



ALL INDIA TRANSFORMERS MANUFACTURERS ASSOCIATION

(REGISTERED UNDER SOCIETIES ACT; REGISTRATION No. : 02950)

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AITMA/2025/07

11th February 2025

Mrs. Aarti Dogra, IAS
Chairperson & Managing Director
Jaipur Vidyut Vitran Nigam Limited
Janpath, Jyoti Nagar
Jaipur (Rajasthan)

Subject: Request for exclusion of LT Box during testing of Distribution Transformers at the Central Testing Laboratory

Dear Madam,

The All India Transformers Manufacturers Association (AITMA), established in 2017, is the apex body representing the Indian electrical transformer and allied industries. With over 75% of transformer manufacturers under its ambit, representing finished products, components, and services, AITMA plays a pivotal role in advancing the power infrastructure of the country. Notably, a substantial portion of our industry comprises of the small and medium enterprises (SMEs).

We would like to bring your kind attention to an important issue reported by our members, regarding the transformer testing procedure being followed at the Central Testing Laboratory (CTL).

As per the current practice at CTL, the LT boxes installed on transformers are considered as a part of the transformer during testing. However, this approach is technically incorrect and does not align with standard transformer testing procedures followed nationally/globally.

It has been observed that during routine testing, if due to mis-handling and during transportation any LT box connection of a transformer becomes loose, it adversely affects the measured load losses and impedance of the transformer, often causing these parameters to exceed permissible limits. Such failures are not indicative of a defective transformer, it is only an effect of external accessories being included in the test circuit.

As per international testing standards (such as IEC and IS standards), transformers are tested independently, without considering external accessories such as LT boxes, cable terminations, or external connections. The purpose of transformer testing is to validate the core electrical characteristics of the transformer itself, and any external component should not influence the pass/fail decision.

In light of the above, we kindly request you to issue the necessary instructions to CTL that:

1. Transformers should be tested separately, without including LT boxes in the test circuit.
2. If the transformers is tested with LT boxes, then in cases where a transformer is found to exceed the specified limits of load losses and impedance due to LT box connections, it should be re-tested without the LT box to ascertain its actual performance.

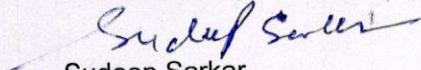
This corrective measure will ensure a fair and accurate assessment of the quality of a transformer and prevent unnecessary rejection of transformers due to external connection issues.

We sincerely request your intervention in this matter and look forward to your prompt action in issuing the necessary directives to CTL.

We look forward to a favourable consideration of our above request.

Thanking you

Yours sincerely,



Sudeep Sarkar
Director General
AITMA

CC The Director Technical, JVVNL