National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	1 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.25 % to 0.27 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.46 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1000 µA	1.35 % to 0.46 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.17 % to 0.25 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	2 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	5.8 % to 0.13 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 750 V	0.11 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using Multifunction Calibrator with Current Coil (100 Turns) by Direct Method	100 A to 1000 A	1.26 % to 1.33 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.2 % to 0.19 %

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 3 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.8 % to 0.08 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 1000 µA	3 % to 0.8 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.08 % to 0.2 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 1000 kohm	0.01 % to 0.08 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.08 % to 0.94 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1000 ohm	0.5 % to 0.01 %

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 4 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.3 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.75 % to 0.3 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	1.5 % to 0.04 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.3 % to 1.5 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using Multi Function Calibrator, Current Coil (100 Turns) by Direct Method	100 A to 1000 A	1 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 kohm to 10 kohm	1.2 % to 1.54 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	5 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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 (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	1 ohm to 1 kohm	1.85 % to 1.2 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	1.54 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 1000 kohm	1.54 % to 2.9 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using H.V. Mega Ohm Box by Direct Method	2 Mohm	4.1 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using H.V. Mega Ohm Box by Direct Method	20 Mohm	2.4 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 2 Wire	Using H.V. Mega Ohm Box by Direct Method	200 Mohm	3 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	6 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	1 mohm to 100 mohm	8.5 % to 2.2 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance - 4 Wire	Using Standard Resistance Box by Direct Method	100 mohm to 1 ohm	2.2 % to 1.85 %
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - (PT - 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 600 °C	0.87 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	50 °C to 750 °C	0.92 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	50 °C to 1300 °C	1.24 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1700 °C	1.62 °C

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 7 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1700 °C	1.96 °C
35	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Direct method	1 s to 3600 s	5.33 % to 2.44 %
36	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 999.9 Hz	0.58 % to 0.3 %
37	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non Contact Type	Using Digital Tachometer by Direct Method	100 rpm to 2000 rpm	1.8 %
38	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non Contact Type	Using Digital Tachometer by Direct Method	2000 rpm to 38000 rpm	0.5 %
39	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	1.8 %
40	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Non Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 2000 rpm	1.8 %

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 8 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Non Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	2000 rpm to 38000 rpm	0.5 %
42	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	1.1 dB
43	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1kHz	Using Sound Level Calibrator by Direct Method	114 dB	1.1 dB
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Industrial Use)	Using Profile Projector by Direct Method	0° - 90° - 0°	16 minute of arc
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor / Combination Set (L.C. 1°)	Using Angle Gauge Set by Comparison Method	0° to 180°	40 minute of arc
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 1 minute of arc)	Using Angle Gauge Set by Comparison Method	0° to 180°	6 minute of arc

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	9 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error	Using Dial Indicator (L.C. 0.001 mm), Slip Gauge Set & Comparator Stand by Comparison Method	Up to 1 mm	4 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Digital / Dial / Vernier (L.C.: 0.01 mm)	Using Caliper Checker, Slip Gauge Set by Comparison Method	0 to 600 mm	14 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C : 0.1 µm)	Using Standard Thickness Foil by Comparison Method	10 µm to 49 µm	1.5 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. 0.1/1 µm)	Using Standard Thickness Foil by Comparison Method	> 1170 µm to 1650 µm	2.23 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. 0.1/1 µm)	Using Standard Thickness Foil by Comparison Method	> 49 µm to 1170 µm	1.75 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	10 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Slip Gauge and Surface Plate Set by Comparison Method	0 to 200 mm	12 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set and Surface Plate by Comparison Method	0 to 200 mm	3 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Inside Caliper (L.C.: 0.001 mm or coarser)	Using Slip Gauge Set & Slip Gauge Accessories by Comparison Method	5 mm to 90 mm	1.9 µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (L.C. 0.001 mm)	Using Slip Gauge Set by Comparison Method	3 mm to 100 mm	2.5 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 1 mm	1 µm

