

Laboratory Electrical Laboratory, NTPC Dadri (Coal), NTPC Limited, National Capital Power Station, P.O. Vidyut Nagar, Gautam Budh Nagar, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Electro-Technical Calibration **Issue Date** 20.11.2014

Certificate Number C-0287 **Valid Until** 19.11.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>SOURCE</u>			
1. AC VOLTAGE^{\$}	50 Hz 10 mV to 100 mV 100 mV to 1 V 1 V to 100 V 100 V to 500 V 500 V to 1000 V	1.41 % to 0.1 % 0.1 % to 0.14 % 0.14 % to 0.08 % 0.08 % to 0.15 % 0.15 % to 1.75 %	Using Multifunction Calibrator Fluke 9100 by Direct Method
2. AC CURRENT^{\$}	50 Hz 1 mA to 10 mA 10 mA to 100 mA 100 mA to 3 A 3 A to 10 A	1 % to 0.14 % 0.14 % to 0.2 % 0.2 % to 0.15 % 0.15 % to 0.3 %	Using Multifunction Calibrator Fluke 9100 by Direct Method
3. DC VOLTAGE^{\$}	10 mV to 100 mV 100 mV to 10 V 10 V to 500 V 500 V to 1000 V	0.93 % to 0.08 % 0.08 % 0.08 % to 0.13 % 0.13 % to 0.085 %	Using Multifunction Calibrator Fluke 9100 by Direct Method
4. DC CURRENT^{\$}	1 mA to 100 mA 100 mA to 3 A 3 A to 10 A	0.63 % to 0.095 % 0.095 % to 0.145 % 0.145 %	Using Multifunction Calibrator Fluke 9100 by Direct Method
5. FREQUENCY^{\$}	40 Hz to 500 Hz	1.13 % to 0.16 %	Using Multifunction Calibrator Fluke 9100 by Direct Method

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6. DC HIGH RESISTANCE ^{\$} (AT 500 V & 1000 V)	1 M Ω to 10 M Ω	0.77 % to 0.13 %	Using Decade Resistance Box.
	10 M Ω to 100 M Ω	0.13 % to 0.18 %	
	100 M Ω to 1000 M Ω	0.18 % to 1.3 %	Using Direct Method
	1000 M Ω to 10 G Ω	1.3 %	
	10 G Ω to 100 G Ω	1.3 % to 2.6 %	

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

^{\$} Only in Permanent Laboratory