

East Central Railway
S&T Department

**Office of the
General Manager (S&T)
Hajipur**

No. ECR/S&T/Policy/200(SNW) Part-I

Date: **16.01.2025**

**CSTE/Con/South & North MHX
Sr. DSTE/DNR/DHN/DDU/SEE & SPJ
Dy. CSTE/Works/HJP/DHN/DDU/DNR
East Central Railway**

Sub: Revised definition of similar nature of works of various types of signalling works.

Ref: (i) This office letter no.- ECR/S&T/Policy/200 (SNW) Part-I dated 01.07.2024.

(ii) DSTE/DHN Note No. - #01 dated 18.10.2024 through E-office, File Computer No.- 298294.

(iii) DSTE/DHN Note No. - #01 dated 21.10.2024 through E-office, File Computer No.- 298602.

In the suppression of this office letters under Reference (i), the revised definition of similar nature of works of various types of Core Signaling Works (Part-A) & Non-Core Signaling Works (Part-B) has been approved by the **PCSTE/ECR**. The revised definition is as under: -

The revised definition for similar nature of works is as under: -

PART-A: Core Signaling Works

SN	Description of the works	Revised definition of similar nature of works
01	(a) New Installation of Electronic Interlocking (Up to 200 routes) [Indoor or (Indoor +Outdoor)] (b) Additional/modification of Electronic Interlocking (up to 200 routes of existing Electronic Interlocking) [Indoor or (Indoor +Outdoor)]	Panel Interlocking/Route Relay Interlocking/Electronic Interlocking/IBH/Automatic Signalling OR Any [Indoor or (Indoor +Outdoor)] signalling work involving Alteration/Modification in Panel Interlocking/Route Relay Interlocking/Electronic Interlocking/IBH/Automatic signalling
02	(a) New Installation of Electronic Interlocking (More than 200 routes) [Indoor or (Indoor +Outdoor)] (b) Additional/modification of Electronic Interlocking (More than 200 routes of existing Electronic Interlocking) [Indoor or (Indoor +Outdoor)]	Electronic Interlocking work [Indoor or (Indoor+Outdoor)]
03	(a) New Installation of Route Relay Interlocking/Panel Interlocking (up to 200 routes)/IBH (using Metal to Metal contact relays) [Indoor or (Indoor+ Outdoor)] (b) Additional/modification of Route Relay Interlocking/Panel Interlocking (Up to existing 200 routes)/IBH using (Metal to Metal contact relays) [Indoor or (Indoor+ Outdoor)]	Route Relay Interlocking/Panel Interlocking /IBH/Automatic signalling or Electronic Interlocking work. OR Any [Indoor or (Indoor +Outdoor)] Signalling work involving Alteration/Modification in Route Relay Interlocking/Panel Interlocking/IBH/Automatic signalling or Electronic

04	<p>(a) New Installation of Route Relay Interlocking (using Metal to Metal contact relays) (More than 200 routes), [Indoor or (Indoor +Outdoor)]</p> <p>(b) Additional/modification of Route Relay Interlocking (using Metal to Metal contact relays) (more than 200 routes of existing Route Relay Interlocking). [Indoor or (Indoor +Outdoor)]</p>	Route Relay Interlocking/ (using metal-to-metal contact relays)/PI (metal to metal contact relays)
05	<p>(a) New Installation of Route Relay Interlocking/Panel Interlocking/IBH (Up to 200 routes) (using Metal to carbon contact relays). [Indoor or (Indoor+ Outdoor)]</p> <p>(b) Additional/modification of Route Relay Interlocking/Panel Interlocking/IBH (up to existing 200 routes of Route Relay Interlocking/Panel Interlocking/IBH) (using Metal to Carbon contact relays) [Indoor or (Indoor+ Outdoor)]</p>	<p>Panel Interlocking/Route Relay Interlocking/Electronic Interlocking/ IBH/Automatic Signaling</p> <p>OR</p> <p>Any [Indoor or (Indoor +Outdoor)] signalling work involving Alteration/Modification in Panel Interlocking /Route Relay Interlocking/Electronic Interlocking/IBH/ Automatic Signaling</p>
06	<p>(a) New Installation of Route Relay Interlocking/ Panel Interlocking using "Metal to Carbon" contact relays more than 200 routes) [Indoor or (Indoor +Outdoor)]</p> <p>(b) Additional/Modification of Route Relay Interlocking/ Panel Interlocking using "Metal to Carbon" contact relays (more than 200 routes of existing Route Relay Interlocking/Panel Interlocking) [Indoor or (Indoor +Outdoor)]</p>	Route Relay Interlocking/Panel Interlocking or Electronic Interlocking.
07	<p>(i) New Installation of other core signaling work like Track Circuiting (DC), HASSDAC/SSDAC/ MSDAC, UFSBI, Data Logger, Trenching, Double Distant Work & Cable Laying, LC Gate Interlocking, Sliding Boom, Lifting Barrier.</p> <p>(ii) Signaling Works in connection with BCM/TTM/FRM, rail replacement, GJ replacement etc. to improve signal reliability.</p> <p>(iii) Provision of maintenance aids, measuring equipment & tools for S&T equipment at various stations of ECR.</p> <p>(iv) Provision of Central Monitoring of Els by way of networking of maintenance terminals at stations in a secured manner.</p>	<p>Any work involving outdoor or Indoor signalling work. Signalling Work - All works which are directly related to the interlocking of the Core Signaling System.</p> <p>OR</p> <p>Any MACLS work involving outdoor & indoor work or alteration in existing Indoor/outdoor signaling system</p> <p>OR</p> <p>Any work involving outdoor/indoor signalling works including MACLS/ EI/ PI/RR/IBS/IBH/LC Gate/ DAC / ELD and ELD for Signalling Cable, Quad Cable, Fuse Auto Change Over System etc.</p>
8	Specialized work like Automatic signaling, AFTC, TPWS, ACD, KAVACH and TMS.	To be decided on a case-to-case basis.

