



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

Telephone: 2465763 (O).
42805(Off.)
Fax : 91-0522-2465763
E-mail:dti.rdso@gmail.com



TI/PSI/INSOIL/POLICY/19

Dated the 26th July, 2019

To,
The Principal Chief Electrical Engineer,

- | | |
|--|--|
| (i) Central Railway, Station Building, Mumbai CST - 400 001. | (ii) Eastern Railway, Fairlie Place, Kolkata-700 001. |
| (iii) East Central Railway, Hajipur-844 101. | (iv) East Coast Railway, Bhubaneswar-751 023. |
| (v) Northern Railway, Baroda House, New Delhi - 110 001. | (vi) North Central Railway, Allahabad-211 015. |
| (vii) North Eastern Railway, Gorakhpur-273 012. | (viii) North Frontier Railway, Mailgaon - 781 011. |
| (ix) North Western Railway, Jaipur - 302 017. | (x) Southern Railway, Park Town, Chennai- 600 003. |
| (xi) South Central Railway, Railnilayam, Secunderabad-500 371 700 043. | (xii) South Eastern Railway, Garden Reach, Kolkata- |
| (xiii) South East Central, Railway, Bilaspur-495 004. | (xiv) South West Railway, DRM's Office, Hubli-580 028. |
| (xv) Western Railway, Churchgate, Mumbai-400 020. | (xvi) West Central Railway, Jabalpur- 482 001. |
| (xvii) Konkan Railway, Belapur Bhavan, Sector-11, CBD Belapur, Navi Mumbai 400614. | (xviii) CORE, Allahabad-211001. |

Sub: Standard of Inhibited Mineral Insulating Oil for Traction Transformers.

Presently, the Inhibited Mineral Insulating Oil in Traction Transformer is used as per the IS: 12463(1988) & requirements mentioned in the RDSO letter No. TI/PSI/INSOIL/POLICY/07 dated 27.02.2007, letter no. TI/PSI/INSOIL/POLICY/08 dated 06.02.2008 and letter no. TI/PSI/TRNPWR/POLICY/16/01 dated 28.10.2016.

As, the IS: 12463 has been superseded by the IS: 335(2018), the earlier mentioned standard and letters for the Inhibited Mineral Insulating Oil in Traction Transformer are hereby superseded by the following:

1. The Inhibited Mineral Insulating Oil as per Type-II Transformer Oil of IS: 335:2018 is to be used.
2. Also, following parameters are required to be maintained and ensured in the Inhibited Mineral Insulating Oil being supplied by the RDSO approved suppliers in addition to the technical requirements laid down in IS:335 (2018).

SN	Parameter	Requirements
1.	Lowest Cold Start Energizing Temperature (LCSET)	0°C
2.	Flash point	Min, 140 °C
3.	Presence of Oxidation Inhibiter (DBPC-2, 6 ditertiary-butyl-para-cresol)	Range (0.25 to 0.30) %
4.	Oxidation Stability: (a) Total Acidity (Neutralisation value after oxidation) (b) Total sludge after oxidation	Max, 0.2 mg KOH/g Max, 0.05%

3. RDSO's ISO procedure: "All the provisions contained in RDSO's ISO procedures laid down in Document No. - QO-D-8.1-11 (titled "Vendor-changes in approval status") and subsequent versions/amendments thereof, shall be binding and applicable on the successful vendor/vendors in the contracts floated by Railways to maintain quality of products supplied to Railways."

This is issued with approval of the competent authority.

(Signature)
(Dr. Ashish Agarwal)
Director TI-3

For Director General (TI)

Encl: NIL.