

Annexure-I- LWCBAC-Intermediate heating capacity

Following additional improvements/modifications/changes shall be done as detailed below:

1. All toilets shall be preassembled modules that can be dismantled and re-assembled inside the coach at furnishing stage.
2. Additional provision for water pipe arrgt. and their layout for piping shall be rearranged as per drg. no. MI008232 alt-nil for Combi-Oven and Brat pan.
3. QPC of Pipe laying inside lavatory (drg. no. LE63160 alt-p) shall be 1 no. instead of 2 nos.
4. Pipe laying inside lavatory for Lavatory module Euro-2 shall be as per drg. no. LE63157 alt-p (QPC-1 no.).
5. Pipe laying inside lavatory for Lavatory module Orient-1 shall be as per drg. no. LE63160 alt-p (QPC-1 no.).
6. Trough Floor of oriental style Lavatory Module shall be modified by raising its height by approximately 8 mm at Oriental Pan Location and accordingly height of Pillow Block shall be suitably modified.
7. For getting more clearance between Lavatory door & raised Pan area of Lavatory Trough floor and for more pivot strength, pivot bottom of lavatory door shall be directly mounted on frame extrusion bottom (LW56439 alt-a & LW56514 alt-nil) instead of wall of Lavatory Trough Floor. Accordingly, there shall be no provision of cut-out at Frame Extrusion Bottom (LW56439 alt-a & LW56514 alt-nil) for mounting of Pivot Bottom (LW56441 alt-nil).
8. Outside dustbin below wash basin shall be provided as per drg. no. MI008026 alt-a.
9. Out dustbin cum cover for Fire Extinguisher shall be provided as per dr. No. MI008029 alt-a. Accordingly, Waste bin arrgt. (item no. 12 of drg. no. LH90012 alt-nil) is not required.
10. All Dustbin shall be suitably welded for its structural holding strength and the welded joints shall be continuous and leak proof to prevent any leakage of liquid waste from the dustbin. For the same, water leak test of Dustbin shall be conducted at firm premises before dispatching the subject item.
11. Inside Dustbin shall be provided as per drg. no. MI006488 alt-Md instead of MI006488 alt-d.
12. Attachment wall shall be provided as per drg. no. MI008007 alt-b & MI008028 alt-nil instead of LH64193 alt-a (item no. 8 of drg. no. LH44001).
13. During manufacturing of Lavatory module, it shall be ensured that slots made at Trough floor for fitment of Drain for floor mounting (LW63138 alt-e) is suitably made, so that Drain for floor mounting is below floor level to avoid stagnation of water inside lavatory.
14. Suppliers may be advised to apply suitable Sealant and Adhesive at all round the contact surface of Drain for floor mounting (LW63138 alt-e) and FRP Trough Floor to avoid water leakage/seepage from joints to avoid corrosion of the coaches. While applying Sealant and Adhesive, care should be taken so that it should not affect aesthetic look of Lavatory Trough Floor.
15. To prevent corrosion of the coaches, firm shall ensure that during manufacturing and fitment of Lavatory Floor Panel, there is no water leakage/seepage occurs at any location/joints. For the same, water leak test of Lavatory Floor Panels shall be conducted at firm premises before dispatching the subject item.
16. Location of Pillow blocks at Lavatory Floor Panels of FRP modular toilet shall be ensured as per respective drawings. For the same, location of Pillow blocks shall be checked with the help of Templates at firm premises before dispatching the subject item.

173/18

MCF/RBL



17. Following attention shall be given for hole at Lavatory Trough Floor for Waste pipe for inside Wash basin as detailed under:
- Suppliers may be advised not to provide hole at Lavatory Trough Floor for Waste pipe for inside Wash basin at firm's premises.
 - Suppliers may be advised to provide hole (Ø45mm) at raised portion of Lavatory Trough Floor matching the location of Waste pipe with the help of Hole Shaw cut machine to suit to site at MCF furnishing stage.
 - Moreover, suppliers may be advised to provide PVC sleeves at the top surface of the hole and apply Silicone gel all round the pipe to avoid ingress of water to avoid corrosion of the coaches.
 - For Pipe laying for Waste Pipe (item no. 12 of drg. no. LH63001 alt-j), Pipe Ø42 (OD)x2x1246 mm (item no. -1 of drg. no. MI006005 alt-c) shall be provided as per MCF Design letter no. RBL-MD46111 (Part-XIV), dated 14.10.2024.
18. For traceability of FRP Lavatory module, Name plate shall be provided as per MCF Design letter no. RBL-MD46118, Vol-I, dated 16.02.2026 .
19. Availability of suitable Back piece / Inserts (Thickness- min. 3 mm with material specification-AISI-304) shall be ensured on Lavatories Panels for every passenger's amenities like Wash basin, Dustbin, Mirror, Fire Extinguisher, Water tap mounting plate, Gravity cock mounting plate, Health Faucet, Soap Dish, Soap Dispenser, Toilet Paper holder, Hand Rail, Mug arrgt., Hinges, Cam lock, EPPFS, Plumbing Pipe and its fittings, Drain for Floor arrgt. etc. (even if it is not mentioned in the concerned drawing).
20. Colour shade of FRP modular toilet shall be as per MCF Design letter no. RBL-MD46271 (Part-1), dated 19.03.2024.
21. Inspection agency (RITES/TPI) shall ensure compliance of all the above detailed requirements and explicitly certify the same during inspection of the FRP modular toilet.

PP
15/04/2026
(CSE/MD/FM)





MODERN COACH FACTORY, RAEBARELI

No. RBL-MD33141,

Date: 27.04.2024

NOTE

Sub: Requirement to provide the Shelf life of item during material procurement at MCF.

A number of files are being received in Mechanical Design Office from Store Deptt. through Planning Deptt. asking for "Plz provide the shelf life of item, if applicable".

In this regard, it is mentioned that for requirement to provide the Shelf life of item during material procurement at MCF, following may be followed:

- i. Shelf life may be taken from relevant specification / STR / drawings of the item or from product catalogue / data sheet provided by manufacturer / OEM.
- ii. If nothing is mentioned in above documents, it may be decided by planning deptt. according to the time period required for storage before its application / use.

This has the approval of CDE.

Encl: Nil

All CMMs

CPL

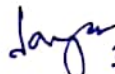
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(S.P. Govil)
Dy.CME/Design

