



DOCKYARD & ENGINEERING WORKS LTD
BANGLADESH NAVY
SONAKANDA, BANDOR, NARAYANGANJ
PABX-880-2-7661480, Mobile no: 01769719880, Fax: 880-2-223303501
E-mail – commercial@dewbn.gov.bd, www.dewbn.gov.bd

Ref: 06.02.6758.165.07.193.25.1541

Date: 24 December 2025

INVITATION FOR INTERNATIONAL RE-TENDER

01	Procuring entity name	Dockyard & Engineering Works Ltd, BN, Narayanganj
02	Invitation for	Hydraulic SS Pipe, Flexible Hose Pipe & Hydraulic Pipe Connector (Items Serial No: 01-05)
03	Procuring method	Limited tender
04	Budget & source of funds	Own finance
05	Tender last collection date	29 December 2025 time 04:00 PM
06	Tender closing Date and time	30 December 2025 time: 12:15 PM
07	Tender opening Date and time	30 December 2025 time: 12:30 PM
08	Name & Address of the office: a. Collecting tender document. b. Receiving tender document c. Opening tender document	Commercial Section, Admin Department, Dockyard & Engineering Works Ltd. Bangladesh Navy, Sonakanda, Bandar, Narayanganj. Dockyard & Engineering Works Ltd. Bangladesh Navy, Sonakanda, Bandar, Narayanganj. Dockyard & Engineering Works Ltd. Bangladesh Navy, Sonakanda, Bandar, Narayanganj. Tenderers and their authorized representative are allowed to attend.
09	Price of tender document	Free
10	Contact details official	Mobile: 01615519870, 01769719888 Web: www.dewbn.gov.bd E-mail: commercial@dewbn.gov.bd
11		a. Tenderer must be OEM/ distributor/ local agent. b. Document required: 1. Up to Date Trade License 2. TIN Certificate, 3. VAT Registration Certificate 4. Bank Statement 5. Experience Certificate
12	Earnest Money	All bidders must submit earnest money 01% (one percent) of the actual quoted Total 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.
13	Special instructions	The procuring entity reserves the right to reject all or any part of the tender prior to acceptance without showing any reason.


MOSTOFA KAMAL
Commander BN
DGM (Admin)
Dockyard & Engineering Works Ltd.
Bangladesh Navy, Narayanganj.

For Managing Director



**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 free

**TENDER DOCUMENTS FOR SUPPLY OF HYDRAULIC SS PIPE, FLEXIBLE HOSE PIPE &
HYDRAULIC PIPE CONNECTOR (ITEMS SERIAL NO: 01-05)**

RE-TENDER ENQUIRY NO- 06.02.6758.165.07.193.25.1541 DATED 24 DECEMBER 2025

DUE FOR OPENING ON: 30 DECEMBER 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. **RE-TENDER NO:** 06.02.6758.165.07.193.25.1541 Dated 24 December 2025.
2. **DUE FOR OPENING ON:** 30 December 2025; AT Time: 12.30 PM.
3. **PRICE OF TENDER DOCUMENTS:** Free.
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:** Hydraulic SS Pipe, Flexible Hose Pipe & Hydraulic Pipe Connector (Items Serial No: 01-05)
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:** 30 (Thirty) 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 value is to be paid on the receiving of necessary original shipping documents.
- b. Remaining 20% of LC amount will be paid after received material receiving report (MRR) 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) IACS Class 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-Israel 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 percent 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 violates the terms after opening of the tender and before expiry of the validity of the offer, 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-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:** 12 (Twelve) 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 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 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 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 country shall be borne by the sellers.

