Laboratory Power Electronical Electro Technical Calibration Laboratory

(A Division of Power Electronical, Nashik), D-24, Classic Industrial

Premises MIDC, Ambad, Nashik, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2270 Page 1 of 2

Validity 22.06.2018 to 21.06.2020 Last Amended on -

SI.	Quantity Measured / Instrument		Calibration Measurement Capability (±)	Remarks			
ELECTRO-TECHNICAL CALIBRATION							
I.	SOURCE						
1.	C & Tan δ [#]	50 Hz 1) Capacitance: 1000 pF Tan δ: 0.005, 0.01, 0.05,0.1 (up to 5 kV)	0.75 % 0.00017 to 0.0005	Using Standard : Capacitor C & Tan δ Discrete values in steps 1 & 5 by Direct Method			
		2) Capacitance: 100 pF Tan δ : $0.0007, 0.0013, 0.0064, 0.013$ (up to 10 kV)	0.75 % 0.00013 to 0.0005				
2.	High Resistance for Insulator# @1 kV to 5 kV	1MΩ , 10 MΩ, 100 MΩ 1GΩ , 10 GΩ 100 GΩ 1 TΩ	1.1 % 1.28 % 2.5 % 3.7 % 7.7%	Using MΩ Box by Direct Method			

3 % to 2.7 %

Vishal Shukla Convenor

MEASURE

AC High Voltage#

50 Hz

1 kV to 100 kV

II.

1.

Avijit Das Program Director

Using HV Divider by

Direct/Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	DC High Voltage [#]	1 kV to 30 kV		Using HV Divider by Direct/ Comparison Method

^{*} Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

* The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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