



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	1 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
LOCATION 1-NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.094 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.042%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.041 % to 0.094 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	0.50%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

2 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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 Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	0.5 % to 1.0 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.0%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.5%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.6%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.25%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	3 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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) (Measure)	AC Power, 1 Phase, 50Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.26%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.820 % to 0.014 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.017 % to 0.073 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.017 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.01 % to 0.019 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

4 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 500 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.07 % to 0.230 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.05%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.056 % to 0.061 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.05%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 µH to 100 mH	0.236 % to 0.065 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	5 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 µF	5.85 % to 1.55 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	1.15%
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 µF to 30 µF	1.55%
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 6 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.15 % to 0.074 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.56 % to 0.17 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.15 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.28 % to 0.24 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.81 % to 0.26 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.23 % to 0.20 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	7 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	1 A to 1000 A	1.0%
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.68 % to 0.37 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power ,UPF @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.17%
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power , 0.2 Lag @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.57%
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 0.5 Lag @ 50Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.46%
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power, 0.8 Lead @50Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.2%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	8 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.087 % to 0.080 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026% % to 0.039 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.75 % to 0.24 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	9 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.24 % to 0.042 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (450kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.116 % to 0.121 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.452 % to 0.054 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.054 % to 0.024 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @50 Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003PF



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Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	10 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50Hz , 0.01 A to 20 A, 120 V to 240 V	using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003PF
50	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.080 % to 0.052 %
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.19%
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001%
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	11 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.062 % to 0.080 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.2%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.47 % to 0.0003 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.00033%
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.00033%
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 12 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.116 % to 0.133 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 % to 0.0031 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using master LCR Meter Direct Method	1 mohm to 100 mohm	0.061 % to 0.207 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.036 % to 0.0010 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0008 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.008 %



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RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 13 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.001 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.008 % to 0.116 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohmmeter by Direct method	100 mohm to 150 mohm	0.206%
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 % to 0.0015 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %



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VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

14 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.023 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5%
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.016 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	15 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.65 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.08 % to 0.45 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.25 % to 0.023 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0017 % to 0.0016 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.0039 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	16 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0025 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0015 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Megohm Box by Direct method	0.1 Mohm to 1 Mohm	5.89 % to 4.91 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0035 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	1 mohm	0.61%
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0042 % to 0.014 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	17 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	1.2%
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.12 % to 0.015 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	10 mohm	0.61%
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.38 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.004 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	18 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2%
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	100 mohm	0.609%
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	150 mohm	0.61%
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.78 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 19 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	5 mohm	0.61%
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.29 % to 0.096 %
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.6 % to 0.3 %
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	0.23 % to 0.87 %
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0003%
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	600 °C to 1750 °C	0.4°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	20 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.27°C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	-200 °C to 1200 °C	0.31°C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48°C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N type Thermocouple	Using Multiproduct Calibrator by Direct method	200 °C to 1300 °C	0.35°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.48°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	-200 °C to 800 °C	0.05°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	21 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1450 °C	0.56°C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.17°C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	600 °C to 1750 °C	0.11°C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.49°C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Temperature Indicator / Recorder / Controller type	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.25°C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	22 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.30°C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.60°C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.16°C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.80°C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.16°C
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0024 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	23 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.06 % to 0.05 %
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.004 % to 0.006 %
129	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160 Hz	Using Digital Vibration meter by Comparison method	50.1 m/s ²	3%
130	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	10.0 m/s ²	2.83%
131	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	20.1 m/s ²	2.48%
132	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @160Hz	Using Digital Vibration meter by Comparison method	40.2 m/s ²	2.44%
133	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	12.3 m/s ²	2.56%
134	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	20.5 m/s ²	2.49%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	24 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
135	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	28.8 m/s ²	2.49%
136	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @40Hz	Using Digital Vibration meter by Comparison method	4.0 m/s ²	3.43%
137	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	11.5 m/s ²	2.63%
138	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	16.7 m/s ²	2.53%
139	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	2.8 m/s ²	5.04%
140	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @80Hz	Using Digital Vibration meter by Comparison method	6.6 m/s ²	2.96%
141	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.009 mm	11.87%
142	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.030 mm	3.78%
143	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.050 mm	3.24%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	25 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
144	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @160Hz	Using Digital Vibration meter by Comparison method	0.126 mm	2.56%
145	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.065 mm	2.89%
146	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.196 mm	2.53%
147	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration meter by Comparison method	0.263 mm	2.53%
148	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration Meter by Comparison Method	0.459 mm	2.44%
149	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.011 mm	10.27%
150	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.026 mm	4.79%
151	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.046 mm	3.08%
152	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.067 mm	2.8%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	26 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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-ACCELERATION AND SPEED	Stroboscope, Tachometer (Non Contact Type) Resolution: 0.1 rpm / 1 rpm	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	60 rpm to 25000 rpm	2.7%
154	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, tachometer (Non Contact Type)	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	25000 rpm to 45000 rpm	0.036%
155	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type) Resolution: 0.1 rpm / 1 rpm	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	100 rpm to 7000 rpm	0.8%
156	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @160 Hz	Using Digital Vibration meter by Comparison method	9.9 mm/s	2.893%
157	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @80Hz	Using Digital Vibration meter by Comparison method	33.3 mm/s	2.573%
158	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) 82.0 mm/s @40Hz	Using Digital Vibration meter by Comparison method	82.0 mm/s	2.42%
159	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) mm/s @40Hz	Using Digital Vibration meter by Comparison method	16.1 mm/s	2.52%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	27 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
160	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) mm/s @40Hz	Using Digital Vibration meter by Comparison method	48.7 mm/s	2.43%
161	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak)mm/s @40Hz	Using Digital Vibration meter by Comparison method	65.1 mm/s	2.42%
162	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	39.9 mm/s	2.893%
163	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	69.7 mm/s	2.41%
164	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	99.3 mm/s	2.41%
165	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	13.2 mm/s	2.67%
166	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	22.8 mm/s	2.59%
167	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @80Hz	Using Digital Vibration meter by Comparison method	5.7 mm/s	3.074%
168	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	114 dB @1kHz	0.3dB



