

CERTIFICATE OF ACCREDITATION

ACCURATE CALIBRATION & TESTING CENTER

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number:

CC-2188

Issue Date:

20/10/2022

Valid Until:

19/10/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : ACCURATE CALIBRATION & TESTING CENTER

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer





Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	1 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)	
	Permanent Facility					
1	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mA to 10 A	0.25 % to 0.32 %	
2	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 µA to 1 mA	0.30 % to 0.25 %	
3	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	30 μA to 100 μA	0.88 % to 0.3 %	
4	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mV to 100 mV	4.74 % to 0.12 %	





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	2 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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5	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.1 %
6	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using 6½ Precision Digital Multimeter by Direct Method	1 nF to 10 μF	0.80 % to 0.35 %
7	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	10 A to 20 A	0.25 % to 0.32 %
8	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	100 µA to 2 mA	0.35 % to 0.15 %
9	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	2 A to 10 A	0.15 % to 0.25 %





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	3 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	2 mA to 2 A	0.15 % to 0.15 %
11	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Universal Calibrator with 50 turn Current Coil By Direct Method	20 A to 1000 A	0.8 % to 0.8 %
12	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.70 % to 0.24 %
13	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.15 % to 0.11 %
14	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	200 mV to 10 V	0.24 % to 0.15 %
15	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box By Direct method	1 nF to 10 μF	1.16 % to 1.16 %





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	4 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
16	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using Decade Inductance Box By Direct method	0.1 mH to 1 H	0.65 % to 0.58 %
17	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 A to 10 A	0.08 % to 0.19 %
18	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 mA to 1 A	0.08 % to 0.08 %
19	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	10 μA to 1 mA	0.36 % to 0.08 %
20	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %
21	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.01 %





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	5 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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22	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	1 MOhm to 10 MOhm	0.03 % to 0.06 %
23	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	10 MOhm to 100 MOhm	0.06 % to 0.94 %
24	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.02 %
25	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	100 MOhm to 1000 MOhm	0.94 % to 2.4 %
26	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	100 Ohm to 1 MOhm	0.02 % to 0.03 %
27	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Precision Multimeter By Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	6 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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28	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	10 µA to 2 mA	0.3 % to 0.08 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 A to 20 A	0.09 % to 0.13 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 mA to 20 mA	0.08 % to 0.14 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 2 A	0.14 % to 0.09 %
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC High Current	Using Universal Calibrator with 50 turn Current Coil By Direct Method	20 A to 1000 A	0.8 % to 0.8 %
33	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.93 % to 0.07 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	7 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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34	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	200 mV to 1000 V	0.06 % to 0.06 %
35	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	High Resistance (discrete resistances)	Using High Resistance Standard (discrete resistances) by direct method	1 MOhm to 10 GOhm	1.18%
36	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	0.1 Ohm to 10 Ohm	0.03 % to 0.03 %
37	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	10 MOhm to 100 MOhm	0.12 % to 1.88 %
38	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	10 Ohm to 10 MOhm	0.12 % to 0.12 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	8 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

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39	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (Fix values with multiplayer 1k ohm) as (10ohm,24ohm, 50ohm, 100ohm, 240ohm, 500ohm, 1k ohm, 2.4 k ohm, 5k ohm, 10k ohm, 24 k ohm)	Using Universal Calibrator By Direct Method	10 Ohm to 24 MOhm	0.48 % to 0.24 %
40	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input RTD (PT-100)	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale Ohms to °C	(-) 200 °C to 800 °C	0.15°C
41	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input B- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	600 °C to 1800 °C	0.15°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	9 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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42	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input E- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1000 °C	0.15°C
43	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input J- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1200 °C	0.15°C
44	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input K- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1370 °C	0.15°C





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Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	10 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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45	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input N- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1300 °C	0.15°C
46	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input R- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	0 °C to 1750 °C	0.15°C
47	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input S- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	0 °C to 1750 °C	0.15°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	11 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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48	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input T- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 400 °C	0.15°C
49	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input RTD (PT-100)	Using Universal Calibrator By Direct Method	(-) 200 °C to 850 °C	0.3°C
50	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input B- Type Thermocouple	Using Universal Calibrator Masibus By Direct Method	600 °C to 1800 °C	0.6°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	12 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
51	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input E- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.4°C
52	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input J- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1200 °C	0.4°C
53	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input K- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1370 °C	0.4°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	13 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

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54	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input N- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.4°C
55	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input R- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6°C
56	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input S- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	14 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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57	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input T- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 400 °C	0.3°C
58	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using 6½ Precision Multimeter By Direct Method	10 Hz to 1 MHz	0.11 % to 0.012 %
59	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Time Interval (Timer / Stop Watch)	Using Digital Time Interval Meter By Comparison Method	2 s to 3600 s	0.15 s to 0.30 s
60	ELECTRO- TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator By Direct Method	1 Hz to 10 kHz	0.55 % to 0.03 %
61	MECHANICAL- ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Level Calibrator by Direct Method	94 and 114 dB	0.6dB





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JA GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	15 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

Page No	15 of 61	
Last Amended on	17/11/20	

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
62	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge Block	Using Gauge Blocks Grade-0, Sine Bar & Electronic Comparator by Comparison Method	0 ° to 90 °	4.4sec of arc
63	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L. C. 5' & Coarse (All 4 quadrants)	Using Angle Gauge Blocks by Direct Method	0 ° to 90 °	4min of arc
64	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (For Transmission Accuracy Check only)	Using Dial Calibration Tester by Direct Method	0 to 1 mm	3.0µm
65	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier, Dial, Electronic) L.C. 0.01 mm & coarser	Using Caliper Checker & Length Bars by Direct Method	0 to 1000 mm	15.0 µm
66	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier, Dial, Electronic) L.C. 0.01 mm & Coarser	Using Caliper Checker by comparision method	0 to 600 mm	13µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	16 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
67	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter	Using Master Foils by Direct Method	0 to 2 mm	4.5µm
68	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Electronic Comparator by Direct Method	200 X 200 mm to 300 X 300 mm	4.5µm
69	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Electronic Comparator by Direct Method	40 X 40 mm to 200 X 200 mm	1.2µm
70	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of work table)	Using Optical Flat by Direct Method	Diameter: 30 mm to 100 mm	0.3 µm
71	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand / Comparator Dial / Electronic Probe With DRO L.C. 0.00001 mm	Using Gauge Block Set by Direct Method	0 to 20 μm	0.12µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	17 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
72	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with Stand/ Comparator Dial/ Electronic Probe With DRO L.C. 0.0001 mm & Coarser	Using Gauge Blocks Set by Direct Method	0 mm to 25 mm	0.4µm
73	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Squares / Granite L-Square (Squareness measurement)	Using Master Granite L-Square and 2D Electronic Height Gauge by Comparison Method	100 mm to 600 mm	3.5µm
74	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor L.C.: 1 °	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	43arc min
75	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Dial, Digital, Vernier) L.C. 0.01 mm & Coarser	Using Gauge Blocks Set, Holding Fixture and Surface Plate by Direct Method	0 to 300 mm	10.0µm
76	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.001 mm & Coarser	Using Gauge Blocks Set, Holding Fixture and Surface Plate by Direct Method	0 to 300 mm	7.0µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	18 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
77	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Lever Type L.C. 0.001 mm & coarser	Using Dial Calibration Tester by Direct Method	0 to 2 mm	1.1µm
78	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type L.C. 0.001 mm	Using Dial Calibration Tester by Direct Method	0 to 2 mm	1.0µm
79	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type L.C. 0.001mm	Using Universal Length Measuring Machine by Direct Method	0 to 50 mm	2.0µm
80	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type L.C. 0.002 mm	Using Dial Calibration Tester by Direct Method	0 to 5 mm	2.0µm
81	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge – Plunger Type L.C. 0.010 mm	Using Dial Calibration Tester by Direct Method	0 to 25 mm	3.0µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	19 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
82	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge - Flatness	Using Gauge Blocks Set & Optical Flat by Direct Method	0 to 200 mm	0.3µm
83	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge – Instrumental Error & Parallelism	Using Gauge Blocks Set & Optical Flat by Direct Method	0 to 200 mm	3.0µm
84	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square – Squareness and Parallelism of edges of blade	Using Comparator & 2D Electronic Height Gauge by Comparison Method	50 mm to 600 mm	8.6µm
85	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001 mm & Coarser	Using Gauge Blocks Set & Length Bars by Direct Method	0 to 150 mm	1.6µm
86	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001 mm & Coarser	Using Gauge Blocks Set & Length Bars by Direct Method	150 mm to 300 mm	5.0µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	20 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
87	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001 mm & Coarser	Using Gauge Blocks Set & Length Bars by Direct Method	300 mm to 600 mm	8.0µm
88	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. 0.001 mm & Coarser	Using Gauge Blocks Set & Length Bars by Direct Method	600 mm to 1000 mm	11.0µm
89	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge / Shims (Foils) of Coating Thickness Gauge	Using Electronic Comparator with Stand by Direct Method	0 to 2 mm	1.5µm
90	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier, Dial, Electronic) L.C. 0.01 mm & Coarse	Using Caliper Checker & Length Bars, Granite surface plate by comparision Method	0 to 1000 mm	15.0µm
91	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier, Dial, Electronic) L.C. 0.01 mm & Coarse	Using Caliper Checker & Length Bars by Direct Method	0 to 600 mm	13.0µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	21 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
92	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper-2 Points L.C. 0.001 mm & Coarse	Using Slip Gauge Set Accessories & Caliper Checker by Direct Method	2.5 mm to 150 mm	7.6µm
93	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer-2 Points (Traverse of Micrometer Head upto 25 mm, With interchangeable setting rod not more than 400 mm) L.C. 0.001mm & coarse	Using Slip Gauge Set Accessories & Caliper Checker by Direct Method	50 mm to 2100 mm	8.9µm
94	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Electronic Probe with DRO L.C. 0.0001 mm & Coarser	Using Dial Calibration Tester by Direct Method	0 to 2 mm	1.0µm
95	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins / Thread Measuring Wires / Three Wire Unit	Using Electronic Comparator with Stand by Comparison Method	0.17 mm to 20 mm	0.3µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	22 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
96	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale	Using Scale & Tape Calibrator by Direct Method	0 to 1000 mm	144µm
97	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	Using Scale & Tape Calibrator by Direct Method	0 to 1 M	144µm
98	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape with step of 1 M	Using Scale & Tape Calibrator by Direct Method	1 M to 50 M	144 x Sqrt(L/1000) μm; where L in mm
99	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C. 0.001 mm & coarser	Using Electronic Comparator by Direct Method	0 to 25 mm	0.8µm
100	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C. 0.1 mm & coarser	Using Gauge Blocks Set by Direct Method	0 to 65 mm	66.0µm





SCOPE OF ACCREDITATION

Laboratory Name :	GANESH VISION, AK
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2188
Validity	20/10/2022 to 19/10

ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI ON, AKURDI, PUNE, MAHARASHTRA, INDIA

o 19/10/2024

Page No	23 of 61
Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
101	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	0.5 mm to 50 mm	0.7µm
102	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	100 mm to 200 mm	2.0µm
103	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	200 mm to 300 mm	3.0µm
104	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug / Setting Master / Width / Thickness Gauges	Using Gauge Blocks Set & Electronic Comparator with Stand by Comparison Method	50 mm to 100 mm	1.0µm
105	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine and master setting ring by Comparison Method	2.5 mm to 50 mm	1.0µm





Laboratory Name : ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 19 GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			, 1ST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	24 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
106	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using Universal Length Measuring Machine by Comparison Method	50 mm to 150 mm	2.0µm
107	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Blocks Set by Direct Method	2 mm to 300 mm	3.0µm
108	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge Set	Using Vision Measuring Machine by Direct Method	0.4 mm to 25 mm	6.4µm
109	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibration Machine L.C.: 0.001 mm & Coarser	Using Gauge Blocks & Length Bars by Comparision Method	0 to 1000 mm	10µm
110	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar / Sine Center (Angular)	Using Gauge Blocks Grade-0, Angle Gauge Block & electronic comparator by Comparison Method	Center Distance: 100 mm to Center Distance: 300 mm	6sec of arc





SCOPE OF ACCREDITATION

Laboratory Name :	ACCURATE CALIBRATION & TESTING GANESH VISION, AKURDI, PUNE, MA	G CENTER, 168, B-WING HARASHTRA, INDIA	, 1ST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	25 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

25 of 61 17/11/2022 ended on

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
111	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar / Sine Center (Center Distance & Parallelism)	Using 2D Electronic Height Gauge, Gauge Blocks Grade-0, electronic comparator by Direct Method	Center Distance: 100 mm to Center Distance 300 mm	3.0µm
112	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level by Direct Method	250 x 250 mm to 4000 x 4000 mm	1 x sqrt ((L+W)/120) μm; Where L & W in mm
113	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale / Taper Bore Gauge	Using Vision Measuring Machine by Direct Method	0 to 60 mm	5.6µm
114	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Universal Length Measuring Machine, Thread Measuring Wires by Comparison Method	100 mm to 200 mm	2.5µm
115	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Using FCDM, Cylindrical Setting Masters & Thread Measuring Wires by Comparison Method	3 mm to 100 mm	4.0µm





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	26 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
116	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter Only)	Using Universal Length Measuring Machine by Comparison Method	3 mm to 110 mm	2.3µm
117	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Direct Method	3 mm to 125 mm	37.5µm
118	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vision measuring Machine by Direct Method	32 µm to 3 mm	5.6µm
119	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial & Electronic) L.C. 0.001mm & coarser	Using Gauge Blocks Set by Direct Method	0 to 10 mm	1μm
120	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge a) Flank Angle	Using Vision Measuring Machine by Direct Method	55 ° to 60 °	13sec of arc





Laboratory Name : ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			, 1ST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	27 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
121	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge b) Pitch	Using Vision Measuring Machine by Direct Method	0.3 mm to 8.0 mm	5.6µm
122	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter & Major Diameter)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wires by Comparison Method	1 mm to 100 mm	3.6µm
123	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter & Major Diameter)	Using Universal Length Measuring Machine & Thread Measuring Wires by Comparison Method	100 mm to 200 mm	2.5µm
124	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter only)	Using Universal Length Measuring Machine & T-Stylus by Comparison Method	100 mm to 150 mm	2.8µm
125	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter only)	Using Universal Length Measuring Machine & T-Stylus by Comparison Method	3 mm to 100 mm	2.2µm





