

Laboratory Calibration Centre- United Helicharters Pvt. Ltd., Hanger No. C-2,
Juhu Airport, Vile Parle (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2313

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Validity 22.06.2018 o 21.06.2020

Last Amended on 25.07.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage ^{\$}	1 mV to 100 mV 100 mV to 1 V 1V to 1000 V	5.44% to 0.12 % 0.12 % to 0.26 % 0.26 % to 0.16 %	Using 5 ½ Zeal Multi Function Calibrator by Direct Method
2.	AC Voltage ^{\$}	1kHz 100 mV to 700 V 50Hz 1V to 700 V	0.61% to 0.25% 0.61% to 0.25%	Using 5 ½ Zeal Multi Function Calibrator by Direct Method
3.	DC Current ^{\$}	1mA to 10 A	0.34% to 0.26%	Using 5 ½ Zeal Multi Function Calibrator by Direct Method
4.	AC Current ^{\$}	1kHz 1mA to10 mA 10 mA to10 A 50 kHz 10 mA to10 A	0.22% to 0.77% 0.77% to 0.6% 1.84% to 0.6%	Using 5 ½ Zeal Multi Function Calibrator by Direct Method
5.	Resistance ^{\$}	1 Ω to 10 M Ω	0.92% to 0.11%	Using TIPL Decade Resistance Box by Direct Method
6.	Frequency ^{\$}	50 Hz to 900 Hz	1.42% to 0.27%	Using 5 ½ Zeal Multi Function Calibrator by Direct Method

Vishal Shukla
Convenor

Avijit Das
Program Manager

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II.	MEASURE			
1.	DC Voltage ^{\$}	1 mV to 100 mV 100 mV to 1000 V	0.42% to 0.01% 0.01% to 0.0064 %	Using 6 ½ DMM Pico Test M300 A by Direct Method
2.	AC Voltage ^{\$}	50 Hz to 1kHz 10 mV to 10 V 10 V to 700 V	0.78% to 2.67% 2.67% to 0.12%	Using 6 ½ DMM Pico Test M300 A by Direct Method
3.	DC Current ^{\$}	1 mA to 100 mA 100 mA to 1A 1 A to 3 A	2.38% to 0.07% 0.07% to 0.13% 0.13% to 0.60%	Using 6 ½ DMM Pico Test M300 A by Direct Method
4.	AC Current ^{\$}	1 kHz 100 mA to 1 A 1 A to 3 A	0.58% to 0.27% 0.27% to 1.33%	Using 6 ½ DMM Pico Test M300 A by Direct Method
5.	Resistance ^{\$}	10 Ω to 100 K Ω 100 K to 10 M Ω	0.6% to 0.08% 0.08% to 0.25%	Using 6 ½ DMM Pico Test M300 A by Direct Method
6.	Frequency ^{\$}	50Hz to 750Hz	0.13% to 0.24%	Using 6 ½ DMM Pico Test M300 A by Direct Method
7.	Time Interval ^{\$}	60 s to 3600 s	1.05 to 2.93 Sec	Using Beltronics Digital Time Totalizer by Comparison Method

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Vernier Caliper ^{\$} (Dial/Digital/Vernier) Resolution: 0.01 mm	0 to 450 mm	17 μ m	Using Caliper Checker by Comparison Method as per IS3651
2.	Micrometer ^{\$} L.C.: 0.001 mm	0 to 25 mm 25 to 150 mm	1.4 μ m 3.2 μ m	Using Gauge Block by Comparison Method as per IS2967
3.	Height Gauge ^{\$} (Dial /Digital/ Vernier) L.C.: 0.020 mm	0 to 600 mm	39 μ m	Using Caliper checker / Surface Plate by Comparison Method as per IS3651
II.	PRESSURE INDICATING DEVICES			
1.	Pressure-Hydraulic [#] (Dial, Digital Pressure Gauges/ Indicators,	0 to 700 bar	0.73 bar	Using Digital Pressure Master By comparison Method as per DKD R-6-1

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III.	WEIGHING SCALE AND BALANCE			
1.	Mass - Weighing Balance* Class III Readability 1g	0 to 2000 g	1 g	Using F1 Accuracy Class Standard Weights as per OIML R-76-1
	Readability 10g	0 to 150 kg	100 g	Using F1 & M1 Accuracy Class Standard Weights as per OIML R-76-1
IV.	TORQUE GENERATING DEVICES			
1.	Torque Wrench \$ Type II	10 Nm to 50 Nm 50 Nm to 1000 Nm	1.34 % 1.22 % rdg	Using Torque Wrench Tester by Comparison Method as per ISO 6789

* Measurement Capability is expressed as an uncertainty ($\pm$) 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.

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