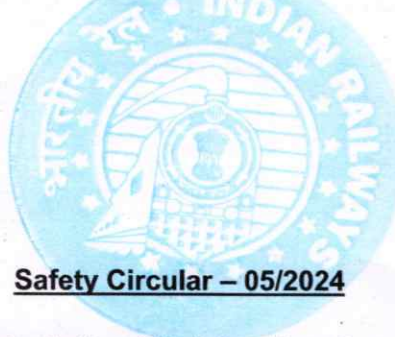


EAST COAST RAILWAY



No. ECoR/SFY/67/2024/ 229

Office of the
Chief Safety Officer
Bhubaneswar

Date 04.04.24

Safety Circular – 05/2024

Subject: Good Welding Practices.

Several incidences of welding failures are reported on account of poor welding practices, for e.g. improper chipping and primer application after welding. Poor welding practices could also be hazardous for welder due to improper use of PPEs. In view of the above, following may be ensured during welding repair of coaches/wagons:

1. The base metal should be cleaned and prepared properly to ensure appropriate adhesion of the weld metal.
2. Welding should always be performed in right position. Awkward positions may lead to unstable welds.
3. Welding electrodes to be stored properly in a moisture free environment.
4. Welding rods/electrodes of specific standard should always be used.
5. Weld should be at uniform cross-section without any blowholes, cavities, etc.
6. Welded portion to be grinded properly.
7. All of the flux and welding debris to be chipped-off immediately after welding.
8. Proper tools and plants to be used. Pencil grinders to be used wherever required.
9. Adequate power supply and proper earthing to be ensured before commencement of welding.
10. Earthing cable should be placed near to the welding object so that current flow through bearings can be avoided.
11. Welding should never be performed in the vicinity of inflammable items.
12. Rubber Pads and other inflammable items, such as V Belts, to be stored in a clean place away from welding location.
13. Inflammable items to be immediately cleared, after their replacement/usage, from shop floor, Pit Lines, Sick Lines, etc.
14. Spilling of oil during decanting and its deposition in yards to be prevented. Necessary preventive actions, such as mechanised decanting, to be taken.
15. All railways and contractual staff to be trained in fire-fighting.
16. Appropriate number of fire extinguishers, sand buckets, water hydrants, etc are to be installed in shop floor, Pit Lines, Sick Lines, etc.

All inspecting Officials, Safety Counsellors and Senior Subordinates are directed to pay special attention on above subject and counsel staff concerned accordingly. The above subject should also be discussed widely in the Safety Seminars/ Safety Meetings.

(P.C. Sahu)
CSO/ECoR/BBS

Copy:

1. Secretary to GM/ECoR/BBS for information of GM/ECoR/BBS, please.
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6. Sr. DSO – KUR, SBP & WAT for information & necessary action, please.