



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

3rd Floor, Sewa Bhawan, R.K. Puram, New Delhi – 66,

सेवा में,

As per attached List

विषय: Amendment No. 1 to “Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class)”-reg.

As you are aware that “Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class)” duly approved by Hon`ble Minister of Power and New and Renewable Energy was circulated by this office vide letter dated 29.04.2021 to all the concerned utilities. Further, the document also empowers the committee under Chairmanship of Member (Power System) with representation from stakeholders (IEEMA, EPTA, CPRI, POWERGRID, NTPC, NHPC, Two STUs) as members and CE (PSETD) as Member Secretary of the committee to carry out updation of the document every two years and any amendment, if there is an urgency. Clause No. 7 of Chapter 2 of the above mentioned document mandates the requirement of Dynamic Short Circuit Test for Transformers.

Representation has been received from multiple organizations citing that presently none of the Transformer manufacturer has got their design of 765 kV class and 500 MVA, 400 kV class transformer tested for dynamic short circuit withstand capability and process of getting the design tested would take approximately 15-18 months and only after successful testing subsequent units can be manufactured which will further take few months depending upon availability of material and capacity in the works. Manufacturers are in no position to deliver the transformer of tested design within next 24 Months. This scenario could delay the completion schedule of many transmission projects, specially associated with the evacuation of renewable generation.

To deliberate the issue of DSC requirement for the above mentioned transformers, a meeting of the committee under Chairmanship of Member (Power System) was held on 28.08.2021. After detailed deliberations

following amendment in clause 7 of Chapter 2 of “Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above)” was finalized:

Existing Provision	Amended Provision
<p>7.0 DYNAMIC SHORT CIRCUIT TEST REQUIREMENT AND VALIDITY</p> <p>The transformer, the design of which is similar to the offered transformer, should have been successfully tested for short circuit withstand capability as per IS 2026 Part-5 in line with the requirement of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations. The criteria for similar transformer is specified in Annexure-J. The relevant Test Report/certificate shall be enclosed along with bid. Further, design review of offered transformer shall be carried out based on the design of reference transformer, which has already been subjected to Short circuit tests in lieu of repetition of Short circuit tests. In case, manufacturer has not conducted short circuit test earlier, the same shall be carried out on offered transformer.</p> <p>A format (forms part of Annexure-J) filled with data of a typical sample case has been prepared for reference and guidance of utility to compare a Short Circuit tested transformer with the offered transformer in order to verify the similarity criteria as per Annexure J.</p>	<p>7.0 DYNAMIC SHORT CIRCUIT TEST REQUIREMENT AND VALIDITY</p> <p>The transformer the design of which is similar to the offered transformer, should have been successfully tested for short circuit withstand capability as per IS 2026 Part-5 within last 5 years. The criteria for similar transformer is specified in Annexure-J. The relevant Test Report/certificate shall be enclosed along with bid. Further, design review of offered transformer shall be carried out based on the design of reference transformer, which has already been subjected to Short circuit tests in lieu of repetition of Short circuit tests. In case, manufacturer has not conducted short circuit test earlier, the same shall be carried out on offered transformer.</p> <p>However, considering the fact that dynamic short circuit tested design is not available for 765 kV voltage class Auto Transformer & 500 MVA, 400 kV voltage class Auto Transformer and testing of these transformers would require some more time, the above requirement of Dynamic short circuit (DSC) withstand test for these transformers shall be applicable for the projects for which bid invitation date is after 31st August 2023. For these transformers, theoretical evaluation of the ability to withstand the dynamic effects of short circuit, based on calculation and consideration of the design characteristics and manufacturing practices, shall be carried out as per IS 2026-5/IEC 60076-5.</p> <p>A format (forms part of Annexure-J) filled with data of a typical sample case</p>

	has been prepared for reference and guidance of utility to compare a Short Circuit tested transformer with the offered transformer in order to verify the similarity criteria as per Annexure J
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Further, queries have been received in this office on applicability of subject document for the projects awarded before issuance of the document. In this regard, it is clarified that the subject document was issued in April 2021 and shall be applicable for projects which were awarded after the issuance of the document. Similarly, another document "Standard Technical Specification of transformers for Solar Park Pooling Station" was issued in June 2021 and shall be applicable for projects, which were awarded after the issuance of the document.

भवदीय/ Regards

(अक्षय दुबे / Akshay Dubey)
उप निदेशक / Deputy Director

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