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भारत सरकार Government of India  
रेल मंत्रालय Ministry of Railways  
रेलवे बोर्ड Railway Board

(E-File No.3377119)

New Delhi, Dated- 08.05.2025

No. 2021/M(C)/141/2Pt2

General Managers,  
All Zonal Railways

Sub: Maintenance practices of bio-toilets in Railway coaches.

Ref : (i) RB L.No. 2021/M(C)/141/2Pt2 dated 15.12.2022

(ii) RB L.No. 2021/M(C)/141/2Pt.-2 dated 26.05.2023

During review of maintenance and upkeep of coach toilets with Zonal Railways, it has emerged that concerted actions on choking of toilets, presence of inorganic garbage in first chamber of bio-tank, misalignment of S-trap and sporadic leakage from the rubber gaskets/sealing mechanism may further improve the overall functionality of bio-toilets. This aspect will also enhance the experience of on board passengers. Towards this objective, Zonal Railways are advised to take the following actions:

1. F-type bracket for clamping the S-Trap in accordance to ICF Drawing no. 32963203 be used. This is likely to contribute to precise alignment and secure fitment of S-trap provided while retaining flexibility. Also, when placed correctly, this will provide robust vertical and horizontal restraint, mitigating the risk of dislodgement due to vibrations or dynamic loads during train operations. Pictures of the F-type mounting arrangement are attached as **(Annexure A)**.
2. Installation of Cage in Commode Chute just below Water Column be carried out for both Indian and Western-style toilets to prevent ingress of foreign objects into the bio-digester tank thereby protecting from potential blockages and damage. The design and placement of this cage should conform to schematic drawing, ensuring compatibility with existing chute configurations, attached as **(Annexure B)**.
3. Stringent Use of Correct Hose Material and Sealing Mechanisms, including circlips, to the prescribed specifications and composition is a must. Recommended inspection practices, including record keeping, be put in place wherever the supply of such items is in the scope of supply of the agency to whom such work has been outsourced.
4. Further, the instructions issued vide letters at reference are to be followed scrupulously by Zonal Railways.

DA: Annexure A- Pictures of the F-type clamp mount.  
Annexure B- Schematic drawing of SS cage.

20.05.2025  
(ऐश्वर्य सचान)  
निदेशक/ यांत्रिक इंजी. को.  
रेलवे बोर्ड

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ANANTBHINOLAIDU  
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PCMEs/ All Zonal Railways - for kind information and necessary action.





Annexure B to L.No. 2021/M(C)/141/2Pt2 dt 08.05.2025 – Schematic drawing of SS Cage

Indicative Drawing of SS -strainer for fitment in S-Trap

