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

No. 2022/Sig/25-A Mtg/MSG

New Delhi, Dated: 18 .11.2024


**PED/S&T
RDSO, Manak Nagar
Lucknow**

Sub: Minutes of 15th Maintenance Study Group (Signalling) 2024 Meeting.

Ref: Minutes of 15th MSG (Signalling) 2024 Meeting issued vide RDSO's letter no. STS/E/15th MSG dated 27.09.2024.

Vide letter under reference, Recommendations of 15th Maintenance Study Group (Signalling) Meeting communicated vide RDSO's letter under reference has been considered in Board's Office. Board's views duly approved by competent authority (AM/Signal) are attached as annexure.

DA: As above (2 pages)


18/11/2024

(रामेश्वर मीना)

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Sub: Minutes of 15th Maintenance Study Group (Signalling) 2024 Meeting.Ref: RDSO's letter no. STS/E/15th MSG dtd 27.09.2024.

15th Maintenance Study Group (Signalling) 2024 Meeting was held on 5th & 6th September 2024 as per agenda items in New Delhi. Recommendations of the 15th MSG (Signalling) are examined by Signal Dte as under:

SN(1)	Item (2)	Subject (3)	Remarks of Signal Dte (4)
1	1 (i)	Electronic Interlocking (EI)- Must change item for EI-Mid Life Rehabilitation	<ol style="list-style-type: none"> 1. The codal life of sub-system / accessories of EI which are provided inside relay room for interfacing various EI systems shall be same as that of EI. 2. The codal life of sub-system which are provided outside relay room for interfacing various EI systems shall be finalized by committee as per due procedure for defining codal life as per Board's letter no. ERB-I/2001/23/37 dtd 13.11.2001.
2	1 (ii)	Electronic Interlocking(EI)- VDU: Keeping both VDUs in on position, power supply arrangement	<ol style="list-style-type: none"> 1. Manual switch over of one VDU to another VDU may have repercussion on train operations. Therefore, in view of smooth train operations both VDU monitors and PCs should be kept in on position. 2. Separate DC-DC converter with redundancy shall be provided for each VDU. 3. Separate inverter with redundancy shall be provided for each VDU monitor. 4. Guidelines are already issued by RDSO vide Technical Advisory Note STS/L/TAN/3012 V3.0 and its Corrigendum dated 03.11.2022 shall be followed.
3	1 (iii)	Electronic Interlocking (EI)- Standardization of VDU diagram	<p>A committee for review of the existing standard VDU layout is nominated as given below-</p> <ol style="list-style-type: none"> (a) Shri P.V. Murali Krishna, CSE-1/SR – Convener (b) Shri Rajeev Kumar, CSE/NR (c) Shri P.S. Alawa, CSE/SWR (d) Shri Gaurav Singh, CSE/SECR (e) Shri Amit Misra, ED/Signal-I/RDSO <p>This committee may also associate with the OEMs of EI system for discussion.</p>
4	2	<p>Earthing & Lightning Protection:</p> <ol style="list-style-type: none"> (i) Add on required in TAN STS/E/TAN/3006, Version 2.3 (ii) Modification required in RDSO/SPN/197/2016 Ver1.0 (iii) Failures due to Earthing and Bonding system (From 1.4.23 to 31.3.24 and 1.4.24 to 25.7.24 separately) 	<ol style="list-style-type: none"> 1. Instructions have been issued regarding 2-days workshop on "Lightening & Surge Protection System" vide RB's letter no. 2021/Sig/G/9/RDSO dated 14.09.2024. The workshop has been conducted successfully on 26th & 27th Sep 2024. 2.(i)RDSO, in collaboration with IISc Bangalore, has initiated a project on lightning and surge protection. As part of this project, a draft comprehensive scheme for lightning and surge protection has been developed and issued for trial at six designated stations of various Zonal Railways (SWR, NFR, ER, ECoR & WR). (ii) To get more feedback on the issue, scheme should be tried at 5 more locations in addition to item 2 (i) above for which instructions have already been issued vide RB's letter no. 2012/Sig/PRIME/1 dtd 21.09.2024. (iii)After gaining experience from trials, RDSO to formulate revised scheme along with detailed drawings for further implementation. (iv)RDSO to also issue schematic for earthing arrangement for the EI.
5	3	Signalling Maintenance Management System- CRIS	Agreed. It was unanimously accepted that all Railways should expedite the uploading of data.

