

Technical Specification

Office: Sigas Rural Municipality, Baitadi.

Equipment: Backhoe Loader.

Quantity: One unit.



S.N.	Criteria	Requirements of Buyer	Offered Specification
1.	General	All wheel drive, rigid frame backhoe loader model with steel cab, suitable for road maintenance works in hilly region and equipped with attachments (standard loader bucket and standard backhoe bucket). Equipment should be adequately powerful, durable, safe and efficient.	Make: _____ Model: _____ Country of Origin: _____
2.	Engine	Water cooled diesel engine with displacement no less than 4.4 litres generating gross power no less than 92 hp. Equipment should 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.	Make: _____ Model: _____ Country of Origin: _____ Engine volume: _____ Power: _____
3.	Emission Standard	The emission standard of the offered vehicle must be in compliance with or superior than the applicable standard as prescribed by "Nepal Vehicle Mass Emission Standard 2069" which is to be certified by Department of Transport Management, Nepal.	Compliance with the standard: Yes/No. Specify. _____.
4.	Capacity, Dimension & Weight	<ul style="list-style-type: none"> ✓ Loader: One cubic meter general purpose bucket (6 in 1) with bolt on teeth having shovel breakout force not less than 6600 kgf. ✓ 0.3 cubic meter backhoe bucket with bolt on teeth having tearout force 5650 	

		kgf. ✓ Ground clearance should be at least 0.36m. ✓ Operating weight no less than 8000 kg. ✓ Length not more than 6.1 m. ✓ Width not more than 2.23 m. ✓ Height not more than 3.9 m. ✓ Wheel base not less than 2.24 m.	
5.	Transmission	Torque converter with four speed power shift type of synchroshuttle transmission.	Yes/No? Specify. _____.
6.	Axles	Four wheel drive with fixed rear axle and at least 15 degree oscillating front axles.	
7.	Steering	Power assisted hydrostatic steering.	Yes/No? Specify. _____.
8.	Gauges	Ammeter, water temperature, fuel, oil pressure, transmission and hydraulic gauges and other standard gauges offered by manufacturer necessary for efficient operation and maintenance.	
9.	Wheels & Tyres	Market standard four tires with tubes for operating machine in rough road conditions shall be provided.	Yes/No? Specify. _____.
10.	Fuel Tank	128 litres or above.	Capacity: _____.
11.	Turning Radius	No more than 11.5 m.	Turning Radius: _____.
12.	Brakes	Hydraulically actuated, wet multiple disc/caliper disc type service brake and separate parking brake.	Yes/No? Specify. _____.
13.	Cabin	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.	Yes/No? Specify. _____.
14.	Hydraulics	Hydraulic pump flow not less than 117 LPM and system pressure not	

		less than 3300 psi/228 bar for smooth operation of all attachments.	
15.	Chassis & Frame	As offered by manufacturer. Preferably tough and adequate enough for hilly region and rough duty functionality.	Mention manufacturer's specification. _____.
16.	Safety	All standard safety feature that manufacturer offers.	Mention safety features _____.
17.	Comfort & Convenience	Comfort and convenience features are expected that manufacturer offers.	Yes/No? Specify. _____.
18.	Color	Standard color offered by manufacturer.	Mention available color. _____.
29.	Essential Accessories	<u>The vehicle should be equipped with:</u> <ul style="list-style-type: none"> ✓ Road lights, work lights, fog lights, cabin lights, service hour meter and turn signals. ✓ Equipped with all accessories offered by manufacturer but not limited to above items. 	Specify available accessories. _____.
20.	Instructions	All signs and instructions in the equipment shall be in English.	Yes/No? Specify. _____.
21.	Manuals	<ul style="list-style-type: none"> • One copy of the operator's and owner's instructions and maintenance manual in English shall be supplied with each equipment. • Two copies of following manuals in English shall be supplied with each equipment: <ul style="list-style-type: none"> a. Spare parts catalogue. b. Comprehensive workshop manual. 	Yes/No? Specify. _____.
22.	Tools	A set of tools as required for general maintenance shall be supplied with in a lockable tool box for each unit.	Are there tools offered by manufacturer. Yes/No? Specify. _____.
23.	Proven Performance	The vehicle offered shall be a current model under production by the manufacturer and must have been supplied in the local market	Mention vehicle performance and background. _____.

		before. Vehicle with more of spare parts availability in market will be an added advantage.	
24.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance.	Mention warranty options.
25.	Initial Service	The supplier shall provide scheduled maintenance/service as per its scheme.	Mention offer.
26.	Delivery	The supplier should deliver truckbus Indor at Sigra Rural Municipality, Baitadi.	Mention Yes/No?

Notes:

- The major items are indicated by bold and highlighted letters/alphanets/figures in the technical specification. Non-compliance of these major items will result in non-responsiveness of the bid.
- The bidder should mention the required technical data of the vehicle in the offered specification column of the technical specification sheet.

Bidder's Signature _____

Date _____

Prepared By:

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Mechanical Engineer

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Transport Management Office, Kanchanpur

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Mechanical Engineer
NEC No: 4086 "A"

Approved By:

Office Chief

Sigra Rural Municipality,

Baitadi

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Mobile view



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