



**National Accreditation Board for
Testing and Calibration Laboratories**
(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

NATIONAL HIGH POWER TEST LABORATORY PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

POWERGRID Complex, 765/400kV S/S, Khimlasa Road, Bina, Distt.-Sagar,
Madhya Pradesh

in the field of

TESTING

Certificate Number TC-6407

Issue Date 12/10/2017

Valid Until 11/10/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

N. Venkateswaran
Program Director



89076970100030000303

Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory National High Power Test Laboratory Pvt. Ltd., POWERGRID Complex, 765/400kV S/S, Khimlasi Road, Bina, Distt.-Sagar, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6407 **Page 1 of 2**

Validity 12.10.2017 to 11.10.2019 **Last Amended on** 12.02.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I. TRANSFORMERS & REACTORS				
1.	Power Transformers, Auto Transformers (ICT), Generator Transformers, Converter Transformers for Industrial Applications & HVDC Applications, Traction Transformers and Series Reactors (50 MVA, 132kV Class to 520 MVA, 765kV Class) (1 Phase & 3 Phase Transformers)	Ability to withstand dynamic effects of Short circuit	IEC 60076-1: 2011 Cl. 11.1.4 IEC 60076-5: 2006 Cl. 4.2 IS 2026 (Part 1): 2011 Cl. 10.1.3 IS 2026 (Part 5): 2011 Cl. 4.2	50 MVA to 520 MVA 132 kV to 765 kV 1 ϕ & 3 ϕ Transformers
		Voltage ratio Voltage Vector relationship.	IEC 60076-1: 2011 Cl. 11.1.2 (Annex D) IS 2026 (Part 1): 2011 Cl. 10.1.1	Ratio up to 1000 All Vector Groups
		Short circuit Inductance	IEC 60076-1: 2011 Cl. 11.1.2 IS 2026 (Part 1): 2011 Cl. 10.1	100 μ H to 10 H
		Insulation Resistance	IEC 60076-1: 2011 Cl. 11.1.2 IS 2026 (Part 1): 2011 Cl. 10.1.3	1 M Ω to 100 G Ω
		Winding Resistance	IEC 60076-1: 2011 Cl. 11.1.2 IS 2026 (Part 1): 2011 Cl. 10.1.1	100 μ Ω to 1000 Ω
		Break Down Voltage of Transformer Oil	IEC 60296: 2012 IEC 60422: 2013 Cl. 5.3 IEC 60156 IS 335: 2010 IS 1866: 2000 Cl. 7.2 IS 6792	10 kV to 100 kV

Sreeram Pinnamaraju
Convenor

Alok Jain
Program Manager



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Moisture content of Transformer Oil - Coulometric Karl Fischer Titration method	IEC 60296: 2012 IEC 60422: 2013 Cl. 5.4 IEC 60814 IS 335: 2015 IS 1866: 2000 Cl. 7.3 IS 13567	1 µg/kg to 10 mg/kg 1 % to 100 %
		Frequency Response Analysis (FRA)	IEC 60076-1: 2011 Cl. 11.1.4	20 Hz to 2 MHz
		Capacitance Dissipation factor (tanδ)	IEC 60076-1: 2011 Cl. 11.1.2 IS 2026 (Part 1): 2011 Cl. 10.1.3	1 pF to 100 µF 0.00001(Abs) to 0.05 (Abs)

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