

Technical Specification

Owner:-Maharajgunj Municipality, Maharajgunj, Kapilvastu

Backhoe Loader

Quantity-1 unit

S.N	CRITERIA		DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION	
1.	General		All/Four wheel drive, Heavy Duty Rigid Steel frame with cab, suitable for operation under rough working conditions, and adverse climate condition Nepal.	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 With Maximum Power Output not less than 90 HP and minimum Torque not Less than 390 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 c.u.m.	BC-	
			Maximum Dump Height	Min.2700mm	DH-
			Maximum Digging Depth below ground level.	≥100 mm	DD-
		Backhoe	Bucket capacity	Min.0.27m ³	BC-
			Maximum Digging Depth	Min.4800mm	DD-
			Maximum Load over Height	Min.4000mm	LOH-
			Maximum working height	Min.6000mm	WH-
Maximum Reach Ground Level to rear wheel Center	Min.6800mm				
5	Hydraulic Flow		Maximum pumps flow should be minimum 115 IPM Maximum system pressure should be minimum 220bar		
6	Tires		Suitable heavy duty four tires with tubes for operating machine in rough road conditions shall be provided.		
7.	Transmission		4 Speed System with Torque converter		
8.	Axles		Four wheel drive/All Wheel drive with fixed rear axle and oscillating front axles.		
9.	Steering		Power/Power assisted		
10.	Brakes		Hydraulically actuated, disc/caliper type service brakes and separate parking brake.		
11.	Gauges and Indicators		To include Necessary gauges, meters and indicators for efficient operation and maintenance.		
	Essential Accessories		1. Road lights, side indicators, operating Lights for Loader and Backhoe and fog lights		

12.		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.	
13.	Instructions	All signs and instructions in equipment shall be in English Language.	
14.	Manuals	One Hard Copy in English of the a. Operator's/Owner's Instructions and Maintenance manual, a. Spare parts catalogue shall be supplied with the equipments.	
15.	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box with equipment	
16.	Color	Standard	
17.	Initial Service and spare parts	Suppliers should provide necessary filters, spare parts and lubricant for first servicing up at the municipality office premises as per instructed in operation manual.	
18.	Proves Performances	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.	
19.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
20.	Delivery	Backhoe Loader 1(one) Unit shall be delivered with all necessary accessories to: Maharajgunj Municipality Office of Municipal executive Maharajgunj, Kapilvastu Lumbini Province, Nepal	

Note: The major items are indicated by Bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliances of these major items will result in non responsiveness of the bid offer.

Bidders Signature.....

Date.....

Prepared By:-

Binod Chaudhary
Mechanical Engineer
Signature and Date: