



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 1 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	0.5 A to 3 A	0.29%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM with Shunt 30A/30mV, Multiproduct Calibrator by Comparison/Direct Method	10 A to 20 A	0.71 % to 0.72 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	100 mA to 0.5 A	0.65 % to 0.28 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50 Hz	Using 6 ½ DMM With Shunt 30A/30mV , Multiproduct Calibrator by Comparison/Direct Method	3 A to 10 A	0.29 % to 0.71 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 2 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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 High Voltage @ 50 Hz	Using DMM with HV Probe by Direct Method	1 kV to 25 kV	0.1 kV to 1.7 kV
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using DMM with HV Probe by Direct Method	1 kV to 6 kV	0.1 kV to 0.33 kV
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM , Multiproduct Calibrator by Comparison/Direct Method	10 mV to 30 mV	0.55%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	100 mV to 750 V	0.20 % to 0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM , Multiproduct Calibrator by Comparison/Direct Method	30 mV to 100 mV	0.55 % to 0.20 %



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Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	3 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz - 1kHz)	Using Multiproduct Calibrator by direct Method	100 μ A to 100 mA	0.27 % to 0.16 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz - 1kHz)	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.16 % to 0.09 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz - 1kHz)	Using Multiproduct Calibrator by direct method	30 μ A to 100 μ A	0.54 % to 0.27 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.09 % to 0.15 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.15 % to 0.21 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with 50 Turns coil by Direct Method	50 A to 1000 A	0.8%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	4 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power @50 Hz,7.5 W-12kW (15 V to 600V , 0.5 A to 20 A)0.5 Lead & Lag, UPF	Using Multiproduct Calibrator by Direct Method	7.5 W to 12 kW	0.61%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	1 V to 1000 V	0.04%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multiproduct Calibrator by Direct Method	10 mV to 1 V	0.11 % to 0.04 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 10 µF	2.27%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Std. Inductance Box by Direct Method	100 µH to 10 H	2.27%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz	Using Multiproduct Calibrator by Direct Method	0.2 PF to 1 PF	0.006PF



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 5 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	0.1 mA to 1 mA	2.36 % to 0.39 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	1 mA to 100 mA	0.39 % to 0.17 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM , Multiproduct Calibrator by Comparison/Direct Method	100 mA to 3 A	0.17 % to 0.18 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM & Shunt , Multiproduct Calibrator by Comparison/Direct Method	3 A to 20 A	0.18 % to 0.88 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using DMM with HV Probe by Direct Method	1 kV to 30 kV	0.11 kV to 1.2 kV
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using DMM with HV Probe by Direct Method	1 kV to 6 kV	0.11 kV to 0.33 kV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 6 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	1 ohm to 10 ohm	0.49 % to 0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM , Multiproduct Calibrator by Comparison/Direct Method	1 Mohm to 100 Mohm	0.08 % to 0.92 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	10 ohm to 1 Mohm	0.13 % to 0.08 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	1 mV to 100 mV	0.45 % to 0.04 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM ,Multiproduct Calibrator by Comparison/Direct Method	1 V to 1000 V	0.008%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multiproduct Calibrator by Comparison/Direct Method	100 mV to 1 V	0.04 % to 0.008 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	7 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	10 A to 20 A	0.15 % to 0.21 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 μ A to 100 mA	0.27 % to 0.16 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	100 mA to 3 A	0.16 % to 0.08 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	3 A to 10 A	0.08 % to 0.15 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by direct method	30 μ A to 100 μ A	0.52 % to 0.27 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with 50 Turns Coil by Direct Method	50 A to 1000 A	0.66 % to 0.7 %



National Accreditation Board for Testing and Calibration Laboratories

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Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	8 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box (Discrete Values)by Direct Method	1 mohm	0.78%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box(Discrete Values)by Direct Method	1 ohm	0.23%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box(Discrete Values)by Direct Method	10 mohm	0.25%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Resistance Box(Discrete Values)by Direct Method	100 mohm	0.24%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 mV to 100 mV	0.17 % to 0.004 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	1 V to 1000 V	0.002%



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INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 9 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	100 mV to 1 V	0.004 % to 0.002 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Mega Ohm Box Sigma (Discrete Values)by Direct Method	1 Gohm	3.4%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Mega Ohm Box Sigma (Discrete Values)by Direct Method	100 Mohm	3.4%
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Mega Ohm Box Sigma (Discrete Values)by Direct Method	2 GOhm	4.0%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Mega Ohm Box Sigma (Discrete Values)by Direct Method	50 Mohm	3.4%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance	Using Mega Ohm Box Sigma (Discrete Values)by Direct Method	500 Mohm	3.4%



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SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	10 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct Method	1 ohm to 100 ohm	0.12 % to 0.004 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct Method	1 Mohm to 100 Mohm	0.007 % to 0.07 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct Method	100 ohm to 100 kohm	0.004%
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct Method	100 kohm to 1 Mohm	0.004 % to 0.007 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Multiproduct Calibrator by Direct Method	100 Mohm to 1000 Mohm	0.07 % to 1.26 %
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Multi Product Calibrator by direct method	0°C to 1750°C	0.47°C



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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	11 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B Type	Using Multi Product Calibrator by direct method	600°C to 1800°C	0.64°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E-Type	Using Multi Product Calibrator by direct method	(-)200°C to 1000°C	0.57°C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Multi Product Calibrator by direct method	(-)200°C to 1000°C	0.31°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Multi Product Calibrator by direct method	0°C to 1300°C	0.46°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N-Type	Using Multi Product Calibrator by direct method	0°C to 1300°C	0.31°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Multi Product Calibrator by direct method	0°C to 1750°C	0.56°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	12 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T-type	Using Multi Product Calibrator by direct method	(-)-200°C to 390°C	0.28°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E Type	Using Multi Product Calibrator by direct method	0°C to 1000°C	0.57°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Multi Product Calibrator by direct method	0°C to 1300°C	0.33°C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100 type	Using Multi Product Calibrator by direct method	(-)-200 °C to 800°C	0.27°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B Type	Using Multi Product Calibrator by direct method	600 °C to 1800°C	0.64°C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Multi Product Calibrator by direct method	(-)-200°C to 1000°C	0.31°C



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SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	13 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Multi Product Calibrator by direct method	0°C to 1300°C	0.46°C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Multi Product Calibrator by direct method	0°C to 1750°C	0.65°C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Multi Product Calibrator by direct method	0°C to 1750°C	0.54°C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Multi Product Calibrator by direct method	(-)200 °C to 390°C	0.72°C
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter , Multiproduct Calibrator by Comparison/Direct Method	10 Hz to 300 kHz	0.08 % to 0.02 %



National Accreditation Board for Testing and Calibration Laboratories

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Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	14 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using digital timer by comparison method	1 s to 10 s	0.022 s to 0.083 s
76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using digital timer by comparison method:	10 s to 1000 s	0.083 s to 0.82 s
77	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using digital timer by by comparison method	1000 s to 10000 s	0.82 s to 22.73 s
78	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using digital timer by comparison method	10000 s to 86400 s	22.73 s to 53.81 s
79	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by direct method	10 Hz to 1 MHz	0.007%
80	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/Tachometer(Non-Contact Type)	Using Digital Tachometer & RPM generator source by comparison Method	1000 rpm to 25000 rpm	0.68%



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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	15 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
81	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by comparison Method	100 rpm to 1000 rpm	2.99%
82	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by comparison Method	1000 rpm to 25000 rpm	0.68 %
83	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/ Tachometer(Non-Contact Type)	Using Digital Tachometer & RPM generator source by comparison Method:	100 rpm to 1000 rpm	2.99 %
84	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using Sound Level Calibrator by comparison method	94 dB &114 dB	0.64dB
85	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers	Using Hydrometer (Readability: 0.001 g/ml) and Appropriate Liquids by Comparison method as per based on IS 3104	0.600 g/ml to 1.800 g/ml	0.001g/ml
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge & Thread Check Ring Gauge	Using LMM, Master Ring & Thread Measuring Probe by Comparison Method	6 mm to 100 mm	2µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	16 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using Sine bar, Gauge Block & Dial gauge by Indirect Method	Upto 60 °	20 Sec of arc
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate / Box Angle Plate	Using Master cylinder, surface plate and gauge blocks by comparison method	10 mm to 1000 mm	3µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle plate, box plate	Master cylinder, surface plate and Gauge blocks by Comparison Method	up to 600 mm	3µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre-Flatness	Using Dial Indicator, Electronic Level & Mandrel by Comparison Method	up to 1000 mm	4 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre-Co - Axiality	Using Dial Indicator, Electronic Level & Mandrel by Comparison Method	upto 1000 mm	8µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	17 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre-Parallelism	Using Dial Indicator, Electronic Level & Mandrel by Comparison Method	upto 1000 mm	8µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor & Combination Set (L.C.: 5')	Using Angle Gauges by Comparison Method	0 ° to 360 °	4min. of arc
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Block square	Using Master Cylinder, Slip Gauge & Surface Plate by Comparison Method	10mm to 1000mm	3 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge Transmission movement only	Using Dial Calibration Tester, Dial Gauge, Electronic Probe & gauge Block by Comparison Method	Upto 2 mm	3.0µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Thickness Foils by Comparison Method	up to 700 µm	5µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 18 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Thickness Foil by Comparison Method	upto 1000 μ m	5.6 μ m
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Table)	Using Surface Plate & Dial Gauge with stand by Comparison Method	300 mm x 300 mm	2 μ m
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube mould/ Prism mould/ cylindrical mould	Using Digital caliper by Comparison Method	25mm x 25 mm x 25 mm to 150mm x 150 mm x 150 mm	0.05mm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square (Squareness Only)	Using Master cylinder & gauge block by comparison method	upto 1000mm	5 μ m
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square (Squareness Only)	Using Master cylinder & gauge block by comparison method	upto 600mm	3 μ m



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	19 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square (Squareness Only)	Using Master cylinder & Gauge Block by Comparison Method	upto 600 mm	3µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (LC - 0.01 mm) Vernier / Dial, Digital	Using Caliper Checker, Gauge Block & Length Bars by Comparison Method	0 to 600 mm	7.2µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger) L.C - 0.001mm	Using Dial Gauge Calibrator and Gauge Blocks by Comparison Method	0 to 25 mm	2µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger) L.C :0.01mm	Using Dial Gauge Calibrator and Gauge Blocks by Comparison Method	0 to 50 mm	6.11µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Lever Type) L.C: 0.01mm	Using Dial Gauge Calibrator and Gauge Blocks by Comparison Method	0 to 50 mm	6.11 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 20 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial gauge (Lever) L.C: 0.001mm	Using Dial Gauge Calibrator and Gauge Blocks by Comparison Method	0 to 2mm	2 μm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge Calibrator L.C :0.001 mm	Using Gauge Blocks & Electronic Probe by Comparison Method	0 to 25 mm	2μm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge , L.C: 0.001mm	Using Gauge blocks by Comparison Method	0 to 25 mm	2μm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Caliper L.C:0.01 mm	Using Length bars by Comparison Method	0.01 mm to 1000 mm	10μm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Level/Angle protector/frame bubble level L.C.: 0.1°	Using sine bar, gauge block, master cylinder, surface plate by Comparison Method	0° to 360°	0.22 °



