Government of India Ministry of Railways Research Designs & standards Organisation Manak Nagar, Lucknow 226011.

No. EL/3.2.12/EC2 Dated: July, 1979

MODIFICATION SHEET NO. RDSO/WAM4/84

PROVISION OF CURRENT LIMITING RESISTOR ON STATIC BATTERY CHARGER TYPE BCF7 OF M/S CONTROLS & DRIVES CORPORATION, COIMBATORE

1. **Object of modification :**

1.1 Railways have reported a number of cases of failures of BCF7 chargers due to blowing of fuse, failure of diodes, current transformer and other components. Similar failures were reported on BCF-6 battery charger of the same make. Investigation indicated that these failures were mainly due to inrush of excessive current to the discharged batteries. To limit the excessive current, a current limiting resistor (RCL) was provided and the failures of the component were arrested. This modification is also proposed to be incorporated on BCF7 battery chargers.

2. Work to be carried out:

Mount the current limiting resistor (RCL) of resistance 0.6 to 0.7 ohm, 300W as shown in RDSO drawing No. SK. EL. 2813/B outside the battery charger on the side panel as indicated in RDSO drawing No. SK. EL. 3151 enclosed with modification sheet No. 83

3. **Application to class of locomotive :**

3.1 WAM4 and other electric locos with BCF7 battery charger provided.

4. **Material required:**

4.1 Vitreous enamelled wire wound resistor between 0.6 to 0.7 ohm, 300W as per IS: 3373 (Part-II) - 1967 as for BCF-6 chargers.

5. **Material rendered surplus** - NIL

6. **Reference** - NIL

7. **Modification Drawing:**

RDSO. SK. EL.. 2813/B RDSO. SK. EL.. 3151

8. **Agency for modification :**

Railways - All battery chargers type BCF-7 provided on electric locomotives.

9. **Distribution:**

(As per list enclosed.)

Encls.

1. Mailing List 2. Drg. SK. EL. 2813/B

Vyrender Kunar

(S. Kumar) for Director General (Elect.)

