

Technical Specification

Owner:- Mallarani Rural Municipality, Khalanga (Pyuthan)

Backhoe Loader

Quantity-1 unit

S.N.	CRITERIA		REQUIRED SPECIFICATION		OFFERED SPECIFICATION
1.	General		All/Four Wheel Drive, Heavy Duty Rigid Steel Frame with cab, suitable for operation under rough working condition & Adverse climatic condition of Nepal.		Make: Model: Year of Mfg.: Country of Origin:
			Equipment of make 2022 or onward mandatory		
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 with maximum power output not less than 90 HP and Maximum Torque not less than 350 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 all essentials for efficient performance.		Make: Model: Country of Origin:
4.	Capacity/Size/Performance	Loader	Multipurpose bucket with capacity nominally heaped minimum 0.9 cu.m		BC-
			Maximum Dump Height	Min. 2700 mm	DH-
			Maximum Digging Depth below ground level	≥70 mm	DD-
		Backhoe	Bucket Capacity	Min. 0.27 m ³	BC-
			Maximum Digging Depth	Min. 4800 mm	DD-
			Maximum Load Over Height	Min. 4000 mm	LOH-
			Maximum Working Height	Min. 6000 mm	WH-
			Maximum Reach Ground Level to rear wheel Center	Min. 6800 mm	R-
6.	Hydraulic Flow	Maximum Pump Flow should be minimum 115 lpm Maximum System Pressure should be minimum 220 bar			
8.	Tyre	Suitable heavy duty four tires with tubes for operating machine in rough road conditions shall be provided.			
9.	Transmission	4 speed system with Torque converter			
10.	Axles	Four Wheel Drive/All wheel drive with fixed rear axle and oscillating front axles.			
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.			
15.	Essential Accessories	1. Road Lights, Side Indicators, Operating Lights for Loader & Backhoe & Fog lights. 2. Cabin lights 3. Service Hour Meter & 4. A Heavy duty grease gun 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.			

मेकानिकल इंजिनियर
महेश के.सी.
प्रमुख प्रशासकीय अधिकृत

मल्लरानी गाउँपालिका
कार्यपालिकाको कार्यालय
खलंगा, प्युठान
सुनसरी प्रदेश नेपाल

Mark.c.
महेश के.सी.
प्रमुख प्रशासकीय अधिकृत

18.	Tools	A set of tools required for general maintenance shall be supplied within a lockable tool box with equipment.	
19.	Color	Standard	
20.	Initial Service and spare parts	Supplier shall provide necessary filters, Spare parts & Lubricant for first servicing up at the municipality 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 <u>with all necessary accessories to:</u> Mallarani Rural Municipality Office of the rural municipal executive Khalanga (Pyuthan) Lumbini Province, Nepal	

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 offer.

Bidder's Signature.....

Date

Prepared By:-

Om Bahadur Thapa

Mechanical Engineer

Heavy Equipment Division, Nepalgunj

Signature and Date:

Om Bahadur Thapa

मेकानिकल ईन्जिनियर



Om Bahadur Thapa
महसुस के.सी. र.
प्रमुख प्रशासकीय अधिकृत