

Laboratory Sudutt Electrical Testing Laboratory, GF-8, Tithi Heights, Gotri Road, Vadodara, Gujarat
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2774 **Page** 1 of 2
Validity 25.07.2018 to 24.07.2020 **Last Amended on** 12.02.2019

Sl.	Quantity Measured/ Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	MEASURE			
1.	Impulse Measuring System / Voltage Divider/Probe/Surge Generator [#]	For Divider Ratio: 1 to 10000 Ratio	0.84 %	Using Digital Oscilloscope with HV Probe/ HV Divider By Direct Method As per IEC 60060-2, IEC 61180, IS 2071 Part 1
		For Voltage Magnitude: 1Vp to 15000Vp Scale Factor: 0.5 to 1.5	0.382 %	Using Digital Oscilloscope with HV Probe or Divider By Comparison Method as per IEC 60060-2, IEC 61180, IS 2071 Part 1
		For LI: Front Time: 0.8 to 250 μ s Tail Time: 40 to 4000 μ s 1Vp to 15000Vp	0.452 μ s 0.39 μ s	
		For SI: Front Time: 20 μ s Tail Time: 4000 μ s Front Time: 250 μ s Tail Time: 2500 μ s 250Vp to 550Vp	2.157 μ s 0.53 μ s 1.8 μ s 0.37 μ s	Using Digital Oscilloscope with HV Probe or Divider By Comparison Method as per IEC 60060-2:2010-11, IS 2071:2016 Part 1

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Sl.	Quantity Measured/ Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
		For Chopping Impulse: Front Time: 0.5 μ s 250Vp to 800Vp	0.377 μ s	Using Digital Oscilloscope with HV Probe or Divider By Comparison Method as per IEC 60060-2:2010-11, IS 2071:2016 Part 1
2	Impulse Measuring System/ Voltage Divider/Probe*	For Divider Ratio: 1 to 10000 For Voltage Magnitude: 1 Vp to 150000 Vp Scale Factor: (0.5 to 1.5)	0.832% 0.382%	Using Digital Oscilloscope with HV probe or Divider – HV Divider by Comparison Method IEC 60060-2 IEC 61180 IEC 2071 Part 1
3.	High Voltage Source / Divider with indicating meter# (peak/ $\sqrt{2}$ or RMS meter) High Voltage Source / Divider with indicating meter* (peak/ $\sqrt{2}$ or RMS meter)	500 V to 5kV 5kV to 10kV 10kV to 150kV) Scale factor(0.5 to 1.5)	3.59 % 4.03 % 1.9% 0.382%	Using Digital Oscilloscope with HV Probe By Direct Method as per IEC 60060-2 Using Digital Oscilloscope with HV Probe By Direct Method as per IEC 60060-2
4.	PD Calibrator / Pulse Generator#	5 pC to 1000 pC	3.84 %	Using Resistance with Digital Oscilloscope By Direct Method as per IS/IEC 60270

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

*Only for Site Calibration

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

Battal Singh
Convenor

Avijit Das
Program Manager