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Government of India
Ministry of Railways
Research Designs & Standards Organisation

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MODIFICATION SHEET No. RDSO/WAM4/131

Potential segregation of signalling fuse cable
of Silicon Rectifier supplied by M/s Hind Rectifier Ltd.

Object of modification

Vijayawada Shed reported failures of M/s Hind Rectifier Ltd. make converter due to Signalling fuse wire flashover. Investigation revealed that different potential signalling fuse wire numbers i.e., FS1, FS5, FS7, FS9, FS11, FS13, FS14, FS15 has been bunched with AC1 of 2000 V potential cable, which have flashed. These wires are required to be separated.

2. Work to be Carried-out:

2.1 Make a tapped hole near the upper end of AC1 bus bar.
2.2 Disconnect the connection of existing AC1 cable from the bunch of signalling fuses cables and remove the existing AC1 cable and cut to suitable size to suit the new connection.

2.3 Fix a modified AC1 cable near the top of the AC1 bus bar with a screw at the newly tapped hole.

3. Application to class of locomotive:

WAM4 locomotives provided with M/s Hind Rectifier Ltd. cubicles having signalling fuse panel on the left side of the upper part of front cover.

4. Material Required:

Screw and washer for making the new connection near the upper end of the AC1 bus bar.

5. Material rendered surplus

Small piece of signalling wires (AC1)

6. Reference:

This modification is based on the modification done by South Central Railway, Vijayawada Electric Loco Shed. Railway reported that modified loco rectifier is working satisfactory.

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