

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RAILWAY BOARD**

No. 2016/EnHM/06/09

New Delhi, Dated 07.03.2024

**PCMEs
All Zonal Railways**

**Sub: Trial of Chemicals for Mechanized Cleaning and Housekeeping works.
Ref: Board's Letter No. 2016/EnHM/06/09 Dated 23.08.2017**

Several References are being received by Board for conducting field trials/approvals of chemicals/ products related to Cleaning and Housekeeping works. In this regard it is advised that, provisions of usage of chemicals are available in Standard Bid Document (SBD) of Mechanized Cleaning and Housekeeping Works. Certain chemicals/ brands have also been recommended therein, which Railway may consider for use. Further, additional chemicals, after due trials by Zonal Railways, have also been approved by this office from time to time.

2 It may be brought out that as per Para 9.0 – 7 of Chapter 8 of SBD issued vide letter under reference, Zonal Railways can incorporate, with the approval of PCME, any suitable cleaning and disinfectant chemical in their housekeeping and cleanliness contracts, other than specified/approved brands till now, based on prior successful trial of product by Zonal Railways. Railways may time to time review the performance of various chemicals for necessary action at their end.

3 Railways are advised to strictly follow the instructions mentioned in Para 2 above, to approve/conduct trials as per provisions made in SBD with the approval of PCME. However, to standardize the trial procedure, brief guidelines are enclosed as Annexure (I) & (II).

Action may be taken accordingly.

DA: As above

(Shailendra Singh)
Principal Executive Director/ME (EnHM & Proj.)

Annexure-I

Criterion for approving cleanliness/housekeeping/laundry related chemicals and products:

S.No.	Purpose of chemical	Scheme for Field Trial
i.	Chemicals used for Linen washing	A satisfactory trial report of 03 months trial period along with certificate of authenticity from RDSO or any NABL approved lab that product(s) does/do not cause any harmful effect on the environment and safe for the intended purpose. The product(s) should conform to norms specified by State Pollution Control Board and do not require special permission/license for their usage.
ii.	Chemicals used for Bio-toilet cleanliness	A satisfactory trial report of 03 months trial period along with evaluation approval from CAMTECH that intended product(s) has no deleterious effect on bio-degradation. The product(s) should conform to norms specified by State Pollution Control Board and do not require special permission/license for their usage.
iii.	Other chemicals used for cleaning & disinfecting	A satisfactory trial report of 03 months trial period and evaluation report from RDSO or any NABL approved lab evaluating therewith if any deleterious/corrosive effect has been shown by the product(s) on metal and paint surfaces. The product(s) should conform to norms specified by State Pollution Control Board and do not require special permission/license for their usage.

Note:

- i. The report may be taken in a Standard Performa (Sample Enclosed as Annexure-II).
- ii. The quantity of chemicals used to achieve the desirable standard of cleanliness is also to be fixed by trials.

Annexure-II**For trial of cleaning chemicals:**

Date of trial	Train No.	Coach No.	Name of Cleaning Chemical	Prescribed Quantity (in ml/coach)	Effect on Metal parts and/or paint of coach	Result (Poor/Satisfactory/Good)

For trial of cleaning chemicals in Bio-Toilets:

Date of trial	Train No.	Coach No.	Name of Cleaning Chemical	Prescribed Quantity (in ml/coach)	Result (Poor/Satisfactory/Good)	Details of PH, COD & Fecal E-coli count

For trial of Laundry chemicals:

Date of trial	Quantity of Linen items washed	Name of Cleaning Chemicals used	Details of Average Dosage of set of chemicals per Kg of Load	Whiteness Index of Linen Washed	Remarks for Feel/Finish & Odor of washed linen

Note: These criteria represent the minimum standards for conducting trials of chemicals/products. Railways can add further criteria on case-to-case basis.

