

200
155

East Central Railway

Office of the
General Manager (S&T)
Hajipur

No. ECR/S&T/Sig/Policy/200/Pt.IV

Date: 01.08.2019

CSTE/Con/South & North/MHX
Sr. DSTEs/DHN, DNR, MGS, SEE, SPJ
Dy.CSTE/W/DHN, DNR, MGS
Dy.CSTE/Proj/HJP
East Central Railway

Sub: Lightning & Surge Protection for Signalling Equipments.

Ref: Director (Signal)/RB's letter No. 2010/Sig/WG/SP&E, Dtd.-08.07.2019

Please find enclosed herewith the above referred Railway Board's letter regarding Lightning & Surge Protection for Signalling Equipments.

This is for your information and n/a please.

DA: As above

01.08.19
(Gautam Gupta)
Dy.CSTE/Signal
for GM (S&T)/ECR/HJP

Copy to: CSTE/W/HJP

G/c

35th Sig/Tech
21-7-19

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

No. 2010/Sig/WG/SP&E

New Delhi, Dated 08.07.2019

Director General
RDSO,
Manak Nagar, Lucknow

Sub: - Lightning & Surge Protection for Signaling Equipments.

Ref:- (1) RDSO's letter no. STS/E/SPD dt. 22.6.2004 – Lightning & Surge Protection for Signaling Equipment (copy enclosed).

(2) RDSO's Technical Advisory Note No. STS/E/TAN/3006 dated 2.11.2012 "Earthing and Bonding Scheme for Electronic Interlocking" (copy enclosed).

RDSO has issued following two guidelines in the past for Earthing, Lightning & Surge Protection of signalling equipments vide

- RDSO letter no. STS/E/SPD dt. 22.6.2004 – Lightning & Surge protection for signaling equipment.
- RDSO Technical Advisory Note No. STS/E/TAN/3006 dated 2.11.2012 "Earthing and Bonding Scheme for Electronic Interlocking".

2.0 Following guidelines have recently been issued by other Ministries and may also be technically examined.

- National Building Code of India 2016** - Detailed guidelines have been issued regarding lightning protection measures to be undertaken in the buildings being constructed. An important directive regarding **Common Earthing** has been mentioned in the Building Code reproduced as under (PDF copy enclosed).

"From the viewpoint of lightning protection, a single integrated structure earth-termination system is preferable and is suitable for all purposes (that is, lightning protection, power systems and telecommunication systems)".

- Telecommunication Engineering Center, DOT** – In the guidelines issued regarding lightning and surge protection of telecom sites, under functional requirements (para 1.2.1), the directions include that the lightning and high voltage surge protection devices comprising coordinated stage-1 and stage-2 protected devices, shall be **KEMA** or **VDE** certified (pdf copy enclosed).

पूर्व मध्य रेलवे (एस० एण्ड टी०)	
मुसिदूई	उप मुसिदूई/मु०
मुसिई/उ०	उप मुसिदूई/सिंग०
मुसिई/द०	उप मुसिदूई/परि०
मु०सं०ई०	उप मुसिदूई/डी एवं डी-1
मुसिदूई/योजना	उप मुसिदूई/डी एवं डी-II
मुसिदूई/कार्य	उप मुसिदूई/डी एवं डी