

BHAKTAPUR MUNICIPALITY
OFFICE OF THE MUNICIPAL EXECUTIVE,
BYASI -02 BHAKTAPUR

(1) Technical Specification of 16 seater Electric Van

S.N.	Particular	Requirements	Offered Specification
1	General	Four door, right hand drive Electric Utility Vehicle (Van type) suitable for normal and rough road driving in Nepal. Vehicle shall have at least seating capacity of 16 passengers including driver. GVW not less than 3000kg	
2	Drive Motor and Electrical System	PMSM motor rated power not less than 50kW and developing Maximum peak Power output not less than 80 kW and maximum peak torque should not be less than 270NM at governed RPM	
3	Battery	Capacity: Not less than 50 KWh Type: Lithium Iron Phosphate battery (LiFePO4) Charging system: Single phase home supply or 3 Phase AC or DC/AC fast charging	
4	Performance	Top Speed: Minimum 90 KM/hrs. Electric Driving Range: Not less than 300 KM in one full charge (As per WLTP or NEDC) Charging Time: 0-100% Fast charge not more than 2 hrs. Slow charge 0-100% not more than 10 hrs	
5	Gauges	Fitted with all the gauges, indicators, signals as necessary for efficient operation, functional monitoring, vehicle performance and maintenance that includes (but not limited to) battery charge indicator with all standard items of offered model vehicle	
6	Transmission	Fully Automatic	
7	Ground clearance	Not less than 200 mm	
8	Suspension	Leaf springs/ coil springs/ torsion bar/ shock absorbers at front and rear.	
9	Tires	Standard Size	
10	Steering	Power assisted	
11	Braking System	1. ABS & EBD 2. Regenerative Braking 3. Hill Assist control	
12	Brakes	Front: Disc Rear: Drum	
13	Cab	All metallic cab with insulated roof, right hand drive, laminated glass windscreen, wipers, glass windows on door, through ventilation, comfortable and adjustable seats for driver and passenger, floor mats, two sun visors, and two side view mirrors and rear - view mirror	
14	Doors	4 doors of Standard size Passenger door lock should be controlled by driver for safety	
15	Chassis and frame	Heavy duty high rigidity frame structure suitable for rough conditions with hook at front.	



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S.N.	Particular	Requirements	Offered Specification
16	Essential accessories	1. Head light, tail and rear light 2. Reversing light, turn signals 3. Cabin lights 4. Speedometer / Odometer. 5. One spare wheel with tyre and tube. 6. Suitable Jack & Handle. 7. Seat belt for driver and co-driver . 8. Air Conditioning System (HVAC) 9. Power Windows System 10. Rear Parking sensors with camera 11. 2kg ABC dry powder Fire Extinguisher 12. Smoke Sensors 13. First aid kit To be equipped with all accessories as per manufacturer's standard model Factory Fitted but not limited to above items.	
17	Charger	Should Provide slow charger not less than 6kW and 3kW travel charger	
18	Instructions	All signs and instructions in the vehicle shall be in English.	
19	Manuals	One Copy of the Operator's and Owner's instructions and maintenance manual in English shall be supplied with each vehicle	
20	Tools	A set of tools, with a tool bag, as required for general maintenance shall be supplied.	
21	Colour	Standard company color	
22	Warranty	Manufacturer shall provide: 1. Minimum of two(2) -years warranty after acceptance for vehicle 2. Minimum of five(5) -years or 3,00,000 km warranty whichever comes earlier after acceptance for Battery and Motor	
23	Mandatory Documents	1. Company authorization letter 2. Range test report 3. Safety Standards 4. Detail Specification Catalogue 5. Spare Parts availability for at least 10 years 6. Service Center with in Kathmandu Valley 7. Experience for supply of at least 10 similar EV	
24	Delivery	Vehicle shall be deliver to Bhaktapur Municipality	

(2) Technical Specification of six-wheeler truck tripper

S.N.	Criteria	Requirement	Offered Specification
1	General	Right Hand Drive model six-wheeler truck tripper with at an altitude up to 2500 meter and in ambient temperature -5 to 50 degree centigrade. Gross Vehicle Weight of the Vehicle shall not be less than 14000 kg. Wheelbase should be min. 3100 mm. & Seating capacity for at least 3 seats including driver.	
2	Engine	Turbocharged intercooled diesel Engine developing Maximum rated power output not less than 150 HP at governed RPM with torque min. 450 NM @ governed RPM, engine fully equipped with accessories for efficient full load operation of the vehicle at operating conditions, cold starting device, heavy duty fuel filter.	
3	Emission Standard	The Emission Standard of the vehicle should be "Vehicle Mass Emission Standard" of Nepal Which is to be certified by Department of Transport Management, Nepal (BS VI)	
4	Gauges	To include water temperature, fuel, oil pressure, transmission gauge etc. as necessary for efficient operation and maintenance, etc.	
5	Transmission	Manual shift at least 5 forward and 1 reverse	
6	Suspension	Semi Elliptical Leaf Spring at Front & Rear with anti-bars	



S.N.	Particular	Requirements	Offered Specification
7	Clutch	Dry Single Friction Plate, 330 mm dia	
8	Tyres	Size: 9.00 x 20 -16 PR Front- 2, Rear- 4, Spare- 1	
9	Steering	Power steering	
10	Fuel Capacity	Min 100 Liters	
11	Ground Clearance	High ground clearance required at least 250 mm	
12	Brakes	Dual Circuit full Air S-cam brake with manufacture's fitted/OEM certified ABS	
13	Cab	Factory built standard steel cab with insulated roof, front wipers, glass windows on doors, ventilation, adjustable seat for driver, sun visor and suitably located hydraulic tipping gear controls.	
14	Tripper Body	Factory built Heavy Duty Type body fitted with complete hydraulic tipping system for smooth tipping application Bucket capacity = min 7 Cu.m Tipping angle = 50° Load body floor thickness = at least 4 mm Load body side and head thickness = at least 3 mm	
15	Chassis and frame	Steel, heavy duty suitable for rough road conditions	
16	Essential accessories	<ul style="list-style-type: none"> a. Head light, tail and rear light, reversing light, turn signals. b. Cabin lights. c. Speedometer/ odometer d. One spare wheel with tyres and tube. e. Suitable Jack & Handle and tool box f. Seat belt for driver g. Radio/MM/FM Player h. Fire extinguisher i. Heavy duty front bumper j. First aid kit k. Looking glass both side <p>To be equipped with all accessories as per manufacture's standard model but not limited to above items.</p>	
17	Instructions	All signs and instructions in the vehicle shall be in English.	
18	Manuals	One Copy of the Operator's and Owner's instructions and maintenance manual in English shall be supplied with the vehicle.	
19	Tools	A set of tools as required for general maintenance shall be supplied.	
20	Color	Standard color (to be finalize by client)	
21	Proven Performance	The vehicle offered shall be under standard production by the manufacturer for at least one year with performance and Fuel consumption curve.	
22	Warranty	Manufacturer shall provide a minimum of One-year warranty after acceptance.	
23	Date of Manufacture	Latest Model: 2025 Model	
24	Delivery	Truck tripper shall be delivered to: Bhaktapur municipality	

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