

Owner: Mellekh Rural Municipality

Location: SudurpaschimPardesh, Achham

Name of Work: Purchasing of Backhoe Loader

Quantity : One




Technical Specifications Of Backhoe Loader


SN	Criteria	Departmental Requirement	Offered Specification
1	General	All wheel drive, rigid frame backhoe loader with Steel cab, suitable for operation under rough working conditions and adverse climatic condition at operating altitude of 2000 m and ambient temperature varying between -5°C to 50°C.	Make: Model: Country of Origin:
2.	Engine	Water Cooled diesel Engine, developing SAE rated Gross HP not less than 90 HP and Torque not less than 380Nm (engine fully equipped with accessories) at governed RPM for efficient full load operation. Back hoe shall be equipped with heavy duty radiator, cold starting device, direct electric starting system, heavy duty battery, heavy duty air cleaner, heavy duty fuel filter, with water trap and drainage in fuel line and drain tap in fuel tank.	Make: Model:
3.	Capacity	<ol style="list-style-type: none">1. Loader: General purpose bucket with bolt on teeth of SAE rated capacity nominally heaped approx 1 cu.m with minimum break out force of 6000 kgf.2. Minimum Dump height: 2700mm3. Backhoe Bucket with bolt on teeth of SAE rated capacity at least 0.30 cu.m. with minimum tear out force 5645 kgf. And following working ranges:<ul style="list-style-type: none">• Minimum working height not less than:6000 mm.• Max digging depth not less than: 4700 mm.• Max digging reach not less than :6900 mm (Ground Level) from rear Axle centre Pay Load: standard Out triggers with controls from cabin shall be provided.4. Stabilizer spread not less than 2 m or Normal Stablizer	
4.	Gauges	To include ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges as necessary for efficient operation and maintenance.	

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5	Transmission	Torque converter with four speed power shift/shuttle type or power shift type range selector of transmission	 <p>नेपाल सरकार कृषि विकास विभाग सुदूरपश्चिम प्रदेश, नेपाल</p>
6	Axles	Four wheel drive with fixed rear axle and at least 15° oscillating front axles	
7	Tires	Suitable tires with tubes for operating machine in rough road conditions shall be provided.	
8	Steering	Power assisted.	
9	Brakes	Hydraulically actuated, wet multiple disc/ caliper disc type service brake and separate parking brake.	
10	Cab	All steel enclosed cab with laminated glass windscreen insulated roof, suitably located controls for back hoe and loader operation, rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided.	
11	Hydraulics	Suitable hydraulic pumps flow not less than 117 LPM and system pressure not less than 220 Bar for smooth operation of all attachments smoothly.	
12	Essential Accessories	<ol style="list-style-type: none"> 1. Road lights, work lights and fog lights 2. Cabin Lights 3. Service hour meter <p>Equipped with all accessories offered in standard model but not limited to above items.</p>	
13	Instructions	All signs and instructions in the equipment shall be in English.	
14	Manuals	<ol style="list-style-type: none"> 1. Copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with equipment. 2. Copy of following manuals in English shall be supplied with equipment. <ol style="list-style-type: none"> a. Spare Parts Catalogue b. Comprehensive workshop manual 	
15	Tools	A set of tools as required for general maintenance shall be supplied with a lockable tool box.	
16	Color	Orange/Construction equipment yellow or any standard colour.	
17	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
18	Delivery	The BACKHOE LOADER should be delivered to Mellekh Rural Municipality Office Achham	


Note: 



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1. Bidder is required to submit documentary evidence showing that the manufacturer's representative in Nepal has been providing after sales services for at least past 5 years.

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

Prepared by: 
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