Laboratory	Best Standards Technologies Pvt. Ltd.,Door No. 49, Moorthy Nagar, 3rd Street, Chettiar Agaram, Porur, Chennai, Tamil Nadu				
Accreditation Standard	ISO/IEC 17025: 2005				
Discipline	Electro-Technical Calibration		Issue Date	20.10.2014	
Certificate Number	C-0853		Valid Until	19.10.2016	
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks		
MEASURE					
1. DC VOLTAGE ^{\$}	1 mV to 100 mV 100 mV to 1 V 1 V to 1000 V	0.42% to 0.010% 0.010% to 0.006% 0.007%	Using 6½ DMM Agilent 34401A by Direct Method		
DC VOLTAGE [#]	1 kV to 2 kV 2 kV to 10 kV 10 kV to 25 kV	2.85% to 2.79% 2.79% to 2.85% 2.85% to 3.42%	Using HV Probe & DMM PD 28 by Direct Method.		
DC VOLTAGE*	200 V to 900 V	0.29% to 0.090%	Using Standard 6 ¹ / ₂ DMM by Direct method.		
2. AC VOLTAGE ^{\$}	1 kHz to 20 kHz 10 mV to 10 V 10 kHz to 20 kHz 10 V to 750 V	0.54% to 0.12% 0.11%	Using 6½ DMM Agilent 34401A by Direct Method		
AC VOLTAGE [#]	50 Hz 1 kV to 25 kV	6.48% to 6.39%	Using HV Probe & DMM PD 28 by Direct Method.		
AC VOLTAGE*	50 Hz 40 mV to 20 V 20 V to 700 V	0.93% to 0.76% 0.76% to 0.52%	Using 6½ DMM by Direct	Agilent 34401A Method	
3. DC CURRENT ^{\$}	10 mA to 100 mA 100 mA to 1 A 1 A to 20 A	0.085% to 0.064% 0.064% to 0.13% 0.13% to 0.35%	Using 6 ¹ / ₂ DMM Agilent 34401A & current shunt Agilent 34330A by Direct method.		

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Accreditation Standard		ISO/IEC 17025: 200	ISO/IEC 17025: 2005					
Dis	scipline	Electro-Technical C	alibration	Issue Date	20.10.2014			
Ce	rtificate Number	C-0853	C-0853		19.10.2016			
Last Amended on		-		Page	2 of 6			
	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks				
4.	AC CURRENT ^{\$}	1 kHz 100 mA to 1 A 1 A to 10 A 10 A to 20 A	0.58% to 0.18% 0.18% to 0.64% 0.64% to0.47%	Using 6½ DMM Agilent 34401A & current shunt Agilent 34330A by Direct method.				
5.	RESISTANCE ^{\$}	10 Ω to 100 Ω 100 Ω to 10 kΩ 10 kΩ to100 kΩ 100 k Ω to 1 M Ω 1 MΩ to 10 MΩ 10 MΩ to100 MΩ	0.059% to 0.020% 0.020% to 0.013% 0.013% 0.013% 0.013% to 0.047% 0.047% to 0.94%	Using 61/2 DMM Agilent 34401A by Direct Method				
6.	FREQUENCY [#]	3 Hz to 100 Hz 100 Hz to 10 kHz 0.01 MHz to 550 MHz	0.12% to 0.012% 0.012% 0.08% to 0.0016%	By using standard 6 ¹ / ₂ DMM & Frequency counter Goodwill GFC 8055G by Direct Method				
7.	TIMER [#]	10 s to 7200 s	4.3% to 0.70%	Using Standard Tim Direct me	er Quantum by ethod			
8.	TEMPERATURE SIMU (Indicator , Controller A RTD THERMOCOUPLES	LATION [#] nd Recorder) -100°C to 800°C	0.30°C	Using MFC UNAMAT TRX By Direct method.				
	IIIERMOCOULES	180°C to 750°C	0.51°C	Using MEC	Unomat			
	'T' TYPE	-250°C to 400°C	2.1° C to 0.62° C					
	'K' TYPE	-140°C to 1340°C	7.0°C to 0.99°C	By Direct M	lethod.			
	'R' TYPE	50°C to1700°C	3.6°C to 2.5°C					
	'S' TYPE	100°C to1700°C	3.7°C to 2.7°C					
	'E' TYPE	0°C to 800°C	2.3°Cto 0.42°C					
	'N' TYPE	-200°C to1300°C	0.77°C					
	'B' TYPE	600°C to1810°C	3.1°C					

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks	
9.	DC CURRENT*	200 mA to 1 A 1 A to 10 A 10 A to 20 A	0.090% to 0.13% 0.13% to 0.35% 0.35%	Using Standard 6½ DMM with current shunt by Direct method.	
10	AC CURRENT *	50 Hz 200 mA to 1000 mA 1000 mA to 10 A 10 A to 20 A	0.70% to 1.4% 1.4% to 2.7% 2.7% to 1.6%	Using Standard 6½ DMM with current shunt by Direct method.	
11.	RESISTANCE *	20 Ω to 200 Ω 200 Ω to 20 kΩ 20 kΩ to 200 kΩ 200 kΩ to 10 MΩ	0.060% 0.060% to 0.030% 0.030% 0.030% to 0.27%	Using Standard 6½ DMM by Direct method.	
1.	<u>SOURCE</u> DC VOLTAGE [♯]	10 mV to 300 mV 300 mV to 1 V 1 V to 1000 V	0.060% to 0.0090% 0.0090% to 0.014% 0.014% to 0.012%	Using Multifunct Wavetek 9000 by J	ion calibrator Direct method.
2.	AC VOLTAGE [#]	10 Hz to 3 kHz 10 mV to 100 mV 100 mV to 300 mv	4.5% to 0.11% 0.11% to 0.055%	Using Multifunct Wavetek 9000 by J	ion calibrator Direct method.
		50 Hz to 3 kHz 300 mV to 100 V 100 V to 300 V	0.054% to 0.080% 0.080% to 0.082%		
		50 Hz to 1 kHz 300 V to 500 V 500 V to 750 V	0.082% to 0.072% 0.072% to 0.068%		

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Discipline	Electro-Technical C	Electro-Technical Calibration		20.10.2014		
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Last Amended on	-					
Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks			
AC VOLTAGE ^{\$}	10 Hz to 30 kHz 100 mV to 3 V 3 V to 100 V	0.13% to 0.090% 0.090% to 0.12%	Using Multifunction calibrator Wavetek 9000 by Direct method.			
	50 kHz to 3 kHz 100 mV to 3 V 3 V to 100 V	0.54% to 0.33% 0.33% to 0.53%				
3. DC CURRENT [♯]	100 μA to 300 μA 300 μA to 3 mA 3 mA to 30 mA 30 mA to 300 mA 300 mA to 3 A 3 A to 10 A 10 A to 20 A	0.042% to 0.030% 0.030% to 0.027% 0.029% 0.028% 0.028% to 0.081% 0.083% 0.083% to 0.098%	Using Multifunction calibrator Wavetek 9000 by Direct method.			
	10 A to 100 A 100 A to 500 A 500 A to 1000 A	1.4% to 1.1% 1.1% to 0.91% 0.91% to 0.81%	Using Standard MFC with Current coil 2 Metho	C Wavetek 9000 Zeal by Direct od		
4. AC CURRENT [♯]	10 Hz to 3 kHz 100 μA to 300 μA 300 μA to 3 mA 3 mA to 300 mA 300 mA to 3A 3 A to 20 A	0.43% to 0.20% 0.20% to 0.090% 0.090% to 0.11% 0.11% to 0.14% 0.14% to 0.28%	Using Multifunction calibrator Wavetek 9000 by Direct method.			
	3 kHz & 10 kHz 30 mA to 300 mA 300 mA to 3 A 3 A to 10 A 50 Hz 10 A to 100 A	0.14% 0.14% to 0.39% 0.39% to 0.69% 1.9% to 1.3%	Using Standard M TURNS Current coil	ИFC with 100 by Direct Method		
Shally Sharma	100 A to 500 A	1.3% to 1.2%		Avijit Das		

Shally Sharma Convenor Avijit Das Program Manager

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks		
		500 A to 1000 A	1.2% to 1.1%			
5.	RESISTANCE [#]	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to100 kΩ 100 k Ω to 1 M Ω 1 MΩ to 10 MΩ 10 MΩ to100 MΩ	1.2% to 0.14% 0.14% to 0.050% 0.050% to 0.030% 0.030% to 0.038% 0.038% to 0.098% 0.098% to 0.20% 0.20% to 0.12%	Using Multifunction calibrator Wavetek 9000 by Direct method.		
6.	CAPACITANCE ^{\$}	1 kHz 100 pF to 1nF 1 nF to 10 nF 10 nF to 100 nF 1 µF to 10µF	3.5% to 6.7% 6.7% to 3.5% 3.5% to 3.5% 7.4% to 3.5%	Using Standard Capacitance Box by Direct Method		
7.	INDUCTANCE ^{\$}	1 kHz 100 µH to 1 mH 1 mH to 10 mH 10 mH to 100 mH 100 mH to 1 H	3.5% to 6.9% 6.9% to 3.7% 3.7% to 3.7% 3.7% to 8.2%	Using Standard Inductance Box by Direct Method		
8.	FREQUENCY [#]	1 Hz to 10 MHz	0.0030 % to 0.00030 %	Using Multifunct Wavetek 9000 by I	ion calibrator Direct method.	
9.	TEMPERATURE SIMULATION [#] (indicator, Controller and Recorder) RTD	-100°C to 800°C	0.30°C	Using MFC TRX(s.no:04823) By	UNMAT / Direct method.	
	THERMOCOUPLES 'J' TYPE 'T' TYPE	-180°C to 750°C -250°C to 400°C	0.62°C 2.1°C to 0.62°C			

Shally Sharma Convenor

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Rema	rks
'K' TYPE	-140°C to 1340°C	7.03°C to 0.99°C		
'R' TYPE	50°C to 1700°C	3.61°C to 2.52°C		
'S' TYPE	100°C to 1700°C	3.7°C to 2.7°C		
'Е' ТҮРЕ	0°C to 800°C	2.3°C to 0.42°C		
'N' TYPE	-200°C to 1300°C	0.77°C		
'B' TYPE	600°C to 1810°C	3.1°C		

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

^{\$}Only in Permanent Laboratory

*****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.