LaboratoryBharat Electronics Ltd. (Calibration Laboratory), Plot No. 405,
Industrial Area, Phase-III, Panchkula, HaryanaAccreditation StandardISO/IEC 17025: 2005Certificate NumberCC-2902Page1 of 3

Validity 03.12.2018 to 02.12.2020 Last Amended on -

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks	
	ELECTRO-TECHNICAL CALIBRATION				
l.	SOURCE				
1.	RF Power ^{\$} at 50 Ω	6 MHz to 4 GHz 14dBm to (-) 60dBm 25.11mW to 1nW	7.2 % to 16 %	Using RF Reference Source by Direct Method	
2.	RF Frequency ^s	1 MHz to 4 GHz	0.000005 %	Using RF Reference Source by Direct Method	
3.	Modulation ^{\$}				
	AM Modulation	CW:10 MHz to 1 GHz Modulation Rate: 1 kHz to 20 kHz Modulation Depth: 10 % to 90 %	5.0 %	Using RF Reference Source by Direct Method	
	FM Modulation	CW : 125 MHz to 1 GHz Modulation : 400 Hz to 100 KHz FM Deviation : 1 kHz to 100 kHz	4.0 %		
4.	Oscilloscope ^{\$} Pulse Amplitude	Sine Wave 1 kHz to		Using Scope Calibrator by Direct Method	
		45 kHz 2 V to 5 V p-p	0.22 %		
		Square Wave 1 kHz 6 mV to 50 V	0.3 %		

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	Bandwidth	50 kHz to 500 MHz	5.6 %	
	Time Marker	10 ns to 10 ms	0.0083 %	
5.	Inductance ^{\$}	1 kHz 100 μH, 1 mH, 10 mH	0.3 %	Using Standard Inductors by Direct Method
6.	Capacitance ^{\$}	1 kHz 0.01 μF,0.1 μF & 1μF	0.3 %	Using Standard Capacitors by Direct Method
7.	DC Voltage ^{\$}	1 mV to 1000 V	0.7 % to 0.01 %	Using Meter Calibrator
8.	AC Voltage [®]	50 Hz to 1 kHz 10 mV to 1000 V	0.4 % to 0.1 %	Using Meter Calibrator
		1 kHz to 100 kHz 10 mV to 10 V	2 % to 0.5 %	
9.	DC Current ^{\$}	100 µA to 10 A	0.58% to 0.11%	Using Meter Calibrator by Direct Method
10.	AC Current ^{\$}	50 Hz to 1 kHz 100 μA to 10 A	0.7% to 0.2%	Using Meter Calibrator by Direct Method
		1 kHz to 5 kHz 100 μA to 1 A	2 % to 1 %	
11.	Resistance ^{\$}	1 Ω to 100 MΩ	1.2% to 0.6%	Using Meter Calibrator by Direct Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II .	MEASURE			
1.	DC Voltage ^s	1 mV to 100 mV 100 mV to 1000 V	0.09 % to 0.001 % 0.001 %	Using Reference Multimeter by Direct Method
2.	DC Current ^{\$}	100 μA to 10 A	0.013 % to 0.19 %	Using Reference Multimeter by Direct Method
3.	AC Voltage ^{\$}	50 Hz to 1 kHz 10 mV to 1000 V 100 kHz 10 mV to 10 V	0.09 % to 0.077 % 0.4 % to 0.1 %	Using Reference Multimeter by Direct Method
4.	AC Current ^{\$}	50 Hz to 1 kHz 100 μA to 1 mA 1 mA to 10 A 5 kHz 100 μA to 1 A	0.09 % to 0.12 % 0.12 % 0.15 % to 0.17 %	Using Reference Multimeter by Direct Method
5.	Resistance ^{\$}	1 Ω to 100 MΩ	0.06 % to 0.17 %	Using Reference Multimeter by Direct Method

* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% ^{\$}Only in Permanent Laboratory