

TENDER TECHNICAL SPECIFICATIONS  
*Administration Department*

Hutchison Ports Egypt  
Private Free Zone  
RSCT- AQCT- AICT  
The Technical Specifications  
of  
Purchase of Vehicles  
Supply, warranty, and certification.

**Tender Reference: T/HUT/ADM/02/2025**

Hutchison Ports Egypt –Purchase of Vehicles
Tender Reference: T/HUT/ADM/02/2025
Date: September 11, 2025
Document Version: V2.0

## Contents

<b>1. GENERAL REQUIREMENTS AND SCOPE OF WORK .....</b>	<b>3</b>
1.1. INTRODUCTION .....	3
1.2. PURPOSE.....	3
1.3. VALIDITY OF THE OFFER .....	4
1.4. DEFINITIONS .....	4
1.5. SCOPE OF WORK .....	4
1.6. TENDERER OBLIGATION AND RESPONSIBILITY: .....	4
1.7. AMBIENT CONDITIONS .....	5
1.8. LOTS .....	5
1.9. CLARIFICATION MEETING/SITE VISIT .....	5
<b>2. INSTRUCTIONS AND CONDITIONS OF TENDERERS.....</b>	<b>5</b>
2.1. SELECTION AND AWARD REQUIREMENTS .....	5
<b>3. TECHNICAL SPECIFICATIONS.....</b>	<b>6</b>
3.1. SCOPE.....	6
3.2. TECHNICAL SPECIFICATIONS .....	6
3.3. DETAILED TECHNICAL SPECIFICATIONS: .....	7
3.3.1. ELECTRIC PICKUP TRUCK (DOUBLE/SINGLE CABIN).....	7
3.3.2. DIESEL PICKUP TRUCK (DOUBLE/SINGLE CABIN) .....	8
3.4. ELECTRIC/GASOLINE SUV – GENERAL TECHNICAL SPECIFICATIONS:.....	10
3.4.1. SUV (GASOLINE).....	10
3.4.2. SUV (ELECTRIC).....	12
3.5. SEDAN.....	15
3.6. HIGH ROOF VAN (ELECTRIC) .....	17
3.7. HIGH ROOF VAN (DIESEL-OPTION).....	19
<b>4. DEVIATION LIST .....</b>	<b>23</b>

## 1. General Requirements and Scope of Work

### 1.1. Introduction

Hutchison Ports, the world's leading port investor, developer and operator with a network of 53 ports across 24 countries and a total throughput of 82.1 million TEU in 2023, has a strong and expanding presence in Egypt through its operations in Ain Sokhna, Abu Qir, and Alexandria. At Ain Sokhna, Hutchison Ports is developing and operating the Red Sea Container Terminals, a 60-hectare greenfield site with a quay length of 1,200 meters and a draft of 18 meters, capable of accommodating Ultra Large Container Vessels (ULCV) and reaching a handling capacity of 2 million TEU upon full completion, with direct highway access to Greater Cairo. In Abu Qir, Hutchison Ports signed an exclusive 38-year agreement in 2020 with the Egyptian Navy to develop a new greenfield terminal featuring a 1,200-meter quay, 18-meter draft, and 60 hectares of terminal yard with over 100 hectares reserved for future expansion, also targeting a 2 million TEU capacity and serving as a major hub for Egypt's import and export trade, linked by new highways to Alexandria, Cairo, and other key cities. Meanwhile, Alexandria International Container Terminals (AICT), established in 2005 as a free zone company and subsidiary of Hutchison Ports, operates two fully integrated container terminals at Alexandria Port and El Dekheila Port on the Mediterranean Sea, supporting both local and international trade and reinforcing Egypt's role as a growing industrial and logistics hub.

### 1.2. PURPOSE

- a. RSCT Red Sea Containers Terminals Company S.A.E purchaser is seeking for potential supplier/vendor to supply Terminal Vehicles.

Main Offer	Optional	QTY
<b>Terminal Vehicle Single Cabinet [Electric]</b>	<b>[Turbo/Diesel]</b>	<b>2</b>
<b>Terminal Vehicle Double Cabinet [Electric]</b>	<b>[Turbo/Diesel]</b>	<b>3</b>
<b>Terminal Vehicle SUV [Gasoline]</b>	-	<b>1</b>
<b>Terminal Vehicle SUV [Electric]</b>	-	<b>4</b>
<b>Terminal Vehicle Sedan [Electric]</b>	-	<b>8</b>
<b>Terminal Vehicle High Roof Van [Electric]</b>	<b>[Diesel]</b>	<b>3</b>

- a. AQCT Abu Qir Container Terminal Company S.A.E. purchaser is seeking for potential supplier/vendor to supply Terminal Vehicles.

Main Offer	Optional	QTY
<b>Terminal Vehicle Single Cabinet [Electric]</b>	<b>[Turbo/Diesel]</b>	<b>2</b>
<b>Terminal Vehicle Double Cabinet [Electric]</b>	<b>[Turbo/Diesel]</b>	<b>3</b>
<b>Terminal Vehicle Sedan [Electric]</b>	-	<b>5</b>
<b>Terminal Vehicle High Roof Van [Electric]</b>	<b>[Diesel]</b>	<b>3</b>

- a. AICT Alexandria International Container Terminals Company S.A.E. purchaser is seeking for potential supplier/vendor to supply Terminal Vehicles.

