

Tribhuvan University Teaching Hospital Maharajgunj, Kathmandu

Technical Specifications of Fully Electrical Battery Operated SUV- 1 Unit

| S.N | CRITERIA | REQUIREMENT | OFFERED SPECIFICATION | | |
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| | | | Mention with 'Fully comply'/ 'partial comply' | | |
| 1 | General | Right Hand Drive (RHD), all electric battery-operated Electric car, 5 seater including driver, suitable to operate even in the rough, hilly road with steep slope/ sharp bends road condition of Nepal at ambient temperature varying between -5 to 50 degree centigrade and altitude range up to 3000 m and GVW of car not less than 2000 kgs. Ingress protection level not less than IP 67. | Make: Model: Country of Origin: Make year: | | |
| 2 | Drive System/ Motor | Heavy duty, Single Drive Permanent Magnet Synchronous Motor (PMSM) having high power and torque equipped with integrated controller for optimization of car operation. Maximum power: Not less than 99 kW Maximum Torque: Not less than: 300 Nm Maximum speed: Not less than 100 Km/hr | | | |
| 3 | Battery / Energy Source | Energy storage on board the car shall be adequate for intended application, to be equipped with Battery Management System (BMS) for optimization of Battery performance, status detection/ analyzing, energy control and constant monitor the Battery condition and ensure high level of safety protection. Battery type: Lithium iron phosphate blade battery or better approved chemistry Battery Capacity: Not less than 49 kWh Driving range (In single full charge): Not less than 300 KM | | | |
| 4 | Power train | ower train Electric motor drive with efficient traction control system, enabling the reverse drive. | | | |
| 5 | Chassis/ Frame structure | | | | |

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| 6 | Cab | | | | | |
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| 7 | Overall and other dimensions | Overall Length: Not less than 4400 mm Overall Width: Not less than 1800 mm Overall Height: Not less than 1550 mm Wheelbase: Not less than 2600 mm Ground Clearance: Not less than 175 mm Boot capacity: Not less than 300 Ltrs. | | | | |
| 8 | Steering | Power steering | | | | |
| 9 | Brakes | Service brake: Dual circuit hydraulic system, front ventilated disc and rear disc type brake. Parking brake: Electric Braking system to be equipped with Anti-Lock Braking System (ABS). | | | | |
| 10 | Wheels & Tires | Standard wheels with radial tires. | | | | |
| 11 | Suspension system | Front: Double wishbone coil spring / torsion bar / McPherson Strut Rear: Coil springs/ torsion beam/ multi-Link Suspension system with shock absorbers. | | | | |
| 12 | Instrumenta tion / Display unit | All necessary gauges, display unit to be equipped for monitoring performance, efficient operation and maintenance of vehicle that includes; Battery health status, Motor performance, Fault warning and Safety feature etc. | | | | |

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| 13 | Essential / Safety Accessories | 1. Head lights, Fog lamps, Tail and Rear lights ,Reversing lights and Turn signal lights 2. Cabin Lights 3. Heavy duty bumpers 4. Spare wheel with tire 5. Suitable Jack 6. Seat belt for driver, co-passenger 7. Touch screen infotainment system with Radio AM/FM, USB, Bluetooth connectivity 8. Steering mounted audio control 9. Electric foldable and adjustable ORVMs(outside rear view mirror) 10. Sun roof 11. Key less entry, Central locking 12. Reverse assist system with camera and display 13. Automatic heating ventilation and air conditioning system 14. Power window front and rear 15. At least six air bags which includes front, side and curtain airbags 16. Antilock braking system(ABS) with Electronic brake force distribution (EBD) system 17. Automatic emergency braking system 18. Traction control system (TCS) 19. Electronic stability program (ESP) 20. Hill start assist 21. Adaptive cruise control system 22. Collision warning system 23. Lane departure warning 24. Lane keeping assist system 25. Regenerative braking system 26. Tire pressure monitoring system (TPMS) 27. Electric retractable ORVMs 28. Suitable standard Plug in AC charger for charging at home 29. Additional accessories other than standard production of vehicle: Rubber floor mats. Car cover. Door visor Door Guards | अव्याताल प्रश्निक |
| 14 | Instructions Manuals | All signs and instructions in the car shall be in English. One copy of standard brochure, operator's / Owner's Instructions and Maintenance manual in English shall be supplied | i |
| 15 | Tools | A set of tools as required for general maintenance shall be supplied. | |
| 16 | Color | Standard, as per selection of employer | |
| 17 | Proven performanc e | e e | |
| 18 | Warranty | Manufacturer shall provide warranty of the car for at least 3-year or 15000 km after acceptance and at least 6 years of warranty for battery pack. | 0 |

| 19 | Initial/ After sales services | Bidder is required to supply all necessary spare parts and service for regular servicing and all repair and maintenance work. | किया अस्ताताल क्षेत्र |
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| 20 | Delivery | In the premises of TU Teaching Hospital, Maharajgunj, Kathmandu | |

| In | the | capacity | of | Authorized | person |
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