

Issues in impact of Regulations on Distribution Transformers

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Standardisation of Specifications

Committee A submitted report to MoP in October, 2015

- Power Transformers and Distribution Transformers were the two major high value items identified for DDUGJY and IPDS Projects.
- included both the core materials (CRGO/ Amorphous) and both winding materials(Al/Cu).
- As per these Specifications, a minimum of 4 star (Level 2 as per IS 1180(Part I): 2014) labelled DTs proposed to be procured under DDUGJY and IPDS.
- MoS decision :Discoms/Power Deptt. May purchase equipment/material for IPDS and DDUGJY as per Technical Specifications finalized for IPDS and DDUGJY Projects

BEE Gazette Notification on Star Labelling of Distribution Transformers

As per amendment Notification dated 16th December, 2016
(effective from 1st July, 2017)

- Existing Star 4  New Star 1
- Existing Star 5  New Star 2
- Losses for new Star 3, Star 4 and Star 5 labelled Distribution Transformers have been introduced.
- All DTs (upto 2500 KVA) to carry BIS certification mark
- Comply with various type test parameters

Issues faced and important Committee Decisions

Requirement of dual certification by BIS & BEE

For ease of doing business for DT manufacturers, license of BIS alongwith test reports would be sufficient to issue the star rating for **particular capacity** transformer within 30 days of receiving the documents.

Whenever manufacturer undertakes manufacturing the **lower rated** kVA capacity transformer and submit its test report to BIS, the same may also be submitted to BEE and accordingly BEE would issue star labelling within 30 days of receiving the documents.

BEE to accept certificates from any NABL accredited labs/BIS approved labs.

Issues faced and important Committee Decisions-continued

Decision by BEE without involving Stakeholders

BEE was advised to intimate all the utilities and transformer manufacturers about the notifications and amendments

In future, BEE should have wider consultation process for any amendment on notification

Orders under process/ already taken for Level-1 DTs

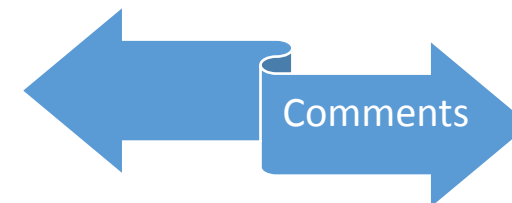
Implementation of new star ratings made effective from 1.7.2017 instead of earlier 1.1.2017

CEA (Technical Standards for Construction of Electric Plants and Electric Lines) Amendment Regulations

- CEA (Technical Standards for Construction of Electric Plants and Electric Lines) **Amendment** Regulations were notified in April, 2015.

Major Amendments carried out:

- Maximum losses of oil filled Distribution Transformer shall be as per relevant IS.
- Standard Ratings of Distribution Transformers shall be as per relevant IS.
- Tapping shall be provided as per relevant IS.
- Mounting arrangement of Transformers shall be as per relevant IS.
- CEA is in the process of carrying out **2nd Amendment** to CEA (Technical Standards for Construction of Electric Plants and Electric Lines) Regulations, 2010.



Thank You