Laboratory Name : ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1 GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			, 1ST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	28 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
126	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Step Master & Steel Length Bars by Direct Method	0 mm to 200 mm	60.0µm
127	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block a) Parallelism & b) symmetricity	Using Master Cylinder, Comparator & 2D Electronic Height Gauge by Comparison Method	25 mm to 150 mm	6.8µm
128	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block c) Squareness	Using 2D Electronic Height Gauge by Comparison Method	25 mm to 150 mm	8.3µm
129	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	2D ELECTRONIC HEIGHT GAUGE L.C.: 0.0001mm & Coarser - Linear accuracy - Squareness (upto 600 mm)	Using Length Bars & Surface Plate by Direct Method	0 to 1000 mm	(2.5+ L/1000) μm; where L in mm
130	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule (Scale)	Using Vision Measuring Machine by Direct Method	0 ° to 360 °	12.6 sec of arc





SCOPE OF ACCREDITATION

Laboratory Name :	GANESH VISION, AK
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2188
Validity	20/10/2022 to 19/10

ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI ON, AKURDI, PUNE, MAHARASHTRA, INDIA

o 19/10/2024

Page No	29 of 61
Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
131	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge/ Internal Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 to 1070 mm	6µm
132	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Step Gauge/ Internal Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 mm to 670 mm	4.6µm
133	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Concentricity Measurement	Using Electronic Comparator & FCDM by Comparison Method	Diameter: 1 mm to 200 mm	1.1µm
134	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Diameter Measurement	Using Gauge Blocks Set & Electronic Comparator by Comparison Method	Diameter > 100 mm to 200 mm	1.5µm
135	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Cylindrical Setting Master – Diameter Measurement	Using Gauge Blocks Set & Electronic Comparator by Comparison Method	Diameter: 1 mm to 100 mm	1.0µm
136	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Depth Micro Checker	Using 2D Electronic Height Gauge, Length Bars, Gauge Blocks by Comparison Method	0 to 300 mm	3.5µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	30 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
137	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C. 0.0001 mm & Coarser	Using Electronic Comparator by Direct Method	0 to 25 mm	0.75 μm
138	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Electronic Level L.C. 0.001mm/m & coarse Spirit Level / Frame Level L.C. 0.01mm/m & coarse	Using Electronic Comparator and Tilting Table by Comparison Method	0 to 2 mm/m	2.4 μm/m
139	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine L.C. 0.0001 mm & coarser	Using Cylindrical Setting Masters, Electronic Comparator, Optical Flat, Measuring Pin, Gauge Blocks by Direct Method	0 to 200 mm	1.6µm
140	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>25 mm to 50 mm	0.1µm
141	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>50 mm to 75 mm	0.12µm





Laboratory Name	ACCURATE CALIBRATIO	DN & TESTING CENTER, 168, B-V DI, PUNE, MAHARASHTRA, INDIA	VING, 1ST FLOOR, JAI A
Accreditation Sta	andard ISO/IEC 17025:2017		
Certificate Numb	er CC-2188	Page No	31 of 61
Validity	20/10/2022 to 19/10/2	024 Last Amended	on 17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
142	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	>75 mm to 100 mm	0.13µm
143	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Central Length Deviation	Using Gauge Block Comparator & Reference ''K'' Grade Gauge Block Set by Comparison Method	0.5 mm to 25 mm	0.07µm
144	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block - Parameters "fo, fu and fs or v"	Using Gauge Block Comparator by Comparison Method	0.5 mm to 100 mm	(0.04 + L/3000) µm; where L in mm
145	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C. 0.001 µm & coarser	Using Gauge Blocks "K- Grade" by Direct Method	0.5 mm to 100 mm	(0.035 + L/3000) µm; where L in mm
146	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Horizontal) L.C. :0.0001 mm & coarser	Using Gauge Blocks by Direct Method	0 to 100 mm	0.8µm
147	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Horizontal) L.C. :0.0001 mm & coarser	Using Gauge Blocks by Direct Method	100 mm to 300 mm	1.03µm





SCOPE OF ACCREDITATION

Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	32 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
148	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Linear Glass Scale (Graticule) / Glass Grid	Using Vision Measuring Machine (based on Edge detection) by Direct Method	0.01 mm to 200 mm	2.8µm
149	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set and Electronic Comparator with Stand by Comparison Method	>300 mm to 500 mm	1.3µm
150	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set, Length Bars & Electronic Comparator with Stand by Comparison Method	>500 mm to 700 mm	2.0µm
151	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set, Length Bars & Electronic Comparator with Stand by Comparison Method	>700 mm to 1000 mm	3.5µm
152	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Standard / Length Bar / Long Gauge Block	Using Gauge Blocks Set and Electronic Comparator with Stand by Comparison Method	25 mm to 300 mm	0.9µm

This is annexure to 'Certificate of Accreditation' and does not require any signature.





