

	<p>भारतीय प्रौद्योगिकी संस्थान मद्रास चेन्नै 600 036 INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 भंडार एवं क्रय अनुभाग STORES & PURCHASE SECTION Email: adstores@iitm.ac.in दूरभाष: (044) 2257 8285 / 8287 / 8288 फ़ैक्स: (044) 2257 8292 Telephone : (044) 2257 8285/8287/8288 FAX: (044) 2257 8292 GSTIN: 33AAAAI3615G1Z6</p>	
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Mrs. P.K. Sheba Sabari
Assistant Registrar (Stores & Purchase)

Date: 27.07.2023

CORRIGENDUM – IV

“SUPPLY OF E-BUS WITH AC AND WITHOUT-AC FOR STUDENT COMMUNITY AT IIT MADRAS”
Tender No. IITM/SPS/E-Bus/008/2023-24/SPL
Tender ID: 2023_IITM_159232_1

1. In Page No. **14 & 18 of 25**, under **Technical Specification of Category I-E- Bus without AC- 4 nos. of Annexure A & B, Sl.No.10** may be read as:

Sl.No	Item	Descriptions
1	Number of E-Buses	4 No's
2	Length of E-Buses	About 9 m
3	Width of E-Buses	Around 2500 mm
4	Floor Height	Atmost 900 mm or less preferred
5	Turning Circle Radius	9 m maximum
6	Number of seats and doors	the seat layout, specification and door layout will be jointly finalized after order issue. Design should be wheel chair operation compatible.
7	Lighting and other fitments	LED Head Lamps and plush interior LED lighting, Camera, with provision of wif-fi.
8	Air conditioning	No
9	Battery Type	Lithium Ion battery (not less than 240kWhr)
9a	Charger	Dual gun charger will have 2ports for every 2 buses. One port will be provided for each bus.
9b	Charging time	Not more than 120 Mins
10	Range	Minimum 180Km at 80% SoC as per AIS 040
11	Homologation	College application
12	Training for drivers	To be provided by OEM to IITM drivers at free of cost prior to commissioning.
13	Power & Maintenance Infrastructure and related space for vehicles	IITM will provide at free of cost.
14	Specification and Schedule for the readiness	OEM or authorised re-seller of OEM
15	Tool Box, Jack and Spare Tyre, Spare Wheel. will be provided in the bus at a suitable location	Minimum of 1 no. need to be provided and Spare wheel to be provided at the Service Location.
16	Warranty – E-Bus and charger	1 Year of standard warranty should be Total Guarantee for bumper to bumper.

17	CAMC – Bumper to bumper including battery and charger	9 years after the standard warranty period
18	Fire Detection and Suppression System	Need to cover all possible areas where there are chances of temperature rise, arcing or fire occurs.
Instead of		
Sl.No	Item	Descriptions
1	Number of E-Buses	4 No's
2	Length of E-Buses	About 9 m
3	Width of E-Buses	Around 2500 mm
4	Floor Height	Atmost 900 mm or less preferred
5	Turning Circle Radius	9 m maximum
6	Number of seats and doors	the seat layout, specification and door layout will be jointly finalized after order issue. Design should be wheel chair operation compatible.
7	Lighting and other fitments	LED Head Lamps and plush interior LED lighting, Camera, with provision of wif-fi.
8	Air conditioning	No
9	Battery Type	Lithium Ion battery (not less than 240kWhr)
9a	Charger	Dual gun charger need to be provided 1 No. for every two bus.
9b	Charging time	Not more than 60 Mins
10	Range	Not less than 250 kms with single charge
11	Homologation	College application
12	Training for drivers	To be provided by OEM to IITM drivers at free of cost prior to commissioning.
13	Power & Maintenance Infrastructure and related space for vehicles	IITM will provide at free of cost.
14	Specification and Schedule for the readiness	OEM or authorised re-seller of OEM
15	Tool Box, Jack and Spare Tyre. will be provided in the bus at a suitable location	Minimum of 1 no. need to be provided
16	Warranty – E-Bus and charger	1 Year of standard warranty should be Total Guarantee for bumper to bumper.
17	CAMC – Bumper to bumper including battery and charger	9 years after the standard warranty period
18	Fire Detection and Suppression System	Need to cover all possible areas where there are chances of temperature rise, arcing or fire occurs.

6. In Page No. **Page 14 & 19 of 25**, under **Technical Specification of Category II-E- Bus with AC- 1 no. of Annexure A & B, Sl.No.10**, may be read as:

Sl.No	Item	Descriptions
1	Number of E-Buses	1 No
2	Length of E-Buses	About 9 m
3	Width of E-Buses	Around 2500 mm
4	Floor Height	Atmost 900 mm or less preferred
5	Turning Circle Radius	9 m maximum
6	Number of seats and doors	the seat layout, specification and door layout will be jointly finalized after order issue. Design should be wheel chair operation compatible.

7	Lighting and other fitments	LED Head Lamps and plush interior LED lighting, Camera, with provision of wifi.
8	Air conditioning	Yes
9	Battery Type	Lithium Ion battery (not less than 340kWhr)
9a	Charger	1 single charger need to be provided.
9b	Charging time	Not more than 120 Mins
10	Range	Minimum 180Km at 80% SoC as per AIS 040
11	Homologation	College application
12	Training for drivers	To be provided by OEM to IITM drivers
13	Power & Maintenance Infrastructure and related space for vehicles	IITM will provide at free of cost.
14	Specification and Schedule for the readiness	OEM or authorised re-seller of OEM
15	Tool Box, Jack and Spare Tyre, Spare Wheel. will be provided in the bus at a suitable location	Minimum of 1 no. need to be provided and Spare wheel to be provided at the Service Location.
16	Warranty – E-Bus and charger	1 Year of standard warranty should be Total Guarantee for bumper to bumper.
17	CAMC – Bumper to bumper including battery and charger	9 years after the standard warranty period
18	Fire Detection and Suppression System	Need to cover all possible areas where there are chances of unusual temperature rise, arcing or fire occurs.

Instead of

Sl.No	Item	Descriptions
1	Number of E-Buses	1 No
2	Length of E-Buses	About 9 m
3	Width of E-Buses	Around 2500 mm
4	Floor Height	Atmost 900 mm or less preferred
5	Turning Circle Radius	9 m maximum
6	Number of seats and doors	the seat layout, specification and door layout will be jointly finalized after order issue. Design should be wheel chair operation compatible.
7	Lighting and other fitments	LED Head Lamps and plush interior LED lighting, Camera, with provision of wifi.
8	Air conditioning	Yes
9	Battery Type	Lithium Ion battery (not less than 340kWhr)
9a	Charger	1 single charger need to be provided.
9b	Charging time	Not more than 60 Mins
10	Range	Not less than 250 kms with single charge
11	Homologation	College application
12	Training for drivers	To be provided by OEM to IITM drivers
13	Power & Maintenance Infrastructure and related space for vehicles	IITM will provide at free of cost.
14	Specification and Schedule for the readiness	OEM or authorised re-seller of OEM
15	Tool Box, Jack and Spare Tyre. will be provided in the bus at a suitable location	Minimum of 1 no. need to be provided
16	Warranty – E-Bus and charger	1 Year of standard warranty should be Total Guarantee for bumper to bumper.
17	CAMC – Bumper to bumper including battery and charger	9 years after the standard warranty period

18	Fire Detection and Suppression System	Need to cover all possible areas where there are chances of unusual temperature rise, arcing or fire occurs.
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All other conditions remain unchanged. Further queries/clarification in this regard WILL NOT BE ENTERTAINED.

Note: Bidder should submit the BoQ based on the tender documents and Corrigendum's issued by IITM.

CLARIFICATIONS

The following queries raised by the bidder's and clarification of the Committee is given below.

