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**TENDER SPECIFICATION OF HYDRAULIC CYLINDER REPAIR BENCH FOR ICE SHOP  
(BN DOCKYARD CHATTOGRAM AND BN DOCKYARD MONGLA)**

1. **Name of the Equipment.** Hydraulic Cylinder Repair Bench.
2. **Purpose.** Hydraulic Cylinder Repair Benches will be used for repair and maintenance work (disassembly & assembly) of hydraulic cylinders used in various hydraulic systems of BN ships and establishments. These Benches will be installed in two different locations (BN Dockyard Chattogram and BN Dockyard Mongla)
3. **Quantity.** 2 (Two).
4. **Manufacturer, Principal Supplier & Local Supplier.** Names and full addresses are to be mentioned in the following table.

Ser	Description	Remarks
a.	Brand/Manufacturer	To be mentioned
b.	Principal Supplier	To be mentioned
c.	Local Supplier	To be mentioned

5. **Year of Manufacture.** 2024 or later. The Item should be brand new and original.
6. **Manufacturing Country.** USA, UK, EU Countries, Canada, Japan, Australia, South Korea, Turkey and New Zealand.
7. **Country of Origin.** Same as the Country of Origin.
8. **Certificate/Document of Authentication.** The local supplier must provide the following original certificate(s)/ document(s) with the offer/quotation of items as regard to the genuinity of the source and item(s) to establish a chain of links from the source to supply:
  - a. One certificate/ document from the manufacturer in favour of the supplier (in the case of the manufacturer as the direct source).
  - b. Two certificates/ documents, one from the manufacturer to the authorised agent and the other from the authorised agent to the supplier (in case the authorised agent is the immediate source).
  - c. Three certificates/ documents, first one by the manufacturer to the authorised agent, second one by the authorised agent to the sub-agent and third one by the sub-agent to the supplier (in case of the sub-agent as immediate source). If the supplier cannot obtain the first certificate (by the manufacturer to an authorised agent), then relevant documents must be produced to prove the agency-ship of its claimed agent of the recognised manufacturer.
9. **Standard.** The Hydraulic Cylinder Repair Benches are to be designed and constructed according to International standards. The standard to which the quoted Hydraulic cylinder repair bench complies is to be specified in detail (ISO/ASTM or any other equivalent global standard).



10. Ambient Condition.

Ser	Description	Remarks
a.	Air Temperature	5°C to 45°C
b.	Relative Humidity (RH)	Up to 95%
c.	Location	Close to the seashore or hilly area

11. Scope of Supply. The scope of supply is to include the following:

- a. 02 x Hydraulic Cylinder Repair Bench, with all items necessary for immediate operation without the requirement of any other items (attachments, accessories, consumables, etc)) (as per paragraphs 12 to 14).
- b. Standard and Special Tools (as per paragraphs 15 and 16).
- c. Optional items (as per paragraph 17).
- d. Spare parts (as per paragraph 18).
- e. Documents (user manual, maintenance manual, spare parts catalogue, drawings, etc, as applicable) and Certificates (as per paragraphs 19 and 20).
- f. Installation, Test/ Trial and Acceptance (as per paragraph 21).
- g. Training (as per paragraph 22).
- h. Pre-shipment Inspection (PSI) and Factory Acceptance Test (FAT) (as per paragraph 23).
- j. Warranty and Guarantee (as per paragraphs 24 and 25).
- k. Any other relevant issues (if any).

12. Technical and Operational Data. Detail technical and operational data of the Hydraulic Cylinder Repair Bench are to be provided as follows:

Ser	Description	
a.	Type	Hydraulic cylinder repair bench
b.	Model	To be mentioned
c.	Brand	To be mentioned
d.	Max. Cylinder Weight	To be mentioned
e.	Max. Cylinder Diameter	600-650 mm
f.	Max. Cylinder Length	3 m (The bench should be capable of providing working facility with cylinder in fully retracted condition)
g.	Max. Rod Eye Width	To be mentioned
h.	Piston Extraction Force	To be mentioned
j.	Torque Capacity	To be mentioned



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Ser	Description	
<b>Electrical Requirement</b>		
k.	Power Requirement	To be mentioned
l.	Power Supply	380 - 440V, 50 Hz, 3 Phase

13. **Cable.** Electric cables are to be supplied with the main equipment during installation without additional cost.

14. **Standard Accessories and Attachments.** Standard accessories must include all items and accessories essential to operating the Hydraulic Cylinder Repair Bench, whether mentioned in the specification or not. The price of standard accessories is to be included in FOB value. However, an itemised price list of standard accessories is to be provided with the offer for reference value only. Following standard accessories should be included with each bench:

Ser	Accessories Name	Deno	Qty
a.	Torquing Device	No	01
b.	Heavy Cylinder Bench Bed	No	01
c.	Control and testing equipment with data collection kit	No	01
d.	Support Stand	No	01
e.	Adjustable V-Block set Assembly	No	01
f.	Rolling Carriage	No	01
g.	Bearing Slide Carriage	No	01
h.	Brace Stand & Spanner Tool Assembly	No	01
j.	Cylinder assist Assembly	No	01
k.	Large Chain Vise	No	01
l.	Lower-V-Rest	No	01
m.	Square Drive Socket Adapter 1",1.5",2",2.5"	Set	01
n.	Large Hex Plate Holder (151mm to 295mm)	No	01
p.	200 mm Hex Plate	No	01
q.	220 mm Hex Plate	No	01
r.	250 mm Hex Plate	No	01
s.	295 mm Hex Plate	No	01

15. **Standard Tools.** 02 (two) sets of standard tools for maintenance of the Hydraulic Cylinder Repair Bench are to be provided. The price of standard tools is to be included in the FOB value. However, an itemised price list of standard tools is to be provided with the offer for reference value only.