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	33 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
153	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Optical Flat - Flatness	Using Reference Optical Flat, Sodium Monochromatic Light Source by Direct Method	Diameter 10 mm to 100 mm	0.16µm
154	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel - Parallelism	Using gauge block calibrator by Direct Method	Diameter: 10 mm to Diameter 30 mm	0.1µm
155	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Tool Makers Microscope / Brinell Microscope / Vision Measuring Machine a) Linear X, Y Axis L.C.: 0.00001 mm & coarser	Using Linear Glass Scale by Direct Method	0 to 200 mm	2.7µm
156	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Vision Measuring Machine d) Magnification	Using Linear Glass Scale, Gauge Block, Digital Caliper by Direct Method	2 X to 1000 X	0.5%
157	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine b) Angular	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	5sec of arc





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	34 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
158	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine c) Angular	Using Angular Graticule by Direct Method	0 ° to 360 °	13.1sec of arc
159	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen / Master (Ra, Value)	Using Surface Roughness Tester by Direct Method	0.1 μm to 7.0 μm	6.2 %
160	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen / Master (Rz & Rmax Values)	Using Surface Roughness Tester by Direct Method	0.1 μm to 25.0 μm	6%
161	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Rz & Rmax Values)	Using Surface Roughness Specimens -3 different values by Direct Method	0.1 μm to 23.0 μm	7.2%
162	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable)	Using Surface Roughness Specimens -3 different Ra values by Direct Method	0.1 μm to 6.0 μm	7.2 %
163	MECHANICAL- DUROMETER	Shore 'A' Hardness Tester	Using Shore Hardness Tester Calibrator by Direct Method as per ASTM D 2240	0 Shore-A to 100 Shore-A	0.59Shore-A





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	35 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
164	MECHANICAL- DUROMETER	Shore 'D' Hardness Tester	Using Shore Hardness Tester Calibrator by Direct Method as per ASTM D 2240	0 Shore-D to 100 Shore-D	0.55Shore-D
165	MECHANICAL- DUROMETER	Verification of Force of Shore 'A' Hardness Tester Calibrator	As per ASTM D 2240 by Direct Method	0 Shore-A to 100 Shore-A	0.47Shore-A
166	MECHANICAL- DUROMETER	Verification of Force of Shore 'D' Hardness Tester Calibrator	As per ASTM D 2240 by Direct Method	0 Shore-D to 100 Shore-D	0.46Shore-D
167	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD R-6-1	0 bar to 70 bar	0.162bar
168	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital MultimeterBy Comparison Method as per DKD R-6-1	0 bar to 700 bar	0.6bar





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JA GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	36 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
169	MECHANICAL- PRESSURE INDICATING DEVICES	Negative Pressure (Digital and Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump, 6½ Digital Multimeter & By Comparison Method (DKD- R-6-01)	(-) 0.8 bar to 0 bar	0.015bar
170	MECHANICAL- PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD R-6-1	0 bar to 7 bar	0.032bar
171	MECHANICAL- TORQUE GENERATING DEVICES	Torque Wrenches Type–I Class A,B,C,D,E Type – II Class A,B,C,D,E,F,G	Using Digital Torque Calibrator System With Four Torque Transducers by Comparison Method based on IS 16906	0 to 1000 Nm	1.50%
172	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Calibrator / Generator / Environmental Chamber @ 25°C (Single Position Calibration)	Using RH and Temp Probe with Indicator by comparison method	20 %RH to 90 %RH	1.1%RH