Main Offer	Optional	QTY
<b>Terminal Vehicle Sedan [Electric]</b>	-	<b>5</b>

- b. The required Terminal Vehicle is used inside all terminals in quay side or outside.

- c. The provided technical specification - referred hereunder later - will guided the potential supplier/vendor to supply/design/fabricate the required pickups (double / single cabinet), Van,

Sedan and SUV vehicles according to the technical specification which is the minimum requirement, and any deviation shall be mentioned by supplier/vendor in the Deviation list table.

- d. The technical specification is main part of the contract (if required) or Purchasing Order will be issued to the awarded supplier/vendor.
- e. The place of acceptance of the supplies shall be the for each Terminal (Free zone area).
- f. Issuing all licenses required by local governmental authorities to operate them in or outside the terminal is falling under the supplier's responsibility.
- g. The number of vehicles required is subject to increase or decrease.

### 1.3. VALIDITY OF The OFFER

Supplier/Vendor shall keep his offer valid for a period not less than ninety (90) days from the date of opening the technical tender bid.

### 1.4. DEFINITIONS

"Company/Purchaser/Owner"	:	Hutchison Ports Egypt
"Contractor(s)"	:	Tenderer/Bidder System Integrator specialized in delivery /commissioning of Terminal Vehicles
"Vendor(s)/Supplier(s)"	:	It shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal representatives of such individuals or persons composing such firm or unincorporated company, or successors of such firm or company and permitted assigns of such individual or firm or company.
"Shall"	:	This is to be understood as a mandatory in relation to the requirements of this document
"Should"	:	This is to be understood as a strong recommendation to comply with the requirements of this document recommendation to comply with the requirements of this document
"Contract"	:	It shall mean the notice inviting tender, the tender and acceptance thereof and the formal agreement, if any, executed between Hutchison Ports and the Contractor(s) together with the documents referred therein including these conditions with appendices and any special conditions, the specifications, design, drawing, schedule of quantities with rates and amounts and schedule of rates. All these documents taken together shall be deemed to form one Contract and shall be complementary to one another.
"SOW"	:	Scope of Work

### 1.5. SCOPE OF WORK

Hutchison Ports Egypt is Looking for potential supplier/vendor to supply, commissioning, and test delivered Terminal Vehicles - that fit for the purpose.

### 1.6. Tenderer Obligation and Responsibility:

- a. The bidder is committed to provide tools and all equipment with power supply during the commissioning and startup process (if required).
- b. The required tests are included in the tenderer's scope of work, as per the purchaser's requirements for the Terminal Vehicles whenever required.
- c. The Tenderer must provide all offered/delivered steel /painting certificates.
- d. The Supplier/vendor must provide the commissioning and startup procedures to the purchaser–Engineering if needed.

- e. Any damage/s or harm to the Terminal Vehicles, Yard, and terminals assets resulting from the commissioning process is under the supplier/vendor's responsibility, and the supplier/vendor has to rectify it immediately.
- f. Tenderer shall adhere to terminals safety and security regulations and also provide their staff with the required safety gear.
- g. Tenderer shall provide external and internal transportation for their personnel and equipment, which will be used in commissioning and test procedures.
- h. The Tenderer shall comply with the Free zone procedures regulations & be in common with Port authorities, as well as environmental regulations inside harbors and container terminals.
- i. Tenderer must deliver all necessary maintenance manuals and catalogues that demonstrate the Terminal Vehicles technical specifications in original hard and soft copies.

## 1.7. AMBIENT CONDITIONS

No	Item	Description	Specifications
1	Ambient Temperature	-5°C to +50°C (35°C monthly average of the hottest month, 25°C yearly average)	
2	Humidity	Maximum relative humidity	95%
		Minimum relative humidity	35%
		Yearly average	45%
3	Wind	Wind velocity for design purpose maximum	75 Km/hr.
4	Altitude above sea level	Maximum	Up to 1000m
5	Barometric Pressure	Yearly average	29.98 Hg
6	Rain falls (total rainfall per year)	Maximum	50 mm
		Maximum in one day	50 mm

## 1.8. Lots

This tender can be divided into lots (whenever required).

## 1.9. Clarification Meeting/Site Visit

No clarification meeting/site visit is planned, unless necessary.

## 2. INSTRUCTIONS AND CONDITIONS OF TENDERERS

### 2.1. SELECTION AND AWARD REQUIREMENTS

To be considered eligible for the award of the contract, tenderers must provide evidence that they meet or exceed certain minimum criteria described hereunder. Tenderer is advised to read these instructions carefully prior to his preparing of the tender bids:

1. These instructions are mandatory conditions of tendering assessment and any tender bid ***which does not follow these instructions will be considered incomplete bid and shall be disqualified.***
2. Declare agreement, conformity, and compliance with:
  - a. Anti-barbery document.
  - b. Hutchison Ports Group Policy 62-2021 Supplier code of conduct.
3. Declare agreement, conformity, and compliance with the provisions of the Tender's Declaration in Tender Response Format.
4. Declare agreement, conformity, and compliance with the provisions of the Statement on Conditions of Employment in Tender Response Format
5. The tender bid shall be enclosed in sealed envelopes addressed, endorsed, and deposited as required by the letter of Invitation. The Tenderer shall submit **two sets** of the following:
  - a. The complete set of form of tender including both deviation and particular

- lists (a list of items that are deviated from the purchaser's requirements in the specification and the list of installed particulars).
- b. Complete and detailed technical specification of (Tenderer proposal) including sub-suppliers' brochures and full details.
  - c. Total number of purchaser's specification stamped and signed by Tenderer.
  - d. A delivery program.
  - e. Suitable evidence that the signatory to the form of tender is authorized so to execute.
2. No unauthorized alteration or ensure to the text of the tender documents shall be permitted any tender containing such alternation or ensure not be considered.
  3. Tenderer shall be required to check the number of pages of the specifications etc. should he find any missing, duplicate, or indistinct, he must inform purchaser at once and will have the same rectified.
  4. The Tenderer must at on his own expense, to obtain for himself all information that may be necessary for the submission of his tender. The purchaser will not meet any costs incurred by the Tenderer in preparing or submitting his tender.
  5. Save only those deviation to the technical specification included on the [ Deviation list Table] - No exceptions, amendment, or modifications whatsoever he made by the vendor to the tender document.

