TECHNICAL SPECIFICATION OF TRACTOR AND HYDRAULIC TROLLEY

S. No.	A) SPECIFICATION OF TRACTOR S. No. Criteria Required Specification Offered					
3. 110.	CIRCIA	Required Specification	Specification			
1.	General	4WD drive model tractor, suitable for driving in Nepal at an altitude up to 2500 meter and in ambient temperature -5 to 50 degree centigrade. Total weight of the vehicle shall not be less than 2200 kg.	Make: Model:			
2.	Engine	4-cylinder diesel Engine, developing maximum rated power output not less than 75 HP at governed RPM, Engine fully equipped with accessories for efficient full load operation of the vehicle at operating conditions.	Make: Model: Power: Cylinder:			
3.	Wheel Base	Not more than 2250mm				
4.	Overall Length	Not more than 4500mm				
5.	Emission Standard	The Emission standard of the vehicle should comply with the latest "Vehicle Mass Emission Standard" of Nepal which is to be certified by Department of Transport Management Nepal.	BS /Euro:			
6.	Gauges	To include water temperature, fuel, oil pressure, transmission gauge etc. as necessary for efficient operation and maintenance.	4			
7.	Clutch	Dual				
8.	Transmission	Manual shift, Constant mesh, at least 12 forward and 3 reverse.				
9.	Ground Clearance	Minimum 480 mm				
10.	Hydraulics	Minimum lifting capacity: 2500Kg Minimum linkage: 3-point linkage				
11.	Tyres	Front: 7.5X16/12.4X24 Rear: 18.4X30	*			
12.	Steering	Power Steering				
13.	Brakes	Multi disc oil immersed				
14.	Power takes off (PTO)	Standard PTO RPM: 540 @ 1950				
15.	Fuel tank	Minimum 50 Ltr.				
16.	Essential Accessories	 A. Ground speed PTO with clockwise and anticlockwise rotation. B. Creeper speed C. Higher lift capacity D. Auxiliary valve E. Swinging drawbar 				

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		G. Fiber canopy with mounting frame H. Head light, tail and rear light, reversing light and turn signals. I. Speedometer/ Odometer. J. Adjustable sliding seats K. Neutral safety switch L. Steering lock system Equipped with all accessories offered in the standard model but not limited to the above items.	
17.	Gear shifting pattern	Side shift	
18.	Optional transmission	Partial synchromesh	
19.	Instructions	All signs and instructions in the vehicle shall be in English.	
20.	Manuals	One Copy of the Operator's and Owner's instructions and maintenance manual in English shall be supplied with the vehicle.	
21.	Tools	A set of tools (which are provided by the manufacturer) as required for general maintenance shall be supplied.	
22.	Color	Standard	4
23	Warranty	Manufacturer shall provide a minimum of One year or 2,000 hours which ever earlier after acceptance.	
	B) SPECII	FICATION OF HYDRAULIC TROLLEY(TRAILER)	
24	Hydraulic Cylinder	Minimum 4 Ton capacity single acting hydraulic cylinder along with high pressure pipe and with adopters fitted at end.	
25	Size of trolley/trailer	Length: Max. 10 foot Width: Max. 6 foot Height: Max. 2 foot	
26	Chassis & Base frame	Base chassis: Min. 8"X4" C channel Cross channel and additional member: Min. 4"X2" C channel and 1.5"X1.5" square pipe can be use if required.	
27	Side wall sheet	Min. 4 mm MS sheet	
28	Floor sheet	Min. 6 mm MS sheet	
39	Accessories	Other suitable accessories like Axle, Wheel hub, Towing hook, Jack, light reflector etc. should be there.	

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30	Tyres assembly & wheel	2 nos wheel (double plate ring type with 8 holes) and accordingly tyres should be of size 9X20 of brand JK/MRF/Apollo.	
31	Painting	One coat of red oxide and 2 coats of super synthetic enamel paint.	
32	Delivery	The 1-unit tractor with trolley shall be delivered to: Office of the Rural Municipal Executive, Mudkechula Rural Municipality, Karnali Province, Dolpa	

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

Bidder's Signature

PREPARED BY:
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Designation: Mechanical Engineer
Office: Ministry of physical infrastructure and urban development, Karnali Province

Date: 2079/08/14