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAH	CENTER, 168, B-WING, IARASHTRA, INDIA	IST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	37 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
173	THERMAL- SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 25°C	Using Temperature / Humidity Generator along- with RH & Temp Probe with Indicator by comparison method.	20 %RH to 90 %RH	1.1%RH
174	THERMAL- SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 50% RH	Using Temperature/Humidi ty Generator alongwith RH & Temp Probe with Indicator by comparison method	10 °C to 50 °C	0.5°C
175	THERMAL- TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	400 °C to 1000 °C	3.9°C
176	THERMAL- TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	50 °C to 400 °C	1.9°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	38 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
177	THERMAL- TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.36°C
178	THERMAL- TEMPERATURE	RTD / Thermocouples with and without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor, Liquid Bath by Comparison Method	(-) 30 °C to 250 °C	0.26°C
179	THERMAL- TEMPERATURE	RTD / Thermocouples with and without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Dry Block Temp Furnace By Comparison Method	250 °C to 400 °C	0.4°C
180	THERMAL- TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace (Single Position Calibration)	Using 6½ Digit Multimeter, R-Type Thermocouple by comparison method	250 °C to 1200 °C	2.6°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	39 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
181	THERMAL- TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace/ Freezer/Chamber/Inc ubator for non- medical purpose only (Single Position Calibration)	Using 6½ Digit Multimeter, 4 Wire RTD Sensor by comparison method	(-) 30 °C to 250 °C	0.3°C
182	THERMAL- TEMPERATURE	Thermocouples with & without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator	Using 6½ Digit Multimeter, R-Type Thermocouple & Dry Block Temp. Furnace By Comparison Method	250 °C to 1200 °C	2.6°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	40 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
		1.0	Site Facility	-	-
1	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mA to 10 A	0.25 % to 0.32 %
2	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 µA to 1 mA	0.30 % to 0.25 %
3	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	30 μA to 100 μA	0.88 % to 0.3 %
4	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	1 mV to 100 mV	4.74 % to 0.12 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	41 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 6½ Precision Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.1 %
6	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1kHz	Using 6½ Precision Digital Multimeter by Direct Method	1 nF to 10 μF	0.80 % to 0.35 %
7	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	10 A to 20 A	0.25 % to 0.32 %
8	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	100 µA to 2 mA	0.35 % to 0.15 %
9	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	2 A to 10 A	0.15 % to 0.25 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	42 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
10	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using Universal Calibrator By Direct Method	2 mA to 2 A	0.15 % to 0.15 %
11	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Universal Calibrator with 50 turn Current Coil By Direct Method	20 A to 1000 A	0.8 % to 0.8 %
12	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.70 % to 0.24 %
13	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	10 V to 1000 V	0.15 % to 0.11 %
14	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Universal Calibrator By Direct Method	200 mV to 10 V	0.24 % to 0.15 %
15	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1kHz	Using Decade Capacitance Box By Direct method	1 nF to 10 μF	1.16 % to 1.16 %





Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022
Certificate Number	CC-2188	Page No	43 of 61
Accreditation Standard	ISO/IEC 17025:2017		
Laboratory Name :	ACCURATE CALIBRATION & TESTING GANESH VISION, AKURDI, PUNE, MAH	CENTER, 168, B-WING, IARASHTRA, INDIA	1ST FLOOR, JAI

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
16	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1kHz	Using Decade Inductance Box By Direct method	0.1 mH to 1 H	0.65 % to 0.58 %
17	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 A to 10 A	0.08 % to 0.19 %
18	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	1 mA to 1 A	0.08 % to 0.08 %
19	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Precision Multimeter By Direct Method	10 µA to 1 mA	0.36 % to 0.08 %
20	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	1 mV to 100 mV	0.42 % to 0.01 %
21	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Precision Multimeter By Direct Method	100 mV to 1000 V	0.01 % to 0.01 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	44 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
22	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	1 MOhm to 10 MOhm	0.03 % to 0.06 %
23	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	10 MOhm to 100 MOhm	0.06 % to 0.94 %
24	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	10 Ohm to 100 Ohm	0.05 % to 0.02 %
25	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	100 MOhm to 1000 MOhm	0.94 % to 2.4 %
26	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance	Using 6½ Precision Multimeter By Direct Method	100 Ohm to 1 MOhm	0.02 % to 0.03 %
27	ELECTRO- TECHNICAL- DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Precision Multimeter By Direct Method	1 Ohm to 10 Ohm	0.36 % to 0.05 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	45 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
28	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	10 µA to 2 mA	0.3 % to 0.08 %
29	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 A to 20 A	0.09 % to 0.13 %
30	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	2 mA to 20 mA	0.08 % to 0.14 %
31	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator By Direct Method	20 mA to 2 A	0.14 % to 0.09 %
32	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC High Current	Using Universal Calibrator with 50 turn Current Coil By Direct Method	20 A to 1000 A	0.8 % to 0.8 %
33	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	1 mV to 200 mV	4.93 % to 0.07 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	46 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
34	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator By Direct Method	200 mV to 1000 V	0.06 % to 0.06 %
35	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	High Resistance (discrete resistances)	Using High Resistance Standard (discrete resistances) by direct method	1 MOhm to 10 GOhm	1.18%
36	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	0.1 Ohm to 10 Ohm	0.03 % to 0.03 %
37	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	10 MOhm to 100 MOhm	0.12 % to 1.88 %
38	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance	Using Decade Resistance Box by direct method	10 Ohm to 10 MOhm	0.12 % to 0.12 %