### 3. TECHNICAL SPECIFICATIONS

**Note:**

**Where in this tender document a standard is quoted, it is to be understood that the Contracting Authority will accept equivalent standards. However, it will be the responsibility of the respective bidders to prove that the standards they quoted are equivalent to the standards requested by the Contracting Authority.**

#### 3.1. Scope

- a) The Tenderer/supplier/Vendor is bounded to all tender terms and conditions, and it's mandatory to provide tender documents stamped in the technical submitted offer.
- b) The warranty period for all provided Terminal Vehicles is five years or 100,000KM whichever comes first.
- c) The original country manufacture certificate and agency certificate should be provided.
- d) The preventive maintenance as mentioned by the OEM's recommendations to be applied in the purchaser's site.

#### 3.2. TECHNICAL SPECIFICATIONS

All the suppliers must submit the following requirements in the tender documents for evaluation and Hutchison Ports Egypt has all rights to reject the offer that hasn't included the following:

- a) Tenders shall necessarily include in the technical envelop all technical information and documents that demonstrate his former experience to production of container terminal during the last five years at least.
- b) The supplier must submit complete technical specifications bid which contains the full details of supplied Terminal vehicles.
- c) The supplier must submit the warranty procedure and the delivery time for warranty parts.
- d) The supplier must submit the agency or distribution certificate of the offered Terminal Vehicle in the tender documents.
- e) The supplier must submit complete products specification catalogue contains all technical specifications.

### 3.3. Detailed Technical specifications:

Double Cabinet: QTY [6]

Single Cabinet: QTY [4]

#### 3.3.1. Electric Pickup truck (Double/Single cabin)

1. Vehicle Type & Configuration
  - a. Type: Fully Electric Double/Single Cabin Pickup
  - b. Drive Configuration: 4x2
  - c. Seating Capacity: 5 persons (Driver + 4 passengers or Driver 2 passengers)
  - d. Body Type: Pickup with open cargo bed
  - e. Cabin: Double/Single Cabin (four doors, two rows of seats)
2. Motor and Battery
  - a. Motor Type: Permanent Magnet Synchronous Motor / AC Electric Motor
  - b. Power Output: Minimum 100 kW (134 HP)
  - c. Torque: Minimum 300 Nm
  - d. Battery Type: Lithium-ion (or better)
  - e. Battery Capacity: Minimum 50 kWh
  - f. Charging Time:
    1. AC (7kW): ≤ 8 hours
    2. DC Fast Charging (up to 80%): ≤ 60 minutes
  - g. Driving Range (WLTP/real-world): Minimum 300 km per full charge
3. Performance
  - a. Top Speed: Minimum 120 km/h
  - b. Acceleration (0–100 km/h): ≤ 12 seconds
  - c. Gradeability: Minimum 25%
4. Chassis and Suspension
  - a. Chassis Type: Ladder frame or monocoque
  - b. Front Suspension: Independent MacPherson strut / Double wishbone
  - c. Rear Suspension: Leaf spring / multi-link with coil spring
  - d. Brakes: Front and rear disc brakes with ABS + EBD
5. Tires and Wheels
  - a. Tyre Size: Minimum 215/70 R16 or equivalent
  - b. Spare Wheel: Full-size spare wheel included
  - c. Rims: Alloy or steel (minimum 16")
6. Dimensions (Minimum Requirements)
  - a. Overall Length: ≥ 5,000 mm
  - b. Overall Width: ≥ 1,800 mm
  - c. Ground Clearance: ≥ 200 mm
  - d. Cargo Bed Size (L x W x H): ≥ 1,400 x 1,400 x 450 mm
  - e. Payload Capacity: ≥ 800 kg
  - f. Towing Capacity (Braked): ≥ 1,500 kg (optional)
7. Interior Features
  - a. Air Conditioning: Standard
  - b. Infotainment System: Touchscreen display with Bluetooth, USB, Radio
  - c. Instrument Cluster: Digital or analog with battery status and range
  - d. Upholstery: Durable fabric
  - e. Windows: Power-operated
  - f. Central Locking: Yes, with remote key
8. Safety Features
  - a. Airbags: Driver and front passenger airbags (minimum)
  - b. Braking System: ABS + EBD + Brake Assist
  - c. ESC (Electronic Stability Control): Yes
  - d. Rear Parking Sensors: Yes
  - e. Rear View Camera: Optional / Preferred
  - f. Seat Belts: 3-point for all seats