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 contracts 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 thereunder and any statutory modification thereof shall be deemed 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)	- 02 pages
B.	Technical Specification (Annex-B)	- 01 page
C.	Design and Drawing	- 04 pages
D.	Format of Bank Guarantee in Lieu of Earnest money (Annex-C)	- 01 page
F.	Format of performance Bank guarantee (Annex-D)	- 01 page



ANNEX-A

Dockyard & Engineering Works Ltd

Bangladesh Navy

Sonakanda, Bandar, Narayanganj

SCHEDULE TO RE-TENDER NO: 06.02.6758.165.07.193.25.1541 DATE 24 DECEMBER 2025 DUE FOR RETURN BY 30 DECEMBER 2025 AT 12.15 HOURS

SL NO	DESCRIPTION	UNIT	QTY	UNIT PRICE (FOB)	TOTAL PRICE (FOB)
01	Hydraulic Pipe (As per technical specification -Annex-B)	Mtr	250		
02	Hydraulic Pipe (As per technical specification -Annex-B)	Mtr	60		
03	Flexible Hose Pipe (As per technical specification -Annex-B)	Mtr	100		
04	Hydraulic Pipe Connector (As per technical specification -Annex-B)	Pcs	50		
05	Hydraulic Pipe Connector (As per technical specification -Annex-B)	Pcs	30		
FOB including local agent commission as per manufacture/ principal/ supplier/ quotation/ proforma Invoice Total Price					
Freight Cost					
CFR Chattogram / CPT Hazrat Shahjalal International Airport, Dhaka Total Price					

Inward:



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	Authorization Certificate of Manufacturer	To be Provided	
05	Authorization Certificate of Principal	To be Provided	
06	Authorization Certificate of Local Agent	To be Provided	
07	Country of Origin	To be mentioned	
08	Country of Manufacturer	To be mentioned	
09	Offer validity	60 days from the date of opening	
10	Port of shipment	To be mentioned	
11	H S Code	Item-wise H S code to be mentioned in the Proforma Invoice	
12	Part Shipment	Not allowed	
13	Transshipment	Allowed	
14	Shipment / Delivery	30 days after receiving LC.	
15	Original Proforma Invoice	To be provided	
16	Earnest Money	To be provided	
17	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.	
18	All other terms and conditions as laid down in tender documents to be followed		

Notes: In order to ensure the quality of the required items as per the above-mentioned specifications, the relevant certificates from the manufacturing organization should be sent to this department before the supply of the items. This department will give final opinion on the supply of the items after necessary coordination with the concerned organization for the said certificate. In this regard, the manufacturing organization will prepare the fabrication drawing of the required items as per the requirement and will take approval from the concerned Classification Society. It is to be noted that all the expenses related to the certificate will be borne by the manufacturing organization.

Your quotation No:



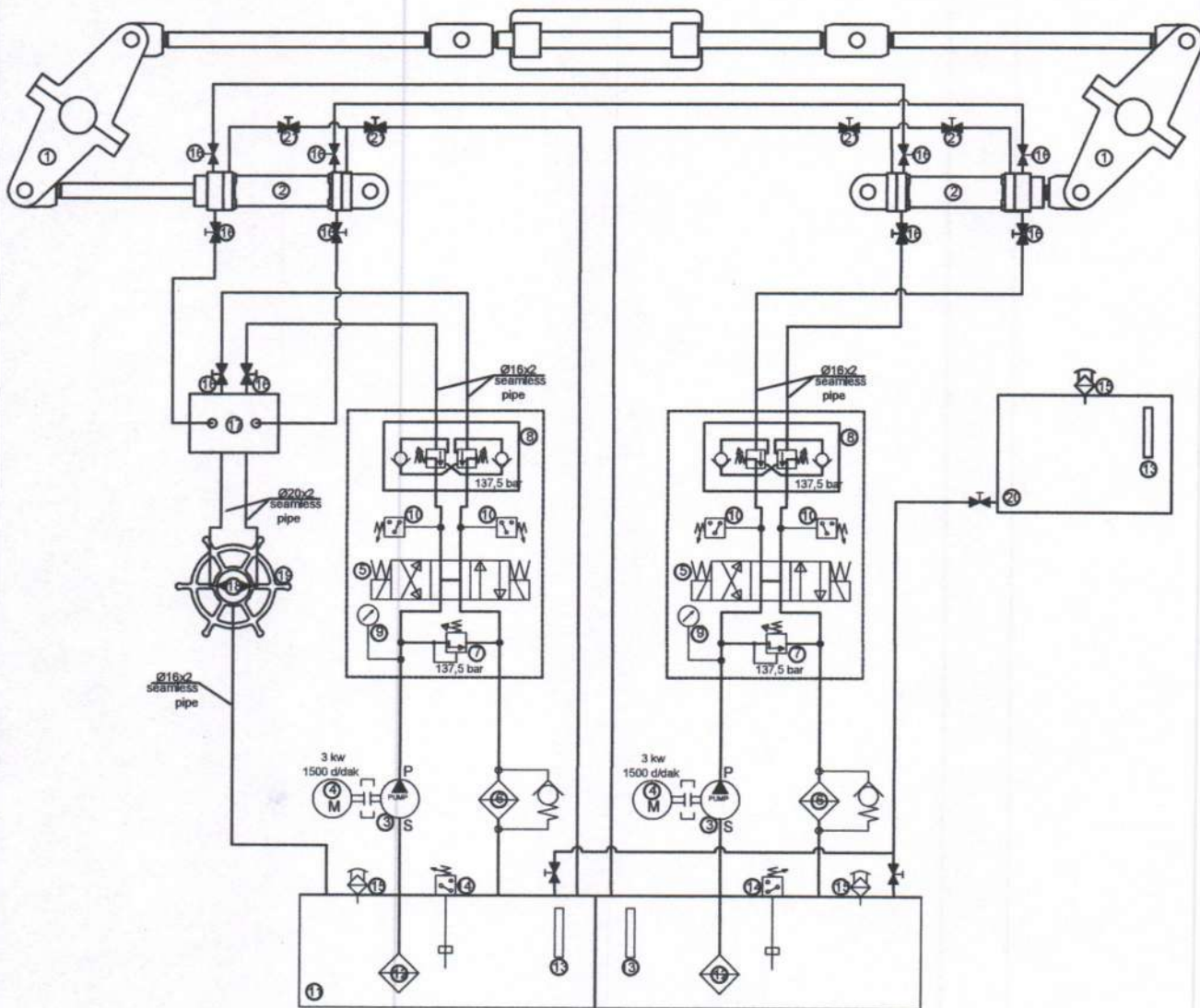
Signature, name and address

TECHNICAL SPECIFICATION

SL No	Technical Description, Specification and standard required	Unit	Qty	Specification offered by Bidder
01	Hydraulic Pipe Type: Seamless Steel Pipe Material Grade: ST 37.4 Min. Working Pressure: 250 Bar Diameter: 16×2 mm Standard: DIN 2445-2 or equivalent. Media/System: Hydraulic System Country of Origin: To be mentioned Certificate: IACS Certificate	Mtr	250	
02	Hydraulic Pipe Type: Seamless Steel Pipe Material Grade: ST 37.4 Min. Working Pressure: 250 Bar Diameter: 20×2 mm Standard: DIN 2445-2 or equivalent. Media/System: Hydraulic System Country of Origin: To be mentioned Certificate: IACS Certificate	Mtr	60	
03	Flexible Hose Pipe Type: SAE 100R2A Standard: DIN EN 853 Nominal Size: ½" Min. Working Pressure: 250 Bar Country of Origin: To be mentioned Certificate: IACS Certificate	Mtr	100	
04	Hydraulic Pipe Connector Type: Seamless Pipe ST 37.4 or equivalent. Min. Working Pressure: 250 Bar Diameter: 16×2 mm Standard: DIN 2445-2 or equivalent. Country of Origin: To be mentioned Certificate: IACS Certificate	Pcs	50	
05	Hydraulic Pipe Connector Type: Seamless Pipe ST 37.4 or equivalent. Min. Working Pressure: 250 Bar Diameter: 20×2 mm Standard: DIN 2445-2 or equivalent. Country of Origin: To be mentioned Certificate: IACS Certificate	Pcs	30	

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.





