



भारत सरकार/ Government of India
विद्युत मंत्रालय/ Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/ Central Electricity Authority
विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग
Power System Engineering & Technology Development Division

Date: 24.01.2026

विषय: Compliance of CEA "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV & above voltage class)"-reg.

महोदया/ महोदय,

You are kindly aware that CEA has issued the "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV & above voltage class)" in April 2021, which aims to promote uniformity in the Specification and technical Parameters of Transformers and Reactors.

2. Later on, these Standards have also been made mandatory by incorporating them in Regulations 46(1)(a) in Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 that have been notified on 23rd December, 2022.
3. These Standard Specifications have been framed with the objectives of simplifying the procurement process, bringing faster delivery, incorporating best design practices, quality control, testing requirements and placing all the manufacturers on a level playing field. As per these specification, rating of the Power Transformers & Generating Transformers up to the Voltage level of 66 kV have been standardized. The standardized rating is given at **Annexure-I** for your kind reference.
4. It has been observed that various Utilities are not strictly following the Transformer ratings mentioned in the said CEA document while floating tenders for Transformers of 66 kV and above voltage class. Non-Standard rating of Transformers are being specified in the tender in violation of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022.
5. Use of non-standardized rating of Transformers is not only leading to delay in the supply of the Transformer but also compelling Transformer manufacturers to design and test a new rating Transformer. This leads to increase in the cost of non-standard Transformer on account of the new design, various Type tests and Dynamic Short Circuit tests. Further, it has also been observed that lesser number of Transformer and Reactor manufacturers are participating in the procurement tender of non-standard rating of Transformer thereby reduction in the competition.

6. In view of the above, all Utilities are advised to strictly adhere to the rating, specifications and technical parameters prescribed in the CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV & above voltage class)" while preparing and floating tenders for procurement of Transformers.

A copy of these Standard Specifications is available on the CEA website at the following:
https://cea.nic.in/wp-content/uploads/pse___td/2022/01/Transformer_manual_for_printing.pdf

This issues with the approval of competent authority.

Encl: as above

भवदीय/ Your Faithfully,

Digitally signed by

N.R.L.K. Prasad

Date: 24-01-2026

12:39:50

(एन. आर. एल. के. प्रसाद/ N.R.L.K. Prasad)

मुख्य अभियंता/Chief Engineer

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1. Standard rating of Power/Auto Transformers:

Sr. No.	MVA Rating	Line Voltage Rating	Phase	Type
1.	500 MVA	$(765/\sqrt{3})/(400/\sqrt{3})/33$ kV	Single Phase	Auto Transformer
2.	500 MVA	400/220/33 kV 400/230/33 kV	Three Phase	Auto Transformer
3.	315 MVA	400/220/33 kV 400/230/33 kV	Three Phase	Auto Transformer
4.	167 MVA	$(400/\sqrt{3})/(220/\sqrt{3})/33$ kV $(400/\sqrt{3})/(230/\sqrt{3})/33$ kV	Single Phase	Auto Transformer
5.	105 MVA	$(400/\sqrt{3})/(220/\sqrt{3})/33$ kV $(400/\sqrt{3})/(230/\sqrt{3})/33$ kV	Single Phase	Auto Transformer
6.	315 MVA	400/132/33 kV	Three Phase	Auto Transformer
7.	200 MVA	400/132/33 kV 400/110/33 kV	Three Phase	Auto Transformer
8.	200 MVA	220/132 kV 230/110 kV 220/110 kV	Three Phase	Auto Transformer
9.	160 MVA	220/132 kV 230/110 kV 220/110 kV	Three Phase	Auto Transformer
10.	160 MVA	220/66 kV	Three Phase	Power Transformer
11.	100 MVA	220/33 kV 230/33 kV	Three Phase	Power Transformer
12.	80 MVA	132/33 kV 110/33 kV	Three Phase	Power Transformer
13.	50 MVA	132/33 kV 110/33 kV	Three Phase	Power Transformer
14.	31.5 MVA	132/33 kV 110/33 kV	Three Phase	Power Transformer
15.	31.5 MVA	66/11 kV	Three Phase	Power Transformer
16.	20 MVA	66/11kV	Three Phase	Power Transformer
17.	12.5 MVA	66/11kV	Three Phase	Power Transformer

2. Standard rating of Generator Transformers (for Thermal Plants):

Sr. No.	MVA Rating	Line Voltage Rating	Phase	Type
1.	315 MVA	Generation Voltage/ $800/\sqrt{3}$ kV	Single Phase	GT
2.	265 MVA	Generation Voltage/ $800/\sqrt{3}$ kV	Single Phase	GT
3.	315 MVA	Generation Voltage/ $420/\sqrt{3}$ kV	Single Phase	GT
4.	265 MVA	Generation Voltage/ $420/\sqrt{3}$ kV	Single Phase	GT
5.	200 MVA	Generation Voltage/ $420/\sqrt{3}$ kV	Single Phase	GT