9. Exterior Features
  - a. Headlamps: LED or Halogen
  - b. Fog Lamps: Front (optional)
  - c. Side Mirrors: Electrically adjustable
  - d. Towing Hook: Front and rear
  - e. Paint: Standard white or as specified (customizable)
10. Warranty and After-Sales Support
  - a. Vehicle Warranty: Minimum 3 years or 100,000 km
  - b. Battery Warranty: Minimum 8 years or 160,000 km
  - c. Service Network: Authorized local service support required
  - d. Parts Availability: Spare parts must be readily available for a minimum of 8 years
11. Compliance & Certifications
  - a. Vehicle must comply with:
  - b. Local road and vehicle registration regulations
  - c. Electric vehicle safety standards
  - d. Emissions-free certification (zero tailpipe emissions)
12. Additional Requirements
  - a. User Manual: English or local language
  - b. Tool Kit & Jack: Included
  - c. Charging Cable: AC charger cable (Type 2 or local standard)
  - d. Charging Time: AC ( $\leq 8$  hrs), DC fast charge to 80% in  $\leq 1$  hr
13. Optional Add-ons (Bid Separately)
  - a. DC fast charger unit
  - b. Roof racks
  - c. Bull bar / Roll bar

### 3.3.2. Diesel Pickup truck (Double/Single cabin)

S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
1	General	Double/Single cab Pickup, Left Hand Drive model with two-wheel drive mode, suitable for driving both in ON-ROAD condition giving smooth economic performance and in OFF-ROAD conditions capable of delivering strong adequate traction and maneuverability/stability needed for safe driving in rough, or slippery roads. Gross Vehicle Weight of the vehicle not less than 2800 Kgs and shall have seating capacity for at least 5 passengers including driver.	Make: Model: Country of Origin:
2	Engine	Water cooled diesel Engine, developing rated Power output not less than 120 Hp and Torque not less than 260 N-m at rated RPM. The Engine shall be fully equipped with all necessary items/ accessories and controlling devices for safe, smooth, efficient, economical operation and optimizing vehicle performance producing lesser amount of pollutive emissions.	Make: Model:
3	Emission Standard	The emission standard of the offered vehicle must be in compliance with or superior to the applicable Standard as prescribed by Egyptian local regulations. Vehicle Mass Emission Standard which is to be certified by local authorities.	
4	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, water temperature, fuel, oil pressure, transmission gauge etc. with all standard items of offered model vehicle	
5	Transmission	Manual shift, at least five forward and one reverse, all forward synchromesh, 2WD engaged through control at driver.	



S.N.	CRITERIA	DEPARTMENTAL REQUIREMENT	OFFERED SPECIFICATION
6	Ground Clearance	Minimum 210 mm - Higher ground clearance preferred	
7	Suspension	Suitable for toughest terrain, smooth ride, stable handling and comfortable driving conditions. Front: Independent, Double wishbone with coil spring and stabilizer/Torsion Bar. Rear: Leaf springs /shock absorbers	
8	Tires	Standard Size (front and rear)	
9	Steering	Power assisted/Power Steering	
10	Brakes	Front Disc type, rear drum type, hydraulic operated on all wheels, and parking brake.	
11	Fuel Tank Capacity	Not less than 65 Liters and enough for the 36 hours operation.	
12	Cab	4 doors, all metallic cab with insulated roof, right hand drive, laminated glass windscreen, wipers, glass windows on doors, through ventilation, comfortable and adjustable seats for driver and passenger, two sun visors, and two side view mirrors and rear-view mirror. Rear body to be metallic, pickup type with drop type tail board.	
13	Chassis and Frame	Steel, heavy duty high rigidity frame structure suitable for rough road conditions with hook at front.	
14	Essential Accessories	<ul style="list-style-type: none"> <li>• Head light, tail and rear light, reversing light and turn signals.</li> <li>• Cabin lights</li> <li>• Speedometer / odometer.</li> <li>• Heavy duty front bumper.</li> <li>• 1 Spare wheel with tyre and tube</li> <li>• Hydraulic jack with handle</li> <li>• mud guard at front and rear</li> <li>• Floor mats</li> <li>• Steering Cover</li> <li>• Seat Cover</li> <li>• Electric control ORVMS</li> <li>• Alloy Wheels</li> <li>• Front seat belt for driver and co-passenger</li> <li>• Footsteps</li> <li>• Air Conditioner with heater</li> <li>• ABS</li> <li>• Power Windows</li> <li>• Central Door Locking System</li> <li>• Dual Airbag</li> <li>• CD/MP3 Player, Preferably with Radio, MW &amp; FM.</li> <li>• Diesel warms up circuit (fuel antifreeze).</li> </ul> <p>Equipped with all accessories offered in standard model but not limited to the above items.</p>	
15	Instructions	All signs and instructions in the vehicle shall be in English/Arabic.	

**3.4. Electric/GASOLINE SUV – General Technical Specifications:**

SUV (GASOLINE): QTY [1]

SUV (ELECTRIC): QTY [4]

