

## Technical Specifications

### Electric Utility Vehicle

1 Units

S.No	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	Five door right hand drive Electric Utility Vehicle ( <b>Crossover/SUV type</b> ) suitable for driving in urban and city roads in Nepal. Vehicle <b>shall have seating capacity for at least 5 passengers including driver.</b>	Make: Model:
2	Drive Motor and Electrical System	<b>Permanent Magnet Synchronous Motor</b> developing <b>Peak (Maximum) Power</b> output not less than <b>98 KW and Torque</b> Should not be less than <b>240 Nm</b> . The system should be equipped with all necessary items/ accessories and controlling devices for safe, smooth, efficient, economical operation and optimizing vehicle performance.	Make: Model:
3	Battery	Capacity: Not less than <b>45 KWh</b> Charging system: With single phase home supply 240 Volt AC and DC fast charging	
4	Performance	Electric Driving Range: <b>Not less than 320 KM in one full charge as per WLTP test system (or 10% more for other internationally recognized test system).</b>	
5	Gauges	Fitted with all the gauges, indicators, signals as necessary for efficient operation, functional monitoring, vehicle performance and maintenance that includes indicator with all standard items of offered model vehicle	
6	Transmission	<b>Fully Automatic</b>	
7	Ground clearance	Ground clearance: <b>Not less than 175 mm.</b>	
8	Suspension	Front: Mc-Pherson with coil springs and Shock absorbers. Rear: Multi link/Coil Springs with Shock absorbers/ Torsion beam	
9	Tyres	Standard Size	
10	Steering	<b>Power assisted</b>	
11	Brakes	<b>Front: Disc</b> <b>Rear: Disc</b> <u>Technology</u> <b>Antilock brake system with EBD</b> <b>Brake assist system (BA)</b>	
12	Cab	4 doors and 1 back door, all metallic cab with insulated roof, right hand drive, laminated glass windscreen, <b>wipers</b> , glass windows on doors, through ventilation, comfortable and adjustable seats for driver and passenger, two sun visors, <b>electrically foldable and adjustable</b> side view mirrors and rear-view mirror.	
13	Chassis and Frame	High strength frame structure suitable for urban rough road conditions.	

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14	Features/Essential Accessories	<b>1. Automatic Head light, tail and rear light, fog light (Front and Rear)</b> <b>2. Reversing light, turn signals</b> <b>3. Cabin lights</b> <b>4. Speedometer / odometer.</b> <b>5. Seat belt for driver and co-driver.</b> <b>6. Touchscreen Infotainment System</b> <b>7. Automatic Air Conditioning System (HVAC)</b> <b>8. All Power Windows System (Front/Rear)</b> <b>9. Multi-function Steering Wheel</b> <b>10. 6-way power adjustable driver seat</b> <b>11. Airbag Safety System (Front, side and curtain)</b> <b>12. Smart Keyless Entry System</b> <b>13. Electronic Parking brake with Auto hold</b> <b>14. Hill hold, Hill descent, Traction Control</b> <b>15. Tyre pressure Monitoring System (TPMS)</b> <b>16. Cruise Control System</b>	
		To be equipped with all features/accessories in bolded letters should be as per manufacturer's standard model catalogue. (Factory fitted)	
15	Charger	<b>On board charger with each unit of vehicle</b>	
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 and Maintenance manual in English shall be supplied with each vehicle.	
18	Tools	A set of tools, with a tool bag, as required for general maintenance shall be supplied.	
19	Color	Standard Color	
20	Proven performance	<p>The Electric Utility Vehicle offered shall be a current model (<b>Make year should be 2025/2026</b>) under standard production by the manufacturer (should be declared by manufacturer's letter) for at least one year.</p> <p>The bidders shall provide the manufacturer's data of the performance of the unit to include the battery consumption and motor performance curves.</p>	
21	Warranty	<p>Manufacturer shall provide:</p> <p><b>A.) Minimum of one-year warranty after acceptance for Vehicle</b></p> <p><b>B.) Minimum of three-years warranty after acceptance for Battery</b></p> <p>(Also, bidder should provide all warranty policy applicable/offered for individual customer from the manufacturer/importer)</p>	
23	Delivery	The Electric Utility Vehicle (Cross over/suv type), RHD, 1 Units shall be delivered to: "Urban Infrastructure Technology Research and Training Center, Babarmahal, Kathmandu"	

**Note:**

- a) 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 offer.

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## Technical Specification

Electric Scooter

3 Unit

S.No	CRITERIA	REQUIREMENT	OFFERED SPECIFICATION
1	General	<b>Scooter</b> of sturdy design, suitable for driving on urban and city road conditions.	Make: Model: Country of Origin:
2	Motor and Battery	Motor: Peak power should not be less than <b>4000 Watt</b> Battery Capacity: Not less than <b>2.8 KW/hr</b>	Make: Model:
3	Performance	Top Speed: Not less than <b>70 Km/hr</b> Electric Range (claimed): Not less than <b>110 Km per full charge of battery</b>	
4	Gauges	To include speedometer / odometer, Turn signal indicator, neutral indicator etc. as necessary for efficient operation and maintenance.	
5	Transmission	Automatic Transmission System	
6	Brake	Mechanical or hydraulic Brake. Front: Disc/Drum Rear: Disc/Drum	
7	Suspension	Inline telescopic hydraulic fork shock absorber / spring loaded hydraulic damper	
8	Essential Accessories	1. Head light, rear and turn signal lights 2. Two rear view mirrors 3. Safety lock for steering 4. Seat for co-rider 5. Helmet - 1 Nos. <b>To be equipped with all standard accessories of offered model but not limited to above items.</b>	
9	Instructions	All signs and instructions in the equipment shall be in English.	
10	Manuals	<b>One copy of the Operator's and Owner's Instructions and maintenance manual in English</b> shall be supplied with each scooter	
11	Proven performance	1. The scooter offered shall be a current model under standard production by the manufacturer for at least <b>one year</b> .	
12	Warranty	Manufacturer shall provide a minimum of <b>one-year warranty for battery and motor</b> after acceptance.	
13	Delivery	The scooter 3 unit shall be delivered to: Urban Infrastructure Technology Research and Training Center, Babarmahal, Kathmandu	

**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.

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