Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti V	ihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	1 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended or	n 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		ELECTRO TECHNI	CAL CALIBRATION	
Ι.	SOURCE			
1.	Temperature Simulation (Temp. Indicator/ Temp Thermocouple Indicator RTD (PT-100) R Type Thermocouple S Type Thermocouple J Type Thermocouple T Type Thermocouple N Type Thermocouple B Type Thermocouple E Type Thermocouple	# . Controller/ PID/ Temp.) (-) 200 °C to 600 °C 200 °C to 1700 °C 200 °C to 1700 °C 50 °C to 1300 °C 50 °C to 750 °C (-) 150 °C to 400 °C (-) 260 °C to 1300 °C 0 °C to 1200 °C (-) 260 °C to 1000 °C	Recorder & 1 °C 1.6 °C 1.6 °C 1 °C	Using Multifunction Calibrator by Direct Method
2.	Inductance [#]	100 µH to 1 H	1.5 % to 2.5 %	Using Decade Inductance Box By Direct Method
3.	DC Current [#]	10 A to 900 A	1 % to 0.2 %	Using Multifunction Calibrator with Current Coil (1*100) By Direct Method
4.	AC Current [#]	50 Hz 10 A to 900 A	0.99 % to 0.26 %	Using Multifunction Calibrator with Current Coil (1*100) By Direct Method

Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti N	/ihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	2 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended o	n 11.09.2018

SI.	Quantity Measured /	Range/Frequency	*Calibration Measurement Capability (+)	Remarks
	instrument			
5.	Resistance [#] (Discrete Value)	1 Ω to 1 kΩ 1 kΩ to 1 MΩ 2 MΩ 20 MΩ 100 MΩ 200 MΩ	1 % to 1.5 % 1.50 % 1.50 % 1.50 % 1.50 %	Using Standard Resistance Box, Decade Resistance Box & Megohm Box By Direct Method
6.	Capacitance [#]	1 kHz 1 nF to 3 μF	1.5 % to 2.5 %	Using Decade Capacitance Box By Direct Method
II.	MEASURE			
1.	DC Voltage [#]	1 mV to 100 mV 100 mV to 1000 V	1.1 % to 0.084 % 0.084 % to 0.071 %	Using 6.5 Dig. Multimeter 8846A By Direct/Comparison Method
2.	AC Voltage [#]	50 Hz 10 mV to 750 V	0.18%	Using 6.5 Dig. Multimeter 8846A By Direct/Comparison Method
3.	DC Current [#]	1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.2 % to 0.1 % 0.1 % to 0.08 % 0.08 % to 0.1 % 0.1 % to 0.22 %	Using 6.5 Dig. Multimeter 8846A By Direct/Comparison Method
4.	AC Current [#]	50 Hz 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.2 % to 0.1 % 0.1 % to 0.08 % 0.1 % to 0.22 %	Using 6.5 Dig. Multimeter By Direct/Comparison Method
5.	Stop Watch [#]	5 sec to 3600 sec	4 % to 0.084 %	Using Stop Watch By Comparison Method

Laboratory	Adna Technology Services, Plo Uttarakhand	t No68, Shakti N	/ihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	3 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended o	n 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Frequency [#]	10Hz to 1000kHz	0.58%	Using 6.5 Dig. Multimeter 8846A / 4.5 Dig. Multimeter 87V By Direct/Comparison Method
7.	Resistance [#]	1Ω to 100Ω 100Ω to 1kΩ 1kΩ to 10kΩ 10kΩ to 100kΩ 100kΩ to 1MΩ 1MΩ to 2MΩ 2 MΩ, 20 MΩ, 100 MΩ, 200MΩ	0.05% to 0.06% 0.06% 0.06%	Using 6.5 Dig. Multimeter 8846A / 4.5 Dig. Multimeter 87V By Direct/Comparison Method
8.	Capacitance [#]	1 kHz 1nF to 10μF	5.6 %	Using LCR-Q Meter 4910A By Direct/ Comparison Method
9.	Time [#]	1 sec to 9990 sec	10 % to 5.6 %	Using Time Calibrator By Direct/Comparison Method
10.	Inductance [#]	100 μH to 1H	1.5 % to 4.2 %	Using LCR-Q Meter 4910A By Direct/ Comparison Method

Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti Vi	har, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	4 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended on	11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks				
	MECHANICAL CALIBRATION							
1.	DIMENSION (BASIC M	EASURING INSTRUME	NT, GAUGE ETC.)					
1.	Lever Type Dial Gauge ^{\$} L.C. 0.001mm	Upto 1mm	0.80µm	Using Universal Length Measuring Machine (ULM) by Comparison Method as per IS 11498				
2.	Plunger Type Dial Gauge ^{\$} L.C. 0.001mm	0 to 25mm	0.84µm	Using Universal Length Measuring Machine (ULM) by Comparison Method as per IS 2092				
3.	Dial Bore Gauge ^{\$} L.C. 0.001mm	Travel Length 2mm	0.80µm	Using Universal Length Measuring Machine (ULM) by Comparison Method				
4.	Measuring Pin ^{\$}	0.1mm to 20mm	0.70µm	Using Universal Length Measuring Machine (ULM) by Comparison Method as per IS 11103				
5.	Three Wire Set ^{\$}	0.17mm to 6.35mm	0.70µm	Using Universal Length Measuring Machine (ULM) by Comparison Method as per IS 6311				

Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti V	'ihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	5 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended or	n 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Pistol Caliper ^{\$} L.C. 0.1 mm	0 to 100mm	53.0µm	Using Slip Gauge Set '0' Garde By Comparison Method
7.	Setting Rod/ Length Bar ^{\$}	25mm to 325 mm	3.80µm	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method as per IS-7014
8.	Air Plug Gauge ^s	3 mm to 100 mm	3.0 μm	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method as per IS-3455, IS-6137, IS- 6244, IS-6246
9.	Plain Plug Gauge/ Cylindrical Setting Master ^{\$}	2 mm to 300 mm	3.0 μm	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method as per IS-3455, IS-6137, IS- 6244, IS-6246
10.	Width Gauge ^{\$}	10 mm to 100 mm	1.0 µm	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method

Laboratory	Adna Technology Services, Plo Uttarakhand	t No68, Shakti Y	Vihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	6 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended o	on 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	Taper Plain Plug Gauge ^{\$}	5 mm to 100 mm Up to 7 ⁰	5.0 μm 6.9 min of arc	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method as per IS-9529
12.	Thread Plug Gauge ^{\$}	2mm to 150mm	4.0 μm	Using Universal Length Measuring Machine (ULM) with three Measuring Wire and Reference Standard by Comparison Method as per IS-2334, IS-2643, IS- 4218, IS-6311
13.	Plain Ring Gauge/ Air Ring Gauge ^{\$}	3 mm to 300 mm	5.0 μm	Using Universal Length Measuring Machine (ULM) with Reference Standard by Comparison Method as per IS-3455
14.	Thread Ring Gauge [®]	3 mm to 100 mm	3.50 μm	Using Universal Length Measuring Machine (ULM) with T Stylus and Reference Standard by Comparison Method as per IS-2334
15.	Air Gauge Unit [#]	+0.022 to -0.022 mm	2.90 µm	Using Standard Ring & Plug 20mm Dia. By Comparison Method

Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti V	/ihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	7 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended or	n 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
16.	Caliper [≴] (Vernier / Dial / Digital) L.C. 0.01mm	0 to 600 mm	12 µm	Using Caliper Checker By Comparison Method as per IS 3651
17.	External Micrometer/Point Micrometer/Ball Micrometer ^{\$} L.C. 0.001 mm	0 to 25 mm 0 to 150 mm	1.57 µm	Using Slip Gauge Set By Comparison Method as per IS 2967
18.	Height Gauge ^{\$} L.C. 0.01 mm	0 to 600 mm	11.5 μm	Using Caliper Checker & Surface Plate By Comparison Method as per IS 2921
19.	Snap Gauge [®]	3 mm to 150 mm	3.0 μm	Using Slip Gauge Set By Comparison Method as per IS 8023, IS 3455
20.	Feeler Gauge [∛]	Upto 2 mm	2.0 μm	Using Digital Micrometer By Comparison Method as per IS 3179
21.	Dial Thickness Gauge ^{\$} L.C. 0.001 mm	0 to 25 mm	6.0 µm	Using Slip Gauge Set By Comparison Method
22.	Depth Vernier Caliper [®] L.C. 0.01 mm	0 to 300 mm	9.0 µm	Using Slip Gauge Set & Caliper Checker By Comparison Method as per IS 4213

