GOVERNMENT OF INDIA

MINISTRY OF RAILWAYS

RESEARCH DESIGNS AND STANDARDS ORGANISATION

Manak Nagar, Lucknow 226011

NO EL/3:2:53/2/CG

MODIFICATION SHELT NO RUSO/WAM4/103A

"(Supersedes M.S. No RUSO/WAM4/103)

REPLACEMENT OF KAYCEE PROGRAMME
SWITCHES BY SILMENS MAKE FOR HYSI

1. OBJECT:

Kayoee brand programme switches, type RP rated for 440V, 10A(AC/DC) are being used by CLW for HVSI application. Railways have reported several failures. On investigation, the following points were noticed:

- a) / Flash over occurs over lalemine surface across thase terminals.
- b) Some terminals cum contact strips were slack in

 the packet assembly and tend to come cut.

 c) Dust enters through the vacant slots in the packets.

 The rotating contacts gets jammed due to dust

 settling down into hard mass. These contacts are

 not accessible for cleaning.

 d) The pressure exerted by the rotating contacts

 over the fixed contacts gets disturbed whenever

 connecting cable exerts some pull on the fixed

 terminals.

 6) The main spring of the operating mechanism gets

 broken occassionally.

 These problems were discussed with Mysakayeee,

 - - Dring the discussions, points given helow to the corest of the corest of

Since Siemens switches are used extensively for certail loce applications, same brain was recommended carried for HVSI. Single railways land experienced ifficiently in getting switches is our actual repairments, in consultation of the house of interest the control of the switches is our actual repairments. In consultation of interest to be supported to the consultation of interest to be supported to the same of interest to be supported to the same of interest to be supported to the same of the

MATERIALS REQUERED:

- a) One programme switch for each silicon rectifier

- b). One sluminium name plate for each rectifier panel.

 c) Four M.S. screws M5x12 mm(plated) for fixing each switch

 5. MATERIALS WENDERES SURPLUS:

 One Ksycer Jyoti brand switch.

 6. MODIFICATION DPAWINGS:

 Anature with SKEL 3580.

 7. AGENCY FOR HIPLEMENTATION:

 Chittarangan Locometive Works for locos under production:

 Electric Locometics and F.O.H. Shops for locos
 - Flectric Loca Sheds and P.O.H. Shops for locas in service.

 Manufleturers of silicon rectifier panels.

 8. <u>DISTRIBUTION:</u>
 As per milling list.

Enel: i) Annexure FOR DIRECTOR GENERAL (ELECT.)

11) SKEL 3580.

AEDOST SIGNATURE SIGNATURE

APPLICATION: "EVSI" IN SLECTRIC LOCALOTIVES.

2. BASIC SHITCH: SIR MS TYP3 I 138x24 TO IS: 4064 PT.I & II,
OPEN EXECUTION WITH FOUR PACKETS.

2. CONTACT A THIS RCS LOTDER THAN 415, 16A, 10 E.P. & AC21
DUTY BOOW 25A.

4. DETTE: MORAL HIE BOUSLE, THIS RED ENOB.

5. MOUNTHIG: FIOTETAINEL 6.35 MAR FRICE (BAXIMUM)

6. ASSEABLY: AS PER SIDENS WSG. ETA HIG NO. 3A -00010100314-001 HIE M.S. PRONT HATE 62x 7 [X 20100314-001 HIE M.S. PRONT HATE 62x 7 [X 20100314-001 HIE M.S. PRONT HATE 62x 7 [X 20100314-01 HIE M.S. PLATE (P13).

5. MAKE PLATE: COLSTOLAL GRADE ALBUMIUM PLATE THIOUT
ANY SLAFT EXCEL 3588.

8. PROGRAMME: DETAILS AS PER SCHEME GIVEN IN SKEL 3580. The second secon

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NOTE:

1. LOCO CLICUIT DITAILS ARE FOL GUIDANCE ONLY.

2. LOUNT HES STRICE DI INVERTED POSITION.

3. CLICUIT DISTAILS IN CASE NAME PLATES ARE NOT REQUIRED.

4. TO THE ETABLE POSSIBLE, QUARTITY COVERED SHALL BE FOR A FRIME OF 25 STREETS AS REQUESTED BY THE

