

East Central Railway

Signal & Telecom Dept

JOINT PROCEDURE ORDER No. - 2/2013

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**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 and AT supplies for un-obstructed flow of traction return current or 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. An immediate drive shall be launched by Sr. DSTEs and Sr. DEE/TRDs and 100% checking of all traction bonds in track circuited area through JE/SSE (Signal) and JE/SSE (TRD) of the section. All deficiencies noted are required to be rectified immediately.
3. Periodical inspection of traction bonds shall be done by JE/SSE (Signal) and JE/SSE (TRD) quarterly.
4. 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.
5. 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 fixing up of bonds in the rails immediately, 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.

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 SSE/Signal & JE/TRD for fixing of bonds.

  
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Docket No. ECR/S&T/JPO

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