

East Central Railway

Office of
GM(S&T)/ECR
Hajipur

No. - ECR/S&T/JPO

Date: - 28.03.2017

Sr.DSTE's
DHN/DNR/MGS/SEE & SPJ
Dy. CSTE/W/DHN, DNR & MGS
Dy. CSTE/Proj./HJP
East Central Railway


Sub: - Joint Procedure Order No. 1/2017 for Maintenance of Electrical Traction bonds in Track circuited area and periodical joint inspection of JE/SSE (Signal) & JE/SSE (TRD).

Please find enclosed herewith, Joint Procedure Order No. 1/2017 for Maintenance of Electrical Traction bonds in Track circuited area and periodical joint inspection of JE/SSE (Signal) & JE/SSE (TRD).

Please ensure that copy of this Joint Procedure Order is circulated amongst to all S&T and Electrical officers and also JE/SSE (Signal) of the division & units.

Divisions are requested to acknowledge receipt of the Joint Procedure order & ensure compliance.

DA: As above (2 sheets).


(P.S.Rai)
C.S.E/North
for GM (S&T)/ECR/HJP

- Copy to:**
1. Secy. to GM for kind information of GM please.
 2. AGM/ECR for kind information please.
 3. DRM's/DHN, DNR, MGS, SEE & SPJ for kind information and request for its implementation please.
 4. CEE, PCE, COM & CSO for kind information please.
 5. CEDE, CTE for kind information & necessary action please.
 6. CSE/South, CSTE/W, CCE, CSTE/Plg/ECR for information please.
 7. CSTE/C/South & North/ MHX for information & implementation please.

(12)


East Central Railway

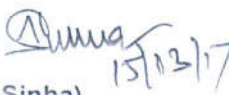
Signal & Telecom Dept


JOINT PROCEDURE ORDER No. - 1/2017

Sub: - Joint Procedure Order for maintenance of Electrical Traction Bonds in a Track circuited area and periodical joint inspection of JE/SSE (Signal) & JE / SSE (TRD).

1. It is essential to install and to maintain the following electrical traction bonds for un-obstructed flow of traction return current and safe operation of Track circuit.
 - (a) **Longitudinal Bonds** across Rail joints on negative or un-insulated rails.
 - (b) **Transverse Bonds** between negative rails of adjacent track circuits.
 - (c) **Cross Bonds or Inter Rail Bonds** between adjacent negative rails on a double line section at every 100 meters.
 - (d) **Cross bond** is required either ends of the track circuit in case track circuit length is less than 100 meters.
 - (e) Any bond crossing the **positive rail required to be insulated** and shall be done by Electrical branch.
2. **Quarterly joint inspection** of traction bonds shall be done by JE/SSE (Signal) and JE/SSE (TRD) sectional/incharge.
3. Joint inspections shall be recorded in a separate register kept at stations for this purpose, named as "**Joint Inspection/Maintenance Register of Electrical Traction bonds with TRD and S&T**" and signed by the inspecting JE/SSE (Signal) and JE/SSE (TRD) jointly. Compliance of the deficiencies noted shall be recorded in the same register in the assigned column as **per format annexed herewith**.
4. In case of engineering works like changing of rails, deep screening, packing of track by machine etc. in which bonds are likely to get disturbed, advance programme shall be fixed up by JE/SSE (P. Way) with JE/SSE (Signal) and JE/SSE (TRD) to ensure dismantling of bonds from rails before or during execution of Engg. works and fixing up of bonds in the rails immediately after the engineering work, so that there is no failure of track circuit or damage to S&T equipments. Fixing of bonds and earthing in new rails will be done by S&T & TRD as applicable.
5. In case of emergency like rail/weld fractures where the rail has to be changed immediately without any delay and no advance programme can be made, SSE/P. Way immediately after changing rail shall inform JE/SSE (Signal) & JE/SSE (TRD) for fixing of bonds.
6. This JPO supersedes JPO No. 2/2013.


(A.K.Singh)
CEDE


(A.K.Sinha)
CTE


(P.S.Rai)
CSE (North)

East Central Railway
Signal & Telecom Dept.

Record of Quarterly Joint Inspection of Electrical Traction Bonds in a Track circuited area by JE/SSE (Signal) & JE/SSE (T)
JOINT PROCEDURE ORDER No.-1/2017

S. No.	Item	1 st Quarter		2nd Quarter		3rd Quarter		4 th Quarter	
		Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T
1	Longitudinal Bonds (Connected across Rail Joints on Negative Rail or un-insulated rails)								
2	Transverse (Z) Bonds (Connected between negative rails of adjacent track circuits)								
3	Cross Bonds or Inter Rail Bonds (Connected between adjacent negative rail on a double line section at every 100 meters)								
4	Cross bonds required at either ends of the track circuit (If length of TC is less than 100 meters).								
5	Insulated bond crossing below positive rails.								
6.	Any other TRD deficiencies								
7.	Date of Inspection=								
8.	Signature of JE/SSE (Signal)								
9.	Signature of JE/SSE (TRD)								

Remark if Any:

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15/03/17

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15/03/17

East Central Railway
Signal & Telecom Dept.

Record of Quarterly Joint Inspection of Electrical Traction Bonds in a Track circuited area by JE/SSE (Signal) & JE/SSE (TRD)
JOINT PROCEDURE ORDER No.-1/2017

Station/Cabin: Track Circuit No. Divn.

S. No.	Item	1 st Quarter		2 nd Quarter		3 rd Quarter		4 th Quarter	
		Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T	Deficiency /Missing (in No.)	Date Complied & Sig. of TRD/S&T
1	Longitudinal Bonds (Connected across Rail Joints on Negative Rail or un-insulated rails)								
2	Transverse (Z) Bonds (Connected between negative rails of adjacent track circuits)								
3	Cross Bonds or Inter Rail Bonds (Connected between adjacent negative rail on a double line section at every 100 meters)								
4	Cross bonds required at either ends of the track circuit (If length of TC is less than 100 meters).								
5	Insulated bond crossing below positive rails.								
6	Any other TRD deficiencies								
7	Date of Inspection=								
8	Signature of JE/SSE (Signal)								
9	Signature of JE/SSE (TRD)								

Remark if Any:

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