**3.4.1. SUV (GASOLINE)**

1. Vehicle Type & Configuration
  - a. Vehicle Type: Internal Combustion Engine SUV
  - b. Fuel Type: Gasoline (Petrol)
  - c. Body Type: SUV, 5-door
  - d. Model Year: Current or latest model year
  - e. Seating Capacity: 7-seater
  - f. Drive Type: 2WD or 4WD / AWD
  - g. Steering Configuration: Left-hand drive
2. Engine & Transmission
  - a. Engine Type: 4-cylinder, inline, gasoline engine
  - b. Displacement: Minimum 1.8L; preferred range 2.0L – 2.5L
  - c. Maximum Power Output:  $\geq 110$  kW (150 HP)
  - d. Torque:  $\geq 180$  Nm
  - e. Fuel Tank Capacity:  $\geq 50$  liters
  - f. Emission Compliance: Euro 5 / Euro 6 or equivalent local standard
  - g. Transmission: Automatic
3. Performance
  - a. Top Speed:  $\geq 160$  km/h
  - b. Acceleration (0–100 km/h):  $\leq 12$  seconds
  - c. Fuel Efficiency:  $\geq 12$  km/L (combined cycle)
  - d. Ground Clearance:  $\geq 200$  mm
  - e. Turning Radius:  $\leq 5.8$  meters
  - f. Gradeability:  $\geq 25\%$
4. Dimensions & Weight
  - a. Overall Length:  $\geq 4,500$  mm
  - b. Overall Width:  $\geq 1,800$  mm
  - c. Overall Height:  $\geq 1,650$  mm
  - d. Wheelbase:  $\geq 2,600$  mm
  - e. Curb Weight: Up to 2,000 kg

- f. Cargo Capacity (boot):  $\geq 450$  liters (with rear seats up)
- 5. Suspension & Braking
  - a. Front Suspension: Independent MacPherson strut or equivalent
  - b. Rear Suspension: Multi-link / Torsion beam
  - c. Brakes: Disc brakes on all wheels (front & rear)
  - d. ABS with EBD: Mandatory
  - e. Stability Control (ESP/ESC): Preferred
- 6. Tires and Wheels
  - a. Wheel Size: Minimum 17-inch wheels (steel or alloy)
  - b. Tires: Tubeless
  - c. Spare Tyre: Full-size or compact spare with tools
  - d. Tire Pressure Monitoring System (TPMS): Optional
- 7. Interior Features
  - a. Air Conditioning: Automatic or manual climate control
  - b. Infotainment: Touchscreen ( $\geq 7''$ ), Bluetooth, USB, Radio, AUX; Android Auto/Apple CarPlay preferred
  - c. Seats: Fabric or synthetic leather
  - d. Driver Seat: Height-adjustable
  - e. Steering Wheel: Tilt-adjustable, multifunctional
  - f. Power Windows: Front and rear
  - g. Central Locking System: With remote key or smart key
  - h. 12V Power Outlet / USB Charging Ports: Required
- 8. Safety Features
  - a. Airbags: Minimum 2 (Driver + Front Passenger), preferably 6
  - b. Seat Belts: 3-point seatbelts for all passengers
  - c. Anti-lock Braking System (ABS): Required
  - d. Electronic Brakeforce Distribution (EBD): Required
  - e. Rear Parking Sensors: Required
  - f. Rear View Camera
  - g. Traction Control / ESC
  - h. Child Safety Locks / ISOFIX Anchors: Required
- 9. Exterior Features
  - a. Headlamps: LED
  - b. Daytime Running Lights (DRL)
  - c. Fog Lamps: Front

- d. Side Mirrors: Electrically adjustable and body-colored
  - e. Rear Defogger and Wiper: Required
  - f. Front & Rear Mud Flaps: Required
10. Standard Accessories
- a. Tool Kit
  - b. Jack and Wheel Spanner
  - c. Fire Extinguisher
  - d. Warning Triangle
  - e. Floor Mats
  - f. Owner's Manual
  - g. First Aid Kit
11. Certification & Compliance
- a. Registration: Roadworthy and compliant with local laws
  - b. Emissions Compliance: Must meet the required national or international standard
  - c. Certificate of Origin & Conformity: Required
12. Documentation
- a. Owner's Manual (English or local language)
  - b. Warranty Certificate
  - c. Maintenance Schedule
  - d. Registration Documents (or assistance with local registration)
13. Optional Features (Quote Separately)
- a. Leather seats
  - b. Navigation
  - c. Alloy wheels
  - d. Tinted windows (legal)
  - e. Rear AC vents
  - f. Dash camera

### **3.4.2. SUV (ELECTRIC)**

1. Vehicle Type & Configuration
- a. Type: Fully Electric SUV
  - b. Body Style: 5-door SUV
  - c. Drive Type: 2WD or 4WD (as per requirement)
  - d. Seating Capacity: 5 adults
  - e. Steering: Left-hand drive
  - f. Usage: Passenger + Utility

2. Electric Motor & Battery
  - a. Motor Type: AC Permanent Magnet Synchronous Motor / Equivalent
  - b. Power Output: Minimum 150 kW ( $\approx$ 200 HP)
  - c. Torque: Minimum 350 Nm
  - d. Battery Type: Lithium-ion (or better)
  - e. Battery Capacity: Minimum 60 kWh
  - f. Driving Range (WLTP / Real-world):  $\geq$  400 km
  - g. Charging Ports: CCS2 / Type 2 or as per local standard
  - h. Charging Time:
    - AC Charging (7–11kW):  $\leq$  8 hours
    - DC Fast Charging (50–100kW): 20%–80% in  $\leq$  45 minutes
3. Performance
  - a. Top Speed:  $\geq$  160 km/h
  - b. Acceleration (0–100 km/h):  $\leq$  8.5 seconds
  - c. Gradeability:  $\geq$  30%
  - d. Turning Radius:  $\leq$  5.8 meters
4. Dimensions & Capacity
  - a. Overall Length:  $\geq$  4,500 mm
  - b. Overall Width:  $\geq$  1,800 mm
  - c. Overall Height:  $\geq$  1,650 mm
  - d. Ground Clearance:  $\geq$  180 mm
  - e. Boot/Cargo Space:  $\geq$  400 liters (expandable)
  - f. Wheelbase:  $\geq$  2,600 mm
  - g. Kerb Weight: Up to 2,200 kg
  - h. Payload Capacity:  $\geq$  400 kg
  - i. Towing Capacity: (if applicable)  $\geq$  750 kg (unbraked) or 1,500 kg (braked)
5. Suspension, Brakes & Steering
  - a. Front Suspension: MacPherson strut / Independent
  - b. Rear Suspension: Multi-link / Torsion beam
  - c. Braking System: All-wheel disc brakes with regenerative braking
  - d. ABS & EBD: Mandatory
  - e. Steering Type: Electric power-assisted
6. Wheels & Tires
  - a. Wheel Size: Minimum 17-inch alloy wheels
  - b. Tires: Radial tubeless, suitable for highway and mild off-road use

