

Central Marks Department –III

Our Ref: CMD-III/ IS 1180 (Part 1) & IS 1180 (Part 3)

11 January 2023

Subject: Certification of Distribution Transformer as per IS 1180 (Part 1) : 2014 and IS 1180 (Part 3) : 2021. - reg

1. This has reference to the subject mentioned above.
2. The Indian Standards allow the use of following raw material for making the core of the transformer:
 - a. ISI marked CRGO steel. Manufacturers can procure ISI marked CRGO sheets and make laminations/ core assembly after suitable jobwork.
 - b. ISI marked Amorphous Material. Manufacturers can procure ISI marked Amorphous material and make laminations/ core assembly after suitable jobwork.
 - c. Direct procurement of Lamination/ Stamping/ Core Assembly with valid CoC. Lamination/ stamping/ core assembly can directly be procured by transformer manufacturers from vendors having a valid CoC.
3. To ensure that the above is followed, the product manuals for ‘Outdoor/Indoor Type Oil Immersed Distribution Transformers upto and including 2 500 kVA, 33 kV’ as per IS 1180 (Part 1) : 2014 and IS 1180 (Part 3) : 2021 have been modified.
4. The major changes made in the Product Manuals are indicated below:
 - a. Existing note 1 of Table 1 of SIT of the PM for IS 1180 (Part 1) and IS 1180 (Part 3) is modified as “Shall be ISI Marked with supplier test certificate. However, if the material so procured is sent to outside vendor for getting the job work done, it shall be done from a valid Certificate of Conformity (CoC) holder only. In case Stampings/ laminations/ cores of transformers (with winding/ without winding) are procured by the transformer manufacturer, these shall carry a valid Certificate of Conformity (CoC) from BIS.”
 - b. A new note 2 has been added as below:
“Purchase and consumption records as per Annex F shall be maintained for the ISI marked material and the Stampings/ laminations/cores received from valid licensee/ CoC holders under CoC. These records are to be presented for verification during factory surveillance by BIS.”
 - c. Annex F for maintaining purchase and consumption record of the ISI marked material and the Stampings/ laminations/cores received from valid licensee/ CoC holders has been added.
 - d. Verification of records during surveillance in order to check compliance as per the modified Note 1 and new Note 2 above has also been included in the “Possible tests in a day”.

- e. Further, the Inspecting Officer shall report the availability and verification of the above records/ certificates in his/her surveillance report.
5. Subsequently the product Manual for IS 1180 (Part 1) : 2014 and IS 1180 (Part 3) : 2021 have been revised as doc: **PM/ IS 1180 (Part 1)/ 5/ January 2023 and PM/ IS 1180 (Part 3)/ 2/ January 2023** respectively.
 6. These changes come into force with immediate effect.
 7. All the BOs are kindly requested to circulate the revised Product Manuals to all the licencees in their jurisdiction at the earliest to ensure immediate compliance.
 8. CSMD is kindly requested to circulate the revised Product Manuals to OSAs at the earliest.
 9. Compliance to the changes made in the Product Manual shall be monitored through surveillance visits.
 10. In case any licencee finds difficulty in following the modified SIT, the same may kindly be brought to the notice of CMD-III immediately.
 11. This issues with the approval of Competent Authority.

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