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 11 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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)(±)
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	8 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	2 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 150 mm	3 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	Up to 1 mm	3 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gear Tooth Vernier (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 40 mm	16 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	12 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker, Lever Dial Gauge, Granite Surface Plate by Comparison Method	0 to 600 mm	14 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Digital / Analog (L.C.: 0.001 mm)	Using Slip Gauge Set, Slip Gauge Accessories by Comparison Method	5 mm to 50 mm	2.1 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set, Comparator Stand by Comparison Method	0 to 0.14 mm	3.6 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm)	Using Slip Gauge Set, Comparator Stand by Comparison Method	0 to 0.2 mm	3 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set, Comparator Stand by Comparison Method	0 to 1 mm	8 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	13 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	10 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge Set, Dial Indicator, Comparator Stand by Comparison Method	1 mm to 150 mm	4 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Slip Gauge Set, Comparator Stand by Comparison Method	0 to 25 mm	3.6 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Direct Method	1 mm to 40 mm	7.6 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge - Adjustable / Fixed	Using Slip Gauge Set by Comparison Method	3 mm to 100 mm	2.5 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	14 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template Gauge - Angular	Using Profile Projector by Direct Method	0° - 90° - 0°	16 minute of arc
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template Gauge - Linear	Using Profile Projector by Direct Method	Up to 100 mm	4 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture size only)	Using Profile Projector by Direct Method	0.02 mm to 4 mm	6 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Direct Method	Up to 60°	16.4 minute of arc
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Linear	Using Profile Projector by Direct Method	0.2 mm to 6 mm	6.7 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	15 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer (L.C.: 0.001 mm)	Using Plain Ring Gauges Set by Comparison Method	6 mm to 50 mm	4.1 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Anvil Micrometer (L.C.: 0.001 mm)	Using Plain Plug Gauge Set by Comparison Method	5 mm to 50 mm	5.8 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Flatness	Using Lever Dial Gauge, Comparator Stand by Comparison Method	Up to (150 X 100) mm	9 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Parallelism	Using Test Mandrel, Lever Dial Gauge, Comparator Stand by Comparison Method	Up to (150 X 100) mm	9 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V - Block - Symmetry	Using Test Mandrel, Lever Dial Gauge, Comparator Stand by Comparison Method	Up to (150 X 100) mm	9 µm

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	16 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge, Fillet Gauge - Angle (L.C. 2°)	Using Profile Projector by Direct Method	0° to 60°	16 minute of arc
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge, Fillet Gauge - Linear (L.C.: 1 mm)	Using Profile Projector by Direct Method	0 to 60 mm	120 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.025 mm to 10.16 mm	5.1 µm
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 30 second of arc)	Using Angle Gauge Set by Comparison Method	0° to 360°	45 second of arc
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	Up to 150 mm	4.5 µm
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge, Digital Caliper by Comparison Method	10 X to 50 X	0.2 %

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 17 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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)(±)
88	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 5 mg)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 210 g	3.6 mg
89	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 30 kg	2 g
90	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 10 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 100 kg	24.3 g
91	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 5 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 60 kg	7.6 g
92	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental / Humidity Chamber - Single Position @ 25 °C	Using Temperature and RH Indicator with Sensor by Comparison Method	20 % RH to 90 % RH	2.9 % RH

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	18 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
93	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental / Humidity Chamber - Single Position @ 50 %RH	Using Digital Temperature and RH Meter with Sensor by Comparison Method	10 °C to 50 °C @ 50 %RH	1.2 °C
94	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Controller / Indicator with Sensor, Digital Thermo - Hygrometer @ 25 °C	Using Digital Thermo - Hygrometer, Temperature and Humidity Generator Chamber by Comparison Method	20 % RH to 90 % RH	3.3 % RH
95	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Controller / Indicator with Sensor, Digital Thermo - Hygrometer @ 50 % RH	Using Digital Thermo - Hygrometer, Temperature and Humidity Generator Chamber by Comparison Method	10 °C to 50 °C	1.34 °C
96	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Freezer, Cooling Chamber, Liquid Bath - Single Position	Using RTD Sensor with Digital Indicator by Comparison Method	(-) 80 °C to 50 °C	0.9 °C
97	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	500 °C to 1200 °C	4.1 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	19 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
98	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Chamber, Furnace - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	250 °C to 500 °C	2.9 °C
99	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Liquid Bath, Furnace, Chamber - Single Position	Using RTD Sensor with Digital Indicator by Comparison Method	50 °C to 250 °C	0.86 °C
100	THERMAL-TEMPERATURE	IR Thermometer, Temperature Laser Gun, Pyrometer (Emissivity 0.98)	Using Pyrometer and Black Body Furnace by Comparison Method	30 °C to 500 °C	4.2 °C
101	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Digital Indicator and Liquid Bath by Comparison method	(-) 10 °C to 50 °C	1.6 °C
102	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Digital Indicator and Oil Bath by Comparison method	50 °C to 250 °C	1.6 °C
103	THERMAL-TEMPERATURE	RTD with or without Indicator / Controller / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Negative Bath by Comparison Method	(-) 11 °C to 50 °C	0.6 °C

