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## TECHNICAL REQUIREMENT MODIFICATION FOR THE PROCURMENT OF FULL ELECTRIC MINIBUS

Facilities and Fleet Sourcing Section | December 17, 2024

To: **All bidders**

Followed by: Elshaday.Teka

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Reference: SCD/SD/FFS/1037/2024

It is known that ethio telecom has announced open national competitive for the procurement of 40 units of **Full Electric Minibus with RFQ No.4271093**. The bid is under floating starting from December 3, 2024 to January 2, 2025

In connection to this, ethio telecom would like to give the technical requirement Modification attached with this letter.

Therefore, we advise bidders to consider the clarification given and submit your bid documents as per the deadline.

Best Regards;



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## PART V. Classifications of the requirement

(Please make (✓) wherever it fulfills the requirement)

### Technical Requirement/Specifications for

#### PURE ELECTRIC MINI BUS 12 SEAT

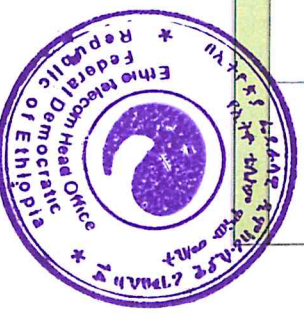
No.	Requirement Description	ET Request	Evaluation Methodology	Allotted point	Bidders Offer/ Proposal
<b>1</b>	<b>GENERAL REQUIREMENTS:</b>				
The intent of this specification is to describe ELECTRIC MINI BUS 12 SEAT to be used for public transport on/off roads in Ethiopia. It shall be constructed, assembled and equipped with as per current manufacturing practices.					
1.1	Service requirements: 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-2500 m	Knock Out		
1.2	Warranty	Greater than or equal to 8 years for battery pack. 36 months or 100,000 km and above whichever comes first with all conditions stipulated under the bid instruction for traction motor and for all electrical parts.	Knock Out		
1.3	Spare parts list	Manufacturers recommended spare parts list to value at least 15% of the vehicle price shall be submitted with the offer. The current price quoted shall remain fixed at least for one year.	Merit point		
1.4	Pre-Delivery Service	The manufacturer or his delegated dealer shall give washing, lubrication and inspection services before the vehicle is put into operation.	Knock Out		
<b>2</b>	<b>TECHNICAL SPECIFICATIONS</b>				

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2.1 Fundamental Requirements			
Vehicle Type	Pure Electric mini bus	Knock Out	
Gross Vehicle Weight	2700-3200kg	Knock Out	

Make and model	Shall be indicated	Knock out		
Seating Capacity	12 including driver without folding chair	Knock Out		
Power type	Electric	Knock out		
Drive	2WD/4WD	Knock Out		
2.2 Power unit				
2.2.1 Battery				
type	Lithium ion/Lithium ion polymer	Knock Out		
Distance coverage with full charge	≥ 250 km	Knock Out		
Battery capacity	Shall be indicated	Knock out		
Battery management system which monitor battery state parameters like:	Current standards	Knock Out		
<ul style="list-style-type: none"><li>• State of charging</li><li>• State of health</li><li>• Charging acceptance</li></ul>				
Battery thermal management; Maintain the battery system in optimum temperature range /while charging and discharging / under cold and hot weather	Current standards	Knock Out		
2.2.2 port, charging time and Charging Cable	Shall be universal /standards/ type for both fast and slow charging separately.	Knock Out		
Charging port		Knock Out		
Charging port location	Shall be indicated	Knock Out		



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	Single phase and three phase charging cable/max voltage≥ 220 and max current ≥ 80 A and electronic or mechanical lockable while charging.	Shall be provided	Knock Out		
	Charging time /slow and fast/	Shall be indicated	Knock Out		
	Charging power/slow and fast/	Shall be indicated	Knock out		
	Charging speed/slow and fast/	Shall be indicated	Knock out		
2.2.3	Electric motor/traction motor/				
	Type				
	permanent magnet synchronous motor/AC motors/ with regenerative function	Shall be provided/equipped	Knock Out		
	Max. output power KW/RPM	Shall be indicated	Knock Out		
	Max. output torque NNM/rpm	Manufacturer's current standard	Knock Out		
2.4	Lubrication System				
	Type	Manufacturer's current production shall be accepted.	Knock Out		
2.5	Cooling System				
	Medium for battery pack	Current production and shall be specified	Knock Out		
	Medium for accessories and others	Water/ coolant	Knock Out		
	Circulation	Mechanically pump forced	Knock Out		
	Radiator	Tropical, heavy duty type	Knock Out		
	Cooling Fan	Manufacturers current standard	Knock Out		
	Warning Device	Audible	Merit Point		
		visual	Knock Out		
2.8	Electrical System:				
	Ignition System	Manufacturers Current Standard	Knock Out		



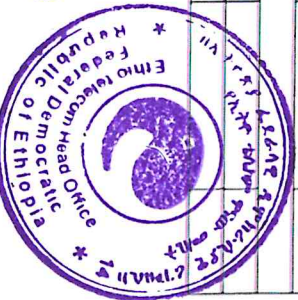


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	Auxiliary Battery type and capacity	Tropical, 12V @ 20 HR able to function all accessories	Knock Out		
	Alternator output	Shall be indicated	Merit Point		
	Starter motor capacity	Shall be indicated	Merit Point		
	Horns	Electrical	Knock Out		
	Lighting System	Manufacturer's current standard	Knock Out		
	Wind shield wipers	Electrically operated Greater than or equal to 2- speeds with electrical washers	Knock Out		
2.9	CHASSIS				
2.9.1	Power train				
	Clutch	Manufacturer's current standard. (Type, total friction area and torque capacity shall be given.	Knock Out		
	Transmission				
	Type	Current standard	Knock Out		
	Axle				
	Front capacity	Shall be indicated	Merit Point		
	Rear capacity	Shall be indicated	Merit Point		
	Differential	Manufacturer's current product. (Fill in and drain plug shall be magnetic)	Knock Out		
2.9.2	Steering				
	Type	Left hand, power assisted Tilt able	Knock Out		
2.9.3	Brakes				
	Service brake	Manufacturer's current standard shall be accepted. (Brake efficiency shall be indicated)	Merit Point		
	Parking brake	Manufacturer's current product. Hand lever operated shall be accepted. (Brake efficiency shall be indicated)	Merit Point		
	ABS (EBS) or other latest Technology	Shall be fitted	Merit Point		
2.9.4	Wheels & Tires				
	Wheel & tires	All wheels and rims shall be interchangeable.	Knock Out		
	Tire Type	Tube/Tubeless Radial	Knock Out		

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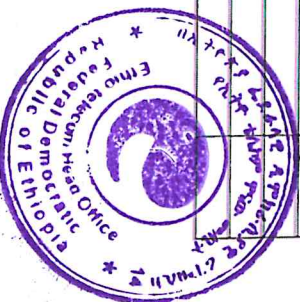


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	Size	≥ 195R15	Merit Point	
	Spare Tire	A complete spare tire with carrier shall be provided.	Knock Out	
2.9.5	Suspension system			
	Front & Rear	Manufacturer's current product, heavy duty double acting telescopic shock absorber.	Knock Out	
	Suspension Type and efficiency	Type, rate of damping & other essential parameters shall be provided.	Merit Point	
2.10	BODY (Fundamental)			
	Construction	Rain, road splashes, dust and sound proof.	Knock Out	
	Roof type	High is Preferable	Knock Out	
	Floor	Flat	Knock Out	
	Overall length	4015-5200mm	Knock Out	
	Over all width	1320-1930mm	Knock Out	
	Overall height	1250-2000mm	Knock Out	
	Rear over hang	Shall be given	Knock Out	
	Front over hang	Shall be given	Knock Out	
	Doors	Sliding for passage and 1 back door	Knock Out	
	Seats	Current product	Knock Out	
	Front seat	Separate and adjustable	Knock Out	
	Safety belt	Shall be provided for both the driver & passengers	Knock Out	
	AIR bag for safety	Shall be fitted for at least driver	Knock Out	
	Glass	Safety type, frosted blind side & back panels	Knock Out	
	Sun visors	Dual adjustable	Knock Out	
	Hand hold grips	Shall be provided	Knock Out	
	Mirrors	2 exterior	Knock Out	
	Instrument panel	Current product	Knock Out	
	Wheel base	≥2500mm	Knock Out	
	Ground clearance	≥180mm	Knock Out	

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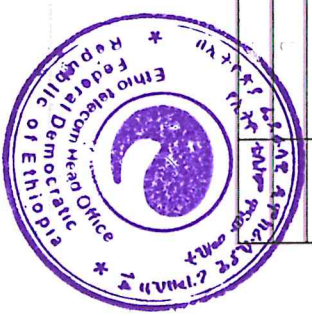


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Bumpers (F & R)	Heavy duty steel construction or Hard plastic with inside metal frame	Merit Point		
Towing device (F & R)	Shall be fitted	Merit Point		
Mud flaps (F & R)	Shall be provided	Merit Point		
Audio system	FM/AM or SW, Abund Radio, two speakers and antenna.	Knock Out		
	FM/AM or SW, Abund Radio with CD or tape player, and able to play with flash player, blue tooth two speakers and antenna.	Merit Point		
Air conditioner	Shall be provided	Knock Out		
Foot rest	Shall be provided	Merit Point		
Wind screen defrosters	Shall be provided	Knock Out		
<b>2.1.1 PERFORMANCE REQUIREMENTS</b>				
Turning radius, curb to curb	≤ 6 m ±0.5	Knock Out		
Grade ability (degree)	Shall be indicated	Merit Point		
Maximum speed	≥ 115 km /HR.	Knock Out		
Tread (front /rear)	Shall be given	Merit Point		
Approach angle	Shall be given	Knock Out		
Departure angle	Shall be given	Knock Out		
Certified and engine test data	Shall be provided	Merit Point		
<b>3 TOOLS</b>				
All essential standard manufacturers tools shall be provided with each vehicle				
<b>4 OTHERS</b>				
Grease gun	1 each	Merit Point		
Jack, hydraulic with wheel wrench	1 each	Knock Out		
Cigarette lighter	Not Required	Merit Point		
Ash tray	Required	Merit Point		
Hand grab, internal	Required	Merit Point		
Pin tie hooks (F & R)	Required	Merit Point		

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5	OPTIONAL ITEMS (Fundamental)	Knock Out	
	Manufactures optional items with price list shall be provided.		

6	COLOR			
	Color type	As per the buyer's choice. All available/alternative / manufacturer color should be attached with the offer	Knock Out	
7	MANUALS			
	Owner manual	1 each /unit	Knock Out	
	Parts manual	1 each /lot (optional but price list shall be provided)	Merit Point	
	Repair manual	1 each /lot (optional but price list shall be provided)	Merit Point	
	Year Of manufacturing In Gregorian calendar	2024 and above	Knock Out	
	Country of Origin	Shall Be specified	Knock Out	
8	After Sales Service			
	After Sales service	Well organized and owned After sales center with enough spare part supply. It shall be checked and evaluated by physical visit.	Knock Out	

#### Additional Mandatory Requirement

Description	ethio telecom Requirement	Evaluation method
Pure electric Mini bus Quantities	40	Knock out
Manufacturer authorization	Shall be provided /presented	Knock out
Delivery time	Less than or equal to three month	Knock out

