

Technical Specification of Backhoe-loader

S.N	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1.	General	All-wheel drive, rigid frame back hoe loader with steel cab, suitable for operation under rough working conditions and adverse climate condition at operating altitude of 2000 m and ambient temperature varying between -5°C to 50°C.	
2.	Capacity	Operating weight not less than 8000 kg <ol style="list-style-type: none"> Loader: General-purpose bucket with (6 in 1) bolt on teeth of SAE rated capacity nominally heaped not less than 1.1 cu.m with shovel break out force not less than 6044kgf. <ul style="list-style-type: none"> Dump Height \geq 2600 mm Load over height \geq 3200 mm Back hoe bucket with bolt on teeth of SAE rated capacity not less than 0.27 cu.m with tear out force at least 5600 kgf and following working ranger : <ul style="list-style-type: none"> Minimum working height \geq 5600 mm Minimum digging depth \geq 4600mm 	
3.	Engine	Water Cooled diesel Engine, developing SAE rated Gross HP NOT LESS Than 92 HP with minimum 375 NM Torque (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.	
4.	Gauges	To include ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges as necessary for efficient operation and maintenance.	
5.	Transmission	Torque converter with four speed power shift type	
6.	Tires	Suitable Four tires with tubes for operating machine in rough road conditions shall be provided.	
7.	Steering	Power assisted Hydrostatic steering.	
8.	Brakes	Hydraulically actuated, wet multiple disc/caliper disc type service brake and separate parking brake.	
9.	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.	





 Paiyuni Rural Municipality
 Office of the Rural Municipal Executive
 Huwas, Parbat
 Gandaki Province, Nepal
 2073


 Keshab Lamichhane
 Chief Administrative Officer

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10.	Hydraulics	Suitable hydraulic pumps flow not less than 118 LPM and system pressure PSI (bar) not less than 210 Bar for smooth operation of all attachments smoothly.	
11.	Essential Accessories	1. Road lights, work lights and fog lights 2. Cabin Lights 3. Service hour meter	
12.	Instructions	All signs and instructions in the equipment shall be in English	
13.	Manuals	1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with the each equipment. 2. Two copies of following manuals in English shall be supplied with each equipment : a. Spare parts catalogue b. Comprehensive workshop manual	
14.	Tools	A Set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit	
15.	Color	Standard	
16.	Make and Model	The machine offered shall be 2022 or onward mandatory under standard production by the manufacturer	
17.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	
18.	Delivery	Supplier should delivery one unit of Backhoe Loader with all necessary accessories to Office of the rural municipal office of Paiyu Rural Municipality, Parbat	

Note: The major items are indicated by Bold and highlighted letter/alphabets/figures in the technical specifications Non-compliances of these major items will result in no responsiveness of the bid.

Bidders Signature.....

Date.....



Keshab Lamichhane
Chief Administrative Officer

