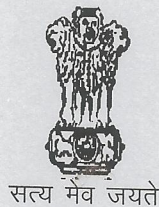


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 Government of India - Ministry of Railways  
 Research, Designs & Standards  
 Organization, LUCKNOW – 226011

No. EL/3.2.61/3

Dated: 24.10.2018

**Principal Chief Electrical Engineers,**

- i. Central Railway, Mumbai, CST-400 001.
- ii. Eastern Railway, Fairly Place, Calcutta-700001.
- iii. East Coast Railway, Chandrashekharpur, Bhubneshwar-751 016
- iv. Northern Railway, Baroda House, New Delhi-110001.
- v. North Central Railway, Subedarganj, Allahabad-211 033
- vi. Southern Railway, Park Town, Chennai-600 003.
- vii. South Central Railway, Secunderabad-500 071.
- viii. South Eastern Railway, Garden Reach, Calcutta-700 043.
- ix. South Western Railway, Hubli-580 020
- x. Western Railway, Church gate, Mumbai-400 020.
- xi. West Central Railway, Jabalpur-482001
- xii. South East Central Railway, Bilaspur-495 004
- xiii. East Central Railway, Hazipur-844101.
- xiv. North Western Railway, Jaipur-302 006
- xv. North Eastern Railway, Gorakhpur-273 001
- xvi. North East Frontier Railway, Maligaon, Guwahati-781 011

**MODIFICATION SHEET NO. RDSO/2018/EL/MS/0471, Rev '0'**

**1.0 TITLE**

Modification in the bottom plate of M/s Schneider make Single bottle VCBs.

**2.0 BACKGROUND**

Zonal Railways have experienced failure of M/s Schneider make single bottle VCBs due to ingress of water in VCB. The ingress of water is due to reasons as follows.

- a) Leakage from joints of top and bottom insulator
- b) Leakage from joints of bottom insulator and VCB housing.
- c) Moisture in inlet air.

To arrest the leakage for reason (a) and (b) above SMI 285 for application of sealant has been issued. To eliminate moisture in inlet air SMI 305 for maintenance of air dryer has been issued. To drain out water accumulated in VCB due to any reason; this modification sheet is being issued. This modification was done by ELS/CNB/NCR and rusting did not take place in modified locos.

**3.0 OBJECT**

The purpose of this modification in M/s. Schneider make single bottle VCB is to avoid failure of VCB due to ingress of water.



**4.0 WORKS TO BE CARRIED OUT**

Nine hole of 8 mm diameter are to be drilled in the bottom plate of VCB as shown in drawing No. RDSO/2018/EL/MS/0471, Rev '0' in annexure A

**5.0 APPLICATION TO CLASS OF LOCOMOTIVES**

All class of electric locomotives provided with M/s Schneider make single bottle VCBs.

**6.0 MATERIAL REQUIRED**

Nil

**7.0 MATERIAL RENDERED SURPLUS**

Nil

**8.0 REFERENCES**

Nil

**9.0 MODIFICATION IN DRAWING**

As per enclosed drawing.

**10.0 AGENCY FOR IMPLEMENTATION**

All Electric Loco Sheds & POH Workshops.

**Encl:** Annexure-A

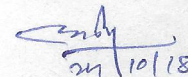


(A.K.Shukla)

**for Director General Std./Electrical**

**Copy to:**

As per Standard Mailing List No. EL-M-4.2.3-19 Latest Revision



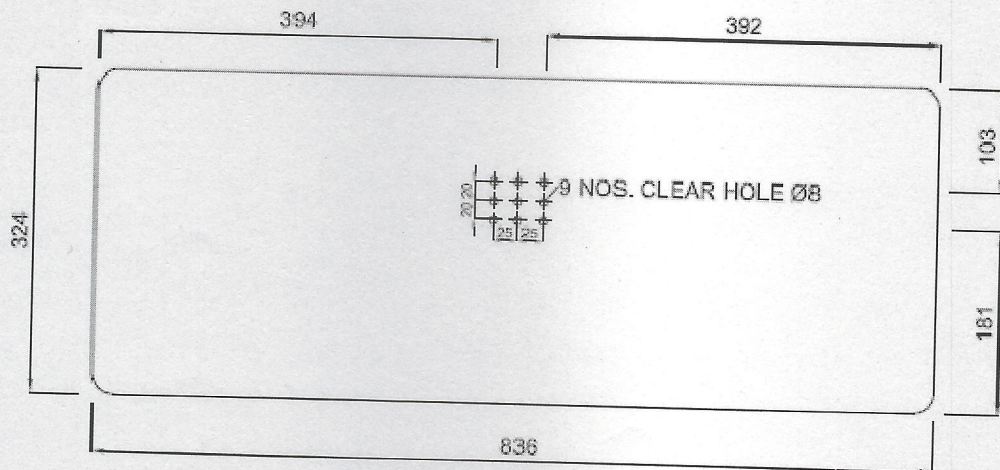
(A.K.Shukla)

**for Director General Std./Electrical**

**Encl:** Annexure-A



## Annexure- A



Modification Sheet No-RDSO/2018/EL/MS/0471 Rev '0'