

नगर कार्यपालिकाको कार्यालय

उर्लाबारी नगरपालिका

उर्लाबारी, मोरङ जिल्ला, नेपाल



Procurement of Electric Multi purpose Vehicle

Price : 44,00,000/- (Including VAT)

Technical Specification

| S. No | Particulars                     | Requirements  | Remarks                            |
|-------|---------------------------------|---|------------------------------------|
| 1     | General                         | 1.1 A vehicle should be a pure electric, battery-powered model suitable for both city and highway use in Nepal manufactured in 2025 or later, fully manufacturer-fitted.                    |                                    |
|       |                                 | 1.2 Vehicle shall be right hand drive and Must be minimum 1 year Operated within Nepal.   |                                    |
|       |                                 | 1.3 The vehicle shall be able to operate under the altitude, temperature and humidity variation in Nepal  |                                    |
| 2     | Power Train                     | 2.1 AC Permanent Magnet Synchronous Motor, with capable of generating regenerative braking.   |                                    |
|       |                                 | 2.2 Motor shall develop minimum of 95-100 Kilowatt of power   |                                    |
|       |                                 | 2.3 Torque shall not be less than 250 N.m (Newton-Meter)  |                                    |
|       |                                 | 2.4 There must be provision of at least one driving mode for extended range in condition of low battery level.  |                                    |
|       |                                 | 2.5 Vehicle shall attain minimum of 120km/hr speed.   |                                    |
| 3     | Battery (electric-cells) System | 3.1 Battery shall be minimum of 50 kWh (KiloWatt-hour), certified from recognized agency, preferably ECE R100 Certificate   |                                    |
|       |                                 | 3.2 Battery shall be of Lithium Iron Phosphate chemistry.   |                                    |
|       |                                 | 3.3 Vehicle shall have drive range minimum of 345 km on full charge. (WLTP Certified)   |                                    |
|       |                                 | 3.4 The vehicle should support household charging compatible with Nepal's electrical system and fast charging, with the ability to achieve a full charge within 1 hour using fast charging. | DC Charger Output minimum 60 kWh   |
|       |                                 | 3.5 Bidder should provide at least charging adapter compatible with household electrical system of Nepal  | AC Charger Output at least 6.6 kWh |
|       |                                 | 3.6 Charging Standard should be CCS2  |                                    |
|       |                                 | 3.7 The vehicle should be compatible with atleast 60 kW DC Fast Charging  |                                    |
| 4     | Transmission                    | 4.1 It shall have automatic transmission  |                                    |
| 5     | Dimensions                      | 5.1 Minimum ground clearance of 200 mm  |                                    |

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| 6     | Brake         | 6.1 Front brakes shall be disc and rear brakes shall be disc/drum.  |         |
|       |               | 6.2 Vehicle should have Intelligent Braking System with functions like;<br>Anti-Lock Braking System (ABS)<br>Electronic Brake force Distribution (EBD)<br>Hill-Start Assist Control (HHC)<br>Hydraulic Brake Assist (HBA)<br>Traction Control System (TCS)<br>Brake Override System (BOS)<br>Electrical Parking Brake (EPB)<br>Automatic Emergency Braking System (AEB) |         |
|       |               | 6.3 Parking brakes shall be operated with hand  |         |
|       |               |   |         |
| 7     | Steering      | 7.1 Steering shall be electric power assisted   |         |
|       |               | 7.2 Steering column shall be adjustable   |         |
| 8     | Suspension    | 8.1 Front suspension system type shall be McPherson Strut   |         |
|       |               | 8.2 Rear suspension system can be Torsion Beam  |         |
| 9     | Wheel & Tyres | 9.1 Wheel material shall be alloy   |         |
|       |               | 9.2 Tyres shall be radial and tubeless  |         |
| 10    | Features      | 10.1 Shall have appropriate designed crumple zone and stiffened front and side body for protection during crash   |         |
|       |               | 10.2 Shall have Electronic Stability Program (ESP)  |         |
|       |               | 10.3 Shall be equipped atleast 4 front airbags  |         |
|       |               | 10.4 Engine Sound Simulator (speed less than 30 km/h)   |         |
|       |               | 10.5 Speed Sensing Automatic Latch  |         |
|       |               | 10.6 All seats shall be equipped with independent seat belts  |         |
|       |               | 10.7 Vehicle shall have Maintenance Reminder Function   |         |
|       |               | 10.8 Vehicle shall have parking sensor and 360 degree camera along with Cruise controll feature.  |         |
|       |               | 10.9 Shall be equipped with LED daytime running lights  |         |
|       |               | 10.10 Shall be equipped with projector head lamps or halogen headlights   |         |
|       |               | 10.11 Should support portable card key (NFC)  |         |
| 11    | Seats         | 11.1 Seats should be comfortable with synthetic leather.  |         |

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|-------|------------------------------|---|----------------------------|
| 12    | Windows, Windshield & mirror | 12..1 Front windshield shall have wiper, washer and defogger  |                            |
|       |                              | 12.2 1st row and 2nd row Windows shall be powered slide   |                            |
|       |                              | 12.3 ORVM (outer rear view mirror) shall be adjustable form inside cabin  |                            |
|       |                              | 12.4 The vehicle must have blind spot Detection   |                            |
| 13    | Climate Control              | 13.1 Vehicle shall have well insulated ventilation system with air filter   |                            |
|       |                              | 13.2 It shall have heating and cooling mechanism system using latest environment friendly refrigerant.  |                            |
|       |                              | 13.3 Climate control shall be manual or automatic, automatic is preferred over manual.  |                            |
| 14    | Entertainment                | 14.1 Shall be equipment minimum with Radio with AUX and USB port, 4 speakers  |                            |
| 15    | Gauges And Indicators        | 15.1 Speedometer indicating the speed in kilometres per hour.   |                            |
|       |                              | 15.2 Odometer indicating the distance in kilometres.  |                            |
|       |                              | 15.3 Fitted with all the gauges, indicators, signals as necessary for efficient operation, functional monitoring, vehicle performance and maintenance that includes (but not limited) Battery charge indicator with all standard items. |                            |
|       |                              | 15.4 High beam warning light  |                            |
|       |                              | 15.5 Direction of turn indicator  |                            |
|       |                              | 15.6 Battery charge/discharge monitor   |                            |
|       |                              | 15.7 Driver and passenger seat belt reminder function   |                            |
| 16    | Warranty                     | 16.1 Traction Battery   | 8 years/160,000 kilometer  |
|       |                              | 16.2 Drive Motor  | 8 years/ 150,000 kilometer |
|       |                              | 16.3 High-Voltage Electronic Control Assembly   | 4 years/ 100,000 kilometer |
|       |                              | 16.4 Transmission, Gear box module  | 3 years/ 60,000 kilometer  |
| 17    | Accessories                  | 17.1 Air pump for tire.   |                            |
|       |                              | 17.2 Basic tire repair kit  |                            |

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