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TENDER SPECIFICATION OF BACKHOE LOADER (CAPACITY 3 TON) FOR BNS BHATIARY

1. **Name of the Equipment.** Backhoe Loader.
2. **Purpose.** The Backhoe Loader will be used to remove landslide soil.
3. **Quantity.** 1 (one).
4. **Manufacturer, Principal Supplier & Local Agent.** Name and full address are to be mentioned.

a.	Manufacturer	To be mentioned
b.	Principal Supplier	To be mentioned
c.	Local Agent	To be mentioned

5. **Year of the Manufacture.** 2025 or later. The item should be brand new and original.
6. **Country of Origin.** USA, UK, EU Countries, Canada, Japan, Australia, South Korea, Turkey, New Zealand and Brazil.
7. **Manufacturing Country.** Same as the Country of Origin.
8. **Certificate/Document of Authentication.** The local agent must provide the following original certificate(s)/ document(s) with the offer/quotation of items as regard 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 favor of the supplier (in the case of the manufacturer as the direct source).

b. Two certificates/ documents, one from the manufacturer to the authorized agent and the other from the authorized agent to the supplier (in case the authorized agent is the immediate source).

c. Three certificates/ documents, first one by the manufacturer to the authorized agent, second one by the authorized 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 authorized agent), then relevant documents to prove the agency-ship of its claimed agent of the recognized manufacturer need to be produced.

9. **Standard.** The Backhoe Loader is to be designed and constructed to fulfill the requirements of international standards (ISO/ASME/any other globally recognized standard).
10. **Safety Rules.** The safety rules to which the Backhoe Loader conforms are to be clearly specified in detail. The safety devices fitted with the offered Backhoe Loader are to be mentioned separately, showing technical details.

11. **Ambient Condition.**

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 x Backhoe Loader, with all items necessary for immediate operation without the requirement of any other items (attachments, accessories, consumables, etc.) (as per paragraphs 13 and 14).



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- b. Spare parts (as per paragraph 15).
- c. Standard and Special Tools (as per paragraphs 16 and 17).
- d. Optional items (as per paragraph 18).
- e. Documents (User Manual, Maintenance Manual, Spare Parts Catalog, 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. 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.** Detail technical and operational data of the Backhoe Loader is to be provided as follows:

a.	Type	Diesel turbocharge engine
b.	Model	To be mentioned
c.	Maker	To be mentioned
d.	Dimension	To be mentioned
e.	Weight	To be mentioned
f.	Engine	
	Type	Diesel, turbocharged engine.
	Model	To be mentioned
	Engine power rating	Minimum 55 kW
	Power	To be mentioned
	Displacement	To be mentioned
	Fuel oil capacity	To be mentioned
	Engine oil capacity	To be mentioned
g.	Loader section	
	Operating capacity (rated load)	Minimum 3000 Kg
	Bucket capacity	(1.0-1.2) m ³
	Maximum dump height	Minimum 2600 mm
	Breakout force	Minimum 55 kN
	Hydraulic system	Load sensing, high-efficiency type with priority steering
h.	Backhoe section	
	Digging depth	Minimum 4200 mm
	Reach from swing center	Minimum 5300 mm
	Bucket capacity	Minimum 0.3 m ³
	Bucket digging force	Not less than 56 kN
	Swing arc	Minimum 180°
j.	Transmission & Drive	
	Transmission	Full powershift or synchronized shuttle shift
	Drive	4 -wheel drive (4WD)
	Maximum travel speed	Minimum 35 km/hr
k.	Axles & Brakes	
	Heavy duty front and rear axles, suitable for off-road operation	
	Brake	Hydraulic, power-assisted, we multi-disc type
	Parking brake	Independent and mechanically actuated

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l.	Tyres	
	Standard industrial duty tyres suitable for rough terrain operation	To be mentioned
	Spare wheel & tyre	To be mentioned
m.	Operator's cabin	
	ROPS & FOPS certified fully enclosed cabin with all round visibility	To be mentioned
	Adjustable operator's seat with suspension	To be mentioned
	Air conditioning & heating system	To be mentioned
	Ergonomic control levers and instrumentation panel with indicators (fuel, temperature, hydraulic pressure, etc.)	To be mentioned
n.	Electrical system	
	Battery	Heavy duty, 12/24V electrical system
	Lightning	Full working lights beacon, horn, indicator and hazard light
p.	Hydraulic System	
	Implement pump type	To be mentioned
	Maximum pump output	To be mentioned
	Max pressure	To be mentioned
q.	Transmission system	
	Gear	Forward: 04 Reverse: 01
	Braking system	To be mentioned
	Breakout force	To be mentioned
r.	Fuel Grade	Diesel Oil

14. **Standard Accessories.** Standard accessories must include all items and accessories essential for operating the Backhoe Loader, whether mentioned in the specification or not. The price of standard accessories is to be included in the FOB value. However, an itemized price list of standard accessories is to be provided with the offer for reference value only.

15. **Spare Parts.** A recommended list of spare parts required for maintaining the Backhoe Loader is to be submitted with the quotation indicating the itemized price. That price will be added to the total price while evaluating the comparative price of the suppliers.

Ser	Description	Qty
a.	Tie rod	01
b.	Differential gear set	01
c.	Hydraulic cylinder	01
d.	Hydraulic filter	02
e.	Brake cylinder	02
f.	Solenoid valve	02
g.	Hydraulic oil pump	01
h.	Fuel filter, Lub oil filter, Air filter	06



16. **Standard Tools.** 1 (one) set of standard tools for maintenance of the Backhoe Loader is to be provided. The price of standard tools is to be included in the FOB value. However, an itemized price list of standard tools is to be provided with the offer for reference value only.

17. **Special Tools.** A recommended list of special tools required for maintaining the Backhoe Loader is to be submitted with the quotation indicating the itemized price. That price will be added to the total price while evaluating the comparative price of the suppliers.

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

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

- a. The Instruction Manual Includes Technical Specifications, Installation, Operation, and Maintenance.
- b. Spare Parts Catalog 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. **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/manufacture's installation engineer will provide operation and maintenance training in Bangladesh to the operators for 5 (five) days after the Backhoe Loader is tested, trialed, and commissioned. The bidder will quote the cost of training separately in their financial offer. The supplier will bear the cost of the trainers' air ticket, internal transportation, accommodation, food, medical support, etc.

23. **Factory Acceptance Test (FAT).**

a. 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 FAT at least 8 (eight) weeks prior to the commencement of the said 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 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 FAT are to be borne by the supplier.

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 the Backhoe Loader 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 labor (including the cost of the service engineer) throughout the warranty period.



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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 Backhoe Loader, the deviation must be spelled out clearly.


