

ISHWORPUR MUNICIPALITY

Office of municipal executive

Sarlahi, Madhesh Pradesh, Nepal

Technical specification of Electric van

S.N	Criteria	Technical requirements	Offered specifications
1.	General	Electric Van of sturdy design , suitable for riding in smooth and rough condition of Nepal having kerb weight not less than 200kg (without battery).	Model: Make year: Kerb weight:
2.	Seat capacity	Minimum 12-15 seater excluding driver.	
3.	Rated motor power	1800 watt BLDC (brushless direct current) motor that provides main driving power.	Rated power: Motor type:
4.	Peak power	More than 2200 watt while climbing to high hill road	Peak power:
5.	Climbing/ gradeability	Normally 15 degree to 20 degree capability	Gradeability:
6.	Gauges	To include necessary gauges and meter for efficient operation and maintenance of the vehicle.	
7.	Transmission power	Differential shaft (motor directly attached with differential) or direct drive.	Type:
8.	Controller	Heavy duty electronic controller for motor drive with minimum 36 tubes for smooth power delivery.	
9.	Current rating of controller	Equal to or more than 50 ampere for smooth operation	
10.	Throttle	Either hand or foot throttle (depends on model) that sends signal to motor to speed up or slow down the vehicle.	Throttle type:
11.	Battery type	Lead acid or lithium ion (optional)	Type:
12.	Battery capacity	Not less than 60v160ah	
13.	Operating voltage	60 volt (nominal) and 66.5volt (high cut-off voltage)	
14.	Charging voltage	220-240v AC with 50Hz frequency	
15.	Charging time	6-8 hours (depend on battery type and charger)	
16.	Brake	Rear drum brake and front disc or drum brake(optional)	
17.	Frame	Steel or welded tubular frame, with passenger cabin and with windshield.	
18.	Suspension	Front: telescopic forks Rear: leaf spring suspension for rough roads.	
19.	Ground clearance Wheel base	Minimum 150mm Minimum 2000-2150mm	GC: WB:
20.	Loading capacity	minimum 800kg	

21.	Instruction	All sign and instruction on the E-rickshaw shall be in English.	
22.	Manuals	One set of operators and owner's instruction manual in English shall be supplied with each E-rickshaw.	
23.	Tools	One set of tools as required for general maintenance shall be supplied with each unit.	
24.	Additional features	<ul style="list-style-type: none"> • Instrument Panel or cluster: Basic meter with battery indicator, odometer, tachometer. • Lighting: Headlights, rear lights, indicators (LED or conventional). • Accessories: Horn, windshield wiper, cloth or metal roof. 	
25.	Tyre	Standard size 3.50-12 inch front tyre minimum 3.50-12 inch rear tyre minimum	
26.	Colour	Any standard colour.	
27.	Warranty	Manufacture shall provide minimum of 6 months warranty on battery, motor and controller and 1 year free service.	
28.	Range or mileage	Minimum 80-110km depends on load carry by vehicle and surface gradient of road surface.	
29.	MRP	Not more than Rs - for one unit including all (VAT, delivery or transport charge with loading and unloading charge if labour charge required).	
30.	Delivery	<p>The E-rickshaw shall be delivered to: Ishworpur municipality Office of municipal executive Sarlahi, madhesh Pradesh, Nepal</p>	

NOTE: The major items are indicated by bold and highlighted letter/alphabet in the technical specifications.

Prepared by: