



ಬೆಂಗಳೂರು ಮಹಾನಗರ ಸಾರಿಗೆ ಸಂಸ್ಥೆ : ಕೆಂಡ್ರ ಕಛೇರಿ : ಬೆಂಗಳೂರು-27

ಅಂತ್ರಿಕ (ಉತ್ಪನ್ನ) ಇಲಾಖೆ

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No: BMTTC/CO/CME(P)/

2017-18

Dt: 14.02.2018

Proceedings of the technical committee formulated for preparation of technical specification for chassis and fully built buses required for all four Corporation.

Sub: Finalization of technical specification for 9mts long and 12 mtr long Electric buses.

Ref: Circular No: 761/ vide No KST:CO:ME (P):3822:2015-16 dtd : 27.1.2016.

Members:

1. Chief Mechanical Engineer (P), BMTTC.
2. Chief Mechanical Engineer (M), BMTTC.
3. Chief Mechanical Engineer (M), KSRTC.
4. Chief Mechanical Engineer (P), KSRTC.
5. Chief Mechanical Engineer , NEKRTC.
6. Chief Mechanical Engineer , NWKRTC.
7. Sri S.N.Dhole, Scientist, CIRT, Pune- Technical Expert.

Members of the Technical Committee for preparation of Technical Specifications for chassis and fully built buses required for all four Corporations constituted vide circular cited under reference met on 14.02.2018 at 11.00 Hrs to finalize the specification to be adopted in the tender floated by BMTTC for appointment of service provider/ operator for operating 150 electric vehicle city bus services in BMTTC area on gross cost model. The technical Expert was selected from CIRT with the due approval of Competent Authority.

The Technical Expert from CIRT was provided with the details of requirement of BMTTC for operating electric vehicles. Accordingly, Sri S.N.Dhole, Scientist, CIRT, Pune- Technical Expert was invited for the pre-bid meeting held on 06.02.2018 and after participating in the pre-bid meeting the Technical Expert has provided the comments on specification of the Electric buses. The Technical Committee has gone into the details of the comments and after detailed discussions, the committee has finalized the technical specification for 9mts long and 12 mtr long Electric buses as under:

No.	Description	Mandatory Specifications to be followed	
		11-12 MTR BUSES	9 MTR BUSES
1	Expected Minimum km of Operations/day	200 with Air conditioned	200 without Air conditioned
2	Bus characteristics	Maximum floor height: 400 mm	Maximum floor height: 900 mm
3	Propulsion system	Electrical	Electrical
4	Steering system	Hydraulic Power steering with height and angle adjustment provision. Adjustable steering column	Hydraulic Power steering with height and angle adjustment provision. Adjustable steering column
5	Suspension system	Fully pneumatic complete with ECAS/electronic management and control systems	Fully Air Suspension preferable. <i>Parabolic Suspension may also be proposed</i>
6	Brake system	Dual circuit full air brakes, with disc type arrangements for front and rear brakes. Full pneumatic electronically controlled disc brakes with brake blending and rollback prevention system. Graduated hand controlled, spring actuated parking brakes acting on rear wheels	Dual circuit full air brakes, with disc type arrangements for front and drum at rear brakes preferable. Drum brakes for both front and rear wheels may also be proposed. Graduated hand controlled, spring actuated parking brakes acting on rear wheels
7	Anti skid anti brake locking system	Required	Required
8	Tyres	Steel radial tube-less. Size and performance as per CMVR	Steel radial tube-less. Size and performance as per CMVR
9	Bus dimensions (mm)		
9.a	Overall length (over body excluding bumper)	11000 to 12000	≤9650
9.b	Overall width (sole bar/floor level- extreme points)	2600	2600 max
9.c	Overall height (unladen - at extreme point)	3800 (maximum)	3800 (maximum)
9.d	Front overhang	As per CMVR	As per CMVR
9.e	Rear overhang	As per CMVR	As per CMVR
10	Maximum turning circle radius (mm)	As per CMVR	As per CMVR
11	Seating capacity	High back seats of cushion type minimum 35 + D + 1 WC	Plastic Moulded padded type minimum 30 + D
12	Capacity of standee passengers	As per Bus Code AIS 052	As per Bus Code AIS 052
13	Door	Front and Middle as per CMVR	Front/ Middle/ Rear as per CMVR (Minimum 2 doors)
14	Fire depression & suppression system	As per UBS II	As per UBS II

Note: Bus Body Building be as per latest KMVR, CMVR and also as per bus body code AIS-052 amended from time to time. The bus specification shall also meet the Fame Specification.

CME- NEKRTC.

CME- NWKRTC.

CME (M)-KSRTC.

CME (P)- KSRTC.

CME(P)- BMTc.

CME(M)-BMTc.