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAP	CENTER, 168, B-WING, IARASHTRA, INDIA	IST FLOOR, JAI
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	47 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
39	ELECTRO- TECHNICAL- DIRECT CURRENT (Source)	Resistance (Fix values with multiplayer 1k ohm) as (10ohm,24ohm, 50ohm, 100ohm, 240ohm, 500ohm, 1k ohm, 2.4 k ohm, 5k ohm, 10k ohm, 24 k ohm)	Using Universal Calibrator By Direct Method	10 Ohm to 24 MOhm	0.48 % to 0.24 %
40	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input RTD (PT-100)	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale Ohms to °C	(-) 200 °C to 800 °C	0.15°C
41	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input B- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	600 °C to 1800 °C	0.15°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	48 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
42	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input E- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1000 °C	0.15°C
43	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input J- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1200 °C	0.15°C
44	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input K- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1370 °C	0.15°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	49 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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45	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input N- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 1300 °C	0.15°C
46	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input R- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	0 °C to 1750 °C	0.15°C
47	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input S- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	0 °C to 1750 °C	0.15°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	50 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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48	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	Temperature Simulation (Multi function Calibrators, Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input T- Type Thermocouple	Using 6½ Precision Digital Multimeter by Simulation Method based on ITS-90 scale mV to °C	(-) 200 °C to 400 °C	0.15°C
49	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input RTD (PT-100)	Using Universal Calibrator By Direct Method	(-) 200 °C to 850 °C	0.3°C
50	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input B- Type Thermocouple	Using Universal Calibrator Masibus By Direct Method	600 °C to 1800 °C	0.6°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	51 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
51	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input E- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.4°C
52	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input J- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1200 °C	0.4°C
53	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input K- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1370 °C	0.4°C





Laboratory Name :	GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2188	Page No	52 of 61
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022

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54	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input N- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.4°C
55	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input R- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6°C
56	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input S- Type Thermocouple	Using Universal Calibrator By Direct Method	0 °C to 1750 °C	0.6°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	53 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

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57	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	Temperature Simulation (Temperature Indicators / Recorders, Temp. Controller, Process Calibrator) Input T- Type Thermocouple	Using Universal Calibrator By Direct Method	(-) 200 °C to 400 °C	0.3°C
58	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Frequency	Using 6½ Precision Multimeter By Direct Method	10 Hz to 1 MHz	0.11 % to 0.012 %
59	ELECTRO- TECHNICAL- TIME & FREQUENCY (Measure)	Time Interval (Timer / Stop Watch)	Using Digital Time Interval Meter By Comparison Method	2 s to 3600 s	0.15 s to 0.30 s
60	ELECTRO- TECHNICAL- TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator By Direct Method	1 Hz to 10 kHz	0.55 % to 0.03 %
61	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibration Machine L.C.: 0.001 mm & Coarser	Using Gauge Blocks & Length Bars by Comparision Method	0 to 1000 mm	10µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	54 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

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62	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)	Using Electronic Level by Direct Method	250 x 250 mm to 4000 x 4000 mm	1 x sqrt ((L+W)/120) μm; Where L & W in mm
63	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	2D ELECTRONIC HEIGHT GAUGE L.C.: 0.0001mm & Coarser - Linear accuracy - Squareness (upto 600 mm)	Using Length Bars & Surface Plate by Direct Method	0 to 1000 mm	(2.5+ L/1000) μm; where L in mm
64	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C. 0.001 µm & coarser	Using Gauge Blocks "K- Grade" by Direct Method	0.5 mm to 100 mm	(0.035 + L/3000) µm; where L in mm
65	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Horizontal) L.C. :0.0001 mm & coarser	Using Gauge Blocks by Direct Method	0 to 100 mm	0.8µm
66	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Horizontal) L.C. :0.0001 mm & coarser	Using Gauge Blocks by Direct Method	100 mm to 300 mm	1.03µm





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	55 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

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67	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Tool Makers Microscope / Brinell Microscope / Vision Measuring Machine a) Linear X, Y Axis L.C.: 0.00001 mm & coarser	Using Linear Glass Scale by Direct Method	0 to 200 mm	2.7µm
68	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Optical Microscope / Vision Measuring Machine d) Magnification	Using Linear Glass Scale, Gauge Block, Digital Caliper by Direct Method	2 X to 1000 X	0.5%
69	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine b) Angular	Using Angle Gauge Blocks by Direct Method	0 ° to 360 °	5sec of arc
70	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Tool Makers Microscope / Vision Measuring Machine c) Angular	Using Angular Graticule by Direct Method	0 ° to 360 °	13.1sec of arc
71	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Rz & Rmax Values)	Using Surface Roughness Specimens -3 different values by Direct Method	0.1 μm to 23.0 μm	7.2%





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JA GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	56 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

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72	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable)	Using Surface Roughness Specimens -3 different Ra values by Direct Method	0.1 μm to 6.0 μm	7.2 %
73	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD R-6-1	0 bar to 70 bar	0.162bar
74	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Hydraulic Pressure Pump, 6½ Digital MultimeterBy Comparison Method as per DKD R-6-1	0 bar to 700 bar	0.6bar
75	MECHANICAL- PRESSURE INDICATING DEVICES	Negative Pressure (Digital and Dial Vacuum Gauges, Vacuum Transmitters)	Using Digital Vacuum Gauge with Vacuum Pump, 6 ¹ / ₂ Digital Multimeter & By Comparison Method (DKD- R-6-01)	(-) 0.8 bar to 0 bar	0.015bar





