

Technical Specification

BACKHOE LOADER

S.N.	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	All wheel drive rigid frame backhoe loader with steel suitable for operation under rough working conditions and adverse climatic condition at operating altitude of 2000 meters and in ambient temperature varying between -5 to 50° Centigrade.	Make: Model: Country of Origin:
	Capacity	1. Loader: General purpose bucket with bolt on teeth of SEA rated capacity nominally heaped approx. 1Cu.m. with breakout force not less than 6000 kgf.	
		2. Backhoe bucket with excavator type side locking tooth point of SEA rated capacity nominally heaped not less than 0.30 cu.m. with breakout force not less than 5600 kgf. and following working ranges:	
		a) Maximum digging	
		height: ≥ 5200 mm	
		b) Maximum digging	
		depth: ≥ 4500 mm	
		c) Maximum digging	
		reach: ≥ 5500 mm	
		(Ground level) d)	
2	Engine	Four Stroke, Four Cylinder water-cooled, Turbo charged with inter cooler, Four wheel drive, diesel engine, and rated engine power not less than 92 HP.	
3	Gauges	To include water temperature, fuel: oil pressure, transmission and hydraulic gauges, Battery Charge Indicator, etc. as necessary for efficient operation and maintenance.	
4	Power Mode	At least two working modes	
5	Transmission	Powershift type range selector	
6	Axles	Four wheel drive with fixed rear axle and not less than 15° oscillation front axles.	
7	Tires	Suitable Four tires with tubes for operating machines in rough road conditions shall be provided.	
8	Steering	Power/ 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 backhoe and loader operation, rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided.	

10	Hydraulics	Suitable hydraulic pumps and system for smooth operation of all attachment smoothly.	
11	Hydraulics flow	Suitable hydraulic pumps and system for smooth operation of all attachment smoothly and flow <i>not less than 115 lpm.</i>	
12	Essential Accessories	1. Road light, work lights ,cabin lights, Fan and F.M Radio 2. Service Hour meter	
13	Instructions	All signs and instructions in equipment shall be in English	
14	Manuals	One copy of the Operator's / owner's instructions and Maintenance manual in English shall be supplied with the equipment.	
		Two copies of following manuals in English shall be supplied with equipment:	
		a. Spare Parts Catalogue	
		b. Operator manuals	
15	Tools	A set of tools as required for general maintenance	
16	Color	Standard color.	
17	Proven Performance	1. The equipment offered shall be a current model under standard production by the manufacturer. 2. The bidder shall provide the manufacturer's data of performance of the unit to include the <i>fuel consumption, performance curves of the engine and production capacity of the unit.</i>	
18	Warranty	Manufacturer shall provide warranty for <i>minimum of one year or 2000HR whichever is earlier after acceptance.</i>	
19	Delivery	The BACKHOE LOADER 1 (ONE) UNIT, with all the necessary filters and spare parts required for the first one services, shall be delivered to: Mikwakhola Rural Municipality office, Thalang-Taplejung .	
20	MRP	4800000.00 (vat free)	