

पूर्व मध्य रेल

कार्यालय

महाप्रबंधक(सिग. एवं दूरसंचार)

पूर्व मध्य रेल हाजीपुर

दिनांक:-24.02.2025

फाइल संख्या-ईसीआर/एसएंड टी/ सिगनल अनुभाग/विविध
(कम्प्यूटर संख्या-279747)

मंडल रेल प्रबंधक

दानापुर, डीडीयू, धनबाद, सोनपुर एवं समस्तीपुर

पूर्व मध्य रेल

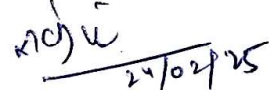
विषय:- Proforma of Joint Inspection of Point and Crossings.

संदर्भ:-आरडीएसओ का पत्र संख्या-CT/PTX dt:20.02.2025

उपरोक्त संदर्भित के द्वारा Proforma of Joint Inspection of Point and Crossing बावत पत्र इस कार्यालय को प्राप्त हुआ है जिसे आपको भेजा जा रहा है।

आपसे अनुरोध है कि संदर्भित पत्र के अनुसार संबंधित Engineering और S&T विभाग को आवश्यक निर्देश जारी करने की कृपा करें।

संलग्न:-संदर्भित पत्र की प्रति।


(राकेश रंजन)

मुसिई-।

कृते महाप्रबंधक(सिग. एवं दूरसं.)पूमरे हाजीपुर

प्रतिलिपी:-1. वरि.मंसिदूई दानापुर,डीडीयू,धनबाद,सोनपुर एवं समस्तीपुर को सूचनार्थ।

2. प्राचार्य सिगनल एवं दूरसंचार प्रशिक्षण केन्द्र दानापुर को सूचनार्थ।



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226 011
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Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226 011
DID (0522) 2450115
DID (0522) 2465310



No. CT/PTX

Date: 20.02.2025

PCE & PCSTE

All Zonal Railways

(As per list enclosed)

Sub: Proforma of Joint Inspection of Point and Crossings.

Ref: i) ED/Safety, Railway Board's letter no. 2022/Safety (I) /Safety Issue/1 dated 28.12.2022.

ii) This office letter nos. CT/PTX/NT/SSD & STS/E/HS/Turnouts Vol. IV dated 14.02.2019.

iii) This office letter nos. CT/PTX dated 16.01.2025.

iv) Railway Board's letter no. 2008/CE-II/TK/9-Part (1) dated 14.02.2025.

Railway Board vide letter under reference (iv), has approved revised Proforma for Joint Inspection of Point and Crossings to be carried out by field officials of Engineering and S&T Departments. This proforma is applicable for joint inspection of Over-riding Switches and Thick Web Switches both.

Copy of the Proforma for Joint Inspection of Point and Crossings is being issued jointly by Track Design Directorate & Signal Directorate of RDSO for kind information & necessary action.

DA: As above

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(Dipu Shyam)
Executive Director/Signal
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AKHILESH
KUMAR SINGH

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(Akhilesh Kumar Singh)
Executive Director/Track-II
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Copy to:

- i) **Principal Executive Director/Signal Modernization**, Railway Board, Rail Bhawan, New Delhi-110001 for kind information please.
- ii) **Executive Director/Safety**, Railway Board, Rail Bhawan, New Delhi-110001 for kind information please.
- iii) **Executive Director Civil Engg. (Plg.)**, Railway Board, Rail Bhawan, New Delhi-110001 for kind information please.
- iv) **Executive Director (P&P)**, Railway Board, Rail Bhawan, New Delhi-110001 for kind information please.

MAILING LIST

The Principal Chief Engineer,

1. Central Railway, Mumbai CST – 400001
2. Eastern Railway, Fairlie Place, Kolkata – 700001
3. Northern Railway, Baroda House, New Delhi – 110001
4. N.E. Railway, Gorakhpur – 273012
5. Southern Railway, Park Town, Chennai – 600003
6. S.C. Railway, Rail Nilayam, Secunderabad – 500371
7. Western Railway, Churchgate, Mumbai – 400020
8. South Eastern Railway, Garden Reach, Kolkata – 700043
9. N.F. Railway, Maligaon, Guwahati – 781011
10. East Central Railway, Hajipur – 844101
11. East Coast Railway, Bhubaneswar – 751016
12. North Central Railway, HQ Office, Subedarganj, Block – Bhagirathi, Prayagraj – 211015
13. North Western Railway, Jaipur – 755001
14. South East Central Railway, Bilaspur – 495004
15. South Western Railway, Hubli – 580023
16. West Central Railway, Jabalpur – 482001

The Principal Chief Signal & Telecom Engineer,

1. Central Railway, Mumbai CST – 400001
2. Eastern Railway, Fairlie Place, Kolkata – 700001
3. Northern Railway, Baroda House, New Delhi – 110001
4. N.E. Railway, Gorakhpur – 273012
5. Southern Railway, Park Town, Chennai – 600003
6. S.C. Railway, Rail Nilayam, Secunderabad – 500371
7. Western Railway, Churchgate, Mumbai – 400020
8. South Eastern Railway, Garden Reach, Kolkata – 700043
9. N.F. Railway, Maligaon, Guwahati – 781011
10. East Central Railway, Hajipur – 844101
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13. North Western Railway, Jaipur – 755001
14. South East Central Railway, Bilaspur – 495004
15. South Western Railway, Hubli – 580023
16. West Central Railway, Jabalpur – 482001

Proforma for Joint Inspection of Points & Crossings

Station		Angle of Crossing	1:8.5/1:12/1:16
Point No.		Straight/Curve	
Location of point		Type of Switch (OR/TWS)	
Installation date of Turnout		Initial opening :Normal Reverse	
Section of Rail			
Type of sleeper		Switch On (LH/RH)	