SCOPE OF ACCREDITATION

Laboratory Name : BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0926PB04967 **Page No** 20 of 31

Validity 29/07/2026 to 28/07/2030 **Last Amended on** 08/09/2026

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)(±)
104	THERMAL-TEMPERATURE	RTD with or without Indicator / Controller / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Liquid Bath by Comparison Method	(-) 80 °C to (-) 11 °C	0.9 °C
105	THERMAL-TEMPERATURE	RTD, Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Oil Bath by Comparison Method	50 °C to 250 °C	0.6 °C
106	THERMAL-TEMPERATURE	Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using S Type Thermocouple with Digital Indicator, 6½ DMM & Dry Block Bath by Comparison Method	250 °C to 500 °C	2.9 °C
107	THERMAL-TEMPERATURE	Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using S Type Thermocouple with Digital Indicator, 6½ DMM & Dry Block Bath by Comparison Method	500 °C to 1200 °C	4.1 °C
108	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Controller / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Negative Bath by Comparison Method	30 °C to 50 °C	0.6 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	21 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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 Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.25 % to 0.27 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.46 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 µA to 1000 µA	1.35 % to 0.46 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.17 % to 0.25 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	22 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	5.8 % to 0.13 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 V to 750 V	0.11 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.2 % to 0.19 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.8 % to 0.08 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	23 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	10 µA to 1000 µA	3 % to 0.8 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 1 A	0.08 % to 0.2 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 1000 kohm	0.01 % to 0.08 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 100 Mohm	0.08 % to 0.94 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	1 ohm to 1000 ohm	0.5 % to 0.01 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance - 2 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.94 % to 2.3 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	24 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	0.75 % to 0.3 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	1.5 % to 0.04 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.3 % to 1.5 %
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - (PT - 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 600 °C	0.87 °C
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Universal Calibrator by Direct Method	50 °C to 750 °C	0.92 °C
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Universal Calibrator by Direct Method	50 °C to 1300 °C	1.24 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	25 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Universal Calibrator by Direct Method	200 °C to 1700 °C	1.62 °C
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Universal Calibrator by Direct Method	200 °C to 1700 °C	1.96 °C
24	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer Calibrator by Direct method	1 s to 3600 s	5.33 % to 2.44 %
25	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multifunction Calibrator by Direct Method	45 Hz to 999.9 Hz	0.58 % to 0.3 %
26	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non Contact Type	Using Digital Tachometer by Direct Method	100 rpm to 2000 rpm	1.8 %
27	MECHANICAL-ACCELERATION AND SPEED	Centrifuge - Non Contact Type	Using Digital Tachometer by Direct Method	2000 rpm to 38000 rpm	0.5 %
28	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	1.8 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	26 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Non Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 2000 rpm	1.8 %
30	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM Meter with Sensor - Non Contact Type	Using Digital Tachometer and RPM Source by Comparison Method	2000 rpm to 38000 rpm	0.5 %
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level by Direct Method	Up to (4000 X 1000) mm	1.75 x Sqrt {(L+W)/125} µm, where L & W are in mm
32	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle (L.C.: 1 second of arc)	Using Angle Gauge Set by Comparison Method	0° to 360°	45 second of arc
33	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	Up to 150 mm	4.5 µm
34	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip Gauge, Digital Caliper by Comparison Method	10 X to 50 X	0.2 %