MAX. TRANSMITTED TORQUE (AT MAX. WORKING PRESSURE) : 30 kNm.
 DESIGN TORQUE (AT RELIEF PRESSURE) : 37,5 kNm.
 HYDRAULIC SYSTEM MAX. DESIGN TEMPERATURE : 70°C

STEERING GEAR MAX. WORKING PRESSURE : 110 BAR
 RELIEF VALVE SETTING PRESSURE : 137,5 BAR
 TEST PRESSURE : 206 BAR
 MAX. PUMP PRESSURE : 250 BAR

SEAMLESS STEEL PIPES : 16x2, MATERIAL ST 37.4
 MAX. WORKING PRESSURE (PIPES) : 250 BAR

FLEXIBLE HOSES : SAE 100R2A DIN EN 853 SIZE 1/2"
 MAX. WORKING PRESSURE : 250 BAR

HYDRAULIC OIL SPECS : FLASH POINT 166°C, VISCOSITY 32 cSt AT 40°C
 (WILL BE SUPPLIED BY THE SHIPYARD)

22	POPET VALF	1/2" NC	2	
21	BYPASS VALVE	DN 12 PN 500	4	RÖTELMANN GMBH
20	RESERVE TANK	GRADE A	1	70 lt.
19	PUMP WHEEL	WOODEN	1	Ø650 mm.
18	EMERGENCY HAND PUMP	DATA	1	DP 75
17	POPET VALF	1/2" NA	2	
16	ISOLATING VALVE	DN 12 PN 500	10	RÖTELMANN GMBH
15	AIR BREATHER	HB 70	3	
14	OIL LEVEL SWITCH	FOX LVSE2 NA-NC	2	127 mm
13	OIL LEVEL & TEMPERATURE GUAGE	HYDROSAM 127	3	
12	TANK FILTER	mm	2	125 µm.
11	OIL TANK (TWO PART)	GRADE A	1	2 x 50 lt.
10	PRESSURE SWITCH	Suco	4	5-50 bar
9	PRESSURE GUAGE	SMGA #63	2	0-250 bar
8	COUNTER BALANCE VALVE	VALVOIL VODUMIL 6-3	2	137,5 bar
7	PRESSURE RELIEF VALVE	KETA LNRV-08	2	137,5 bar
6	RETURN FILTER	KRON HF 502-10.060	2	25 µm.
5	SELONEID VALVE	HYDRAULICA 4W6H2	2	24 V. DC.
4	ELECTRIC MOTOR	AEMOT or Universal	2	3 kw. 1500 rpm.
3	PUMP DKP20.095.CAB02SN-18	Blue Ascend Hyd.	2	9,5 cm³/rev.
2	CYLINDER	DENIZSAN	2	90 / 45 - 480
1	TILLER	GRADE A	2	
POS	DESCRIPTION	MATERIAL	QTY.	TECHN. DATA



DENİZSAN A.Ş.
 Yunus Mah. Atölyeler Sok. No:3
 Kartal - İSTANBUL
 0 (216) 306 71 20-21
 0 (216) 488 85 46

Date 21.03.2025
 Drawing U.SON
 Control U.SON
 Approval U.SON
 Material
 Qty.
 Weight
 Page 2

