#### Government of India

# Ministry of Railways Research, Designs & Standards Organisation Manak Nagar, Lucknow - 226 011

No. EL/3.2.172 Dated 27.2.1998

### Modification Sheet No. RDSO/WAG 5/27 (New No. WAG5/240)

- **1.** <u>Title:</u> Adoption of modified insulating rod assembly (for positive & negative support) and modified fixation arrangement of BHRR flexible cable interconnectors for Traction Motor type HS 15250A.
- **2. Application**: Traction Motor type HS15250A.
- **3. Object:** Railways have reported that during the maintenance the shed people are facing problems to open & refit the brush holder flexible interconnectors and positive & negative flexible lead connections from their respective brush holder box arm and insulating rod assemblies, while the motor is in assembled condition due to bolt heads being inaccessible.

This matter has also been discussed in the meeting held at CLW/Chittaranjan on 23rd & 24th Dec'97 on the performance of WAG7 loco & Hitachi Traction Motors, where the representatives from Railway Board, RDSO, CLW, Zonal Railways, M/s BHEL and CGL participated.

To Improve the performance of Traction Motor as well as to overcome the above maintenance problems, it is recommended to adopt the modified insulating rod assembly for positive and negative support as per RDSO Drg. No. SKEL.-4439 and also follow the modified fixation arrangements for the BHRR interconnectors and positive and negative flexible lead at the respective brush boxes as per RDSO DRg. No. SKEL. 4450. In the modified layout or interconnections, the fixing bolts are accessible while the YM is in assembled condition.

### 4. Work to be Carried out. :

- **4.1** Remove the existing insulating rod assembly for positive and negative support.
- **4.2** Refit the modified insulating rod assembly for positive & negative support, procured as per RDSO Drg. NO. SKEL.-4439 at the respective position.
- 4.3 Machine/Mill the brush box arm by 1mm from top side instead of machining milling 1 mm from lower side, to have proper seating base for brush holder interconnecting head cable and also positive/negative insulating rod assembly flexible interconnectors on it.

- **4.4** Reconnect all the flexible connectors as per RDSO Drg. No. SKEL.-4450.
- 4.5 Tighten the connections at the brush box arm and positive and negative support insulating rod assembly properly at the specified torque of 4.18 kgfm and 10.2 kgfm from respectively.
- **Reference:** RDSO Drg. No. SKEL.-4439 & 4450 (copy enclosed).

## 6. Periodicity of implementation :

Whenever the Traction Motors are taken out from bogie for any repairs or major overhauling (IOH/POH).

### 7. Agency of implementations : -

- TM manufacturers
- TM workshops
- POH/repair shops
- Electric loco sheds
- **8.** <u>**Distribution**</u>: As per enclosed list.

(R. K. Kulshrestha

Roju Kuman

for Director General/Electrical

Encl: As Above.

(RDSO Drg. No. SKEL. 4439 and 4450)