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 21 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Try Square)	Using Master Cylinder, Slip Gauge & Surface Plate by Comparison Method	upto 1000mm	3 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square (Try Square)	Using Master Cylinder, Slip Gauge & Surface Plate by Comparison Method	upto 600 mm	3.0µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm	Using Gauge Block & Length Bar by Comparison Method	100 mm to 600 mm	7.0µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.001 mm	Using Gauge Block & Length Bar by Comparison Method	0 to 150 mm	0.83µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm	Using Gauge Blocks & Length Bars by Comparison Method	600 mm to 1000 mm	4.0 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 22 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C: 0.01 mm	Using Gauge Block & Length Bar by Comparison Method	Upto 100 mm	3.0µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.03 mm to 1 mm	3.40µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C: 0.01mm	Using Caliper Checker, Gauge Block ,Length Bars & Lever Dial gauge by Comparison Method	0 to 300 mm	8 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C: 0.01mm	Using Gauge Block , Length Bars & Lever Dial Gauge by Comparison Method	300 mm to 1000 mm	10µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indside dial Caliper L.C: 0.010mm	Using Gauge blocks by Comparison Method	4 mm to 75 mm	8µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 23 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer , (Two Jaw & Stick type) L.C: 0.01mm	Using Caliper Checker, Gauge Block Accessories & Length Bars by Comparison Method	300 mm to 1000 mm	10µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer , (Two Jaw & Stick type) L.C: 0.01mm	Using Caliper Checker, Gauge Block Accessories & Length Bars by Comparison Method	25 mm to 50 mm	8µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer , (Two Jaw & Stick type) L.C: 0.01mm	Using Caliper Checker, Gauge Block Accessories & Length Bars by Comparison Method	50 mm to 300 mm	8µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer, (Two Jaw & Stick type) L.C: 0.01mm	Using Caliper Checker, Gauge Block Accessories & Length Bars by Comparison Method	5 mm to 25 mm	3.4µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	24 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Jigs and fixtures, indenter balls, length, inner and outer dia, depth, Elongation index gauge, Flakiness Index gauge, Gauge and component	Using Digimatic micrometer, Digimatic caliper , dial gauge by Comparison Method	4 mm to 300 mm	1 µm to 15
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Cylinder	Using Master Cylinder, Surface Plate & Gauge Block by Comparison Method	upto 600 mm	3.0µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape L.C: 0.1 mm	Using scale calibration unit with DRO by Comparison Method	1 mm to Every subsequent m	7µm+sqrt(L)µm where L in meter
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Length Measuring Machine by Comparison Method	Upto 10 mm	1µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 25 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch gauge	Using Profile Projector by Comparison Method	Upto 10 mm	5µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine by Comparison Method	0.5 mm to 100 mm	1µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine & Master Ring by Comparison method	3 mm to 250 mm	2.0µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauge	Using Profile Projector by Comparison Method	upto 50 mm	7.7µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Caliper checker, Lever Dial gauge & Length bar by Comparison Method	Upto 100 mm	1µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 26 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Caliper checker, Lever Dial Gauge & Length Bar by Comparison Method	upto 300 mm	2µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Caliper checker, lever Dial Gauge & Length Bar by Comparison Method	upto 600 mm	3.0µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sieves	Using Digital Vernier Caliper by Comparison Method	10 mm to 150 mm	30µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sieves	Using Profile Projector by Comparison Method	Upto 10 mm	6.4µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar	Using Angle Gauge, Dial gauge & Gauge Block by Comparison Method	Upto 300 mm	4.77 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 27 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Blocks by Comparison Method	2 mm to 100 mm	3µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level , Sensitivity : 0.02mm/m	Using Electronic Level & Titling Table By Comparison Method	0 ' to 1 '	8µm/m
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level Sensitivity : 0.01mm/m	Using Electronic Level & Titling Table by Comparison Method	0 ' to 6 '	6µm/m
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale L.C: 0.5 mm	Using Steel Scale Fixture with DRO by Comparison Method	0 to 2000 mm	70+1.72 sqrt (L) µm , L in meter)
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Tape L.C :1 mm	Using Scale calibration unit with DRO by Comparison Method	0 to 1000 mm	7.04 µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 28 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge Thickness upto 10mm I-section Thickness 20mm & above (Straightness)	Using Surface Plate & Electronic Level by indirect method	up to 6000 mm	1x sqrt (L) μm, where L in m
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level least count 0.001 mm/m By Grid Method	upto size (6000X4000) mm	0.2 x sqrt ((L+ W)/150) μm, Where L , W are in mm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge	Using Gauge Block & Digital Micrometer, Standard Wires by Comparison Method	Upto 100 mm	3μm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Only PCD)	Using Floating Carriage Micrometer & Thread Measuring wires by Comparison Method	Upto 100 mm	3.5μm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using Gauge Block Comparator & Gauge Block by Comparison Method	10 μm to 1000 μm	4μm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 29 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge, wear Check Plugs (Only PCD)	Using Floating Carriage Micrometer & Thread Measuring wires by Comparison Method	Upto 100 mm	2.70µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three pin micrometer, Bore gauge, Hole tester	Using Standard Ring Gauges of different sizes.by Comparison Method	6 mm to 150 mm	3 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultra Sonic Thickness Gauge	Using Slip Gauge set by Comparison Method	1 mm to 100 mm	49µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C: 0.01mm	Using Caliper Checker, Gauge Block & Length Bars by Comparison Method	300 mm to 1000 mm	10µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C:0.01mm	Using Caliper Checker, Gauge Block & Length Bars by Comparison Method	0 to 300 mm	7.2µm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	30 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration tester (L.C: 0.0001 mm)	Using Gauge block of Grade 00 by Comparison Method	0 to 25 mm	1 μm
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C: 0.001mm/m)	Using Electronic Level, Titling Table & Electronic probe by Comparison Method	± 2 mm/m	3μm/m
157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator and Gauge Block Set Grade 00 by Comparison Method	10 mm to 50 mm	0.20μm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator and Gauge Block Set Grade by Comparison Method	50 mm to 100 mm	0.41μm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Calibrator and Gauge Block Set Grade 00 by Comparison Method	Up to 10 mm	0.12μm
160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Master(LC - 0.001mm)	Using Caliper Checker, Gauge Block ,Length Bars & Lever Dial gauge by Comparison Method	0 to 600 mm	3.5μm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 31 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Bars, LVDT Probe & Surface Plate by Comparison Method	100 mm to 300 mm	1.10µm
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Bars, LVDT Probe & Surface Plate by Comparison Method	300 mm to 600 mm	4.3µm
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Bars, LVDT Probe & Surface Plate by Comparison Method	600 mm to 1000 mm	5µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Bars, LVDT Probe & Surface Plate by Comparison Method	Upto 100 mm	1.3µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Height Gauge (L.C: 0.001 mm)	Using Length Bars , Lever Dial gauge and Gauge Blocks by Comparison Method	0 to 1000 mm	4.2µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear probe (Digital), LC: 0.1µm	Using Gauge Blocks by Comparison Method on surface plate	0 to 2 mm	1.01µm
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Angular Scale (LC: 1")	Using Angle gauge by Comparison Method	upto 90°	57.7Arc sec