Laboratory	Adna Technology Services, P Uttarakhand	Plot No68	, Shakti	Vihar,	Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005				
Certificate Number	CC-2560 (In lieu of C-1296, C-1297) Page		8 o	f 10

Validity 17.11.2017 to 16.11.2020 Last Amended on 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
23.	Depth Micrometer ^{\$} L.C. 0.001mm	0 to 300 mm	5.85 µm	Using Slip Gauge Set By Comparison Method
24.	Bevel Angle Protractor/ Combination Set ^{\$} L.C. 5min./1min.	0 ⁰ -90 ⁰ -0 ⁰	3.1min	Using Angle Gauge Set By Comparison Method as per IS 4239, IS 5812
25.	Coating Thickness Gauge [®] L.C. 0.1 µm & 1 µm	10 μm to 1000 μm	3.2 µm	Using Standard Foil By Comparison Method
26.	V Block [®] Flatness, Parallelism, Symmetricity	Upto 150 mm	4.0 μm 4.0 μm 4.0 μm	Using Dial Gauge & Cylindrical Mandrel, Slip Gauge Set By Comparison Method as per IS 2949
27.	Standard Foils ^{\$}	Upto 2 mm	2.0 µm	Using Digital Micrometer By Comparison Method
28.	Comparator Stand [®] (Base Flatness Only)	150*150 mm	3.6 µm	Using Dial Gauge & Surface Plate & Precision Level Screw By Comparison Method as per IS 7599, IS 7591
29.	Surface Plate [#] Step Length-125	3000*2000 mm	3.0 Sqrt. of (L+W)/125 L, W in mm	Using Sprit Level By Comparison Method as per IS 2285, IS 7327

Laboratory	Adna Technology Services, Plo Uttarakhand	t No68, Shakti N	Vihar, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	9 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended o	n 11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
30.	Internal Micrometer ^{\$} L.C. 0.001 mm	0 to 150 mm	2.0 µm	Using Gauge Block & Gauge Block Accessories By Comparison Method as per IS 2966
11.	DIMENSION (PRECISIC	ON INSTRUMENTS)		
1.	Universal Length Measuring Machine ^{\$} L.C. 0.0001 mm	0 to 100 mm	1.80 µm	Using Slip Gauge Set '0' Grade By Comparison Method
III.	PRESSURE INDICATIN	G DEVICES		
1.	Pressure-Hydraulic [#] (Digital /Analogue Pressure Gauge)	0 to 700 bar	1.05 bar	Using Digital Pressure Gauge & Hydraulic Pump based on DKD-R 6-1
2.	Pressure-Pneumatic [#] (Digital /Analogue Pressure Gauge)	0 to 30 bar	0.044 bar	Using Digital Pressure Gauge & Pneumatic Pump based on DKD-R 6-1
3.	Pressure-Pneumatic [#] (Digital /Analogue Low Pressure Gauge/Manometer/Ma gnehelic Gauge)	10 mmH₂O to 200 mmH₂O (100 Pa to 2000 Pa)	0.62 mmH ₂ O (6.2 Pa)	Using Digital Pressure Calibrator based on DKD-R 6-1

Laboratory	Adna Technology Services, Plot Uttarakhand	No68, Shakti Vi	har, Rudrapur,
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	CC-2560 (In lieu of C-1296, C-1297)	Page	10 of 10
Validity	17.11.2017 to 16.11.2020	Last Amended on	11.09.2018

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
4.	Pressure-Pneumatic [#] (Digital /Analogue Vacuum Gauge)	0 to (-) 0.85 bar	0.04 bar	Using Digital Vacuum Gauge & Vacuum Pump based on DKD-R 6-2

* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%
* Only in Permanent Laboratory
* The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.