16. **Special Tools.** A recommended list of special tools required for maintaining the Hydraulic Cylinder Repair Bench is to be submitted with the quotation indicating the itemised price. That price will be added to the total price while evaluating the comparative price of the suppliers.



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17. **Optional Items.** The quotation should include a list of optional items (if any) required to operate Hydraulic Cylinder Repair. When evaluating the comparative prices of the suppliers, only the prices of selected items by BN will be added to the total price.

18. **Spare Parts.** A recommended list of spare parts required for 05 years of satisfactory operation must be provided, indicating the itemised price. Only the prices of selected items by BN will be added to the total price while evaluating the comparative price of the suppliers.

19. **Documents.** 2 (two) sets of the following documents in English are to be supplied with each Hydraulic Cylinder Repair Bench (free of cost):

- a. The instruction manual includes technical specifications, installation, operation, and maintenance.
- b. Spare parts catalogue and its components.
- c. Factory test certificate/performance certificate.

20. **Quality Assurance Certificate.** Quality Assurance Certificate in respect of the associated equipment regarding its manufacturing and performance is to be provided at the time of delivery of the items.

21. **Installation, Test, Trial, and Acceptance.** The buyer will carry out installation, tests, and trials of the item at BN Dockyard Chattogram and BN Dockyard Mongla in the presence of the supplier's representative. After a satisfactory test and trial, an acceptance certificate will be signed jointly by the supplier's representative and the buyer's representative.

22. **Training.** The supplier's/manufacture's installation engineer will provide operation and maintenance training in Bangladesh to the operators for 5 (five) days after the Hydraulic Cylinder Repair Bench is tested, trialled, and commissioned. The bidder will quote the cost of training separately in their financial offer. The supplier will bear the costs of the trainers' air ticket, internal transportation, accommodation, food, medical support, etc.

23. **Pre-Shipment Inspection (PSI) and Factory Acceptance Test (FAT).**

a. Pre-shipment Inspection (PSI) and Factory Acceptance Test (FAT) will be carried out by 2 (two) BN officers for 3 (three) days, excluding the journey period, at the buyer's expense. The supplier should inform the buyer about the date, schedule, and procedure of PSI and FAT at least 8 (eight) weeks before the commencement of the said PSI and FAT. After inspection, a joint inspection report will be prepared and signed by both the seller and buyer's representatives.

b. On return from the country of supplier, the BN officers will submit a report to DNE. DNE, through DTS, will, in turn, forward the final decision along with the PSI and FAT report within 2 (two) weeks, based on which DGDP will render clearance for the shipment of stores to the supplier concerned. The supplier will not ship any item of the contract without clearance from the DGDP.

c. All types of movement/ transportation (air, sea, road, rail) of the BN officer within the manufacturer/ supplier's country, reception and arrangement for entry into the country/ concerned area for the PSI and FAT are to be borne by the supplier.



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24. **Warranty.** The principal/manufacture will give a warranty for trouble-free operation for at least one year from the date of acceptance by the buyer. If any Hydraulic Cylinder Repair Bench remains non-operational during the warranty period due to any action pending by the supplier, the warranty will be extended for the same period. The warranty covers all parts and labour (including the cost of the service engineer) throughout the warranty period.

25. **Guarantee.** The manufacturer will guarantee to supply the spare parts for at least 5 (five) years at a reasonable price. The annual increase in the price of spares should not be more than 5% of the price list provided with the quotation.

26. **Shipment.**

a. The supplier will arrange the shipment of all items by sea to Chittagong Port, Bangladesh.

b. All items are to be delivered in sea-worthy packing to ensure safe transportation by sea.

c. All packages must have detailed packing notes showing their contents, and they must be marked with the consignee's name, address, and gross weight.

d. The supplier will arrange transportation of all supplied items from Chittagong port to the NSD Chattogram.

e. **Port of Shipment.** Any port of the manufacturing country. In case of shipment through any port of the manufacturer's authorised dealer, the relevant manufacturer's certificate is to be provided as proof of the genuineness of the offered item.

27. **Delivery.**

a. The items are to be delivered within 9 (Nine) months from the date of signing the contract to the following consignee:

The Commanding Officer  
NSD Chattogram  
New Mooring, Chattogram, Bangladesh

b. **Place of Delivery.** NSD Chattogram.

c. The supplier will carry the items from Chittagong Port to NSD Chattogram at the cost and risk of the supplier.

28. **Validity of Offer.** The offer should remain valid till 180 days from the date of tender opening.

29. **Currency.** Foreign Currency.

30. **Terms of Payment.** L/C for the total purchase amount will be opened in favour of the principal supplier under the following payment terms:

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



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b. The remaining 20% of the CFR value will be paid upon producing an 'Acceptance Certificate' after satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.

31. Condition for Acceptance of Quotation. The quotation has to have supporting documents (booklets, leaflets, catalogues, brochures, etc.) with details about the Hydraulic Cylinder Repair Bench. The quotation will not be accepted if detailed information regarding specifications, maker's books and catalogue for the quoted model of the Hydraulic Cylinder Repair Bench, spare parts, accessories, scope of supply, etc, are not provided.

32. Compliance Statement. A compliance statement fulfilling all the tender requirements is to be submitted with the offer to evaluate the quotations. Merely stating 'Yes' or 'No' will not suffice; rather, detailed descriptions/information as required are to be provided. An incomplete compliance statement may contribute to the cancellation of the offer. If any clause of this specification is not commensurate with the offered Hydraulic Cylinder Repair Bench, the deviation must be spelt out clearly.

