

भारत सरकार (GOVERNMENT OF INDIA)
रेल मंत्रालय (MINISTRY OF RAILWAYS)
रेलवे बोर्ड (RAILWAY BOARD)

No. 2012/Sig/PRIME/1

New Delhi, Dt.02.01.2025

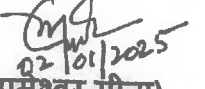
The PCSTEs
All Zonal Railways

Sub: Earthing and Surge protection systems for Signalling Installations.
Ref: Minutes of meeting of CSEs VC held on 23.12.24

In order to strengthen Signalling System against Surge & lightening, a special 03 months drive should be launched by Zonal Railways ensuring the compliance of various guidelines issued from time to time by RDSO including the following:

- a) Ensuring the earth resistance for all maintenance free earth (including ring/parametric) is <1 Ohm and properly recorded.
 - b) Provision of MEEB/SEEB is as per RDSO guidelines and final earth value at MEEB is less than 1 Ohm.
 - c) Ensuring intactness of earth connection as prescribed by RDSO including exothermic weld, proper size of earth wire connections.
 - d) Ensuring common earth with equipotential bonding where electronic equipments are installed.
 - e) Separation of dirty and clean wires.
 - f) All SPDs provided are functional, properly connected to earth and of indicative type.
 - g) Sensitization of staff regarding earth and surge protection by conducting seminars, VCs and counseling at site.
2. A consolidated guidelines regarding earthing & bonding and lighting /surge protection has been issued by RDSO vide letter No RDSO-SIG0SPD(PROJ)/1/2020 dtd. 01.01.2025.
 3. Zonal Railways are requested to identify shortcomings and rectify the items that can be attended on short term basis. In case certain deficiencies require additional works, the same may be got processed in Signalling reliability Umbrella and completed in targeted manner.
 4. Compliance of the items (a) to (g) above may be communicated every week and included in MCDO every month, as per Annexure.

DA: As above


02/01/2025
(रामेश्वर मीना)

(Rameshwer Meena)
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Earthing and Surge protection systems for Signalling Installations**Division:**

SN	Item	Unit	Scope	Completed	Balance	TDC of balance	Remarks
1	Ensuring the earth resistance for all maintenance free earth (includg ring/parametric) is <1 Ohm and properly recorded.	Nos.					
2	Provision of MEEB/SEEB is as per RSDO guidelines and final earth value at MEEB is less than 1 Ohm.	No. of Installations					
3	Ensuring intactness of earth connection as prescribed by RSDO including exothermic weld, proper size of earth wire connections.	No. of Installations					
4	Ensuring common earth with equipotential bonding where electronic equipments are installed.	No. of Installations					
5	Separation of dirty and clean wires.	No. of Installations					
6	All SPDs provided are functional, properly connected to earth and of indicative type.	No. of Installations					
7	Sensitization of staff regarding earth and surge protection by conducting seminars, VCs and counseling at site.	Officer					
		Supervisor					
		Technician					
8	Any other item						