

यो *Minimum Requirements* को एउटा नमुना मात्र हो

*For backhoe loader*

S.No	DESCRIPTION	REQUIREMENT	OFFERED SPECIFICATION
1	<b>Country of Origin</b>		
2	<b>Manufacturer / Model</b>		
3	<b>Make</b>	2017	
4	<b>General</b>	All wheel drive, rigid frame back hoe 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.	
5	<b>Capacity</b>	<ol style="list-style-type: none"><li>1. Loader: General purpose bucket with bolt on teeth rated capacity nominally heaped not less than 1 cu.m.</li><li>2. Back hoe bucket with bolt on teeth of SAE rated capacity equal to or more than 0.24 cu.m and following working ranges:<ul style="list-style-type: none"><li>• Maximum operating / working height: Not less than 5500 mm.</li><li>• Maximum digging depth: 4600 (+ / - 60) mm.</li></ul></li></ol>	
6	<b>Engine</b>	<p>Water Cooled diesel Engine, developing SAE rated Gross horsepower <b>93 HP (+/- 3%)</b> with Torque <b>400 N-m (+ / - 6.5%)</b> (engine fully equipped with accessories) at governed RPM for efficient full load operation.</p> <p>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.</p>	

7	<b>Gauges</b>	To include ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges as necessary for efficient operation and maintenance.	
8	<b>Transmission</b>	Torque converter with four speed power shuttle shift type or synchroshuttle or reversing shuttle transmission.	
9	<b>Tyres</b>	Suitable tyres with tubes for operating machine in rough road conditions shall be provided.	
10	<b>Steering</b>	Power assisted	
11	<b>Brakes</b>	Hydraulically actuated or self-actuating or multi disc	
12	<b>Cab</b>	All steel enclosed cab with laminated glass windscreen, suitably located controls for back hoe and loader operation, rear view mirror, cabin light, wiper and adjustable cushioned seat for operator shall be provided.	
13	<b>Hydraulics</b>	Suitable hydraulic pumps and system for smooth operation of all attachments smoothly.	
14	<b>Essential Accessories</b>	<ol style="list-style-type: none"> <li>1. Road lights, work lights and fog lights</li> <li>2. Cabin Lights</li> <li>3. Service hour meter</li> </ol>	
15	<b>Instructions</b>	All signs and instructions in the equipment shall be in English	
16	<b>Manuals</b>	<ol style="list-style-type: none"> <li>1. One copy of the Operator's and Owner's Instructions and Maintenance manual in English shall be supplied with the each equipment.</li> <li>2. Two copies of following manuals in English shall be supplied with each equipment : <ol style="list-style-type: none"> <li>a. Spare parts catalogue</li> <li>b. Comprehensive workshop manual.</li> </ol> </li> </ol>	
17	<b>Tools</b>	A set of tools as required for general maintenance shall be supplied with in a	

		lockable tool box for each unit	
18	<b>Color</b>	Standard colour	
19	<b>Warranty</b>	Manufacturer shall provide a minimum of One year warranty after acceptance.	

**यो Minimum Requirements को एउटा नमुना मात्र हो**

**For Tractor with hydraulic trolley**

S. No.	Description	Purchaser Requirements
1.	Model	
	<b>Model / type</b>	2017
	<b>Displacement volume capacity</b>	3100 cc. ( + / - 5%)
	<b>Steering</b>	Right hand driven Power / Mechanical Steering
	<b>Emission Standard</b>	Should be "Vehicle mass emission standard" of Nepal.
2.	<b>Engine</b>	4 stroke 3 cylinder direct injection Diesel engine, water cooled with no loss tank, Oil cooled with engine oil
	<b>Output at rated r.p.m.</b>	Not Less than 46 H.P. with rated engine speed 2000 RPM
3.	<b>Air cleaner</b>	Oil bath type or dry
4.	<b>Transmission</b>	Heavy duty with single dry plate type / Sliding mesh
	Gear	8 forward and 2 reverse gear with high

		and low speed selector.
<b>5.</b>	<b>Brake</b>	Heavy duty self energizing and parking brake with extra safety
<b>6.</b>	<b>Steering</b>	Heavy duty single drop arm steering or power steering
<b>7.</b>	<b>Hydraulics and implement linkage</b>	Hydraulic system with automatic position control, draft control and mixed controlled.
<b>8.</b>	<b>Hydraulic lift pump</b>	Gear type pump with delivery of at least 25 litre per minute at rated engine speed.
<b>9.</b>	<b>Lifting capacity</b>	Lower link to top with 1500 kg-f / 14715 N
<b>10</b>	<b>Instruments</b>	Engine r.p.m. with Direction indicators as well as hour meter, fuel guage. A-meter, water temperature gauge and oil pressure gauge.
<b>11.</b>	<b>Features</b>	High sensitive hydraulic system, Big rear tyres Multi speed and reverse speed P.T.O. Telescopic stabilizers bar Adjustable sliding seats Neutral safety switch Tap off connection for Tipping trailer Steering lock system
<b>12.</b>	<b>Tools</b>	A set of tools as required for general maintenance shall be supplied
<b>13.</b>	<b>Manuals</b>	One set of workshop manual / service manual / parts catalogue
<b>Hydraulic Trolley (Trailer)</b>		
<b>14.</b>	Trailer / Cargo body	Length = 11 ft., Breadth = 6 ft. and Height = 3 ft.
<b>15.</b>	Frame structure	Heavy Channel section of 200 mm x 75 mm x 10 mm.for main frame Lower

		channel section and 130 mm x 60 mm. x 10 mm section for upper frame.
<b>16.</b>	Body materials	Cross members of channel section 80 mm x 40 mm x 5 mm over upper frame  Side board M.S. sheet 10 SWG,  Floor M.S sheet 8 SWG ,  Side supporting vertical angle section 50 mm x 50 mm x 5 mm
<b>17.</b>	Type	Suitable for lifting loads using hydraulic system with Boom cylinder with capacity 15 to 25 ton with built hydraulic pipes, fittings and accessories
	Axle	Water proof 100 mm x 100 mm in section
<b>18.</b>	Tyre size and numbers	1000.20 MRF 2 (two) in no. (1 at left and 1 at right)
<b>19.</b>	Warranty	Minimum 1 year.
<b>20.</b>	Delivery	One unit Tractor with Hydraulic trailer to Laljhadi Rural Municipality Office.