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	28 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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-ACOUSTICS	Sound Level Meter	Using Sound level Calibrator by Comparison Method	94 dB @1kHz	0.3dB
170	MECHANICAL-DENSITY AND VISCOSITY	Density - Hydrometer with L.C: 0.0005 g/ ml	Using Hydrometer and liquid of appropriate density by Comparison method	0.600 g/ml to 1.8 g/ml	0.0009g/ml
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale Resolution: 0.1 mm	Using Scale & Tape Calibration Machine by Comparison method	1 mm to 30 mm	2xSQRT(L)µm where L in mm
172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Parallelism)	Using Mandrel & Lever Dial Gauge & Linear Height Master as per standard based on IS 2949	Up to 200 mm	3.0µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Squareness)	Using Mandrel & Lever Dial Gauge & Linear Height Master by Comparison method	Up to 200 mm	3.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	29 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Symmetricity)	Using Mandrel & Lever Dial Gauge & Linear Height Master by Comparison method	Up to 200 mm	3.0µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	3 Point Micrometer, Resolution: 0.001 mm	Using Ring Gauges by Comparison method	0 to 100 mm	3.6µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Taper Mandrel , Lever dial gauge by Comparison method	300 mm to 500 mm	2.4µm
177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Taper Mandrel by Comparison method	300 mm to 500 mm	3.0µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, Resolution: 1 minute	Using Profile Projector by Comparison method	0°-90°-0°	5.66minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	30 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (0.001mm)	Using Electronic Dial gauge calibration Tester by Comparison method	2 mm Transmission only	2.4µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	0° to 60°	50minute of arc
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	Up to 100 mm	6.0µm
182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration Foils	Using Universal Length Machine by Comparison method	Up to 2000 µm	1.1µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog / Dial / Digital) Resolution: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	8.6µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	31 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (Resolution: 1 µm)	Using Standard Thickness Foils by Comparison method	0 to 2000 µm	3.4µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, Resolution: 1°	Using Profile Projector as per standard by comparison method	0° to 180°	13.2minute of arc
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & Linear height master by Comparison method	Up to 300 mm	7.0µm
187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone Master (Angle)	Using Profile Projector by Direct method	55° & 60°	50minute of arc
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by Direct method	45°	53.3minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	32 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by Direct method	0.3 mm to 5 mm	3.69µm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds, Protector Mould (Length, Width & Depth Measurement)	Using Digital Caliper / Profile projector as per IS 10086 by Comparison method	Up to 300 mm x 300 mm	12µm
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Diameter)	Using Length Measuring Machine by Comparison method	3 mm to 100 mm	1.7µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Runout)	Using Length Measuring Machine by Comparison method	3 mm to 100 mm	5.6µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	4.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	33 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 600 mm	15.2µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 10 mm	2.6µm
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog /Digital), Resolution: 0.001 mm	Using Universal Length Measuring Machine by Comparison method	0 to 50 mm	1.0µm
197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge: Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	2.3µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge: Plunger type (Analog / Digital), Resolution: 0.01 mm	Using Universal Length Measuring Machine by Comparison method	0 to 100 mm	6.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	34 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	Up to 10 mm	7.0µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation gauge	Using Digital Caliper by Comparison Method	6.3 mm to 81 mm	24µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 50 mm	6.5µm
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	100 mm to 300 mm	6.5µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	50 mm to 100 mm	6.5µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 35 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	300 mm to 600 mm	6.5µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	600 mm to 1000 mm	7µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Universal Length Machine by Comparison method	Up to 1 mm	1.1µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Profile Projector by Comparison method	4.89 mm to 33.9 mm	7.0µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge Set & Digital Comparator by Comparison method	Up to 100 mm	3µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	36 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Squareness)	Using Lever Dial Gauge and Linear height Master by Comparison method	0 to 600 mm	13.5µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID) Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	Up to 150 mm	7.0µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Digital Comparator by Comparison method	0 to 100 µm	5.0µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper checker by Comparison method	0 to 600 mm	10.0µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper checker by Comparison method	0 to 1000 mm	10.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 37 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Linear)	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	0 to 75 mm	6.0µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Radius)	Using Profile Projector by Direct method as per ASTM E23 & ISO 148	0 to 1 mm	6.0µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen V & U Notch (Angular)	Using Profile Projector by Direct method as per ISO 148, ASTM E 23	0° to 45°	50minute of arc
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer / Digital Protractor L.C: 0.05°	Using Sine Bar & Angle Gauge blocks by Comparison method	10° to 90°	5minute of arc
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauge- (Plain Work Piece) (Angle)	Using Profile Projector by Comparison method	0° to 180°	6minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	38 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges - Plain Work Piece (Length)	Using Profile Projector by Comparison method	45 µm to 200 mm	6.0µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges- (Plain Work Piece) (Diameter)	Using Profile Projector / Universal Length Measuring Machine by Comparison method	0.1 mm to 20 mm	6.0µm
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (Including Extension Rod) Resolution: 0.01 mm	Using Gauge Block Set & Gauge Block Accessories by Comparison method	0 to 300 mm	8.0µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance meter L.C: 0.10 mm	Using Slip Gauge Block by Comparison method	0 to 1000 mm	350µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	2.4µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

