

Technical Specification Of 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 & Dumping Height not less than 2700mm.	
		2. Backhoe bucket with excavator type side locking tooth point of SEAratedcapacity nominally heaped not less than 0.24 cu.m. with breakoutforce not less than 5500 kgf. and following working ranges:	
		a) Maximum digging height: ≥ 5400 mm	
		b) Maximum digging depth: ≥ 4200 mm	
		c) Maximum digging reach: ≥ 5500 mm	
		(Ground level) d)	
		Extra Ditch Bucket 1pc	
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 @Torque not less than 370NM..	
3	Gauges	To include water temperature, fuel: oil pressure, transmission and hydraulic gauzes, Battery Charge Indicator, etc. as necessary for efficient operation and maintenance.	
4	System Pressure PSI(Bar)	Not less than 200 Bar	
5	Power	Atleast two working modes	
6	Transmissio	Powershift type range selector	



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7	Axles	Four wheel drive with fixed rear axle and not less than 15° oscillation front axles.	
8	Tires	Suitable <i>Four tires with tubes</i> for operating machines in rough road conditions shall be provided.	
9	Steering	Power/ Power assisted	
10	Brakes	Hydraulically actuated, wet multiple disc/caliper disc type service brake and saperate parking brake.	
11	Cab	All steel enclosed cab with laminated glass windscreen insulated roof, suitably located controls for backhoe and loader operation, rare view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided.	
12	Hydraulics	Suitable hydraulic pumps and system for smooth operation of all attachment smoothly.	
13	Hydraulics flow	Suitable hydraulic pumps and system for smooth operation of all attachment smoothly and flow <i>not less than 115 lpm.</i>	
14	Essential Accessories	1. Road light, work lights ,cabin lights, Fan and F.M Radio 2. Service Hour meter	
15	Instructions	All signs and instructions in equipment shall be in English	
16	Manuals	One copy of the Operator's / owner's instructions and Maintenance manual in English shall be supplied with the equipment.	
17		Two copies of following manuals in English shall be supplied with equipment: a. Spare Parts Catalogue b. Operator manuals	
18	Tools	A set of tools as required for general maintenance	
19	Color	Standard color.	
20	Proven Performanc	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>	
21	Warranty	Manufacturer shall provide warranty for <i>minimum of one year or 2000HR whichever is earlier after acceptance.</i>	
22	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: Mahakulung Rural Municipality Office Dud, Solukhumbu	



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