

**TENDER SPECIFICATION OF HEAVY-DUTY DIESEL SIDE LOADER FORKLIFT (CAPACITY: 05 TONS)
FOR CSD**

1. **Name of the Equipment** Heavy Duty Diesel Side Loader Forklift (Capacity: 05 ton).
2. **Purpose.** The Heavy-Duty Diesel Side Loader Forklift will be used to carry loads on the side of the vehicle, which the regular counterbalance Forklift cannot lift. It specialises in handling lengthy loads such as propeller shafts, missile storage containers, missile launchers, timber, MS plates, etc. The lifter is to be designed to work in narrow spaces. Since the loads are carried on the side of the lifter, the driver should have the advantage of a clear view on the front side and at the back.
3. **Quantity.** 1 (One).
4. **Manufacturer, Principal Supplier & Local Supplier.** Name and full address are to be mentioned.

Ser	Description	Remarks
a.	Manufacturer	Hyundai/TCM/Toyota
b.	Principal Supplier	To be mentioned
c.	Local Supplier	To be mentioned

5. **Year of the Manufacture.** 2024 or later. The item should be brand new and original.
6. **Country of Origin.** South Korea and Japan.
7. **Manufacturing Country.** Same as 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 is unable to obtain the first certificate (by the manufacturer to an authorised agent), then relevant documents to prove the agency-ship of its claimed agent of the recognised manufacturer need to be produced.
9. **Standard.** The Heavy-Duty Diesel Side Loader Forklift will be designed and constructed according to international standards. The standard to which the quoted side loader forklift complies is to be specified in detail (ISO/OSHA/ANSI/CEN or any other equivalent global standard).



10. **Safety Rules.** The safety rules to which the Heavy-Duty Diesel Side Loader Forklift conforms must be specified. The safety devices fitted with the offered side loader forklift are to be mentioned separately, showing technical details.

11. **Ambient Condition.**

Ser	Description	Remarks
a.	Temperature	5°C to 45°C.
b.	Relative humidity	Up to 95%
c.	Location	Close to the seashore

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

- a. 1 x Heavy-Duty Diesel Side Loader Forklift with all items necessary for immediate operation without requiring any other items (attachments, accessories, consumables, etc) (as per paragraphs 13, 14 and 15).
- b. Optional items (as per paragraph 16).
- c. Tools (as per paragraph 17).
- d. Spare parts (as per paragraph 18).
- e. Test, Trial, and Acceptance (as per paragraphs 19 and 20).
- f. Pre-Shipment Inspection (PSI) and Factory Acceptance Test (FAT) (as per paragraph 21).
- g. Documents (instruction manual, workshop level repair manual, parts catalogue, factory test certificate, etc., as applicable) (as per paragraph 22).
- h. Warranty and Guarantee (as per paragraphs 23 and 24).
- j. Any other issue relevant (if any).


13. **Technical Specification.**

Serial	Description	
a.	General.	
(1)	Type	Heavy-Duty Diesel Side Loader Forklift with fabricated steel chassis
(2)	Model	To be mentioned
(3)	Maker	To be mentioned
(4)	Lifting Capacity	Not less than 05 tons (without any attachment/ Side Shifter)
(5)	Outside turning radius	4350-4885 mm
(6)	Inside turning radius	580-785 mm
(7)	Front turning radius	To be mentioned
(8)	Load Centre	To be mentioned

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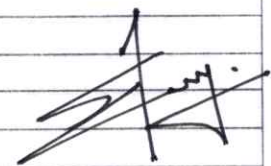
Serial	Description	
	(10) Operator position	To be mentioned
	(11) Clutch	To be mentioned
	(12) Operator's room	Open type with head guard for safety and with all-around visibility. Details to be specified.
	(13) Operating pressure for attachment	To be mentioned
b.	Mast.	
	(1) Type	To be mentioned
	(2) Height of lift	Not less than 4000 mm
	(3) Free lift	To be mentioned
	(4) Closed/Lowered Height	To be mentioned
	(5) Extended height	To be mentioned
c.	Transmission.	
	(1) Type/Model/Make	To be mentioned
	(2) Type of Gear Shifting	To be mentioned
	(3) Number of Gears Fwd/Rev	To be mentioned
d.	Drive Axle.	
	(1) Type	To be mentioned
	(2) Max Loading	To be mentioned
e.	Suspension.	
	(1) Front/ Rear	Aries, frame, dampers and anti-roll mechanism to assure safe turning and operation. Details to be specified
f.	Brake System.	
	(1) Main Brake	Hydraulic, service brake with foot brake or any suitable means. Details to be specified.
	(2) Parking Brake	To be mentioned
	(3) Emergency Brake	To be mentioned
g.	Steering.	
		Power steering. Details to be specified.
h.	Chassis.	
	(1) Height	To be mentioned
	(2) Material	To be mentioned
j.	Fork and Fork Size	
	(1) Operation	Hydraulic
	(2) Fork rotation	To be mentioned
	(3) Length	1200-1400 mm
	(4) Width	200 mm
	(5) Thickness	To be mentioned
	(6) Fork spread (open position)	To be mentioned
	(7) Expended forward reach	To be mentioned
k.	Engine.	
	(1) Type	4 stroke diesel engine
	(2) Model	To be mentioned
	(3) Country of origin	To be mentioned (as per para 6)
	(4) Country of manufacturer	To be mentioned (as per para 6)