- c. Spare Wheel: Full-size preferred / space saver acceptable
  - d. Tyre Pressure Monitoring System (TPMS): Required
7. Interior Features
- a. Climate Control: Automatic dual-zone or tri-zone A/C
  - b. Infotainment: Touchscreen display ( $\geq 8''$ ), Bluetooth, USB, Apple CarPlay / Android Auto
  - c. Instrument Cluster: Digital or semi-digital with EV-specific info
  - d. Seats: Premium fabric or synthetic leather, adjustable front seats
  - e. Driver Seat: Height adjustable, with lumbar support
  - f. Windows: Power-operated
  - g. Central Locking: Remote-controlled with keyless entry
8. Safety & Security
- a. Airbags: Minimum 6 (front, side, curtain)
  - b. Braking System: ABS + EBD + Brake Assist
  - c. Stability Control: ESC (Electronic Stability Control) or ESP
  - d. Traction Control: Required
  - e. Hill Hold Assist: Required
  - f. Rear Parking Sensors & Camera: Required
  - g. Immobilizer / Anti-theft Alarm: Required
9. Exterior Features
- a. Headlamps: LED or projector with DRLs
  - b. Tail Lamps: LED
  - c. Fog Lamps: Front and rear
  - d. Mirrors: Electrically adjustable, auto-folding, with turn indicators
10. Additional Equipment
- a. Charging Cable (AC): Included
  - b. Portable Emergency Charger: Optional
  - c. Onboard Charger Capacity:  $\geq 7.2$  kW
  - d. Toolkit & Jack: Included
  - e. Floor Mats: Included
  - f. First Aid Kit & Fire Extinguisher: Optional (as per local regulation)
11. Compliance & Certification
- Must comply with:
    - Local electric vehicle regulations
    - Safety standards (UN/ECE or local equivalent)

- Zero-emission certification

## 12. Documentation

- a. Owner's Manual: In English or the official local language
- b. Service Booklet & Warranty Card: Included
- c. Certificate of Conformity

### 3.5. SEDAN

SEDAN (ELECTRIC): QTY [18]

#### 1. Vehicle Type & Configuration

- a. Vehicle Type: Passenger Sedan (4-door)
- b. Model Year: Latest or current production year
- c. Drive Type: 2WD
- d. Seating Capacity: 5 passengers (2 front + 3 rear)
- e. Steering: Left-hand drive

#### 2. Engine & Performance

- a. Electric
  - i. Motor Type: AC Permanent Magnet / Induction Motor
  - ii. Battery Capacity:  $\geq 45$  kWh
  - iii. Driving Range:  $\geq 300$  km (real-world)
  - iv. Charging Time: AC ( $\leq 8$  hrs), DC fast charge to 80% in  $\leq 1$  hr

#### 3. Transmission

- a. Type: Automatic (preferred) or Manual (if specified)
- b. No. of Gears: 5-speed or CVT (ICE), single-speed (EV)

#### 4. Suspension and Brakes

- a. Front Suspension: Independent MacPherson Strut or equivalent
- b. Rear Suspension: Multi-link / Torsion Beam
- c. Brakes: Front and rear disc brakes
- d. ABS & EBD: Mandatory

#### 5. Wheels & Tires

- a. Wheel Size: Minimum 15-inch
- b. Tire Type: Tubeless, radial
- c. Spare Tire: Full-size (preferred) or space-saver
- d. Rims: Steel with wheel covers or alloy (optional)

#### 6. Dimensions (Minimum Requirements)

- a. Overall Length:  $\geq 4,300$  mm
- b. Overall Width:  $\geq 1,700$  mm



- c. Ground Clearance:  $\geq 160$  mm
- d. Boot Space:  $\geq 400$  liters
- e. Turning Radius:  $\leq 5.5$  meters

#### 7. Interior Features

- a. Air Conditioning: Manual or automatic climate control
- b. Infotainment System: Touchscreen with Bluetooth, USB, FM/AM
- c. Steering: Power-assisted, tilt-adjustable
- d. Seats: Fabric or synthetic upholstery
- e. Windows: Power-operated
- f. Central Locking: With remote key

#### 8. Safety Features

- a. Airbags: Driver and front passenger (minimum), side airbags (optional)
- b. Seat Belts: 3-point seatbelts for all occupants
- c. Rear Parking Sensors: Required
- d. Reverse Camera: Optional / Preferred
- e. Immobilizer / Anti-theft System: Required
- f. Child Lock: Rear doors