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	32 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification 10x, 20x,100x	Using Glass Scale, Standard wires & Vernier Caliper by Comparison Method	up to 100 x	0.17%
169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector linear scale (L.C: 0.001 mm)	Using Glass Scale by Comparison Method	upto 300 mm	2.3µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Steel Scale/ tape Calibrator	Using Length bar by Comparison Method	upto 1000 mm	6.9µm
171	MECHANICAL-DUROMETER	Shore A tester	Using digital single pan electronic balance of 0.1 g and fixture as per ASTM 2240D	0 to 100 Shore A	0.5Shore A
172	MECHANICAL-DUROMETER	Shore D tester	Using digital single pan electronic balance of 0.1 g and fixture as per ASTM 2240D	0 to 100 Shore D	0.5Shore D
173	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Mobile Force Gauge	Using fixture with aluminium and SS Hangers for push and pull mode and F1 class SS weights by comparison method	5 N to 1000 N	0.3%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 33 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-PRESSURE INDICATING DEVICES	Digital Vacuum Gauge/ Indicator Vacuum Transducer, Vacuum Transmitter, Vacuum Switch.	Using Digital Vacuum Gauge & Vacuum pump, DMM Comparator Comparison method as per DKD- R-6-1	(-)0.95 bar to 0	0.006bar
175	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Dial Pressure Gauge/ Indicator. Pressure Transducer, Pressure Transmitter, Pressure Switch.	Digital Pressure Gauge & Comparator, DMM by Comparison method as DKD- R-6-1	0 to 10 bar	0.013bar
176	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Digital/Dial Pressure Gauge/ Indicator. Pressure Transducer, Pressure Transmitter, Pressure Switch.	Using Digital Pressure Gauge & Comparator, DMM by Comparison as per DKD- R-6-1	10 bar to 700 bar	0.45bar
177	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type - 1, Class, A,B,C,D,E Type - II, Class, A,B,C,D,E,F, & G	Using Digital Torque Calibrator By Comparison Method as per IS/ISO:6789	2 Nm to 20 Nm	0.96%
178	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type - 1, Class, A,B,C,D,E Type - II, Class, A,B,C,D,E,F, & G	Using Digital Torque Calibrator By Comparison Method as per IS/ISO:6789	2 Nm to 200 Nm	0.64%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 34 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-TORQUE GENERATING DEVICES	Torque Wrench Type - I, Class, A,B,C,D,E Type - II, Class, A,B,C,D,E,F, & G	Digital Torque Calibrator By Comparison Method as per IS/ISO:6789	200 Nm to 2000 Nm	0.75%
180	MECHANICAL-TORQUE MEASURING DEVICES	Torque Transducer calibration	Using primary method, calibrated 1 m beam and F1 class SS weights as per BS7882	100 Nm to 200 Nm	0.15Nm
181	MECHANICAL-TORQUE MEASURING DEVICES	Torque Transducer calibration,	Using primary method, calibrated 1 metre beam, pulley and F1 class SS and AL weights as per BS 7882	5 Nm to 100 Nm	0.04%
182	MECHANICAL-TORQUE MEASURING DEVICES	Torque transducer, Torque sensor with/without indicator, Torque meter	Using primary method, calibrated pulley and F1 class AL weights , Digital multimeter as per BS 7882	0.05 Nm to 50 Nm	0.12%
183	MECHANICAL-VOLUME	Measuring Cylinder/ Volumetric Flask/ Graduated Jar/ Cane	Using Standard Weights F1 Class , Precision balances, double distilled water of known density as per Gravimetric method based on ISO 4787	0.1 ml to 100 ml	2µl



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 35 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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-VOLUME	Measuring Cylinder/ Volumetric Flask/ Graduated Jar/ Cane	Standard Weights F1 Class , precision balances, double distilled water of known density as per Gravimetric method based on ISO 4787	1 l to 5 l	8.6ml
185	MECHANICAL-VOLUME	Measuring Cylinder/ Volumetric Flask/ Graduated Jar/ Cane	Using Standard Weights F1 Class , precision balances, double distilled water of known density as per Gravimetric method based on ISO 4787	100 ml to 1 l	0.5ml
186	MECHANICAL-VOLUME	Measuring Cylinder/ Volumetric Flask/ Graduated Jar/ Cane	Using Standard Weights F1 Class , precision balances, double distilled water of known density as per Gravimetric method based on ISO 4787	5 l to 20 l	9.04ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 36 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
187	MECHANICAL-VOLUME	Micro Pipette	Using Standard Weights & Semi-micro balance and distilled water of known density as per Gravimetric method based on ISO 8655-6	1 ml to 10 ml	0.8 μ l
188	MECHANICAL-VOLUME	Micro Pipette	Using Standard Weights & Semi-micro balance and distilled water of known density as per Gravimetric method based on ISO 8655-6	10 μ l to 100 μ l	0.5 μ l
189	MECHANICAL-VOLUME	Micro Pipette	Using Standard Weights & Semi-micro balance and distilled water of known density as per Gravimetric method based on ISO 8655-6	100 μ l to 1000 μ l	0.6 μ l



