

East Central Railway

**Office of the
GM(S&T)/ECR/HJP**

**No. ECR/S&T/Sig/Policy/2024/Pt.-IV
(Computer No.38556)**

Date: 03.06.2024.

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

Signal Policy No.12/2024

Sub: - Application format for PCSTE's approval for Non-interlocking of Stations.

Ref: - Rly. Board letter of PED (Signal) No.-2012/Sig/SF/2(Policy) Dt. 14.09.2018

In reference to above, the format of application for seeking approval of PCSTE for undertaking non-interlocking work at a station has been revised. The revised application format is enclosed.

All units are advised to ensure that the same is implemented and the permission to undertake NI working is sent to PCSTE's office for examination & approval at 7 days working days in advance.

Kindly acknowledge receipt and ensure compliance.

This is issued with the approval of PCSTE/ECR.

DA: as above (07 Pages)


(D.K.Chand)
Dy.CSTE/Sig.
for GM (S&T)/HJP

Application for PCSTE's Approval for taking Non-interlocking Work			
SN	Items	Details	Compliance
A	General		
1.	Name of the work		
2.	Year of sanction & cost		
3.	Scope of work		
4.	Name of station for which NI to be taken		
5.	Type of work-New RRI/PI/EIOR Alteration in existing RRI/PI/EI/IBS/LC gate etc.		
6.	Name of Indoor contractor		
7.	Name of Outdoor contractor		
8.	Name of Officer-in-charge		
9.	Name of Supervisor in-charge		
10.	Name of ADSTE/DSTE executing the work		
11.	Details of CRS/PCSTE sanction(TSAA)		
12.	Compliance to the stipulations of CRS/PCSTE sanction whether submitted / not submitted		
13.	FAT Approval Status		
14.	Compliance of FAT observation		
15.	SAT Approval Status		
16.	Compliance of SAT observation		
17.	Compliance report of JAG and SAG inspection		
18.	Safety certificate to be signed by		
B	Approved Plans/Drawings		
1.	Building plan No. and date of approval (if applicable)		
2.	ESP No. with date of approval		
3.	SIP No. with date of approval		
4.	Availability of Site verified SIP at the station		
5.	RSP/ST/PD or ToC (As applicable) Number and approval date		
6.	Circuit diagram/Interface Diagram (as applicable) No.& Date of issue Checked by Approved by		
7.	Approval Status of Operating Panel Diagram/VDU Panel Diagram (Approved on date & approved by)		

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8.	Position of contact analysis (Available/Not available)		
9.	Datalogger contact sheet(Available/Not available)		
C	Approved Field (Indoor & Outdoor) Diagrams		
1.	Cable Route Plan with date of approval		
2.	Cable Core Plan–Checked/Approved Name& date		
3.	Joint outdoor Cable Meggering Record with date & signature of SSE/JE who checked		
4.	Joint earth measurements with date & signature of SSE/JE		
5.(i)	TC Bonding plan (Showing no. of G/J) (approved by-name & date)		
5.(ii)	DP Plan for MSDAC		
6.	Location Box wiring diagram		
7.	SWR & SWRD No. with Approval date		
8.	Function wise cable conductor sheets		
9.	Relay rack arrangement-no. of racks		
10.	Jumpering Detail sheets		
11.	Tag block analysis sheets (1/2wire count sheets)		
12.	Panel diagram tag block sheets (if applicable)		
13.	Power diagram		
14.	Cable Termination Rack details		
15.	Square Sheet for new /alterations in RRI/PI OR Square sheet for new/ alteration in EI		
16.	Patch cable details		
17.	Signal Infringement details (along with dispensation details, if any)		
18.	Signal Sighting Committee Report (signed format to be attached)		
19.	Application Logic date of approval		

