(185) 5

East Central Railway

Office of the
GM (S&T)/HJP

No : ECR/S&T/Sig/Policy/200/Pt.-III/125 Date : 29.04.2015

DSTEs/DHN, DNR, MGS, SEE, SPJ
CSTEs/W/DHN, DNR, MGS
CSTE/Project/HJP
CSTE/C & C-1/ DNR
CSTE/ C & C-1/SPJ

Sub : Policy for Signalling arrangement to be provided at any new PI/RRI/EI installation.
Ref: This office letter of even no. Dtd: 24.07.2014.

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The Policy for Signalling arrangement to be provided at any new PI/RRI/EI lation issued vide letter under reference is reiterated again, which is enclosed with.

For all future work, this policy must be followed invariably and taken into nt for preparation of detailed estimate of all new works.

For existing work, this policy may be included taking into consideration that ariation in estimate not involved that may lead to delay in commissioning.

d above.

29/4/15
(Ram Bechan)
CSTE/Planning
***for* GM (S&T)/ECR/HJP**

Cc: (i) CSTE/Con/South & North/MHX,
(ii) CSE/North, CSE/South, CSTE/Works,
(iii) All S&T Officers of HQ/HJP

मुसिद्दूई कार्यालय
हाजीपुर
पत्र प्रेषण सं 125
दिनांक 29.4.15 समय 15.10

(184) (2)

Annexure - I

Signalling arrangement to be provided at any new PI/RRI/EI installation

(i) All stations should be provided with Central Panel, MACLS with Metal to Metal or Metal to Carbon type of Relays or EI as per the latest policy issued by the Rly Board from time to time.

(ii) Block working should be provided on UFSBI with media diversity.

(iii) Datallogers should be provided at all stations with networking with division on E1 stem.

U for LC Gates and IBH should also be provided. Validation certificate of Data Logger by OEM must be submitted at the time of commissioning.

) Cabling should be done with spare cable upto Emergency Crossovers in multiple line ion, provision of sufficient no. of spare conductors and segregation of cables for erent functions as per IRSEM para No. 15.3.

To strengthen the signalling and power cable laying, it should be done through use of /Polyolefin Cable Channel/DWC 'Ducts' and also ring type of arrangement should be e for improved reliability of power supply. Cable protection arrangement for ncovered stretches (e.g on bridges,culverts, drains,cable rise outside building) should be hrough GI pipes or GI troughs (filled with bitumen).

IPS should be installed at all stations and IBS, if any, and Inverter/IPS (Low Capacity) d be installed at all interlocked LC gates.

Sliding boom barriers should be installed at all LC Gates within station limit and also lectrical Lifting Barrier should be provided at all 'A' and 'SPL' Class LC Gates.

ual detection by means of DAC for track circuits having poor ballast condition, perennial ter logging and continuous loading/unloading should be provided.

y one point should ideally be controlled by a single track circuit, however, in no case, re than two points should be controlled by a single track circuit. Further, four terminals TLJB/Pt. JB in areas with adverse local conditions should be installed.

onditioning of Relay Rooms should be done. Heat retarding paints should be provided cation Boxes and Portable Cabins.

r signals at all places should be 3 Meter behind the G/J with 5 sec delay timer in their ircuits. Provision of zero time delay for calling-on below dispatch signal and 60 sec lling-on below reception signal should also be provided. Shunt signals should also be ded at places as per operational requirement.

Leakage Detectors shall be installed at all stations. Maintenance free earthing should ovided for IPS, Axle counters, Data Logger, SSI etc. LPD/SPDs for outdoor circuits as DSO scheme should also be provided.

fied LED Signals with isolation transformers should be installed.

Alarm System: Dual fuse panels with alarm should be installed at all stations.

e alarm system for Track feed battery charger using potential free contacts

d be installed.

by fuse for outdoor circuits (PPTC)/Changeover should be provided.

29/04/15
By CSTE(C&S)-II

(xvii) (a) In RE areas, on single line section where power supply is drawn from single AT, one DG set of 15 KVA capacity should be provided.

(b) In big yard, DG sets of adequate capacity shpuld be installed in addition to supply from ATs and local source.

(c) 2 Nos. DG sets of 15 KVA should be provided in Non RE area .

(d) DG sets where installed, should be provided with push button start/stop facility from Panel Room/LC gate as the case may be.

(viii) Double jumpers should be provided in all track circuits.

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By CSTE/Ld Ld-III/HWB