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	37 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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	MECHANICAL-VOLUME	Pipettes & Burettes	Using Standard Weights & Semi-micro balance and distilled water of known density as per Gravimetric method based on ISO 4787	0.1 ml to 5 ml	1 μ l
191	MECHANICAL-VOLUME	Pipettes & Burettes	Standard Weights & Semi- micro balance and distilled water of known density as per Gravimetric method based on ISO 4787	5 ml to 100 ml	1.3 μ l
192	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance (Class 1 and coarser) Readability: 0.001 mg	Using Standard Weights of Class E1 as per Procedure based on OIML R76 (2006)	1 mg to 20 g	0.08mg
193	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance (Class I and coarser) Readability:0.01 mg	Using Standard Weights of Class F1 as per Procedure based on OIML R76 (2006)	0 to 80 g	0.08mg
194	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance,(Class 1 and coarser) Readability:0.01 mg	Using Standard Weights of Class E1 as per Procedure based on OIML R76 (2006)	1 mg to 200 g	0.09mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 38 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance,(Class 1 and coarser) Readability:0.1 mg	Using Standard Weights of F1 Class as per OIML R76 (2006)	0 to 200 g	0.13mg
196	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class II & Coarser) Readability:1 mg	Using Standard Weights of F1 Class Accuracy as per Oiml -R-76-1	0 to 1 kg	2.5mg
197	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class II & Coarser) Readability:100 mg	Using Standard Weights of F1 Class As per OIML-R-76-1	upto 5 kg	20mg
198	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class III & Coarser) Readability:1 g	Using Standard Weights F1 Class Accuracy as per OIML-R-76-1	upto 50 kg	4.1 g
199	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class IV & Coarser) Readability:1g	Using Standard Weight of F1 Class as per OIML-R-76-1	upto 100 kg	2g
200	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class IV & Coarser) Readability:20g	Using Standard Weight of F1 Class as per OIML-R-76-1	upto 200 kg	26g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 39 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
201	MECHANICAL-WEIGHTS	weights (M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability 0.2 g) by Substitution/ ABA Weighing cycle method as per OIML R 111	5 kg	0.12g
202	MECHANICAL-WEIGHTS	Weight(M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability 0.2 g) Substitution/ABA Weighing cycle method as per OIML R 111	1 kg	0.1g
203	MECHANICAL-WEIGHTS	Weight(M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance(readability 5 g)Substitution/ ABA Weighing cycle method as per OIML R 111	50 kg	6g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	40 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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-WEIGHTS	Weight(M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance(readability 0.2 g) Substitution/ ABA Weighing cycle method as per OIML R 111	500 g	0.1g
205	MECHANICAL-WEIGHTS	weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	1 mg	0.02mg
206	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.1mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	10 g	0.20mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2555

Page No

41 of 59

Validity

14/02/2023 to 13/02/2025

Last Amended on

24/07/2023

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)(±)
207	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.1mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	10 mg	0.02mg
208	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	100 mg	0.05mg
209	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111:	20 g	0.25mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	42 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
210	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	20 mg	0.03mg
211	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.1mg) by Substitution/ ABA Weighing cycle method as per OIML R 111 :	200 g	1.0mg
212	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	50 g	0.30mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	43 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
213	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	1 g	0.10mg
214	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	100 g	0.5mg
215	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111 :	2 g	0.12mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	44 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
216	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	2 mg	0.02mg
217	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111:	200 mg	0.06mg
218	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.1mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	5 g	0.16mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2555

Page No

45 of 59

Validity

14/02/2023 to 13/02/2025

Last Amended on

24/07/2023

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-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	5 mg	0.02mg
220	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	50 mg	0.04mg
221	MECHANICAL-WEIGHTS	Weights (F2 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability:0.01mg) by Substitution/ ABA Weighing cycle method as per OIML R 111	500 mg	0.08mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 46 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
222	MECHANICAL-WEIGHTS	Weights (M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability 5 g) by Substitution/ABA Weighing cycle method as per OIML R 111	10 kg	5g
223	MECHANICAL-WEIGHTS	Weights (M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability 0.2mg) by Substitution/ABA Weighing cycle method as per on OIML R 111	2 kg	0.1g
224	MECHANICAL-WEIGHTS	Weights (M1 class and coarser)	Using Standard Weights F1 Class & Precision Balance (readability 5 g) by Substitution/ABA Weighing cycle method as per OIML R 111	20 kg	5g
225	OPTICAL-EQUIPMENTS	Digital Lux meter	Using light chamber and calibrated illumination meter by comparison method	1 lx to 20000 lx	3.6%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 47 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
226	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator (Dial/Digital)/Thermo Hygrometer	Using Relative Humidity Sensor with Indicator, Humidity Generator by Comparison Method	10 %rh to 95 %rh @ 25°C	1.16%rh
227	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermohygrometer, Temperature indicator,Thermometer/Data logger/ Temperature Gauge With inbuilt Temperature Sensor	Using Digital Temperature and Humidity sensor with Indicator, Temperature chamber by comparison method:	10 °C to 50 °C @50%rh	0.82 °C
228	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouples with & without controller/Data Logger/recorder, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer with inbuilt sensor	Using RTD sensor with Indicator, 6 ½ DMM, Negative Temperature bath by Comparison method	(-)30°C to 50°C	0.21°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 48 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouples with & without controller/Data Logger/recorder, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer with inbuilt sensor	Using RTD sensor with Indicator, 6 ½ DMM, Oil bath by Comparison method	50°C to 300°C	0.62°C
230	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with & without controller/Data Logger/recorder, Digital Thermometer with inbuilt sensor	Using R Type Thermocouple With Indicator, 6½ DMM, Dry Block Furnace by Comparison Method	300°C to 600°C	1.5°C
231	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with & without controller/Data Logger/recorder, Digital Thermometer with inbuilt sensor	Using R Type Thermocouple With Indicator, 6½ DMM, Dry Block Furnace by Comparison Method	600°C to 1200°C	1.88 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 49 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac High Voltage @ 50 Hz	Using DMM with HV Probe by Direct Method	1 kV to 25 kV	0.1 kV to 1.7 kV
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using DMM with HV Probe by Direct Method	1 kV to 30 kV	0.11 kV to 1.2 kV
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100 type	Using Universal Calibrator by direct method	(-)-200°C to 850°C	0.40°C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by direct method	(-)-200°C to 1050°C	0.35°C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by direct method	0°C to 1300°C	0.46 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	50 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by direct method	0°C to 1750°C	0.57°C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by direct method	0 °C to 1750 °C	0.57 °C
8	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/ Tachometer(Non-Contact Type)	Using Digital Tachometer & RPM generator source by comparison Method	1000 rpm to 25000 rpm	0.68%
9	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by comparison Method	100 rpm to 1000 rpm	2.99%
10	MECHANICAL-ACCELERATION AND SPEED	Centrifuge	Using Digital Tachometer by comparison Method	1000 rpm to 25000 rpm	0.68 %
11	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator/ Tachometer(Non-Contact Type)	Using Digital Tachometer & RPM generator source by comparison Method:	100 rpm to 1000 rpm	2.99 %
12	MECHANICAL-ACOUSTICS	Sound Level meter (1 kHz)	Using Sound Level Calibrator by comparison method	94 dB & 114 dB	0.64dB