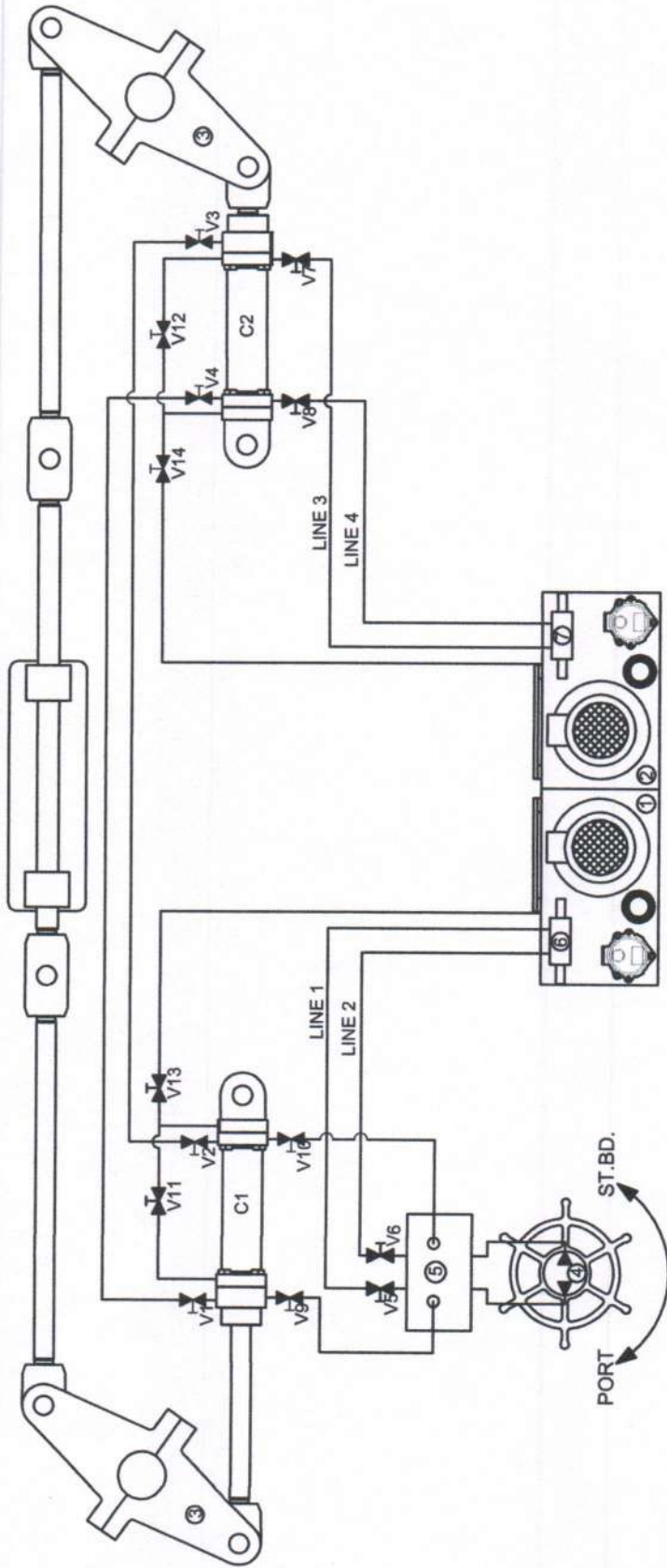
Project Name DSSG_2x1500_35°_Steering Gear
 Drawing Name Hydraulic Diagram
 Revision Description
 Item No
 Scale 1:25
 Revision
 Rev. Date

Do not measure from drawing.



HYDRAULIC POWER UNIT	: 1, 2
STEERING GEAR	: 3
HAND PUMP	: 4
NON-RETURN VALVE	: 5
SOLENOID VALVE	: 6, 7
HYD. CYLINDER VALVES	: V1, V2, V3, V4
HYD. POWER UNIT VALVES	: V5, V6, V7, V8
HAND PUMP VALVES	: V9, V10
BY-PASS VALVES	: V11, V12
BY-PASS BALANCE VALVES	: V13, V14

MODE OF OPERATION	POSITION OF SHUT-OFF VALVES														O OPEN
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	
OPERATION WITH PUMP 1 AND / OR 2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
RUDDER LOCKING	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○
DAMAGE ON PRESSURE LINE 1, 2	○	○	○	○	●	●	●	●	○	○	○	○	○	○	○
DAMAGE ON PRESSURE LINE 3, 4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DAMAGE ON HYD. POWER UNIT 1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DAMAGE ON HYD. POWER UNIT 2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DAMAGE ON CYLINDER 1 (C1)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DAMAGE ON CYLINDER 2 (C2)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
OPERATION WITH HAND PUMP	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
IDLE MOTION (BY-PASS)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	● SHUT



SEAMLESS STEEL PIPES : 16x2, MATERIAL ST 37.4
FLEXIBLE HOSES : SAE 100R2A DIN EN 853 SIZE 1/2"