39 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.002 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	3.1µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.01 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	5.3µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins (Grade 1 & 2)	Using Universal Length Machine by Comparison method	0.1 mm to 20 mm	2.0µm
227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pi Tape, Resolution: 0.5 mm	Using Scale & Tape Calibration Machine by Comparison method	0 to 50000 mm	42xSQRT(L)µm where L in m
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head, Resolution: 0.001 mm	Using Lever Dial Gauge & Linear Height Master by Comparison method	Up to 25 mm	1.3µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	40 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C: 0.1 mm)	Using Slip Gauge Set by Comparison method	0 to 40 mm	0.07mm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (Resolution: 0.01 mm)	Using Gauge Block Set by Comparison method	0 to 100 mm	6.0µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer, Resolution : 0.01 mm	Using Gauge Block Set by Comparison method	Up to 200 mm	7.0µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	2.8µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges	Using Universal Length Measuring Machine by Direct method	4 mm to 300 mm	2.8µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 41 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Portable Roughness tester Ra/ Rz	Using Surface Roughness Master Block by Comparison method	Up to 100 µm	6.41µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Profile Projector by Comparison method	0.5 mm to 25.0 mm	6.0µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Gauge block by Comparison method	Up to 200 mm	5µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	Up to 975 mm	10.0µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Angle measurement)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0° to 45°	7.0s of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	42 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Centre Distance between Rollers)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Parallelism)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0µm
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauges / Dial Snap Gauges / Width Gauges	Using Universal Length Machine by Comparison method	10 mm to 300 mm	2.5µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sphere (Diameter measurement)	Using Length Measuring Machine by Direct method	0 to 50 mm	0.72µm
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Frame Level, Resolution: 10 µm/m	Using Electronic Level as per standard based by comparison method	0.12 mm/m	15.0µm/m



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

43 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Profile Projector by Direct method	Up to 7 mm	6µm
245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel scale Resolution: 0.1 mm	Using Scale & Tape Calibration Machine by Comparison method	0 to 1000 mm	2xSQRT(L)µm where L in mm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of working face)	Using Linear Height Master and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working face)	Using Linear Height Master and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level as per standard based by comparison method	6000 mm x 2000 mm	2.0xSQRT(L+W/150) µm where L and W in mm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	44 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Specimen Ra, Rz	Using Surface Roughness Tester (Stand Alone unit) & Master Specimen by Comparison method	Up to 12.5 µm	3.4µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape Scale Calibrator Resolution: 0.001 mm	Using Slip Gauge Set and Long Slip Gauges by Comparison method	0 to 1000 mm	4.5µm
251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	3.0µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	4.8µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Profile Projector by Direct method	Up to 180°	50minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	45 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Profile Projector by Direct method	Up to 100 mm	6µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel - Diameter	Using ULM by Comparison method	0 to 300 mm	2.4µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel - Straightness	Using Lever type dial gauge, Bench centre by Comparison method	0 to 300 mm	2.1µm
257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel -Total Runout	Using Lever type dial gauge, Bench centre by Comparison method	0 to 300 mm	2.3µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison method	0.16 mm to 1 mm	5.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	46 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Direct method	1 mm to 75 mm	5.0µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper by Direct method	75 mm to 100 mm	16.0µm
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison method	0.17 mm to 6.35 mm	0.93µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Profile Projector by Comparison method	0.3 mm to 6.0 mm	3.0µm
263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Profile Projector by Comparison method	55° & 60°	5.1minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	47 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	3.2µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 300 mm	3.0µm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C 0.01mm	Using Gauge Block Set by Comparison method	Up to 200 mm	7.3µm
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Comparison method	0 to 25 mm	10.1µm
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld gauge	Using Profile Projector by Comparison method	0° to 90°	3minute of arc



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	48 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge (Angle)	Using Profile Projector by Comparison method	0° to 90°	3minute of arc
270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet / Dry Film Applicator	Using Profile Projector by Comparison method	0 to 600 mm	8.68µm
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector by Direct method	0.025 mm to 5 mm	9.4µm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison method	0.025 mm to 12.7 mm	8.8µm
273	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Block Set & Height Measuring System by Comparison method	0 to 1000 mm	8.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	49 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
274	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester , Resolution: 0.1 µm	Using Universal Length Measuring Machine and Slip gauge by Comparison method	Up to 25 mm	0.90µm
275	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe/ LVDT Probe L.C: 0.0001 mm	Using Grade '0' Gauge Blocks by Comparison method	Up to 25 mm	1.4µm
276	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	0.5 mm to 25 mm	0.12µm
277	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	25 mm to 50 mm	0.12µm
278	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	50 mm to 75 mm	0.14µm
279	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set	Using Gauge Block Grade 'k' by Comparison method	75 mm to 100 mm	0.14µm
280	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Granite Square (Flatness)	Using Lever Dial Gauge and Linear height Master by Comparison method:	0 to 600 mm	13.5µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 50 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
281	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Measuring Machine and Slip Gauge Block by Comparison method	100 mm to 300 mm	2.9µm
282	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope / Tool Microscope	Using Slip Gauge by Comparison method	Magnification: 10X to 100	0.6%
283	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / microscope Resolution: 0.001 mm	Using Slip Gauge by Comparison method	Linear : 0 to 200 mm	1.8µm
284	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System, Resolution: 1s	Using Angle Gauge Block by Comparison method	Angular: Up to 360°	5 minute of arc
285	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C 0.1µm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.5µm
286	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stain Less Weights as per VDI / VDE 2624 Part 2.1:2008	3 N to 50 N	0.5N
287	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stain Less Weights as per VDI / VDE 2624 Part 2.1: 2008	50 N to 1000 N	1.4N



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 51 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
288	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to -0.75 bar	0.00080bar
289	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2 bar	0.00061bar
290	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Digital / Analog Pressure Gauges, Compound Gauge, Pressure Indicator With Transducer / Transmitter, Pressure Switch	Using Digital Pressure Calibrator & 6½ Multimeter by Comparison method	0 to 1000 bar	0.055bar
291	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 bar	0.0028bar
292	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0010bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

52 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
293	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2000 mbar	0.47bar
294	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 500 mbar	0.020bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 53 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
295	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, manometers)Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 mbar	0.037mbar
296	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	0 to 20 Nm	0.36%
297	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	20 Nm to 200 Nm	1.5%
298	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type- I) Class B, C, D, E, (Type- II) Class A, B, C, D	Using Torque wrench Calibration System as per IS 16906-2018	200 Nm to 1000 Nm	1.2%
299	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

54 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
300	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 100 ml	0.2ml
301	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 25 ml	0.06ml
302	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.001mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.02ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

55 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
303	MECHANICAL-VOLUME	Glass Pipettes (Graduated/Non graduated) Pipette, Burette	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 50 ml	0.1ml
304	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03ml
305	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 100 ml	0.17ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

56 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
306	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 1000 ml	1.14ml
307	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g & 0.1g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10000 ml	75.0ml
308	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 20 ml	0.06ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

57 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
309	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 200 ml	0.32ml
310	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 2000 ml	12.0ml
311	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.1ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

58 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
312	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 50 ml	0.14ml
313	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 500 ml	0.60ml
314	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Weights of Accuracy Class E2, Balance (Readability : 0.01g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5000 ml	25.0ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

59 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
315	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	1 µl	0.01µl
316	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	100 µl	0.26µl
317	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	20 µl	0.04µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

60 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
318	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	5 µl	0.02µl
319	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	500 µl	2.9µl
320	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability: 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	Up to 10 µl	0.015µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

61 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
321	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 1000 µl	5.8µl
322	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 50 µl	0.16µl
323	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 5000 µl	30.13µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

62 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
324	MECHANICAL-VOLUME	Micropipette / Syringe(Industrial Purpose Only)	Using Weights of Accuracy Class E1, Micro Balance (Readability : 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655(part 6)	Up to 2 µl	0.01µl
325	MECHANICAL-VOLUME	Micropipette /Syringe (Industrial Purpose Only)	Using Weights of Accuracy Class E2, Micro Balance (Readability: 0.01 mg / 0.1 mg) & Distilled water by Gravimetric method as per ISO 8655 (part 6)	Up to 200 µl	1.2µl
326	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 5 ml	0.02ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 63 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
327	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	50 ml	0.1ml
328	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 10 ml	0.03ml
329	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric methods on ISO 4787:2010 & ISO 20461	Up to 100 ml	0.2ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 64 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
330	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 1000 ml	2.2ml
331	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 20 ml	0.06ml
332	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 200 ml	0.41ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	65 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
333	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.01mg & 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461	Up to 2000 ml	4.6ml
334	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Weights of Accuracy Class E2, Balance (Readability : 0.001g) & Distilled water by Gravimetric method as per IS/ISO 4787 & ISO/TR 20461:	Up to 500 ml	1.03ml
335	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using Stainless Steel Newtonian Weights by Comparison method	50 N to 1000 N	1.4N
336	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.0001 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 2.1 g	0.003mg
337	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.1mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 200 g	0.10mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 66 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
338	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 g (Class - III)	Using Weights of Accuracy Class F1 as per OIML R76:2006	1 g to 100 kg	1g
339	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 mg (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R-76: 2006	1 mg to 1 kg	0.002g
340	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 10 g (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	10 g to 100 kg	10g
341	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2007	2 kg to 1000 kg	100g
342	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 g to 20 kg	0.10g
343	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76: 2006	0.1 g to 35 kg	0.100g
344	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 mg to 10 kg	0.100g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 67 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
345	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 50 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	2 kg to 500 kg	50g
346	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 5.1 g	0.005mg
347	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01 mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 50 g	0.011mg
348	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 g (Class-IV)	Using Weights of Accuracy Class F1 & M1 Class as per OIML R76:2007	2 kg to 2000 kg	3.0kg
349	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability : 1mg, (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 5 kg	0.011g
350	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 2 kg	0.011mg
351	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	1 g	0.004mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

68 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
352	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	1 mg	0.002mg
353	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	10 g	0.012mg
354	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	10 mg	0.002mg
355	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	100 mg	0.003mg
356	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	2 g	0.004mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 69 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
357	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	2 mg	0.002mg
358	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	20 g	0.016mg
359	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	20 mg	0.002mg
360	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	200 g	0.099mg
361	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	200 mg	0.003mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