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D	Scope of work & progress of work				
SN	Item	Total Scope of work	Work completed	Work proposed To be done in pre- NI	Work proposed during NI
1.	Nos. of Jumper insertion (For alteration work only and NA for new work)				
2.	Nos. of jumper removal (For alteration work only and NA for new work)				
3.	Nos. of Location Box foundation/erection				
4.	Nos. of Signal Foundation/erection				
5.	Nos. of Point machine for fixing				
6.	Nos. of Turnouts for insertion				
7.	Proper Setting ,Housing and packing of Point				
8.	Patching work with new cable complete incase old point machine is used test – by & Date				
9.	Nos. of Turnouts for removal				
10.	Nos. of glued joints for insertion				
11.	For Track Circuit Rubber pad, GFN Liner and Ballast clearance (to be ensured before NI in case of alteration work)				
12.	Nos. of HASSDAC for Block working As per policy guidelines				
13.	Nos. of DP fixing for MSDAC installation as per policy guidelines				
14.	Nos. of DC Track Circuits for installation				
15.	Nos. of Traction Bond for installation by TRD with insulated sleeves beneath positive rails.				
16.	GI Bonding in parallel with Traction bonds by S&T				
17.	Block Instrument wiring and installation				
18.	Availability of Communication Arrangements <ul style="list-style-type: none"> Control phone Field telephones as mentioned in SIP Other phones VHF sets 				

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19.	Provision of datalogger along with networking.				
20.	Provision of ELD and wiring in Datalogger with validation.				
21.	Provision of Fuse Alarm & Change over System with validation in Data logger				
22.	Capacity of DG sets, if required				
23.	Availability of 3 sources of supply (UP AT,DN AT &Local)Details of AT capacity at Central and at OC huts also incase of distributed EI				
24.	Provision of A/C in Relay rooms at Central and OC huts also in distributed EI				
25.	In case of alteration in EI, joint certification by OEM and Executing Officer that ports allotted in existing installation are not changed and that new ports allotted for new gears are from available spare ports				
26.	Synchronization of EI clock with Data Logger clock				

E	Testing completed	Testing status	Remarks, if any
1.	Indoor cable meggering by		
2.	Writing work at CTR & Location complete test- by & date (Work to be done before NI in case of alteration work)		
3.	Correspondence test and wiring continuity test for Points and signals- by & date (Work to be done before NI in case of alteration work)		
4.	1wire/2wirechecking-by & date		
5.	Indoor wiring bell testing(wire to wire continuity) complete test -by & date		
6.	IPS/power wiring test-by & date		
7.	VDU/Panel thro test-by & date		
8.	Functional test-by & date(In case of PI,RRI)		
9.	Contact break test-total sheets-by & Date		
10.	Square sheet test-by & date		
11.	Datalogger contact validation test-by & date.		
12.	Generation of exception report as per Railway board Guideline-by & date.		
13.	DAC/MSDAC function test by OEM		
14.	MSDAC energization, its connection with EI and testing details.		
15.	Battery capacity run test		
16.	ELD testing		
17.	Axle counter and UFSBI tested and connected on both media - by & Date		
18.	Track Circuit Maintenance Record Testing-by & date		
19.	Automatic Fire Detection & Suppression Testing-by & date		
20.	Charging of new signal cables		
21.	Cable patching arrangement for charging New cables for old gears or vice versa		
22.	Spare cable conductor testing (a separate Booklet shall be maintained for spare Conductor details)		

G.	Training Done		
Sr.No.	Equipment for which Training is required by OEM	Equipment make	No. of signaling staff trained pre-commissioning by OEM
1.	EI		
2.	IPS		
3.	UFSBI		
4.	ELD		
5.	DAC		
6.	MSDAC		
7.	Automatic Fire Detection & Suppression		
8.	Datalogger		
9.	Fuse alarm		
10.	RDPMS		
11.	Telecommunication training required to handle Block Working / UFSBI.		

H.	Certification before taking NI and post-commissioning		
	Certification	Complied/ Not complied	Remarks , if any
1.	<p>Certification before Taking NI that,</p> <ul style="list-style-type: none"> • All the documents required for the smooth commissioning of work have been provided at respected places like in R/R, Loc. Boxes etc. • Datalogger contact validation test has been completed. • All Scheduled Maintenance charts (SMCs) are provided at the site and the first entry in the SMCs has been filled by the executing agency. • Maintenance cards are provided for all equipment and the first entry has been filled by the executing agency. • For all the equipment, Installations Check lists, duly signed by OEM and Railway Representative, are available at the site. • A battery capacity run test has been done. The battery has been charged and tested on load. 		

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