

## Technical Specification for Electric Utility Vehicle (SUV)

### Electric Vehicle

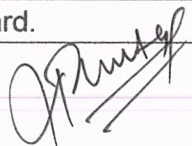
The bidder must furnish documentary evidence in the form of literature (catalogue), certified dimensional drawings, and a detailed description of goods with essential technical information. All data, drawings, catalogues, and other technical documents shall be bound separately from the Bid documents. The Bidder shall furnish a clause-by-clause commentary on the specification, specifying compliance and deviations, if any. This must be furnished; otherwise, the Bid may be rejected.

S.No.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION	REMARKS
1	General	<b>Five-door, Right drive, Electric battery-driven Vehicle suitable to operate in all varied road conditions and temperatures of Nepal. Gross Vehicle Weight (GVW) shall not be less than 2000 kg, and shall have a total seating capacity for at least 5 persons, including the driver. Make Year not before 2024 AD</b>	Make: Model/Year: Country of Origin:	
2	Power Train	<b>The offered vehicle should have an AC Permanent Magnet Synchronous Motor with a maximum. Rated power output not less than 100 KW and torque not less than 300 N-m at governed RPM. Motor must be capable of power regenerative braking. There must be a provision of at least one driving mode for extended range in the condition of low battery level.</b>	Make: Model:	
3	Battery System	<b>Battery shall be a minimum of 48 kWh (KiloWatt-hour) whose Driving Range should not be less than 340 Km. The vehicle should have a charging facility compatible with the household electric system of Nepal, and also should have a facility for fast charging. Battery shall be of Lithium Iron Phosphate chemistry or better</b> <b>The Bidder should provide at least a charging adapter compatible with the household electrical system of Nepal</b>		
4	Gauges	To include speedometer, odometer, gauges, etc., as necessary for efficient operation and maintenance.		
5	Transmission	Automatic Transmission System.		
6	Ground clearance	<b>Minimum 175 mm. Higher ground clearance preferred.</b>		
7	Suspension	Doublewishbone/telescopic/shockabsorber/ Anti-roll bar/stabilizer bar/hydraulic double-acting/fivelinktype suspension/McPherson/Multi-link/Twist blade with rod and coil spring.		
8	Tires	Standard radial size.		
9	Steering	Power-assisted.		
10	Brakes	Front ventilated disc, rear disc type or Equivalent		

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11	Body/cab	Four side doors and one rear door for a luggage compartment at the rear of the vehicle. All metallic cab with an insulated roof. Laminated/tinted glasses windscreen, front & rear windscreen washers and wipers, comfortable and adjustable seats for driver and co-passengers. Two sun visors, rear rear-view mirror, and two side-view mirrors.		
12	Wheel Base	<b>Not more than 2800 mm</b>		
13	Overall Length	<b>Not more than 4500 mm</b>		
14	Chassis and frame	Steel, heavy-duty, suitable for rough road conditions.		
15	Essential Accessories	1. Headlight, LED tail lamp and rear light, reversing light, front fog light, and turn signals.		
		2. Cabin Lights.		
		3. Maintenance kits		
		4. A suitable Jack with a handle.		
		5. Seat belts for Drivers, Co- co-passengers.		
		6. Touch Screen Infotainment with Bluetooth Player		
		7. Power windows front and rear.		
		8. Central door locks.		
		9. ABS (Anti-lock braking system) with EBD		
		10. Airbags for driver & co-passenger and side curtain airbags.		
		11. Alloy wheels		
		12. Leather seats		
		13. GPS Navigation System		
		14. Electrically adjustable ORVMs		
		15. Fully Automatic Temperature Control (FATC) with HVAC		
		To be equipped with all accessories offered in the standard model, but not limited to the above items.		
16	Instructions	All signs and instructions in the vehicle shall be in English.		
17	Manuals	One copy of the Operator's and Owner's instructions manual in		
		English shall be supplied.		
18	Climate Control	<b>Vehicle shall have well well-insulated ventilation system with an air filter. It shall have a heating and cooling mechanism system using the latest environmentally friendly refrigerant. Climate control shall be manual or automatic; automatic is preferred over manual.</b>		
19	Tools	A set of tools, as required for general maintenance, shall be supplied with each unit.		
20	Color	Standard.		



21	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 on the performance of the unit to include the performance curve of the engine and production capacity of the unit production capacity of the unit.		
22	Warranty	<b>The manufacturer shall provide a minimum of one year warranty after acceptance for each unit. The warranty shall be a minimum of Six (6) years or 150,000 km for battery company policy, whichever offers a higher range. Minimum 6 years/150,000 kilometers for Drive Motor, Minimum 1 year/ 50,000 kilometers for High-Voltage Electronic Control Assembly. Minimum 1 year/ 50,000 kilometers for Transmission, Gearbox module</b>		
23	After-sales service	The supplier should provide free after-sales service and circuit checkups for at least three (3) years or higher, and also should provide documentary evidence of having at least one service center in Nepal		
24	Delivery	<b>The 1 Unit Electric Vehicle shall be delivered to Simbuwa Remit Hydropower Company Limited, Baneshwor -31, Kathmandu</b>		
<b>Note: The major items are indicated by Bold and highlighted letters/alphabets/figures in the technical specifications. Non-compliance with these major items will result in no responsiveness of the bid</b>				

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