70 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
362	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	5 g	0.011mg
363	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	5 mg	0.002mg
364	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	50 g	0.023mg
365	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	50 mg	0.002mg
366	MECHANICAL-WEIGHTS	Weights (E2 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Sub-division method	500 mg	0.003mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 71 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
367	MECHANICAL-WEIGHTS	Weights (F1 Class & Coarser)	Using Weights of Accuracy Class E2 and Precision Balances as per OIML R 111-1:2004 by Substitution method	1 kg	0.001g
368	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	2 kg	0.009g
369	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	20 kg	0.090g
370	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	5 kg	0.010g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	72 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
371	MECHANICAL-WEIGHTS	Weights (F2 Class & Coarser)	Using Weights of Accuracy Class E2 and Precision Balances as per OIML R 111-1:2004 by Substitution method	500 g	0.001g
372	MECHANICAL-WEIGHTS	Weights (M1 Class & Coarser)	Using Weights of Accuracy Class F1 and Precision Balances as per OIML R 111-1:2004 by Substitution method	10 kg	0.083g
373	MECHANICAL-WEIGHTS	Weights(F1 Class & Coarser)	Using Weights of Accuracy Class E1 and Precision Balance as per OIML R 111- 1:2004 by Substitution method	100 g	0.089mg
374	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermohygro Meters / Temperature and Humidity Meters / Temperature and Humidity Transmitters, Data Logger, Indicators, Controllers with Sensors	Using Standard SPRT Indicator and Temperature Generator by Comparison method	10 °C to 50 °C @ 50%rh	0.248°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	73 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
375	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermohygro Meters / Temperature and Humidity Meters / Temperature and Humidity Transmitters, Data Loggers Indicators, Controllers with Sensors	Using Standard Humidity Meter and Humidity Generator by Comparison method	10 %rh to 95 %rh @ 25°C	0.934%rh
376	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT Indicator and Oil Bath by Comparison method	25 °C to 250 °C	0.402°C
377	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT with Indicator and Ethanol Bath by Comparison method	-80 °C to 25 °C	0.62°C
378	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer and Black Body by Comparison method	50 °C to 600 °C	4.87°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 74 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
379	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer and Black Body by Comparison method	600 °C to 1200 °C	5.51°C
380	THERMAL-TEMPERATURE	Non-Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager(non-Medical purpose only)	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 and Black Body by Comparison method	-15 °C to 50 °C	2.72°C
381	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter by Comparison method	-196 °C	0.132°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 75 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
382	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	-95 °C to 140 °C	0.041°C
383	THERMAL-TEMPERATURE	RTD's, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	140 °C to 600 °C	0.132°C
384	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Environmental Chamber, Oven (Single Position)	Using Standard SPRT with Indicator by Comparison method	140 °C to 600 °C	0.092°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 76 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
385	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black Body Source	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 by Comparison method	-15 °C to 50 °C	2.77°C
386	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer (Emissivity 0.95) by Comparison method	50 °C to 600 °C	4.87°C
387	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer (Emissivity 0.95) by Comparison method	600 °C to 1200 °C	5.53°C
388	THERMAL-TEMPERATURE	Temperature Indicator with sensor of High Temp. Dry Bath / Block, Environmental Chamber, Oven (Single Position)	Using S Type Thermocouple with indicator by Comparison method	600 °C to 1200 °C	1.201°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

77 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
389	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/Oil Bath, Low and High Temp. Dry Bath / Block, Furnace, Freezer, Environmental Chamber, Oven, Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison method	-95 °C to 140 °C	0.032°C
390	THERMAL-TEMPERATURE	Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital / Analog Thermometers and Transmitters with / Without Indicator	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital multimeter by Comparison method	600 °C to 1200 °C	1.288°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

78 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
LOCATION 1-NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.094 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.042%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.041 % to 0.094 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	0.50%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	79 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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 Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	0.5 % to 1.0 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.0%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct method	1 kV to 25 kV	6.33 % to 7.72 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.5%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.6%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 80 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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) (Measure)	AC Power, 1 Phase, 50Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.25%
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.26%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.820 % to 0.014 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.017 % to 0.073 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.017 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 81 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.01 % to 0.019 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 500 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.07 % to 0.230 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.05%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.056 % to 0.061 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.05%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

82 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 μ H to 100 mH	0.236 % to 0.065 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 μ F	5.85 % to 1.55 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 μ F	1.15%
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 μ F to 30 μ F	1.55%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	83 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %
26	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.15 % to 0.074 %
27	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.56 % to 0.17 %
28	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.15 %
29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.28 % to 0.24 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.81 % to 0.26 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	84 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	0.23 % to 0.20 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	1 A to 1000 A	1.0%
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.68 % to 0.37 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power ,UPF @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.17%
35	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power , 0.2 Lag @50Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.57%
36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Power 0.5 Lag @ 50Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.46%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

85 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power, 0.8 Lead @50Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.2%
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.087 % to 0.080 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026% % to 0.039 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	86 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.75 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.24 % to 0.042 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (450kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.116 % to 0.121 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.452 % to 0.054 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.054 % to 0.024 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 87 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50 Hz, 0.01A to 20A, 120V to 240V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003PF
50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @50Hz , 0.01 A to 20 A, 120 V to 240 V	using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003PF
51	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.080 % to 0.052 %
52	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.19%
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

88 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.062 % to 0.080 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.2%
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	1 kV to 20 kV	1.7 % to 1.67 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.47 % to 0.0003 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.00033%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