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Serial	Description	
	(5) Maximum Power (kW)	To be mentioned (should meet the requirement of lifting capacity of 05 tons)
	(6) Continuous Power (kW)	To be mentioned
	(7) Compression ratio	To be mentioned
	(8) Maximum RPM	To be mentioned
	(9) Stroke/Bore	To be mentioned
	(10) Number of Cylinder	To be mentioned
	(11) Fuel Grade	HSD
	(12) Fuel Consumption rate	To be mentioned
	(13) Lub Oil	Commercial and equivalent grade (if any) should be easily available in local market of Bangladesh. Grade and consumption rate to be mentioned.
	(14) Starting System	Engine is to be started by battery. The engine is to be fitted with self-starter and dynamo for battery charging. Required number of batteries with appropriate capacity is to be provided.
l.	Control System	Single-lever hydraulic controls integrated with the engine. Detailed to be specified.
m.	Hydraulic equipment	Detailed to be specified
n.	Instrument/ Control Panel. All necessary control/ monitoring instruments are to be supplied, and details are to be specified, including the following:	
	(1) Hour Meter.	
	(2) Oil Temperature Gauge.	
	(3) Engine Coolant Temperature Gauge.	
	(4) Fuel Gauge.	
	(5) Change Light.	
	(6) Oil Pressure Light.	
	(7) Parking Brake Light.	
	(8) Fuel Warning Light.	
	(9) Battery Electrolyte Level Warning Light.	
	(10) Radiator Coolant Warning Light.	
p.	Driver Cab	Detailed to be specified
q.	Tyre	Pneumatic. Size and life to be specified
r.	Drive Wheels	To be mentioned
s.	Counterweight	To be mentioned
t.	Painting	Standard colour. Detailed to be specified.
u.	Overall Dimension	
	(1) Length (without Fork)	To be mentioned
	(2) Length (with Fork)	To be mentioned
	(3) Width	To be mentioned
	(4) Overhead Guard Height	To be mentioned
	(5) Max fork Height	To be mentioned
	(6) Wheel Base	To be mentioned
	(7) Under clearance	To be mentioned
	(8) Turning Radius	To be mentioned



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Serial	Description
v.	Performance.
(1)	Driving Speed (Fwd/Bwd) To be mentioned
(2)	Travel Speed (with/without load) To be mentioned
(3)	Lifting Speed (with/without load) To be mentioned
(4)	Lowering Speed (with/without load) To be mentioned
(5)	Climbing Performance/Gradeability (with/without load) To be mentioned
(6)	Max Drawbar pull (with/without load) To be mentioned
w.	Forklift Weight To be mentioned
x.	Towing hook A towing hook is to be provided with the fork

14. **Fittings/ Attachment.** All necessary fittings/attachments are to be provided with the Side loader forklift.

15. **Standard Accessories.** Standard accessories must include all items and accessories essential for operating a Heavy-Duty Diesel Side Loader Forklift, whether mentioned in the specification or not. The price of standard accessories is to be included in the FOB value. However, an itemised price list of standard accessories is to be provided with the offer for reference value only.

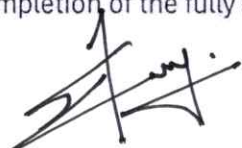
16. **Optional Items.** A list of optional items (if any) for the Side Loader Forklift is to be mentioned, indicating the itemised price. Technical details of the item should be given in the offer. Only the prices of selected items by BN will be added to the total price while evaluating the comparative prices of the suppliers.

17. **Tools.** 1(one) set of standard tools for Heavy-Duty Diesel Side Loader Forklift maintenance is to be provided, indicating an itemised price. The quantity and size of the tools are to be mentioned in the quotation. The price will be added to the total cost while evaluating the comparative price of the suppliers.

18. **Spare Parts.** A recommended list of spare parts required for 5(five) 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. **Test/ Trial.** Test/ trial will be carried out in Chattogram by the buyer in the presence of the supplier's representative. A test/ trial certificate will be signed jointly by the representative of the supplier and buyer upon completion of the satisfactory test/ trial of the Heavy-Duty Diesel Forklift, and the certificate is to be forwarded to the Chief Inspector of Naval Stores (CINS) office.

20. **Acceptance.** Acceptance will be considered upon completion of the fully endorsed joint test/ trial certificate (as per paragraph 19).


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21. **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 date of 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 officer will submit a report to the 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 only ship contract item with clearance from the Directorate General Defence Purchase.
- c. The supplier must arrange all types of movement/ transportation (air, sea, road, rail) of the BN officer within the manufacturer/ supplier's country, reception, and entry into the country/ concerned area for the PSI and FAT without any extra cost.

22. **Documents.** 2(two) sets of the following documents in English are to be provided with the Side Loader Forklift (free of cost):

a.	Instruction Manual. It should contain the following:
	(1) Detailed particulars and specifications of the Side Loader Forklift and their components.
	(2) Operation and safety instruction.
	(3) Maintenance instructions, including maintenance schedule for the Heavy-Duty Diesel Side Loader Forklift & its accessories.
b.	Workshop-level repair manual.
c.	Parts Catalogue and Parts Identification List with internationally recognised Part No.
d.	Factory test certificate.

23. **Warranty.** The principal/manufacturer will give a warranty for trouble-free operation for at least one year from the date of acceptance by the buyer. During the warranty period, the warranty will be extended for the same period if the Heavy-Duty Diesel Side Loader Forklift remains non-operational due to any action pending by the supplier. The warranty covers all parts and labour (including the cost of the service engineer) throughout the warranty period.

24. **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.

25. **Shipment.**

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



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- 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.

26. **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
Naval Stores Depot 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.

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

28. **Currency.** Foreign Currency.

29. **Terms of Payment.** L/C for full 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.
- b. The remaining 20% of the CFR value will be paid upon producing an 'Acceptance Certificate' after a satisfactory test and trial jointly carried out by the buyer's and supplier's representatives.

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

31. **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



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compliance statement may contribute to the cancellation of the offer. If any clause of this specification is not commensurate with the offered Side Loader Forklift, the deviation must be spelt out clearly.



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