

**PART V. Classifications of the requirement**

**Technical Requirements  
For EV 2WD Automobile Sedan**

No.	Description	Requirement	Evaluation Methodology	Allocated point	Bidders Offer/Proposal
<b>1 GENERAL</b>					
<b>The intent of this specification is to describe an electrical car to be used on road in Ethiopia. It shall be constructed, assembled and equipped with as per current manufacturing practices.</b>					
1.1	The vehicle shall be required to operate under the following environmental conditions:				
	Temperature	0-55 °C	Knock Out		
	Climate	Humid Tropics-arid Desert	Knock Out		
	Altitude	Sea level -2500m	Knock Out		
1.2	Warranty	Greater than or equal to (12 months or 50,000 km), whichever comes first with all conditions stipulated under the bid instruction	Knock Out		
1.3	Spare parts list	Recommended spare part list shall be submitted with the offer	Knock Out		
1.4	Pre-Delivery Service	The manufacturer or his delegated dealer shall give washing, lubrication and inspection services before the vehicle is put in to operation.	Knock Out		
<b>2 TECHNICAL SPECIFICATIONS</b>					
<b>2.1 Fundamental Requirements</b>					
	Vehicle Type	EV Automobile Sedan	Knock Out		
	Curb weight	Shall be indicated	Knock Out		
	Gross Vehicle Weight	(1600-2200 kg)	Knock Out		
	Seating capacity	5 persons including driver	Knock Out		
	Drive	2WD	Knock Out		
<b>2.2 Power plant</b>					
	Maximum output power kw/rpm	Shall be indicated	Knock Out		
	Max. output Torque Nm/rpm	Shall be indicated	Knock Out		
	Power type	Pure electricity	Knock Out		
	The power plant EV motor	Shall be brush less/ Synchronous permanent magnet motor/	Knock Out		
	Two port charging	Both by house hold electric outlet (Slow charging and quick charge/charging station) Charging unit shall use 220 and ≥340 AC input respectively	Knock out		
	Distance coverage with full charge	≥ 310 km	Knock Out		
	Port location	Shall be indicated	Knock Out		
	Charging time(Slow & Fast)	Shall be indicated	Knock Out		
	Charging Power(Slow & Fast)	Shall be indicated	Knock Out		
	Charging speed(Slow & Fast)	Shall be indicated	Knock Out		
<b>2.3 Lubrication System</b>					
	Lubrication	Manufacturer's current standard	Knock Out		
<b>2.4 Electrical System</b>					

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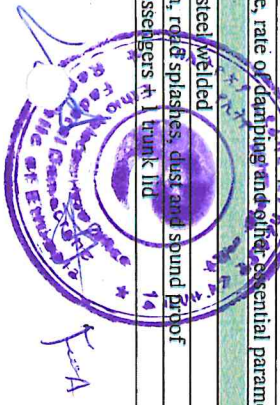
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No.	Description	Requirement	Evaluation Methodology	Allotted point	Bidders Offer/Proposal
	Battery type and capacity	Tropical, 12V@ ≥20 HR. rating	Knock out		
	Battery type and capacity	Lithium-ion polymer /Shall be indicated/	Knock Out		
	Lithium-ion battery warranty	At least 8 years	Knock Out		
	Horn electrical	Electrical	Knock Out		
	Lighting system	Manufacturer current standard	Knock Out		
	Wind shield wipers	Electrical operated 3 speed high, low and intermittent)with electrical washer	Knock Out		
	Hazard warning flasher	Manufacturers standard flasher visible to the front and rear shall be provided	Knock Out		
	Warning Device 1	Audible	Merit Point		
		Visual	Knock Out		
2.5	CHASSIS				
2.5.1	Power Train				
	Transmission	Full Automatic/EV single speed gearbox	Knock Out		
	Type		Knock Out		
	Shifting mechanism	Manufacturer Current Standard	Knock Out		
	No. of speeds:	Shall be indicated	Knock out		
2.5.2	STEERING				
	Type	Left Hand, electrical power assisted with tilt and collapsible	Knock Out		
2.9.3	BREAKS				
	Service Break	Manufacturer's current product shall be accepted, ABS and EBS shall be fitted	Knock Out		
	Parking Break	Manufacturer's current product shall be accepted.	Knock out		
	The brake system	Shall be equipped with power regenerative system	Knock out		
2.5.4	WHEELS and TIRES				
	All wheels and rims	Shall be interchangeable	Merit Point		
	Tires				
	Type	Tubeless	Merit Point		
	Size	Manufacturer's current product	Merit Point		
	A complete spare tire with carrier	Shall be provided	Knock out		
2.5.5	SUSPENSIONS AND AXLES				
	Front	Manufacturer's current product	Knock out		
	Rear	Manufacturer's current product	Knock out		
	Shock absorber	Manufacturer's current product	Knock out		
	Axles	Type, rate of damping and other essential parameters shall be provided.	Merit Point		
2.6	BODY FUNDAMENTAL				
	Construction	All steel welded	Knock out		
		Rain, road splashes, dust and spud proof	Knock out		
	No. of doors	4 passengers + 1 trunk lid	Knock out		