89 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.00033%
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007%
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with Digital Multimeter by Direct method	20 kV to 40 kV	1.67 % to 1.65 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.116 % to 0.133 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.001 % to 0.0031 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using master LCR Meter Direct Method	1 mohm to 100 mohm	0.061 % to 0.207 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 90 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.036 % to 0.0010 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0008 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.008 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.001 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.008 % to 0.116 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohmmeter by Direct method	100 mohm to 150 mohm	0.206%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	91 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 % to 0.0015 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.023 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	92 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5%
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.016 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.65 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1V to 1000V, 1mA to 20A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.08 % to 0.45 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 93 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.25 % to 0.023 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0017 % to 0.0016 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.0039 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0025 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0015 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Megohm Box by Direct method	0.1 Mohm to 1 Mohm	5.89 % to 4.91 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	94 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0035 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	1 mohm	0.61%
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0042 % to 0.014 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	1.2%
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.12 % to 0.015 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	95 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	10 mohm	0.61%
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.38 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.004 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2%
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	100 mohm	0.609%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	96 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Resistor Box by Direct method	150 mohm	0.61%
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.78 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Direct Method using fixed resistor box	5 mohm	0.61%
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.29 % to 0.096 %
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.6 % to 0.3 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 97 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
109	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz	0.23 % to 0.87 %
110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0003%
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	600 °C to 1750 °C	0.4°C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E type thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.27°C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using Multiproduct Calibrator & 6½ Digital Multimeter by Direct method	-200 °C to 1200 °C	0.31°C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	98 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N type Thermocouple	Using Multiproduct Calibrator by Direct method	200 °C to 1300 °C	0.35°C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.48°C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	-200 °C to 800 °C	0.05°C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S type Thermocouple	Using Multiproduct Calibrator by Direct method	10 °C to 1450 °C	0.56°C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T type Thermocouple	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.17°C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	600 °C to 1750 °C	0.11°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	99 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 900 °C	0.49°C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Temperature Indicator / Recorder / Controller type	Using Multiproduct Calibrator by Direct method	-200 °C to 1200 °C	0.25°C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1350 °C	0.48°C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 1300 °C	0.30°C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.60°C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 800 °C	0.16°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 100 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	10 °C to 1750 °C	0.80°C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Temperature Indicator / Recorder / Controller	Using Multiproduct Calibrator by Direct method	-200 °C to 400 °C	0.16°C
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0024 %
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.06 % to 0.05 %
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.004 % to 0.006 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

101 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
132	FLUID FLOW- FLOW MEASURING DEVICES	Volume flow rate (Media : Water), Analog and Digital Flow meters, Volume Flow rate measuring devices	Using Ultra sonic hand held flow meter with multiple clamp on sensors by Comparison method	18 lpm to 13500 lpm	2.8%
133	MECHANICAL- ACCELERATION AND SPEED	Centrifuge / Centrifugal Motor / Speed (Non-Contact)	Using Tachometer by Comparison method	12 rpm to 15000 rpm	5.833%
134	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Taper Mandrel , Lever dial gauge by Comparison method	300 mm to 500 mm	2.4µm
135	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Taper Mandrel by Comparison method	300 mm to 500 mm	3.0µm
136	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Moulds, Protector Mould (Length, Width & Depth Measurement)	Using Digital Caliper / Profile projector as per IS 10086 by Comparison method	Up to 300 mm x 300 mm	12µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	102 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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 (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level as per standard based by comparison method	6000 mm x 2000 mm	2.0xSQRT(L+W/150) μm where L and W in mm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification of Displacement Measuring System and Devices used in Material Testing Machine	Using Digital Height gauge, length measuring Instruments as per ASTM E 2309	20 mm to 600 mm	916.11μm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Microscope / Tool Microscope	Using Slip Gauge by Comparison method	Magnification: 10X to 100	0.6%
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System / microscope Resolution: 0.001 mm	Using Slip Gauge by Comparison method	Linear : 0 to 200 mm	1.8μm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring System, Resolution: 1s	Using Angle Gauge Block by Comparison method	Angular: Up to 360°	5 minute of arc
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C 0.1μm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.5μm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	103 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
143	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 10/3000	1.41%
144	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 5/750	2.02 %
145	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.1	8.01%
146	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.2	7.5%
147	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.5	4.11%
148	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV1	5.12%
149	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRA	1.0HRA



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 104 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
150	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) :2018	HRB	1.2HRB
151	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRC	0.85HRC
152	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV1	5.12%
153	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) :2020	HV10	2.50%,
154	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV30	2.0%
155	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV5	3.72%
156	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to -0.75 bar	0.00080bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

105 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
157	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Dial Vacuum Gauges / Transmitters / Transducers, Compound Gauges	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2 bar	0.00061bar
158	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure, Digital / Analog Pressure Gauges, Compound Gauge, Pressure Indicator With Transducer / Transmitter, Pressure Switch	Using Digital Pressure Calibrator & 6½ Multimeter by Comparison method	0 to 1000 bar	0.055bar
159	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 bar	0.0028bar
160	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Digital / Dial Gauges / Pressure Indicator With Transmitter / Transducer, Compound Gauge	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0010bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	106 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
161	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 2000 mbar	0.47bar
162	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, Manometers) Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 500 mbar	0.020bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 107 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
163	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Absolute) (Absolute Gauges, Barometers, manometers)Pneumatic Pressure, Magnehelic gauges, Differential Pressure Transmitters, Low Pressure Indicators / Transducers, Barometer	Using Digital Pressure Calibrator & 6½ Multimeter by comparison method as per DKD-R6-1	0 to 70 mbar	0.037mbar
164	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Flexural Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1:2022	1 kN to 50 kN	0.6%
165	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells as per IS 1828 Part 1:2022	10 N to 100 N	0.85%
166	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1: 2022	10 N to 100 N	0.85%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	108 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
167	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1:2022	100 N to 1000 N	0.6%
168	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing Machine, Flexural Testing Machine (Compression Mode)	Using Proving Ring, Load Cells as per IS 1828 Part 1:2022	100 N to 1000 kN	0.6%
169	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing, Flexural Testing Machine (Compression Mode)	Using Proving Ring as per IS 1828 Part 1:2022	200 kN to 2000 kN	0.6%
170	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.0001 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 2.1 g	0.003mg
171	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 0.1mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 200 g	0.10mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	109 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
172	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 g (Class - III)	Using Weights of Accuracy Class F1 as per OIML R76:2006	1 g to 100 kg	1g
173	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 1 mg (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R-76: 2006	1 mg to 1 kg	0.002g
174	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 10 g (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	10 g to 100 kg	10g
175	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2007	2 kg to 1000 kg	100g
176	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 g to 20 kg	0.10g
177	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76: 2006	0.1 g to 35 kg	0.100g
178	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 100 mg, (Class-III)	Using Weights of Accuracy Class E1, F1 & F2 as per OIML R-76: 2006	0.1 mg to 10 kg	0.100g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