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 51 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge Thickness upto 10mm I-section Thickness 20mm & above (Straightness)	Using Surface Plate & Electronic Level by indirect method	up to 6000 mm	1x sqrt (L) μm, where L in m
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Electronic Level least count 0.001 mm/m By Grid Method	upto size (6000X4000) mm	0.2 x sqrt ((L+ W)/150) μm, Where L , W are in mm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration tester (L.C: 0.0001 mm)	Using Gauge block of Grade 00 by Comparison Method	0 to 25 mm	1 μm
16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Master(LC - 0.001mm)	Using Caliper Checker, Gauge Block ,Length Bars & Lever Dial gauge by Comparison Method	0 to 600 mm	3.5μm
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Height Gauge (L.C: 0.0001 mm)	Using Length Bars & Lever Dial Gauge by Comparison Method	upto 1000 mm	4.2μm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Angular Scale (LC: 1")	Using Angle gauge by Comparison Method	upto 90°	57.7Arc sec



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	52 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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)(±)
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification 10x, 20x,100x	Using Glass Scale, Standard wires & Vernier Caliper by Comparison Method	up to 100 x	0.17%
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector linear scale (L.C: 0.001 mm)	Using Glass Scale by Comparison Method	upto 300 mm	2.3µm
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Steel Scale/ tape Calibrator	Using Length bar by Comparison Method	upto 1000 mm	6.9µm
22	MECHANICAL-HARDNESS TESTING MACHINES	Hardness Rockwell Testing machines	Using Hardness Blocks Indirect Method as per IS :1586	20 HRC to 70 HRC	0.45 HRC
23	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Vacuum Gauge/ Indicator Vacuum Transducer, Vacuum Transmitter, Vacuum Switch.	Using Digital Vacuum Gauge & Vacuum pump, DMM Comparator Comparison method as per DKD- R-6-1	(-)0.95 bar to 0	0.006bar
24	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Dial Pressure Gauge/ Indicator. Pressure Transducer, Pressure Transmitter, Pressure Switch.	Digital Pressure Gauge & Comparator, DMM by Comparison method as DKD- R-6-1	0 to 10 bar	0.013bar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2555	Page No	53 of 59
Validity	14/02/2023 to 13/02/2025	Last Amended on	24/07/2023

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	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Digital/Dial Pressure Gauge/ Indicator. Pressure Transducer, Pressure Transmitter, Pressure Switch.	Using Digital Pressure Gauge & Comparator, DMM by Comparison as per DKD- R-6-1	10 bar to 700 bar	0.45bar
26	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing machine	Using Dynamometer (Class - 1) as per IS:1828	200 kN to 2000 kN	0.9%
27	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine	Using Proving Ring (Class 1) as per IS 1828	200 kN to 3000 kN	0.6%
28	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing machine	Using Dynamometer (Class- 0/1) as per IS:1828	50 kN to 1000 kN	0.5%