PART-B: Non-Core Signaling Works

SN	Description of the works	Revised definition of similar nature of works
01	Provision of Fire detection and/or suppression system in the relay room at the stations.	Supply and/or installation and commissioning of Fire Detection and Alarm system by OEM or Authorized representative of OEM to any Government organization and/or PSUs. OR Any work involving indoor signalling work where "Fire detection and Alarm system" is a part of the work.
02	Provision of class 'A', 'B', 'C' & 'D' Class Lightning Protection and surge protection.	Supply and/or installation and commissioning of class 'A', 'B', 'C' & 'D' class lightning protection and surge protection by OEM or Authorized representative of OEM to any Government organization and/or PSUs. OR Any work involving Indoor signalling work where "provision of class 'A', 'B', 'C' & 'D' class lightning protection and surge protection" is a part of the work.
03	Provision of Remote Diagnostic and Predictive Maintenance System (RDPMS)	Any Signalling works involving the work of Remote Diagnostic and Predictive/Preventive Maintenance Systems. OR Any signal interlocking works involving EI or RRI or PI or IBS or IBH or LC gate or Yard modification or UFSBI or Track circuit or Axle Counter (SSDAC or MSDAC or HA-SSDAC) or Automatic Signalling (ABS) and Data Logger/RTU. The special condition: The bidder shall be OEM or an authorized person from OEM who has to submit the authorization letter of OEM along with the offers. Definition of OEM: If no RDSO-approved firm is available in RDSO approved list for RDPMS at the time of tender opening, then the definition of OEM is a Manufacturer with at least 5 or more installations of RDPMS for full yard covering outdoor and indoor Signaling gear with satisfactory performance.
04	Provision of fuse monitoring and indication system with self-restoring & auto change over system	Any signalling work involving the "Provision of fuse monitoring and indication system with self-restoring & auto change over the system" . OR Any signal interlocking works involving EI or RRI or PI or IBS or IBH or LC gate or Yard modification or BPAC using UFSBI or Microprocessor based BPAC or provision of Track circuit in the yard or Axle Counter (SSDAC or MSDAC or HA-SSDAC) or Automatic Signaling (ABS) or Data Logger/RTU. The special condition: The bidder shall be OEM or an authorized person from OEM who has to submit the authorization letter of OEM along with the offers. Definition of OEM: If no RDSO-approved firm is

		available in RDSO approved list for “ Fuse monitoring and indication system with self-restoring & auto change over system” at the time of tender opening, then the definition of OEM is a Manufacturer with at least five or more installations of “ fuse monitoring and indication system with self-restoring & auto change over the system” with satisfactory performance.
05	Provision of Earth Leakage Detector	<p>Any signalling work involving the “Provision of Earth Leakage Detector”.</p> <p style="text-align: center;">OR</p> <p>Any signal interlocking works involving EI or RRI or PI or IBS or IBH or LC gate or Yard modification or BPAC using UFSBI or Microprocessor based BPAC or provision of Track circuit in the yard or Axle Counter (SSDAC or MSDAC or HASSDAC) or Automatic Signaling (ABS) or Data Logger/RTU.</p> <p>Definition of OEM: If no RDSO-approved firm is available in RDSO approved list for “Earth Leakage Detector” at the time of tender opening, then the definition of OEM is a Manufacturer with at least five or more installations of “Earth Leakage Detector” with satisfactory performance.</p>

This has approval of PCSTE/ECR.

(Rajiva Shekhar)
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E.C. Railway, Hajipur

Copy to: CSTE/Works, CSE-I, CSE-II, CCE & CSTE/D&D for kind information please.