Date	21.03.2025	Project Name		DSSG_2x1500_35°_Steering Gear	
	U.SON	Drawing Name	Operation Modes		
Control	U.SON	Revision Description	Item No	Scale	1:12
Approval	U.SON	Material	City	Weight	
Page	3	Rev. Date			
Do not measure from drawing.					A3



PLACE	PART NO	DEFINITION	QTY.	MATERIAL
1	601051.000014	DRP20.095.C4802SN-18		
2	4159010200004	LOCK NUT (M12x1.5x7) (UNI 5589)	1	STEEL
3	AP20.200.130	LOCKING WASHER	1	STEEL
4	R1005.005	WOODRUFF KEY (3.2x6.35x15.87)	1	STEEL
5	R1008.020	INTERNAL CIRCLIP (30x1.2)	1	STEEL
6	APM20.200.060	AUXILIARY METAL RING	1	STEEL
7	40838	SHAFT SEAL (18x30x6) (NBR)	1	NBR
8	AP20.200.3108	FRONT COVER	1	CAST IRON
9	AP20.200.025	DU BEARING	4	STEEL
10	AP20.200.365	BACK UP SEAL	2	NBR
11	AP20.020.1800	BUSH LOBE SEAL BUSHING	2	ALUMINIUM
12	AP20.095.005	DRIVE GEAR	1	STEEL
13	AP20.095.006	DRIVE GEAR	1	STEEL
14	AP20.200.017	O-RING (63.17x2.62) (NBR)	2	NBR
15	AP30.300.035	FIXING PIN (5x3.8)	4	STEEL
16	DRP20.095.002-02	CAST IRON BODY (HOLE TYPE 02)	1	CAST IRON
17	R1016.024	PLASTIC PLUG (Ø21.5)	1	PLASTIC
18	R1016.014	PLASTIC PLUG (Ø13.9)	1	PLASTIC
19	AP20.200.010	BACK COVER	1	CAST IRON
20	R1012.107 P	SPRING WASHER (M10)	4	STEEL
21	AP20.095.027.5	HEXAGON NUT 30.7 (M10x1.5 - 10.9)		

