Backhoe Loader

Technical Specification of Backhoe loader

S.		DEPARTMENTAL REQUIREMENT	Offered
1			
		All wheel /four wheel drive, rigid frame back hoe loader with Steel cab, suitable for operation under rough working conditions, and adverse climate condition at operating altitude Ranging from 50m to 2500 m and ambient temperature varying between -10°C to 50°C. Wheelbase should not be less than 2140mm and Overall Height should not be less than 3710mm.	specification
2.	Capacity	 Operating weight not less than 7800 kg Loader: General purpose bucket with (6 in1) bolt on teeth of SAE rated capacity nominally heaped approx. 1 cu.m with Loader break out force not less than 5250 kgf. Dump Height: ≥ 2730 mm Pin height: ≥ 3400 mm Back hoe bucket with bolt on teeth of SAE rated capacity not less than 0.27cu.m with tear out force not less than 5550 kgf and following working ranges: Minimum working height: ≥ 5700 mm Minimum digging depth: ≥4600 mm 	
3.	Engine	Water Cooled diesel Engine, developing SAE rated Gross HP not less than 85HP with minimum 380NM 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 first at	
5	Transmission	hydraulic gauges as necessary for efficient operation and maintenance. Torque converter with four speed power shift type of synchroshuttle transmission or equivalent.	
6	Axles		
7.	Tires	Four wheel drive with fixed rear axle and at oscillating front axles. Suitable four tires with tubes for operating machine in rough road conditions shall be provided.	
8.	Steering	Power assisted Hydrostatic steering.	
9.	Brakes	Hydraulically actuated, wet multiple disc/caliper disc type service brake and separate parking brake.	
0.	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.	
1.	Hydraulies	Suitable hydraulic pumps flow not less than 115 lpm and system pressure not less than 225 bar for smooth operation of all attachments smoothly.	
	Essential Accessories	Road lights, work lights and fog lights Cabin Lights Service hour meter	NEPAL SI

		Equipped with all accessories offered with standard model but not limited to the above items.
13	. Instructions	All signs and instructions in the equipment shall be in English
14	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.
15.	Tools	A set of tools as required for general min
16.	Color	supplied with in a lockable tool box for each unit Standard colour
17.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.
18	Proven performan ce	1. The machine offered shall be current model (2023 make), under standard production by the manufacturer. 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 etc.
9	Delivery	1 unit back hoe loader shall be delivered to Chaukune Rural Municipality,Gutu,Surkhet District,Karnali province,Nepal

Note:- The major items are indicated by bold and highlighted letters/alphabet/figures in the technical specifications. Non-compliance of these major items will result in nonresponsiveness of the bid.

Er Prem Prasad Sapkota. NEC Regd No:- 2854 Mechanical Engineer

Category:- A

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