

Laboratory

Aditya Vidyut Appliances Ltd., Survey No.-168, Hissa No.-10, Sonale Village, Bhiwandi Bypass Road, NH-3, Dist.: Thane, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

TC-7909 (in lieu of T-3136)

Page 1 of 3

Validity

19.10.2018 to 18.10.2020

Last Amended on --

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

ELECTRICAL TESTING

I.	TRANSFORMERS AND REACTORS			
1.	Transformer (1) 100 KVA to 315 MVA, 420 kV, 3 Phase (2) 100 KVA to 200 MVA, 420 kV single phase	Voltage Ratio Polarity check	IS 2026 (Part 1): 2011 Cl. No. 10.3 IEC 60076-1: 2011 Cl. No. 10.3	0.8 to 2000
		Verification of vector group	IS 2026 (Part 1): 2011 Cl. No. 10.3 IEC 60076-1: 2011 Cl. No. 10.3	Qualitative
		Insulation resistance	IS 2026 (Part 1): 2011 Cl. No. 10.1.3 (j) IEC 60076-1: 2011 Cl. No. 10.1.3 (j)	1 MΩ to 100 GΩ 250 V to 5000 V
		Winding Resistance	IS 2026 (Part 1): 2011 Cl. No. 10.2 IEC 60076-1: 2011 Cl. No. 10.2	1 mΩ to 19.999 Ω
		No-Load loss and exciting current	IS 2026 (Part 1): 2011 Cl. No. 10.5 IEC 60076-1: 2011 Cl. No. 10.5	0.1 kW to 250 kW 1.0 A to 125 A 550 √3 V to 132√3 kV
		Harmonics of No-load current	IS 2026 (Part 1): 2011 Cl. No. 10.6 IEC 60076-1: 2011 Cl. No. 10.6	1 st to 27 th Harmonics

Sreeram Pinnamaraju
Convenor

Alok Jain
Program Manager

Laboratory

Aditya Vidyut Appliances Ltd., Survey No.-168, Hissa No.-10, Sonale Village, Bhiwandi Bypass Road, NH-3, Dist.: Thane, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

TC-7909 (in lieu of T-3136)

Page 2 of 3

Validity

19.10.2018 to 18.10.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Impedance (principle tapping) and load loss	IS 2026 (Part 1): 2011 Cl. No. 10.4 IEC 60076-1: 2011 Cl. No. 10.4	0.5 kW to 1500 kW 2.5 A to 2000 A and 550 $\sqrt{3}$ V to 132 $\sqrt{3}$ kV %Z: 2% to 20%
	Transformer (1) 100 KVA to 315 MVA, 420 kV, 3 Phase (2) 100 KVA to 200 MVA, 420 kV single phase	On-load tap-changer	IS 2026 (Part 1): 2011 Cl. No. 10.8 IEC 60076-1: 2011 Cl. No. 10.8	Qualitative
		Zero phase sequence impedance on three phase transformer	IS 2026 (Part 1): 2011 Cl. No. 10.7 IEC 60076-1: 2011 Cl. No. 10.7	%Z: 1.6 % to 18 %
		Induced over voltage	IS 2026 (Part 3): 2009 Cl. No. 12 IEC 60076-3: 2013 Cl. No. 11	1 kV to 500 kV
		Separate source voltage withstand	IS 2026 (Part 3): 2009 Cl. No. 11 IEC 60076-3: 2013 Cl. No. 10	1 kV to 275 kV
		Lightning impulse	IS 2026 (Part 3): 2009 Cl. No. 13 IEC 60076-3: 2013 Cl. No. 13	10 kV _p to 2000 kV _p
		Switching impulse	IS 2026 (Part 3): 2009 Cl. No. 10.7 IEC 60076-3: 2013 Cl. No. 14	250 kV _p to 1440 kV _p
		Temperature rise	IS 2026-2 (2010)	0.5 kW to 1500 kW

Sreeram Pinnamaraju
Convenor

Alok Jain
Program Manager

Laboratory

Aditya Vidyut Appliances Ltd., Survey No.-168, Hissa No.-10, Sonale Village, Bhiwandi Bypass Road, NH-3, Dist.: Thane, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

TC-7909 (in lieu of T-3136)

Page 3 of 3

Validity

19.10.2018 to 18.10.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			IEC 60076-2 (2011)	1 A to 2000 A 0.5 kV to 132/ $\sqrt{3}$ kV 1°C to 90°C
		Acoustic noise level	IS 2026 (Part 1): 2011 Cl. No. 10.1.3 (f) IEC 60076-10: 2005	40 dB to 100 dB
		Capacitance Tan delta	IS 2026 (Part 1): 2011 Cl. No. 10.1.3 (b) IEC 60076-1: 2011 Cl. No. 10.7	10 pF to 0.1 μ F 0.1% to 10 %
		Power Consumption by Fan & Pump - Cooler loss	IS 2026 (Part 1): 2011 Cl. No. 10.1.3 (h) IEC 60076-1: 2011 Cl. No. 10.1.3 (d)	0.5 kW to 15 kW

Sreeram Pinnamaraju
Convenor

Alok Jain
Program Manager