

TENDER SPECIFICATION OF EXCAVATOR FOR BNS SHER-E-BANGLA (CAPACITY- 2M³)

1. **Name of the Equipment.** Excavator (Capacity- 2m³).
2. **Purpose.** The Excavator will be used for digging, demolishing structures and surfaces, carrying out trenching, and lifting heavy objects in the Naval Base.
3. **Quantity.** 1 (one).
4. **Manufacturer, Principal Supplier & Local Supplier.** Name and full address are to be mentioned.

Ser	Description	Remarks
a.	Manufacturer	To be mentioned
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.** USA, UK, EU Countries, Canada, Japan, Australia, South Korea, Turkey and New Zealand.
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 regards to the genuineness of the source and item(s) to establish a chain of links from the original 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 Excavator is to be designed and constructed to fulfill the requirements of international standards (ISO/ASME/any other globally recognised standard).
10. **Safety Rules.** The safety rules to which the Excavator conforms are to be clearly specified in detail. The safety devices fitted with the offered Excavator are to be mentioned separately, showing technical details.



11. **Ambient Condition.**

Ser	Description	Remarks
a.	Temperature	5°C -50°C
b.	Relative Humidity	Up to 98% (non-condensing)
c.	Location	Close to the seashore area in Bangladesh

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

- a. 1(০১৫) x Excavator, with all items necessary for immediate operation without the requirement of any other items (attachments, accessories, consumables, etc)) (as per paragraphs 13 and 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. 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).

13. **Technical Specification.**

Ser	Description											
a.	Type	Standard Hydraulic Excavator										
b.	Model	To be mentioned										
c.	Capacity	Minimum 2 cubic meter (Bucket)										
d.	Dimension	<table border="1"> <tbody> <tr> <td>Machine Height</td> <td rowspan="9">To be mentioned</td> </tr> <tr> <td>Machine Length</td> </tr> <tr> <td>Upper frame Width without Walkway</td> </tr> <tr> <td>Tail Swing Radius</td> </tr> <tr> <td>Counterweight Clearance</td> </tr> <tr> <td>Ground Clearance</td> </tr> <tr> <td>Length to Center of Rollers</td> </tr> <tr> <td>Track Length</td> </tr> <tr> <td>Track Gauge</td> </tr> </tbody> </table>	Machine Height	To be mentioned	Machine Length	Upper frame Width without Walkway	Tail Swing Radius	Counterweight Clearance	Ground Clearance	Length to Center of Rollers	Track Length	Track Gauge
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Ser	Description		
		Undercarriage Width	
		Bucket Type	
		Bucket Capacity	
		Boom	
		Stick	
e.	Weight	Operating Weight	To be mentioned
		Counterweight	
f.	Engine	Net power	To be mentioned
		Engine Model	
		Engine Power	
		Bore	
		Stroke	
		Displacement	
g.	Hydraulic System	Main System- max flow	To be mentioned
		Maximum Pressure- equipment	
		Maximum pressure - Equipment- lift mode	
		Maximum Pressure-travel	
		Maximum Pressure-swing	
h.	Swing Mechanism	Swing Speed	To be mentioned
		Maximum Swing Torque	
j.	Service Refill Capacity	Fuel Tank Capacity	To be mentioned
		Cooling System	
		Engine Oil	
		Swing Drive	
		Final Drive - each	
		Hydraulic System	
		DEF Tank	
k.	Working Ranges & Force	Maximum Digging Depth	To be mentioned (not less than 24 ft)
		Maximum reach at ground Level	To be mentioned
		Maximum Cutting Height	To be mentioned (not less than 33 ft)
		Maximum Loading Height	To be mentioned (not less than 23 ft)
		Minimum Loading Height	To be mentioned (not less than 7.5 ft)
		Maximum Depth Cut	To be mentioned (not less than 23 ft)
		Maximum Vertical wall digging Depth	To be mentioned (not less than 20 ft)
		Bucket Digging Force	To be mentioned
		Stick Digging Force	
l.	Fuel Grade	Diesel Oil	

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Directorate General Defence Purchase

14. **Standard Accessories.** Standard accessories must include all items and accessories essential to operating the Excavator, 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. The following standard accessories should be included with the item:

a. **Cab**

- (1) Brakes ISO 10265:2008
- (2) Cab/ Rops ISO 12117-2:2008
- (3) High Resolution 254 mm LCD Touchscreen monitor.
- (4) Tilt-Up left side console.
- (5) Heated seat with air-adjustable suspension.
- (6) 51 mm seat belt.
- (7) 12V DC outlets.
- (8) Documents Storage.
- (9) LED dome light.
- (10) Floor welcome light.
- (11) Roller front sunscreen.
- (12) Roller rear sunscreen.
- (13) Rear Window emergency exit.
- (14) Washable floor mat.

b. **Engine**

- (1) Three selectable modes: Power, smart, Eco
- (2) Automatic Engine Control.
- (3) Automatic Engine Idle-Shutdown

c. **Electrical System**

- (1) Maintenance free 1,000CCA batteries (x2)
- (2) LED Chassis light, LH & RH boom lights, cab lights

15. **Standard Tools.** 1 (One) set of standard tools for maintenance of the Excavator is 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 Excavator 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.

17. **Optional Items.** The quotation should include a list of optional items (if any) required to operate the Excavator. 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 prices of the suppliers.

Ser	Description	Qty
a.	Buckets	01
b.	Grapples	01
c.	Hydraulic Hammer	01

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Ser	Description	Qty
d.	Quick Couples	01
e.	Secondary Pulverizers	01

19. **Documents.** 2 (two) sets of the following documents in English are to be supplied with Excavator (free of cost):

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

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

21. **Test, Trial, and Acceptance.** The buyer will conduct tests and trials of the item at Chattogram 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 and buyer's representatives.

22. **Training.** The supplier's/manufacturer's installation engineer will provide operation and maintenance training in Bangladesh to the operators for 5 (five) days after the Excavator is tested, trialled, and commissioned. The bidder will quote the cost of training separately in their financial offer. The supplier will bear the trainers' air ticket cost, 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 prior to 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.

24. **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. If the Battery-Operated Excavator 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.



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25. **Guarantee.** The manufacturer will guarantee the spare parts supply 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 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 goods 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.

31. **Condition for Acceptance of Quotation.** The quotation has to have supporting documents (booklets, leaflets, catalogues, brochures, etc.) with details about the Excavator. The quotation will not be accepted if detailed information regarding specifications, maker's books and catalogue for the quoted model of the Excavator, 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 Excavator, the deviation must be spelt out clearly.



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