SCOPE OF ACCREDITATION

Laboratory Name :	GANESH VISION, AK
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-2188
Validity	20/10/2022 to 19/10

ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI SION, AKURDI, PUNE, MAHARASHTRA, INDIA

to 19/10/2024

Page No	57 of 61
Last Amended on	17/11/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
76	MECHANICAL- PRESSURE INDICATING DEVICES	Pneumatic Pressure (Digital and Dial Pressure Gauges, Pressure Transmitters)	Using Digital Pressure Gauge & Pneumatic Pressure Pump, 6½ Digital Multimeter By Comparison Method as per DKD R-6-1	0 bar to 7 bar	0.032bar
77	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 10g & Coarser) (Class-IV)	Using F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 150 kg	7.64g
78	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 10mg & Coarser) (Class-Il & Coarser)	Using E2/F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 3 kg	0.007g
79	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 1g & Coarser) (Class-III & Coarser)	Using F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 50 kg	1.2g
80	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 1mg & Coarser) (Class II & Coarser)	Using E2 Class Standard Weights by Direct Method as per OIML R 76 - 1	1 mg to 200 g	0.67mg
81	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Readability d = 500mg & Coarser) (Class-II & Coarser)	Using E2/F1 Class Standard Weights by Direct Method as per OIML R 76 - 1	0 to 20 kg	0.39g





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA				
Accreditation Standard	ISO/IEC 17025:2017				
Certificate Number	CC-2188	Page No	58 of 61		
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022		

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82	THERMAL- SPECIFIC HEAT & HUMIDITY	Humidity Indicator with sensor of Humidity Calibrator / Generator / Environmental Chamber @ 25°C (Single Position Calibration)	Using RH and Temp Probe with Indicator by comparison method	20 %RH to 90 %RH	1.1%RH
83	THERMAL- SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 25°C	Using Temperature / Humidity Generator along- with RH & Temp Probe with Indicator by comparison method.	20 %RH to 90 %RH	1.1%RH
84	THERMAL- SPECIFIC HEAT & HUMIDITY	Temperature / Relative Humidity meter with Sensor, Temperature / Relative Humidity meter with inbuilt Sensor, Datalogger, Thermohygrometer @ 50% RH	Using Temperature/Humidi ty Generator alongwith RH & Temp Probe with Indicator by comparison method	10 °C to 50 °C	0.5°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	59 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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85	THERMAL- TEMPERATURE	Calibration of Bath/Oven/Chamber/ Freezer/Autoclave/In cubator for non- medical purpose only (Multi-Position Calibration)	Using RTD (Pt-100) Sensors with Data- Logger (Minimum 9 Sensors) by comaprison method	(-) 30 °C to 250 °C	2.0°C
86	THERMAL- TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	400 °C to 1000 °C	3.9°C
87	THERMAL- TEMPERATURE	IR Thermometer, Pyrometer, Thermal Imager	Using Standard IR Thermometer & Black Body Furnace (Emissivity 0.95) by Comparison Method	50 °C to 400 °C	1.9°C
88	THERMAL- TEMPERATURE	Liquid in Glass Thermometer, Temperature Gauge, Dial Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Liquid Bath By Comparison Method	(-) 30 °C to 250 °C	0.36°C
89	THERMAL- TEMPERATURE	RTD / Thermocouples with and without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor, Liquid Bath by Comparison Method	(-) 30 °C to 250 °C	0.26°C





Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	60 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

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90	THERMAL- TEMPERATURE	RTD / Thermocouples with and without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator, Digital Thermometer	Using 6½ Digit Multimeter, 4 Wire RTD Sensor & Dry Block Temp Furnace By Comparison Method	250 °C to 400 °C	0.4°C
91	THERMAL- TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace (Single Position Calibration)	Using 6½ Digit Multimeter, R-Type Thermocouple by comparison method	250 °C to 1200 °C	2.6°C
92	THERMAL- TEMPERATURE	Temperature Indicator with sensor of Bath/Oven/Furnace/ Freezer/Chamber/Inc ubator for non- medical purpose only (Single Position Calibration)	Using 6½ Digit Multimeter, 4 Wire RTD Sensor by comparison method	(-) 30 °C to 250 °C	0.3°C
93	THERMAL- TEMPERATURE	Thermocouples with & without Indicator / Controller / Recorder / Data logger, Temperature Transmitter with & without indicator	Using 6½ Digit Multimeter, R-Type Thermocouple & Dry Block Temp. Furnace By Comparison Method	250 °C to 1200 °C	2.6°C





SCOPE OF ACCREDITATION

Laboratory Name :	ACCURATE CALIBRATION & TESTING CENTER, 168, B-WING, 1ST FLOOR, JAI GANESH VISION, AKURDI, PUNE, MAHARASHTRA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	CC-2188	Page No	61 of 61	
Validity	20/10/2022 to 19/10/2024	Last Amended on	17/11/2022	

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.