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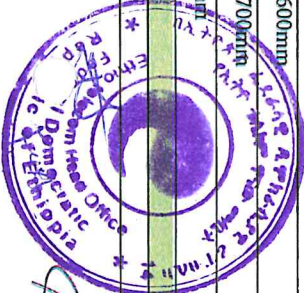
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No.	Description	Requirement	Evaluation Methodology	Allotted point	Bidders Offer/Proposal
	Locking system	A central door locking system shall be provided where the system is activated by the driver's door locks on all four doors.	Knock Out		
	Seats	Manufacturer's current standard upholstery	Merit point		
	Front seats	Adjustable, Front Separate	Knock out		
	Safety belts	Shall be provided for driver and passengers	Knock out		
	Air bag	Shall be fitted at the front for both driver and passenger	Knock out		
	Glasses	Safety type	Knock out		
	Sun Visors	Dual Adjustable	Knock out		
	Mirrors	2 sufficiently wide exterior mirrors on the left and right hand side and one interior, (electrically operated)	Knock out		
	Hand hold grips	Shall be provided	Merit point		
	Power Windows (F&R)	Shall be provided	Knock Out		
	Air conditioner	Shall be provided	Knock out		
	Foot rest	Shall be provided	Merit Point		
	Wind screen defroster	Shall be provided	Knock Out		
	Rear defogger	Shall be provided	Knock Out		
	Head Rest Front Seat	Shall be provided	Knock out		
	Head Rest Rear Seat	Shall be provided	Merit Point		
	Instrumental panel	Manufacturer's current standard (detail list shall be provided). All gauges and controls shall be labeled in English.	Knock out		
	Audio system	FM/AM or SW 4 band radio with CD player	Merit Point		
	Bumpers (F&R)	FM, four speakers and power antenna, Bluetooth & USB Port/connector/ Heavy duty construction	Merit Point		
	Towing device (F&R)	Shall be fitted (at least one side has to be provided)	Knock Out		
	Mud flap (F&R)	Shall be provided	Merit Point		
	Rare view camera	Shall be provided	Merit Point		
	Parking assistant warning system	Shall be assisted by sound	Merit Point		
<b>2.11</b>	<b>DIMENSION (Fundamental)</b>				
	Overall length	3450-5000mm	Knock out		
	Overall width	1645-2000mm	Knock out		
	Overall Height	1420-1600mm	Knock out		
	Wheel base	2480-2700mm	Knock out		
	Ground clearance	≥ 150mm	Knock out		
<b>2.12</b>	<b>PERFORMANCE REQUIREMENTS</b>				
	Turning radius curb to curb (m)	≤ 5.6m *	Knock out		



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No.	Description	Requirement	Evaluation Methodology	Allotted point	Bidders Offer/Proposal
	Grade ability (degree)	Shall be indicated	Merit Point		
	Maximum speed Km/hr	≥ 120 Km/hr	Knock out		
	Certified Braking distance at average speed M/sec	Shall be given (Bidders shall put their stamp and provide the data that is recognized by the manufacturer)	Merit Point		
	Acceleration time in Second(s)	Shall be indicated	Merit Point		
3.	<b>TOOLS</b>	All essential standard manufacturers' tools shall be provided with each vehicle.	Knock Out		
4.	<b>OTHERS</b>				
	Jack with wheel wrench	1 pc	Knock Out		
	Fire extinguisher	1 pc	Merit Point		
	House hold EV charger with different STD adapter.	Shall be provided.	Knock out		
	Cigarette lighter	Required	Merit Point		
	First Aid kit	Required	Merit Point		
	One set of essentials tool	Required	Merit Point		
	Pinel Hook(F&R)	Required	Merit Point		
	Ash tray	Required	Merit Point		
5.	<b>OPTIONAL ITEMS (Fundamental)</b>	Manufacturer's optional items with price list shall be provided	Merit Point		
6.	<b>COLOR</b>	Please provide all available list of colors and Ethio telecom can select from the list.	Knock out		
7.	<b>MANUALS</b>				
	Owner's manual	1 each/unit or Soft Copy	Knock Out		
	Parts manual	1 each/lot or Soft Copy (optional, but price list shall be provided)	Merit point		
	Repair manual	1 each/lot or Soft copy	Merit point		
8	<b>AFTER SALES SERVICE</b>				
	After sales service	The supplier shall have a proven aftersales service experience & facilities and willing to sign after sales service (After sales service certificates from Gov. office shall be provided together with other related document.	Knock out		
9	<b>MANUFACTURING YEAR &amp; COUNTRY OF ORIGIN</b>				
	Manufacturing Year In G.C	≥ 2022	Knock Out		
	Country of Origin	Please specify the country of origin of the vehicles .	Knock Out		
				<b>Total Points Scored</b>	

P.B. The user/commodity team may apply the mandatory, and merit at a time to compare the offered proposal of the bidders relatively or independently depending the nature of the product to be procured.

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**Field Kit Of Spare Parts FOR EWVWD Automobile sedan.**

The Following Lists for Each Unit with Price List Shall Be Provided with The Offer. The Quality, Quantity & Item Should Be Strictly Followed

Item No.	Description	Unit	Qty	Remark
1	Climate Control Air Filter	pcs	25	
2	Master cylinder Brake Kit	Set	5	
3	Brake line , Hose & Connection	pcs	10	
4	Brake lining	kit	15	
5	Brake Pad	pcs	25	
6	Fuse (Various)	Each	10	
7	Bulb (Various)	Each	10	
8	Shock absorber (F)	pcs	10	
9	Shock absorber (R)	pcs	10	
10	Steering gear rack, linkage, and boots	pcs	5	
11	Wheel cylinder kit	set	10	
12	Brake wheel cylinder Assay	pcs	5	
13	Km Sensor	pcs	5	
14	Rubber wiper blade	set	15	

