

Technical Specifications

BACK HOE LOADER

Quantity - 1 Unit

S.N.	CRITERIA		REQUIRED SPECIFICATION	OFFERED SPECIFICATION
1.	General		All Wheel Drive, Heavy Duty Rigid Steel Frame with cab, suitable for operation under rough working condition & Adverse climatic condition at altitude ranging from 80mtr to 2000 mtrs. & ambient temperature varying - 5 ^o to 50 ^o Celsius.	Make: Model: Year of Mfg.: Country of Origin:
2.	Cabin		All steel enclosed cab with laminated glass windscreen insulated roof, suitably located controls for back hoe (excavator) and loader operation, rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided.	
3.	Engine		Turbocharged water cooled Diesel Engine developing Power output in the range of (95±5) HP (engine fully equipped with accessories) at governed RPM and Torque not less than 400 N-m for efficient full load operation of backhoe loader at operating conditions as stated in the bid document. Backhoe loader shall be equipped with heavy duty radiator, direct, electric starting system, heavy duty battery, heavy duty air cleaner and heavy duty fuel filter.	Make: Model: Country of Origin:
4.	Capacity/Size Performance	Loader	Multipurpose (6-in-1, to facilitate dozing, digging, grading, back filing, grabbing and loading application) bucket with capacity nominally heaped minimum 1 cu.m. Operating weight not less than 8000Kg.	
			Maximum bucket breakout force	
			Dump Height (m)	
		Backhoe	Bucket Capacity	
			Bucket tear out force(kgf)	
			Maximum Digging Depth mm	
5.	Dimensions	Overall Length (Transportation Purpose)		At most 6400 mm
		Overall Width (Transportation Purpose)		At most 2450 mm
		Overall Height (Transportation Purpose)		At most 4000 mm
6.	Hydraulic Flow	Maximum total pump flow (Liter per minute).		≥110
7.	Ground Clearance		Minimum 280 mm	
8.	Tyre		Suitable heavy duty four tires with tubes for operating machine in rough road conditions shall be provided.	
9.	Transmission		Torque converter with Power Shift/Shuttle type (At Least 4 Forward & 2 Reverse).	
10.	Axles		Four Wheel Drive with fixed rare axle and Minimum 16 ^o oscillation front axles.(Higher degree of oscillation highly preferred)	
11.	Steering		Power/ Power Assisted	
12.	Brakes		Hydraulic Actuated Disc/Caliper type service Brakes & Separate Parking Brake.	
13.	Gauges & Indicators		To include necessary gauges, meters and indicators for efficient operation & Maintenance.	
14.	Fuel Tank		Minimum 125 litres capacity	
15.	Essential Accessories		1.Road Lights, Side Indicators, Operating Lights for Loader & Backhoe & Fog lights. 2. Cabin lights 3. Fan for operator. 4.Service Hour Meter & 5.MP3/DVD/FM Player 6. A Heavy duty grease gun 7.Tyre pressure Indicator Guage	

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		8. One Extra Backhoe Bucket 18 inch Equipped with all accessories offered in standard model but not limited to the above items.	
16.	Instructions	All signs & Instructions in Equipment shall be in English Language.	
17.	Manuals	One Hard Copy in English of the a. Operator's /Owner's instructions and maintenance manual. b. Spare parts catalogue shall be supplied with the equipment.	
18.	Tools	A set of tools required for general maintenance shall be supplied within a lockable tool box with equipment.	
19.	Color	Standard /Construction yellow	
20.	Initial Service and spare parts	Supplier shall provide necessary filters, Spare parts & Lubricant for first servicing of the backhoe loader at the office premises as per instructed in operation manual.	
21.	Proven performance	1. The machine offered shall be of current model under standard production by the manufacturer for at least one year. 2. The bidder shall provide the manufacturer's data of the performance of the unit to include the fuel Consumption, performance curve of the engine and production capacity of unit.	
22.	Warranty	Manufacturer shall provide minimum 1 years warranty from date of acceptance.	
23.	Delivery	The Backhoe Loader 1 (One) Unit shall be delivered with all necessary accessories to: Office of Bagqamati Gaupalika, Jhurjhure, Makwanpur Bagamati Province .	

Note:

The major items are indicated by bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance of these major items will result in non-responsiveness of the bid offered.

Bidder's Signature..... Date.....



Barun Kumar Sah
Mechanical Engineer
Heavy Equipment Division, Hetauda

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