CAD DRAW		P PUMP ASSEMBLY		1/1 1/2 1/3 1/4 1/5 1/6 1/7 1/8 1/9 1/10 1/11 1/12 1/13 1/14 1/15 1/16 1/17 1/18 1/19 1/20 1/21 1/22 1/23 1/24 1/25 1/26 1/27 1/28 1/29 1/30 1/31 1/32 1/33 1/34 1/35 1/36 1/37 1/38 1/39 1/40 1/41 1/42 1/43 1/44 1/45 1/46 1/47 1/48 1/49 1/50 1/51 1/52 1/53 1/54 1/55 1/56 1/57 1/58 1/59 1/60 1/61 1/62 1/63 1/64 1/65 1/66 1/67 1/68 1/69 1/70 1/71 1/72 1/73 1/74 1/75 1/76 1/77 1/78 1/79 1/80 1/81 1/82 1/83 1/84 1/85 1/86 1/87 1/88 1/89 1/90 1/91 1/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100 1/101 1/102 1/103 1/104 1/105 1/106 1/107 1/108 1/109 1/110 1/111 1/112 1/113 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/121 1/122 1/123 1/124 1/125 1/126 1/127 1/128 1/129 1/130 1/131 1/132 1/133 1/134 1/135 1/136 1/137 1/138 1/139 1/140 1/141 1/142 1/143 1/144 1/145 1/146 1/147 1/148 1/149 1/150 1/151 1/152 1/153 1/154 1/155 1/156 1/157 1/158 1/159 1/160 1/161 1/162 1/163 1/164 1/165 1/166 1/167 1/168 1/169 1/170 1/171 1/172 1/173 1/174 1/175 1/176 1/177 1/178 1/179 1/180 1/181 1/182 1/183 1/184 1/185 1/186 1/187 1/188 1/189 1/190 1/191 1/192 1/193 1/194 1/195 1/196 1/197 1/198 1/199 1/200 1/201 1/202 1/203 1/204 1/205 1/206 1/207 1/208 1/209 1/210 1/211 1/212 1/213 1/214 1/215 1/216 1/217 1/218 1/219 1/220 1/221 1/222 1/223 1/224 1/225 1/226 1/227 1/228 1/229 1/230 1/231 1/232 1/233 1/234 1/235 1/236 1/237 1/238 1/239 1/240 1/241 1/242 1/243 1/244 1/245 1/246 1/247 1/248 1/249 1/250 1/251 1/252 1/253 1/254 1/255 1/256 1/257 1/258 1/259 1/260 1/261 1/262 1/263 1/264 1/265 1/266 1/267 1/268 1/269 1/270 1/271 1/272 1/273 1/274 1/275 1/276 1/277 1/278 1/279 1/280 1/281 1/282 1/283 1/284 1/285 1/286 1/287 1/288 1/289 1/290 1/291 1/292 1/293 1/294 1/295 1/296 1/297 1/298 1/299 1/300 1/301 1/302 1/303 1/304 1/305 1/306 1/307 1/308 1/309 1/310 1/311 1/312 1/313 1/314 1/315 1/316 1/317 1/318 1/319 1/320 1/321 1/322 1/323 1/324 1/325 1/326 1/327 1/328 1/329 1/330 1/331 1/332 1/333 1/334 1/335 1/336 1/337 1/338 1/339 1/340 1/341 1/342 1/343 1/344 1/345 1/346 1/347 1/348 1/349 1/350 1/351 1/352 1/353 1/354 1/355 1/356 1/357 1/358 1/359 1/360 1/361 1/362 1/363 1/364 1/365 1/366 1/367 1/368 1/369 1/370 1/371 1/372 1/373 1/374 1/375 1/376 1/377 1/378 1/379 1/380 1/381 1/382 1/383 1/384 1/385 1/386 1/387 1/388 1/389 1/390 1/391 1/392 1/393 1/394 1/395 1/396 1/397 1/398 1/399 1/400 1/401 1/402 1/403 1/404 1/405 1/406 1/407 1/408 1/409 1/410 1/411 1/412 1/413 1/414 1/415 1/416 1/417 1/418 1/419 1/420 1/421 1/422 1/423 1/424 1/425 1/426 1/427 1/428 1/429 1/430 1/431 1/432 1/433 1/434 1/435 1/436 1/437 1/438 1/439 1/440 1/441 1/442 1/443 1/444 1/445 1/446 1/447 1/448 1/449 1/450 1/451 1/452 1/453 1/454 1/455 1/456 1/457 1/458 1/459 1/460 1/461 1/462 1/463 1/464 1/465 1/466 1/467 1/468 1/469 1/470 1/471 1/472 1/473 1/474 1/475 1/476 1/477 1/478 1/479 1/480 1/481 1/482 1/483 1/484 1/485 1/486 1/487 1/488 1/489 1/490 1/491 1/492 1/493 1/494 1/495 1/496 1/497 1/498 1/499 1/500 1/501 1/502 1/503 1/504 1/505 1/506 1/507 1/508 1/509 1/510 1/511 1/512 1/513 1/514 1/515 1/516 1/517 1/518 1/519 1/520 1/521 1/522 1/523 1/524 1/525 1/526 1/527 1/528 1/529 1/530 1/531 1/532 1/533 1/534 1/535 1/536 1/537 1/538 1/539 1/540 1/541 1/542 1/543 1/544 1/545 1/546 1/547 1/548 1/549 1/550 1/551 1/552 1/553 1/554 1/555 1/556 1/557 1/558 1/559 1/560 1/561 1/562 1/563 1/564 1/565 1/566 1/567 1/568 1/569 1/570 1/571 1/572 1/573 1/574 1/575 1/576 1/577 1/578 1/579 1/580 1/581 1/582 1/583 1/584 1/585 1/586 1/587 1/588 1/589 1/590 1/591 1/592 1/5	
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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 organization) or as direct by the organization immediately on receipt of demand from
the said , organization in writing , in the event be tenderer fail to perform the tender , it is expressly
understood that the organization 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



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