#### 9. Exterior Features

- a. Headlamps: Halogen / LED
- b. Fog Lamps: Front (optional)
- c. Side Mirrors: Electrically adjustable, body-colored
- d. Wipers: Dual front, intermittent function

#### 10. Additional Equipment

- a. Tool Kit: Standard
- b. Charging Cable (AC): Included
- c. Jack & Spare Wheel: Included
- d. Floor Mats: Rubbe
- e. Fire Extinguisher: 1 kg

#### 11. Compliance & Certification

- a. Must comply with:
  - Local vehicle homologation and registration laws
  - Emission standards as per region
  - Safety requirements under international or national law

#### 12. Documentation

- a. Owner's Manual: English or local language

- b. Service Manual: Supplied
- c. Warranty Booklet: Supplied
- d. Registration Papers: Ready for local registration

### 3.6. High Roof Van (ELECTRIC)

### High Roof Van (ELECTRIC): QTY [6]

#### 1. Vehicle Type & Configuration

- a. Vehicle Type: Electric Minibus / High-roof Passenger Van
- b. Body Style: Long wheelbase, high roof
- c. Seating Capacity: 14 persons (Driver + 13 passengers)
- d. Entry/Exit Doors: 1 front door (driver), 1 side sliding passenger door
- e. Steering Position: Left-hand drive
- f. Usage Type: Passenger transport

#### 2. Electric Motor & Battery

- a. Motor Type: Permanent Magnet Synchronous / AC Electric Motor
- b. Rated Power Output:  $\geq 100$  kW
- c. Torque:  $\geq 300$  Nm
- d. Battery Type: Lithium-ion (or equivalent modern EV battery)
- e. Battery Capacity:  $\geq 70$  kWh
- f. Drive Range (Fully Loaded): Minimum 250–300 km (real-world conditions)
- g. Charging Port: CCS2 / Type 2 (or as per local standards)
- h. Charging Time:
  - AC Charging (7–11 kW):  $\leq 8$  hours
  - DC Fast Charging (50–100 kW):  $\leq 1$  hour (20% to 80%)
- i. Regenerative Braking: Required

#### 3. Chassis, Transmission & Suspension

- a. Drive Type: Rear-wheel drive or front-wheel drive
- b. Transmission: Single-speed automatic (standard for EVs)
- c. Chassis: Ladder-frame or monocoque with reinforced underbody
- d. Front Suspension: Independent MacPherson strut or leaf spring
- e. Rear Suspension: Leaf spring or equivalent heavy-duty suspension
- f. Braking System:
  - Disc brakes front and rear
  - Regenerative braking system
  - ABS + EBD + Brake Assist

#### 4. Dimensions & Weight

- a. Overall Length:  $\geq 5,800$  mm
- b. Overall Width:  $\geq 1,900$  mm
- c. Overall, Height:  $\geq 2,500$  mm
- d. Wheelbase:  $\geq 3,500$  mm
- e. Ground Clearance:  $\geq 180$  mm
- f. Turning Radius:  $\leq 6.5$  meters
- g. Gross Vehicle Weight (GVW):  $\leq 4,500$  kg
- h. Payload Capacity:  $\geq 1,200$  kg

#### 5. Wheels & Tires

- a. Wheel Size: Minimum 16-inch steel or alloy wheels
- b. Tires: Tubeless radial, heavy-duty for passenger load
- c. Spare Wheel: Full-size spare included

#### 6. Interior & Passenger Comfort

- a. Passenger Doors: One manual or powered sliding door
- b. Seating Arrangement: 2+3+3+3+3 layout (including driver)
- c. Seat Material: Fabric or synthetic leather with headrests
- d. Safety Belts: 3-point seatbelts for all occupants
- e. Air Conditioning:
  - Front and rear A/C
  - Separate vents for passengers
- f. Cabin Lighting: LED interior lights
- g. Windows:
  - Manual or power windows for front seats
  - Fixed/tinted windows for rear (safety glass)

#### 7. Safety & Security

- a. Airbags: Driver and front passenger
- b. Braking System: ABS + EBD
- c. Reverse Camera & Sensors: Required
- d. Fire Extinguisher: Mounted and accessible
- e. Emergency Exit: Roof hatch or rear emergency door
- f. First Aid Kit: Included
- g. Speed Limiter: Optional (e.g., 100 km/h)
- h. Central Locking: With remote
- i. Immobilizer / Anti-theft System: Required

#### 8. Dashboard & Driver Features

- a. Instrument Cluster: Digital or semi-digital with EV-specific readouts
  - b. Infotainment System: Basic touchscreen ( $\geq 7"$ ) with USB, Bluetooth, FM/AM
  - c. 12V or USB Charging Ports: For driver and front passenger
  - d. Steering Wheel: Adjustable, multifunction (optional)
  - e. Driver Seat: Adjustable with lumbar support
9. Exterior Features
- a. Headlights: Halogen or LED
  - b. Daytime Running Lights (DRL): Required
  - c. Side Mirrors: Electrically adjustable and foldable
  - d. Front & Rear Bumpers: Body-colored or black plastic
  - e. Step Board: Provided for easy access
  - f. Body Color: White
10. Accessories & Standard Equipment
- a. Fire extinguisher
  - b. Charging Cable (AC): Included
  - c. Tool kit with jack and wheel spanner
  - d. Warning triangle
  - e. Floor mats
11. Certifications & Compliance
- a. Zero Emission Certification
  - b. Compliant with: Local transportation authority standards
  - c. Safety Standards: As per UN/ECE or national equivalents
12. Documentation
- a. Owner's manual (English or local language)
  - b. Service booklet and maintenance schedule
  - c. Warranty card
  - d. Registration documents (or assistance with registration)