110 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
179	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability : 50 g, (Class-IV)	Using Weights of Accuracy Class F1 as per OIML R76:2006	2 kg to 500 kg	50g
180	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 5.1 g	0.005mg
181	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01 mg (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76: 2006	1 mg to 50 g	0.011mg
182	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 g (Class-IV)	Using Weights of Accuracy Class F1 & M1 Class as per OIML R76:2007	2 kg to 2000 kg	3.0kg
183	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability : 1mg, (Class-II)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 5 kg	0.011g
184	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 & E2 as per OIML R 76:2006	0.1 mg to 2 kg	0.011mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	111 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
185	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard Temperature and Humidity Data Loggers (minimum 9 Sensors) by Comparison method	10°C to 50°C @ 50%rh	0.7°C
186	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard Temperature and Humidity Data Loggers (minimum 9 Sensors) by Comparison method	20 %rh to 95 %rh @ 25°C	1.741%rh
187	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using Standard Humidity Meter and SPRT with Indicator by Comparison method	10 %rh to 95 %rh @ 25°C	1.081%rh



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

112 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
188	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using Standard Humidity Meter and SPRT with Indicator by Comparison method	5°C to 60°C @ 50%rh	0.278°C
189	THERMAL-TEMPERATURE	Liquid/Oil/Water Bath, Low and High Temp. Bath, Incubators, Freezer, Deep Freezers, Ultra Deep Freezers, Refrigerators, BOD Incubators, Environmental Chambers, Ovens, Autoclaves, Clean Rooms, Cold Room (Multi Position)	Using RTD Sensors and Multichannel Temperature Recorders (minimum 9 Sensors) by Comparison method	-80 °C to 300 °C	0.515°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 113 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
190	THERMAL-TEMPERATURE	Low and High Temp. Bath, Incubators(Non medical purpose), Freezer, Deep Freezers, Ultra Deep Freezers, Refrigerators, BOD Incubators(Non medical purpose), Environmental Chambers, Ovens, Autoclaves (Non medical purpose), Clean Rooms, Cold Room	Using N type Sensors and Multichannel Temperature Recorders (minimum 9 sensors) by multiposition method	300 °C to 1200 °C	3.22°C
191	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter by Comparison method	-196 °C	0.132°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	114 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
192	THERMAL-TEMPERATURE	RTD's, Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	-95 °C to 140 °C	0.041°C
193	THERMAL-TEMPERATURE	RTD's, Thermocouples (With and Without Indicators), Data Loggers, Recorders, Transmitters, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicator	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison method	140 °C to 600 °C	0.132°C
194	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Environmental Chamber, Oven (Single Position)	Using Standard SPRT with Indicator by Comparison method	140 °C to 600 °C	0.092°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 115 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
195	THERMAL-TEMPERATURE	Temperature Indicator with sensor of High Temp. Dry Bath / Block, Environmental Chamber, Oven (Single Position)	Using S Type Thermocouple with indicator by Comparison method	600 °C to 1200 °C	1.201°C
196	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Liquid/Oil Bath, Low and High Temp. Dry Bath / Block, Furnace, Freezer, Environmental Chamber, Oven, Incubator, Autoclave, Centrifuge Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison method	-95 °C to 140 °C	0.032°C
197	THERMAL-TEMPERATURE	Thermocouples (With / Without Indicators), Data Loggers, Recorders, Transmitters, Digital / Analog Thermometers and Transmitters with / Without Indicator	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital multimeter by Comparison method	600 °C to 1200 °C	1.288°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	116 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
LOCATION 2 - #216, 1ST CROSS, RAJIV GANDHI NAGAR, J.B.KAVAL, NANDHINI LAYOUT POST, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct / Comparison method	1 kV to 28 kV	2.33%
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with Digital Multimeter by Direct / Comparison method	1 kV to 40 kV	1.98 % to 2.09 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Anemometer / Hot wire anemometer / Pitot Tube / Wind Speed / Velocity sensors / Kinetic energy tester / Velocity transmitter / Wind tunnel / Air capture hood / fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	5 m/s to 28 m/s	1.00m/s