S	Item (2)	Subject (3)	Remarks of Signal Dte (4)
6	4 (i)	Digital Axle Counter FRPCPY with Failure reasons.(From 01.04.2023 to 31.03.2024 and 01.04.2024 to 25.07.2024)	(i) RDSO to closely monitor the implementation over Indian Railways in time bound manner regarding improvement to improve reliability in case of MSDACs of M/s Eldyne, M/s Medha & M/s GG Tronics make. (ii) Zonal Railways to submit data for 2024-25 as per instructions issued vide Board's letter no. 2022/Sig/19-FRPCPY/12 DATED- 15.07.2022. (iii) RDSO to study the aspect of response time of DAC's in wake of 160 Km/h and see if all MSDAC are suitable for speed of 160 Km/h in view of this. (iv) RDSO to come up with solutions of issues regarding MSDAC of AzS 350U & implement the same in time bound manner. (v) Details of failures of BPAC in HASSDAC may be taken and where 2-SSDAC are provided may be studied for taking decision on continuation of HASSDAC.
7	4 (ii)	Glued Joint policy	Zonal railways to take action as per Board's letter no. 2023/GS/Sig/Typical Abstract Estimate dtd 01.05.2023.
8	5 (i)	INTEGRATED POWER SUPPLY SYSTEM (IPS)	1. The feature of bypassing the LVDS is provided in IPS. Zonal Railway may utilize the feature for LMLA batteries as per their requirement of load and input power availability. 2. This item may be included in TAN by RDSO.
9	5 (ii)	INTEGRATED POWER SUPPLY SYSTEM (IPS) (ii) COOLING IN IPS CABINET	Zonal Railways should ensure proper ventilation & working of Exhaust fan in IPS room.
10	5 (iii)	INTEGRATED POWER SUPPLY SYSTEM (IPS) (iii) Any Other issues	Zonal Railways may decide IPS for Signalling installation as per load calculation requirement.
11	6	Water proofing of point machine-Central Railway	1. Zonal Railways may adopt sealing arrangement for water logging prone points as per Central Railway's scheme. 2. RDSO to finalize specification of waterproofing of Point machine.
12	7	Point Machines (A) Issues pertaining to TWS (B) Compliance in reference to drawings issued from RDSO in March'2023 & October'2023	Zonal railways should expedite the implementation of thick web switch improvements issued by RDSO. A feedback after implementation to be compiled for further improvements.
13	8	Universal Fail-safe Block Instrument (UFSBI):	1. RDSO should issue suitable guidelines through TAN for implementation of recommendations and necessary modifications in relevant drawings / manuals regarding: (i) Placement of button (ii) Indication of LCB key (iii) Block panel buttons parallel contacts (iv) Parallel of spare relay contacts in UFSBI 2. RDSO in discussion with OEM's regarding Media changeover/Button etc need to look into proposal to make it as a part of approved part list of equipment. 3. Regarding provision of separate earth as demanded by OEMs of UFSBI, RDSO to finalize Ring Earth & Parametric Earth drawings for S&T installations.
14	9	FRPCPY with failure reasons for Main Signal (Integrated/Non integrated) and Subsidiary Signals (From 1.4.23 to 31.3.24 and 1.4.24 to 25.7.24 separately).	1. Issue of LED Signal failures should be taken up by RDSO with LED OEMs to improve reliability. 2. RDSO should plan New FRS for LED to upgrade its reliability aspects.