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 54 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
29	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile/ compression testing machines	Using Digital load cell class 0/1 as per IS 1828	0.5 N to 50 N	0.2%
30	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile/ Compression Testing machine	Using Digital Load Cell (class - 0/1) as per IS :1828	50 N to 50 kN	0.7%
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance (Class 1 and coarser) Readability: 0.001 mg	Using Standard Weights of Class E1 as per Procedure based on OIML R76 (2006)	1 mg to 20 g	0.08mg
32	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance (Class I and coarser) Readability:0.01 mg	Using Standard Weights of Class F1 as per Procedure based on OIML R76 (2006)	0 to 80 g	0.08mg
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance,(Class 1 and coarser) Readability:0.01 mg	Using Standard Weights of Class E1 as per Procedure based on OIML R76 (2006)	1 mg to 200 g	0.09mg



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 55 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital weighing balance,(Class 1 and coarser) Readability:0.1 mg	Using Standard Weights of F1 Class as per OIML R76 (2006)	0 to 200 g	0.13mg
35	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class II & Coarser) Readability:1 mg	Using Standard Weights of F1 Class Accuracy as per Oiml -R-76-1	0 to 1 kg	2.5mg
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class II & Coarser) Readability:100 mg	Using Standard Weights of F1 Class As per OIML-R-76-1	upto 5 kg	20mg
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class III & Coarser) Readability:1 g	Using Standard Weights F1 Class Accuracy as per OIML-R-76-1	upto 50 kg	4.1 g
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class IV & Coarser) Readability:1g	Using Standard Weight of F1 Class as per OIML-R-76-1	upto 100 kg	2g
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Machine (Class IV & Coarser) Readability:20g	Using Standard Weight of F1 Class as per OIML-R-76-1	upto 200 kg	26g



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 56 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
40	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator of Environmental/conditioning Chamber/Humidity chamber For (Non-Medical Purpose) (Single Position)	Using Relative Humidity Sensor with Indicator by comparison method	10 %rh to 95%rh @ 25°C	1.16%rh
41	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Incubator(Non-medical puprose only),BOD Incubator (Non-medical puprose only), Oven,Water bath, Temperature Furnace, Chamber, Auto clave (Non-medical puprose only)	Using Data Logger with RTD Sensors (Minimum 9 sensor) by Multi Position method	(-)30 °C to 50 °C	1 °C
42	THERMAL-TEMPERATURE	Incubator (Non-Medical Purpose) ,BOD Incubator (Non-Medical Purpose), Oven, Water bath, Temperature Furnace, Chamber, Auto clave (Non-Medical Purpose)	Using Data Logger with RTD Sensors (Minimum 9 Sensors) by Multi Position Method	50 °C to 300 °C	1°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 57 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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	THERMAL-TEMPERATURE	Oven, Chamber, Temperature Furnace, Industrial Furnace For (Non-Medical Purpose)	Using Data Logger with K-Type Sensors (Minimum 9 Sensors) by Multi Position Method	300 °C to 1200 °C	6.23°C
44	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Deep Freezer, Freezer, Incubator, BOD Incubator, Oven, Water bath, Temperature Furnace, Chamber, Auto clave For (Non Medical Purpose) (Single Position)	Using RTD sensor With Indicator By Comparison Method	(-)-80°C to 50°C	0.26°C
45	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Dry Block furnace , Muffle Furnace For (Non-Medical Purpose) (Single Position)	Using R Type Thermocouple with Indicator by Comparison method	300°C to 1200°C	1.88°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ
INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 58 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
46	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Incubator (Non-Medical Purpose), BOD Incubator (Non-Medical Purpose), Oven, Temperature Furnace, Temperature Chamber, Auto Clave (Non-Medical Purpose), Dry Block Furnace, Muffle Furnace (Single Position)	Using RTD sensor with Indicator by Comparison method	50°C to 300°C	0.65°C
47	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouples with & without controller/Data Logger/recorder, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer with inbuilt sensor	Using RTD sensor with Indicator, 6 ½ DMM, Negative Temperature bath by Comparison method	(-)-30°C to 50°C	0.21°C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BAGSON CALIBRATION LAB PVT LTD, B-14 DSIDC COMPLEX, PATPARGANJ INDUSTRIAL AREA, EAST, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2555 **Page No** 59 of 59

Validity 14/02/2023 to 13/02/2025 **Last Amended on** 24/07/2023

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)(±)
48	THERMAL-TEMPERATURE	Temperature Transmitter, RTD, Thermocouples with & without controller/Data Logger/recorder, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer with inbuilt sensor	Using RTD sensor with Indicator, 6 ½ DMM, Oil bath by Comparison method	50°C to 300°C	0.62°C
49	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with & without controller/Data Logger/recorder, Digital Thermometer with inbuilt sensor	Using R Type Thermocouple With Indicator, 6½ DMM, Dry Block Furnace by Comparison Method	300°C to 600°C	1.5°C
50	THERMAL-TEMPERATURE	Temperature Transmitter, Thermocouples with & without controller/Data Logger/recorder, Digital Thermometer with inbuilt sensor	Using R Type Thermocouple With Indicator, 6½ DMM, Dry Block Furnace by Comparison Method	600°C to 1200°C	1.88 °C

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