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	27 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
35	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital : Pressure Gauge, Pressure Transducer with Indicator - Hydraulic Pressure	Using Digital Pressure Gauge, Pressure Comparator by Comparison Method as per DKD - R 6 - 1	0 to 700 bar	0.7 bar
36	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Hydraulic Pressure Gauge	Using Digital Pressure Gauge, Pressure Comparator by Comparison Method as per DKD - R 6 - 1	0 to 40 bar	0.1 bar
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 5 mg)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 210 g	3.6 mg
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 30 kg	2 g
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 10 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 100 kg	24.3 g

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	28 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class IIII (Readability: 5 g)	Using F1 Class Weights by Comparison Method as per OIML R - 76 - 1	0 to 60 kg	7.6 g
41	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental / Humidity Chamber - Single Position @ 25 °C	Using Temperature and RH Indicator with Sensor by Comparison Method	20 % RH to 90 % RH	2.9 % RH
42	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Environmental / Humidity Chamber - Single Position @ 50 %RH	Using Digital Temperature and RH Meter with Sensor by Comparison Method	10 °C to 50 °C @ 50 %RH	1.2 °C
43	THERMAL-TEMPERATURE	Deep Freezer, Cooling Chamber, Liquid Bath - Multi Position (Minimum 9 Sensors)	Using RTD Sensors with Data Logger by Comparison Method	(-) 75 °C to 0 °C	3.5 °C
44	THERMAL-TEMPERATURE	Freezer, Oven, Chamber, Liquid Bath - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Data Logger by Comparison Method	(-) 10 °C to 50 °C	3.2 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	29 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
45	THERMAL-TEMPERATURE	Furnace - Multi Position (Minimum 9 Sensors)	Using N - Type Thermocouples with Data Logger by Comparison Method	250 °C to 1000 °C	7.07 °C
46	THERMAL-TEMPERATURE	Indicator with Sensor of Deep Freezer, Freezer, Cooling Chamber, Liquid Bath - Single Position	Using RTD Sensor with Digital Indicator by Comparison Method	(-) 80 °C to 50 °C	0.9 °C
47	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	500 °C to 1200 °C	4.1 °C
48	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Chamber, Furnace - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	250 °C to 500 °C	2.9 °C
49	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Liquid Bath, Furnace, Chamber - Single Position	Using RTD Sensor with Digital Indicator by Comparison Method	50 °C to 250 °C	0.86 °C
50	THERMAL-TEMPERATURE	IR Thermometer, Temperature Laser Gun, Pyrometer (Emissivity 0.98)	Using Pyrometer and Black Body Furnace by Comparison Method	30 °C to 500 °C	4.2 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	30 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
51	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Digital Indicator and Oil Bath by Comparison Method	110 °C to 250 °C	1.6 °C
52	THERMAL-TEMPERATURE	Oven, Chamber, Liquid Bath - Multi Position (Minimum 9 Sensors)	Using RTD Sensors with Data Logger by Comparison Method	50 °C to 250 °C	2.8 °C
53	THERMAL-TEMPERATURE	RTD with or without Indicator / Controller / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Negative Bath by Comparison Method	(-) 11 °C to 50 °C	0.6 °C
54	THERMAL-TEMPERATURE	RTD, Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Oil Bath by Comparison Method	50 °C to 250 °C	0.6 °C
55	THERMAL-TEMPERATURE	Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using S Type Thermocouple with Digital Indicator, 6½ DMM & Dry Block Bath by Comparison Method	250 °C to 500 °C	2.9 °C

SCOPE OF ACCREDITATION

Laboratory Name :	BSM INSTRUMENTS, S.C.O. NO. 13, G.K. ESTATES, MUNDIAN KALAN, LUDHIANA, LUDHIANA, PUNJAB, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	NABLC0926PB04967	**Page No**	31 of 31
Validity	29/07/2026 to 28/07/2030	**Last Amended on**	08/09/2026

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)(±)
56	THERMAL-TEMPERATURE	Thermocouple with or without Controller / Indicator / Logger / Recorder / Scanner	Using S Type Thermocouple with Digital Indicator, 6½ DMM & Dry Block Bath by Comparison Method	500 °C to 1200 °C	4.1 °C
57	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Controller / Logger / Recorder / Scanner	Using RTD Sensor with Digital Indicator, 6½ DMM and Negative Bath by Comparison Method	30 °C to 50 °C	0.6 °C

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