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 117 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
4	FLUID FLOW- FLOW MEASURING DEVICES	Velocity - Anemometer/ Hot wire anemometer / Pitot Tube/Wind Speed / Velocity sensors / Kinetic energy tester / Velocity transmitter / Wind tunnel / Air capture hood / fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	2 m/s to 5 m/s	0.24m/s
5	FLUID FLOW- FLOW MEASURING DEVICES	Velocity - Anemometer/ Pitot Tube/Wind Speed/Velocity sensors/Kinetic energy tester/Velocity transmitter/Wind tunnel/ Air capture hood/ fume hood	Using Wind tunnel control unit Thermal anemometer and 'L' Type Pitot Tube by Comparison method	0.4 m/s to 2 m/s	0.14m/s
6	MECHANICAL- DENSITY AND VISCOSITY	Density Hydrometer, Brix Hydrometer, Baume Hydrometer, Twaddle Hydrometer, Specific Gravity Hydrometer, Lactometer, Alcoholmeter	Using Cuckow's method and ASTM E 126	0.6 g/ml to 2.0 g/ml	0.000093g/ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 118 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule L.C: 1°	Using Video Measuring System by Comparison method	0° to 180°	1.8minute
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, L.C: 5 minute	Using Video Measuring System by Direct method	(0°-90°-0°)	1.25minute of arc
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (0.001mm)	Using Electronic Dial gauge calibration Tester by Comparison method	2 mm Transmission only	2.1µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog /Dial / Digital) Resolution: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	9.6µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, Resolution: 0.1 µm	Using Standard Thickness Foils by Comparison method	0 to 2000 µm	2.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	119 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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)(±)
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, Resolution :1°	Using Video Measuring System as per standard based on IS 4239	(0°-90°-0°)	6.7minute of arc
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & Height Gauge by Comparison method	0 to 300 mm	5.0µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	7.2µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	7.6µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	2.3µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

120 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 10 mm	2.6µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), Resolution: 0.001 mm	Using Electronic Dial Calibration Gauge Tester by Comparison method	0 to 25 mm	2.3µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 10 mm	6.0µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 600 mm	6.5µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 50 mm	6.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2473	Page No	121 of 128
Validity	27/10/2022 to 26/10/2024	Last Amended on	20/04/2023

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	100 mm to 300 mm	6.0µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / V Anvil / Pitch), Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	50 mm to 100 mm	6.0µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital) Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	300 mm to 600 mm	6.0µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID)Gauge, Resolution: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 150 mm (25 mm stroke length)	3.0µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper Checker by Comparison method	0 to 1000 mm	9.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 122 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) Resolution: 0.01 mm	Using Caliper Checker by Comparison method	0 to 600 mm	8.6µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	1.9µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.002 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	1.7µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.01 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	1.7µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Video Measuring System by Comparison method	0.5 mm to 25.0 mm	3.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 123 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	0 to 600 mm	10.0µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Video Measuring System by Direct method	0 to 7 mm	28µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Video Measuring System by Direct method	0° to 180°	3minute of arc
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Video Measuring System by Direct method	0 to 100 mm	3.69µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	0.032 mm to 1 mm	3.0µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 124 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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)(±)
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring System by Direct method	1 mm to 100 mm	3.0µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Video Measuring System by Comparison method	0.3 mm to 6.0 mm	3.0µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge, Set Pitch Flank Angle	Using Video Measuring System by Comparison method	55° to 60°	3.0minute of arc
40	MECHANICAL-FORCE PROVING INSTRUMENTS	Load cell with Indicator, Proven Rings, Dynamometer (Compression & Tension mode) Class 0.5 & Coarser	Using Dead weight force calibration machine with chrome plated steel alloy dead weights and loading hangers as per IS: 4169-2014, ISO 376- 2011	100 N to 10 kN	0.05%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

125 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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)(±)
41	MECHANICAL-HARDNESS TESTING MACHINES	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Load Cell with Indicator, ASTM D2240	0 to 100 Shore A	0.36Shore A
42	MECHANICAL-HARDNESS TESTING MACHINES	Shore Hardness Tester, Durometer (Type A, B, C, D, E, M, O, OO, OOO, OOO-S, AM, AO, DO, C1L): Spring Force Measurement Method	Using Load Cell with Indicator, ASTM D2240	0 to 100 Shore D	0.12Shore D
43	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI/VDE 2624 Part 2.1 (2008)	3 N to 500 N	0.7N
44	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Stainless Steel Weights as per VDI / VDE 2624 Part 2.1 (2008)	500 N to 2000 N	1.0N



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2473

Page No

126 of 128

Validity

27/10/2022 to 26/10/2024

Last Amended on

20/04/2023

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45	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	20 Nm to 200 Nm	0.37%
46	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers / Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A,B,C,D,E,F,G	Using a Torque wrench Calibrator having four calibrated transducers of 2, 20, 200, 2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	200 Nm to 2000 Nm	0.26%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS,
RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 127 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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47	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A, B, C, D, E & Torque setting Type II, Class A, B, C, D, E, F, G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	0.2 Nm to 2.0 Nm	0.74%
48	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches / Screw Drivers, Pneumatic / Electrical Screw Drivers/ Torque Gauges, Type I Class A,B,C,D,E & Torque setting Type II, Class A, B, C, D, E, F, G	Using a Torque wrench Calibrator having four calibrated transducers of 2,20,200,2000 Nm of class 0.2 as per BS 7882 in compliance of ISO 6789:2017(Part 1 & 2)	2 Nm to 20 Nm	0.39%
49	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights as per BS:7882:2008	20 Nm to 200 Nm	0.02%



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Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2473 **Page No** 128 of 128

Validity 27/10/2022 to 26/10/2024 **Last Amended on** 20/04/2023

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50	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stainless Steel / Aluminum Dead Weights, as per BS:7882:2008	200 Nm to 2000 Nm	0.02%
51	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Pulley and Aluminum Dead Weights as per BS:7882:2008	0.2 Nm to 2 Nm	0.03%
52	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator, Torque Transducers and Torque Sensors with Indicator, Torque Meters and Torque Tester	Using Dead Weight Torque Calibration System Consisting of Lever Arm and Stain Less / Aluminum Dead Weights as per BS: 7882:2008	2 Nm to 20 Nm	0.03%
53	OPTICAL-OPTICAL	Lux Meter / Light Meter / Illuminance Meter	Using Standard Lux meter by Comparison method	10 lux to 19000 lux	3.6%rdg

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