### **3.7. High Roof Van (DIESEL-Optional)**

1. Vehicle Type & Configuration
- a. Type: High-roof, long-wheelbase passenger van
  - b. Fuel Type: Diesel
  - c. Seating Capacity: 14 persons (Driver + 13 passengers)
  - d. Body Style: Fully enclosed, high roof with side sliding door

- e. Steering Configuration: Left-hand drive
- f. Doors:
  - 1 driver's door
  - 1 front passenger door
  - 1 sliding side door for passenger entry/exit
  - 1 rear door (swing or lift-type)
- 2. Engine & Transmission
  - a. Engine Type: Water-cooled, 4-cylinder, turbocharged diesel
  - b. Displacement: Minimum 2.2L
  - c. Maximum Power Output:  $\geq 100$  kW (135 HP)
  - d. Torque:  $\geq 300$  Nm
  - e. Fuel Tank Capacity:  $\geq 70$  liters
  - f. Emission Standard: Euro 3/Euro 4 / Euro 5 / Euro 6
  - g. Transmission Type: 6-speed manual or automatic
- 3. Performance
  - a. Top Speed:  $\geq 140$  km/h
  - b. Fuel Efficiency (combined):  $\geq 10$  km/L
  - c. Gradeability:  $\geq 25\%$
  - d. Turning Radius:  $\leq 6.5$  meters
  - e. Ground Clearance:  $\geq 180$  mm
- 4. Dimensions & Weight
  - a. Overall Length:  $\geq 5,800$  mm
  - b. Overall Width:  $\geq 1,900$  mm
  - c. Overall, Height:  $\geq 2,500$  mm
  - d. Wheelbase:  $\geq 3,500$  mm
  - e. Gross Vehicle Weight (GVW):  $\leq 4,500$  kg
  - f. Payload Capacity:  $\geq 1,200$  kg
  - g. Luggage Space (behind last row):  $\geq 300$  liters (or specify preference)
- 5. Chassis, Suspension & Braking
  - a. Chassis Type: Ladder frame or monocoque
  - b. Front Suspension: Independent suspension (coil spring/torsion bar)
  - c. Rear Suspension: Leaf spring or multi-leaf for heavy load support
  - d. Braking System:
    - Front & rear disc brakes.
    - Anti-lock Braking System (ABS)
    - Electronic Brakeforce Distribution (EBD)

**6. Wheels & Tires**

- a. Tyre Size: Minimum 215/75 R16 (or equivalent for load class)
- b. Wheel Type: Steel rims (alloy optional)
- c. Tyre Type: Tubeless, radial, all-terrain
- d. Spare Wheel: Full-size spare with mounting kit and tools

**7. Interior & Passenger Cabin**

- a. Interior Roof Height: Sufficient to allow standing or comfortable headroom
- b. Seating Configuration: 2+3+3+3+3 or similar, forward-facing bench seats
- c. Seat Material: Durable fabric or synthetic leather with headrests
- d. Seat Belts: 3-point safety belts for all seats
- e. Air Conditioning:
  - o Front and rear A/C
  - o Separate controls and vents for rear passengers
- a. Interior Lighting: LED cabin lights
- b. Passenger Windows: Fixed/tinted safety glass
- c. Passenger Entry Step: Provided

**8. Driver Cabin & Dashboard Features**

- a. Driver Seat: Manually adjustable with lumbar support
- b. Steering Wheel: Power-assisted, tilt adjustable
- c. Instrument Panel: Digital or analog cluster with speedometer, fuel gauge, odometer, engine warning lights
- d. Infotainment System: Basic stereo with AM/FM, USB, AUX, Bluetooth (touchscreen optional)
- e. Charging Ports: 12V socket or USB for driver and front passenger

**9. Safety & Security Features**

- a. Airbags: Driver and front passenger (minimum)
- b. Braking Aids: ABS + EBD
- c. Reverse Parking Sensors: Required
- d. Rearview Camera: Optional / Preferred
- e. Fire Extinguisher: Provided
- f. First Aid Kit: Provided
- g. Child Lock System: On sliding door
- h. Immobilizer / Anti-theft System: Required

**10. Exterior Features**

- a. Headlamps: Halogen or LED
- b. Tail Lamps: LED or halogen

- c. Fog Lamps: Front
- d. Mirrors: Electrically adjustable side mirrors
- e. Windshield Wipers: Front with intermittent control; rear wiper optional
- f. Body Paint: White
- g. Front & Rear Bumpers: Body-colored or black plastic.

#### 11. Accessories & Tools

- a. Tool kit (jack, spanner, screwdriver, etc.)
- b. Warning triangle
- c. Floor mats (rubber or carpeted)
- d. Wheel wrench and jack
- e. Owner's manual

#### 12. Compliance & Documentation

- a. Registration: Ready for use or assistance with local registration
- b. Certificate of Conformity: Required
- c. Emission Compliance Certificate: Required
- d. Owner's Manual: Supplied (in English or official language)
- e. Warranty & Service Booklets: Supplied
- a. Handover Documents: All keys, manuals, registration papers, etc.



4. DEVIATION LIST

Table 1 Deviation List

The Purchaser's Specifications		Description of Deviation from Purchaser Specification
Item No	Description	

***END OF SPECIFICATIONS***