

Technical Specification Of Electric Vehicle (Car)

S.No.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1.	General	Five Door, Right Hand Drive, Electric battery driven Vehicle suitable to operate in all varied road condition and temperature of Nepal. Gross Vehicle Weight (GVW) shall not be less than 2000kg, and shall have total seating capacity for atleast 5persons including driver.	Make: Model: Year : Country of Origin:
2.	Power Train	The offered vehicle should have AC Permanent Magnet Synchronous Motor with Max. Rated power output not less than 95KW and torque less than 250N-Mat governed RPM.	Make: Model:
3.	Battery System	Battery shall be minimum of 50 kWh (Kilo Watt-hour) whose Driving Range should not be less than 340Km As per WLTP. Charging system shall have facility of charging with single phase home supply 220V AC or 3 phase AC and DC fast charging. The bidder shall supply charger for home supply and portable on- board charger which can be carried along with vehicle.	
4.	Gauges	To include speedometer, odometer, gauges etc. as necessary for efficient operation and maintenance.	
5.	Transmission	Automatic Transmission System.	
6.	Ground clearance	Minimum 165 mm Higher ground clearance preferred.	
7.	Suspension	Double wishbone/ telescopic/ shock absorber/ Anti roll bar/ stabilizer bar/ hydraulic double acting /five link type suspension/ McPherson/ Multi- link/ Twist blade with rod and coil spring.	
8.	Tires	Standard radial size.	



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9.	Steering	Power assisted.	
10.	Brakes	Front & rear disc type.	
11.	Body/cab	Four side doors and one rear door for luggage compartment at the rear of the vehicle. All metallic cab with insulated roof. Laminated / tinted glasses windscreen, front & rear windscreen washers and wipers, comfortable and adjustable seats for driver and co-passengers.	
12.	Chassis and frame	Steel, heavy duty suitable for rough road conditions.	
13.	Essential Accessories	<p>1. Head light, Led tail lamp and rear light, reversing light, front fog light and turn signals.</p> <p>2. Cabin Lights.</p> <p>3. Spare Wheel and floor mats.</p> <p>4. Suitable Jack with handle.</p> <p>5. Seats belts for Drivers, Co-passengers.</p> <p>6. Audio System/ Bluetooth/CD/DVD Player</p> <p>7. Power windows front and rear.</p> <p>8. Central door locks.</p> <p>9. ABS(Anti-lock braking system) with EBD</p> <p>10. Airbag minimum driver & co-passenger</p> <p>11. Alloy wheels</p> <p>12. Leather seats</p> <p>To be equipped with all accessories offered in standard model but not limited to the above items.</p>	
14.	Instructions	All signs and instructions in the vehicle shall be in English.	
15.	Manuals	One copy of the Operator's and Owner's instructions manual in English shall be supplied.	
16.	Tools	A set of tools, as required for General maintenance, shall be supplied with each unit.	

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17.	Color	Standard.	
18.	Proven performance	1. The Electric vehicle offered shall be a current model under standard production by the manufacturer. 2. The bidder shall provide the manufacturer's data of the performance of the unit to include performance curve of the engine and production capacity of the units	
19.	Warranty	Manufacturer shall provide a minimum of one year warranty after acceptance for each unit. The warranty shall be minimum of Eight (8) years or 160,000 km for battery company policy which ever offers higher range.	
20.	After sales service	The supplier should provide free after sales service and circuit check ups for at least three (3) years or higher, and also should provide documentary evidence of having at least one service center in Nepal	
21.	Delivery	The Electric Vehicle (Car) Shall be Delivery to Kankai Municipality Office Jhapa	