Sl.No.	Description	Tender Condition	Queries by the Bidders	Clarified / Recommended by the Committee
1.	Page 14 & 18- Sl.No.6 TECHNICAL SPECIFICATION	Number of seats and doors: the seat layout, specification and door layout will be jointly finalized after order issue. Design should be wheelchair operation compatible	-The buses put on road has to be accredited by government authorized certifying agency such as ARAI/ICAT/CIRT etc. For this we have to be clear on all aspects of the bus design including seating, doors, Wheelchair etc. - Secondly, these buses are certified as Type I, Type II, Type III and Type IV based on the usage of the buses.	It is clearly indicated in the tender, that it has to be homologated for college application. The bus should have seating capacity of 13 passengers and above excluding driver designed and constructed specially for college application transporting students, faculty and staff. The bus should meet all the prevailing government safety and road worthiness norms for the application indicated.
2.	Page 14 & 18- Sl.No.9 TECHNICAL SPECIFICATION	"Battery Type: Lithium Ion battery (not less than 240kWhr) for Non-AC Buses and Lithium Ion battery (not less than 340kWhr) for AC Bus"	- The battery chemistry of the cells is different, and the pack of batteries also vary from model to model. The performance of the bus depends upon the how efficient the design is. We propose that battery capacity should be as per the OEM. The qualifying criteria should be that the bus should meet range requirement as per the tender. We propose that min of 230kWh to be the qualifying criteria	BATTERY CAPACITY: Rating of the battery should comply, on one time charging, each bus should comply with the route and schedule already provided (Appendix-A). This requirement should comply for entire period of 10 years. The battery in the bus should meet all the prevailing government safety norms.
3.	Page 12 Sl.No.24 Special Terms and Conditions:	Battery capacity: 240kWhr or so for the 4 Non-AC E-buses and about 340kWhr for the AC bus as battery capacity. Ensure that one time charging will fulfil one day continuous operation in campus during 6am to 10.30PM.	Request authority to amend battery capacity for both AC & NAC bus "Min 200Kwhr" or As per OEM Specifications.	TENDER CONDITION PREVAILS
4.	Page 14 Sl.No.9 TECHNICAL SPECIFICATION Category I -E-Bus With-out AC - 4 Nos	Battery Type Lithium Ion battery (not less than 240kWhr)	Request authority to amend Battery capacity "Min 200kwhr"	TENDER CONDITION PREVAILS

Sl.No.	Description	Tender Condition	Queries by the Bidders	Clarified / Recommended by the Committee
5.	Page 14 Sl.No.12 TECHNICAL SPECIFICATION Category I -E-Bus With-out AC – 4 Nos	Homologation College application	Request authority to clarify the exact College application requirement. Or Please amend the Type of Bus "Type I"	TENDER CONDITION PREVAILS
6.	Page 14 Sl.No.9 TECHNICAL SPECIFICATION Category I -E-Bus With AC – 4 Nos	Battery Type Lithium Ion battery (not less than 240kWhr)	Request authority to amend Battery capacity "Min 200Kwhr"	TENDER CONDITION PREVAILS
7.	Page 14 Sl.No.12 TECHNICAL SPECIFICATION Category I -E-Bus With AC – 4 Nos	Homologation College application	Request authority to clarify the exact College application requirement. Or Please amend the Type of Bus "Type I"	TENDER CONDITION PREVAILS
8.	Page 14 & 15 TECHNICAL SPECIFICATION Lighting and other fitments	LED Head Lamps and plush interior LED lighting, Camera, with provision of wif-fi.	Will provide bulb type headlamps Led lamps inside Request authority to accept.	TENDER CONDITION PREVAILS
9.	Page 14 & 15 TECHNICAL SPECIFICATION Fire Detection and Suppression System	Need to cover all possible areas where there are chances of temperature rise, arcing or fire occurs	FDSS will be provided in HV battery area only. FDAS will be provided in LV battery, ECU area Request authority to accept	TENDER CONDITION PREVAILS
10.	Page 25 Sl.No.1 ANNEXURE - H DECLARATION BY THE BIDDER	That E-buses supplied by our firm has not met with fire especially due to battery in the last 2 years as on the due date of submission of tender	Request you to kindly delete this clause as such accidents can occur due to many reasons which are beyond the control of Manufacturer	TENDER CONDITION PREVAILS
11.	Page 12 Sl. No. 24 Special Terms and Conditions:	Battery capacity: 240kWhr or so for the 4 Non-AC E-buses and about 340kWhr for the AC bus as battery capacity. Ensure that one time charging will fulfil one day continuous operation in campus during 6am to 10.30PM.	Request authority to amend battery capacity for both AC & NAC bus "Min 200Kwhr" or As per OEM Specifications.	TENDER CONDITION PREVAILS

Sd/-
Assistant Registrar (S&P)