1/75419/2025



भारत सरकार—रेल मंत्रालय अनुसंधान अभिकल्प औरमानक संगठन लखनऊ— 226011

E-mail: dse4group@gmail.com Telephone: 2465754 & 42226(Rly) Government of India - Ministry of Railways Research, Designs & Standards Organization, LUCKNOW – 226011



Dated: As signed

No. EL/3.1.10/1 (WLU)

Principal Chief Electrical Engineer,

- 1. Central Railway, Mumbai, CST-400 001.
- 2. East Central Railway, Hazipur-844101.
- 3. East Coast Railway, Chandrashekharpur, Bhubaneshwar-751016.
- 4. Eastern Railway, Fairlie Place, Calcutta-700001.
- 5. North Central Railway, Block-A, Subedarganj, Allahabad- 211033.
- 6. Northern Railway, Baroda House, New Delhi-110001.
- 7. North Eastern Railway, Gorakhpur-273001.
- 8. South Central Railway, Secunderabad-500 071.
- 9. South East Central Railway, Bilaspur-495004.
- 10. South Eastern Railway, Garden Reach, Calcutta-700 043.
- 11. Southern Railway, Park Town, Chennai-600 003.
- 12. South Western Railway, Hubli-580020.
- 13. West Central Railway, Jabalpur-482001.
- 14. Western Railway, Churchgate, Mumbai-400 020
- 15. North East Frontier Railway, Maligaon, Guwahati-781011
- 16. North Western Railway, Jaipur- 302 006
- 17. Chittaranjan Locomotive Works, Chittaranjan 713 331
- 18. Banaras Locomotive Works, Varanasi- 221004
- 19. Patiala locomotive Works, Pativala- 147 003

Sub: Modification sheet no. RDSO/2025/EL/MS/0508, Rev. '0' dated 23.04.2025 for provision of Waterless Urinal in WAP-7 Three Phase Electric Locomotives.

Modification sheet no. RDSO/2025/EL/MS/0508, Rev. '0' dated 23.04.2025 for provision of Waterless Urinal in WAP-7 three phase electric locomotives has been issued and enclosed here with.

This is for kind information and necessary action please.

Encl: As above

Digitally Signed by Amit Yadav (Amit Yadav) Daint DirectoroStandard Electrical

Reason: Approved

File No.RDSO-EL/0/MEC(WC)/1/2023-O/o PED/TRACTION/RDSO

1/75418/2025



भारत सरकार—रेल मंत्रालय अनुसंधान अभिकल्प औरमानक संगठन लखनऊ— 226011

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Modification Sheet No. RDSO/2025/EL/MS/0508, Rev. '0' Dated: 23.04.2025

1. TITLE:

Provision of Waterless Urinal in WAP-7 Three Phase Electric Locomotives.

2. Object:

Indian Railway has always endeavour to provide best in class facilities to the passengers. Provision of superior toilets in trains has been one of the key focus areas of Indian Railway. In the same pursuit, it becomes imminent for Indian Railway to provide safe and hygienic urinal facility to its Loco Pilots who are the fountain head of the exemplary services offered by Indian Railway to its passengers.

The Waterless Urinal in WAG-9HC locomotives are being provided in the space available near Cab-1 (LHS). Since there is no such required space (1050 L X 600 W X 1830 H) available in WAP-7 locomotives. Waterless urinal shall be installed at the space vacated by harmonic filter as per RDSO Modification Sheet No. RDSO/2024/EL/MS/0504, Rev. 1 dated 23.04.2025.

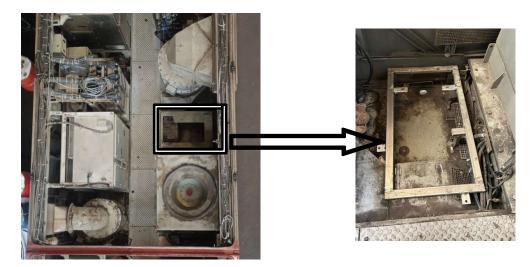
3. Modified Arrangement:

This scheme shall be applicable to those locomotives where Harmonic Filter can be removed as per RDSO Modification Sheet No. RDSO/2024/EL/MS/0504, Rev. 1 dated 23.04.2025 or latest. Waterless urinal

shall be installed at vacated space on suitable mounting frame after removal of Harmonic Filter as annexure-I.

Work to be done

i. Complete Harmonic filter cubicle shall be removed from the Loco and the Waterless Urinal shall be installed after providing the mounting frame. Shown as given below:



- ii. The Waterless Urinal mounting stand shall be as per drawing attached as annexure-II.
- iii. The design of urinal has been prepared for WAG9 locomotives with maximum permissible height of 1830 mm. However for fitment in WAP7 locomotives as per this modification sheet the vendor supplying urinals with height above 1750 mm will have to shorten the door from bottom by 40 mm and a U channel shall be provided to fit the waterless urinal as per drawing attached as annexure-III.
- iv. The discharge pipe for the waterless urinal shall be fitted beside wheel no. 6. The discharge pipe shall be secured with additional clamps as shown below.





4. Material required:

- i. 01 No. Waterless Urinal.
- ii. 01 No. Mounting Frame.
- iii. Drainage pipe as per requirement.
- iv. Clamp and Nut & Bolt as per requirement.

- **5. Reference:** (i) FRS No. RDSO/2023/EL/FRS/0034 (Rev-01) or latest.
 - (ii) RDSO Modification Sheet No. RDSO/2024/EL/MS/0504, Rev. 1 dated 23.04.2025 or latest.
- 6. Applicable to class of Locomotives: WAP-7
- 7. Agency of Implementation: All POH workshop/Electric Loco Sheds/PUs

Encl: as above.

Digitally Signed by Amit

Yadav

Date: 23-04-2025 18:54:21 Reason: (Approxived day)

Joint Director Standard Electrical

Copy to: As per standard mailing list.