1st/2nd/3rd/4th Quarter

SN	Items for Joint inspection	Permissible range/Required condition	Measurement(mm)		Remarks, If any	Compliance with Date
			LH	RH		
A. P-Wayitems						
1.	Condition of tongue rail					
(a)	Length of chipping in Tongue Rail, if any.	Over 200 mm length within 1000 mm from ATS measured as per provision of Para 429 (2) (c) (i) of IRPWM.	.....mm	.....mm		
(b)	Whether Tongue Rail is resting on all Slide chairs evenly.	-	(Yes/No)	(Yes/No)		
(c)	Whether any burr On Tongue rail	-	(Yes/No)	(Yes/No)		
2.	Condition of Stock rail					
a.	Whether any burr on stock rail	-	(Yes/No)	(Yes/No)		
3.	Condition of packing in the switch assembly area	-	Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
4.	Number of Sleepers up to which tongue rail is housing properly.	-	Housing proper up to Sleeper No.	Housing proper up to Sleeper No.		
5.	Condition, adequacy and tightness of P-Way fittings at switch					
(a)	Slide chairs		Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
(b)	Stretcher bars (For OR Switches)		Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
(c)	Nut bolts / stud bolts & spring washer		OK / loose/ missing	OK/ loose/ missing		

(d)	Gauge tie plate		Good / Satisfactory / Poor			
(e)	MS Plate at Sleeper No.4		Good/ Satisfactory/ Poor			
(f)	Lubrication of slide chair beyond 3 sleepers from toe of switch		Proper / Not proper			
6.	Number of missing / displaced / broken / crushed fittings in Switch portion					
(a)	Liners		No.....	No.....		
(b)	ERC		No.....	No.....		
(c)	Rubber pad		No.....	No.....		
(d)	Leaf spring of slide Chair (For TWS)		No.....	No.....		
(e)	Cotter wedges of slide chairs (For TWS)		No.....	No.....		
7.	Out of squareness of point machine sleepers. (Ensure proper functioning of point rod connection)	Less than 10mm	.....mm	.....mm		
8.	Opening of Tongue Rail at ATS	160mm±3mm (TWS) 115mm ±3mm (OR)	.....mm	.....mm		
9.	Open side Clearance at JOH (For TWS)	ClearanceatJOH:60 mm ± 3 mm	.....mm	.....mm		
10.	Clearance between leading stretcher bar and bottom of stock rail (For OR Switches)	1.5 to 5mm as per Para 429(2) (j) of IRPWM	.....mm	.....mm		
11.	Gauge					
(a)	at 150mm from toe of switch towards SRJ	As per IRPWM	.....mm			
(b)	At 5 th sleeper from ATS		.....mm			
(c)	At 9 th sleeper from ATS		.....mm			
12.	Cross level					
(a)	at 150mm from toe of switch towards SRJ	As per IRPWM	.....mm			
(b)	At 5 th sleeper from ATS		.....mm			

(c)	At 9 th sleeper from ATS	As per IRPWM	.....mm		
13.	Condition of Sleepers				
(a)	Point Machine Sleepers	-	Good / Satisfactory/ Poor		
(b)	Sleepers between ATS to SRJ	-	Good/ Satisfactory/ Poor		
(c)	SSD Sleeper	-	Good/ Satisfactory/ Poor		
14.	Switch Setting Device (SSD)				
(a)	Whether distance between gauge faces of stock rail at JOH is 1745 ± 2mm for 60 Kg switch and 1740 ± 2mm for 52 kg switch?	As per Clause 5 of laying & Maintenance instruction for SSD (Latest) issued by Track Dte / RDSO / Lucknow.	Yes/No		
(b)	Greasing and lubrication of moving parts inside the SSD box	-	Good/Satisfactory/Poor		
(c)	Insulation condition	-	Good/Satisfactory/Poor		
(d)	Squareness of arms	Both arms shall be Straight and aligned	Yes/No		
(e)	Condition of base plate	-	Good/Satisfactory/Poor		
(f)	Tightness of nut / bolts and other fittings	-	OK / loose/ missing		
15	Condition of: a. Drainage b. Ballast	a. NA b. 50 mm clear below rail bottom	a. Good/ Satisfactory/ Poor b. Yes / No		
16	Condition of Lubrication of slide chairs	-	Good/ Satisfactory/ Poor		
B. S&T Items					
17	Condition of Point Machine and Ground connections				
(a)	Whether condition of fixing arrangement of Point Machine on the sleeper is satisfactory?		Yes/No		
(b)	Whether Point machine is functioning properly and there is no unusual sound during the operation of the point?		Yes/No		

(c)	Whether Ground Connections are satisfactory? If no, what action is required?		Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
(d)	Condition of P-Bracket		Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
(e)	Condition of insulation		Good/ Satisfactory/ Poor	Good/ Satisfactory/ Poor		
(f)	Squareness of Ground connections		Yes/No			
(g)	Condition of Clamp lock bracket, fish tail and other moving parts (For TWS)		Good/ Satisfactory/Poor			
(h)	Lubrication of slide chair up to 3 rd sleeper from toe of switch		Proper / Not proper			
18	Operation of Point Machine					
(a)	Whether Point sets and locks without test piece	Point machine should set and lock	Yes/No			
(b)	Whether Point Machine passes Obstruction test with 5mm test piece (150mm From ATS)	Point should not lock and get detected (Yes, if passes)	Yes/No	Yes/No		
19	Any other observations					
Signature of JE / SSE (Pway) with date			Signature of JE / SSE (Sig) with date			

Note: Good/Satisfactory/Poor remarks mean, no action required/planned action required/immediate action required, respectively.

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