture: To be mentioned.	06	
10	Tong Tester	1. Brand: Victor or equivalent 2. Model: 610C or equivalent 3. AC Voltage: 2V/20V/200V/750V 4. DC Voltage: 200mV/2V/20V/200V/1000V 5. AC Current: 2A/20A/200A/1000A 6. Resistance: 200Ω/2kΩ/20kΩ/200kΩ/40MΩ 7. Test: Diode Test, Continuity alarm, Data hold, Low voltage display, Auto power off, Overload Protection, NCV, True RMS 8. Display: Max. display 2000, update 3 times/s 9. Polarity indicates: Cathode auto display 10. Overload indicate: OL indicating on the LCD 11. Low battery display: indicating on the LCD 12. Operation temperature: 0°C~40°C, less than 75%RH 13. Storage temperature: -10°C~50°C, less than 80%RH 14. Battery type: (Size AAA) 1.5V×2 (Battery will be provide with the meter) 15. Country of origin: China. 16. Country of manufacture: To be mentioned.	03	
11	Crimping Tools	1. Brand: Black + Decker or equivalent 2. Model: to be mentioned 3. Size: 0.75 to 16 mm2 4. Country of origin: USA or EU country. 5. Country of manufacture: To be mentioned.	06	
12	Hand Drill Machine	1. Brand: To be mentioned 2. Model: To be mentioned 3. Power: 800 Watt Minimum 4. Operating Voltage: 220-240 V AC Max. Drilling Capacity: 13 mm 5. Country of origin: To be mentioned. 6. Country of manufacture: To be mentioned.	03	
13	Drill Bit set	1. Brand: To be mentioned 2. Model: To be mentioned 3. Size: 1.5 mm to 6.5 mm 4. Quantity: 13 Pcs 5. Country of origin: To be mentioned. 6. Country of manufacture: To be mentioned.	03	
14	Rubber Insulating Hand gloves	1. Brand: To be mentioned 2. Model: To be mentioned 3. Insulating Class: 00 AZC 4. Voltage: 500V AC 5. Size: 9 6. Country of origin: To be mentioned. 7. Country of manufacture: To be mentioned.	03	
15	Cable Tester	1. Brand: To be mentioned 2. Model: To be mentioned 3. Cable type: RJ45 + RJ11 & BNC 4. Voltage: 60 V DC	03	

Ser.	Equipment Name	Description of Goods	Qty (Pcs)	Remarks
		5. LED Status indication 6. Country of origin: To be mentioned. 7. Country of manufacture: To be mentioned.		
16	Safety Helmet with head light	1. Brand: To be mentioned 2. Model: To be mentioned 3. LED Head light 4. Country of origin: To be mentioned. 5. Country of manufacture: To be mentioned.	30	
17	Full body Safety Harness	1. Brand: To be mentioned 2. Model: To be mentioned 3. Type: Double Hook 4. Country of origin: To be mentioned. 5. Country of manufacture: To be mentioned.	06	

BANK GUARANTEE IN LIEU OF EARNEST MONEY

No.....
.....

Guarantee
Dated:
For (mention amount).

Dear Sirs,

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
Tk 2,00,000.00 (Tk. Two Lac) or equivalent US Dollar / in any International trading
currency as earnest money by the tenderer for making the supplies 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.ofhas requested us
(name of bank) of to issue as 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 the tenderer M/S.
..... of and unconditionally and absolutely
bind ourselves:

1. To make payment without any question whatsoever of US\$/ Tk
..... to.....(Name of organization) or as directed by the
organization immediately on receipt of demand from the said, organization in writing, in
the event the tenderer fail to perform the tender. It is expressly understood that the
organization shall be the sole judge for-deciding whether the tenderer has performed the
tender and fulfilled the terms and conditions 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 an amount of US/
Taka..... (.....) only.
4. The guarantee will remain valid upto

Yours faithfully
..... Bank

(Seal of the Bank)

PERFORMANCE BANK GUARANTEE

Managing Director
Khulna Shipyard Limited
Bangladesh Navy
Khulna, Bangladesh

Bank Guarantee No.....
Dated:
For (Mention amount)

Dear Sirs,

Whereas Khulna Shipyard Ltd., Bangladesh Navy, Khulna hereinafter referred to as the buyers proposed to enter into a contract through a Letter of Intent 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 the terms and conditions of the contract. And whereas the sellers have requested us (name of bank) to issue a guarantee for an amount of US\$ / £ / EURO / TK..... being 10% of the CFR value of the supplies.

In consideration aforesaid (name of bank) hereby undertake and guarantee due observance and performance of the terms and conditions of the contract by the sellers and us 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 or fulfill the terms and conditions thereof.

To keep guarantee valid and in force for 06 (Six) months beyond the day 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 or 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 this guarantee.

Our commitment under this guarantee is limited to an amount of US\$ / £ / EURO / TK..... only.

Yours faithfully

..... Bank

(Seal of the Bank)