



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SHREE BALAJI TEST HOUSE PRIVATE LIMITED (CALIBRATION DIVISION), FCA 560, CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

1 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	> 1000 rpm to 5000 rpm	7.5 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	100 rpm to 1000 rpm	2.5 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	> 50000 rpm to 90000 rpm	46 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard digital tachometer & RPM source by Comparison method	> 100 rpm to 1000 rpm	3.2 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	> 1000 rpm to 5000 rpm	6.2 rpm
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	> 10000 rpm to 50000 rpm	30 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Standard Digital Tachometer & RPM Source by Comparison Method	10 rpm to 100 rpm	1.5 rpm



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

2 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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8	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB & 114 dB	0.9 dB
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	14 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Digital / Dial (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	14 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Height	Using Digital Vernier Caliper by Comparison Method	50 mm to 150 mm	0.06 mm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Length	Using Digital Vernier Caliper by Comparison Method	50 mm to 150 mm	0.06 mm



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

3 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould - Width	Using Digital Vernier Caliper by Comparison Method	50 mm to 150 mm	0.06 mm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge Plunger Type (L.C.: 0.01 mm)	Using Dial Calibrator Tester by Comparison Method	0 to 25 mm	6.09 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Vernier Caliper by Comparison Method	4.83 mm to 100 mm	45 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method as per IS 2967	0 mm to 25 mm	0.85 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method as per IS 2967	0 to 100 mm	5.8 µm



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

4 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Comparison Method	0.02 mm to 2 mm	5 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	4.83 mm to 100 mm	0.045 mm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	14.1 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method as per IS 1481	0 to 1000 mm	290 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape, Circumference Tape, Pie Tape (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method as per IS 1269	0 to 50 m	80 x Sqrt (L) µm, where L is in mm



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

5 of 18

Validity

04/11/2024 to 03/11/2028

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-

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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer Scale (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0 to 400 mm	55 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 mm to 25 mm	6 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Diameter	Using Digital Vernier Caliper by Comparison Method	100 mm to 200 mm	0.3 mm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone - Length	Using Digital Vernier Caliper by Comparison Method	Up to 300 mm	300 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method as per IS 1481	0 to 300 mm	290 µm



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SCOPE OF ACCREDITATION

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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

6 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve - Aperture Size	Using Vernier Caliper by Comparison Method	3.35 mm to 120 mm	0.012 mm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve - Aperture Size	Using Profile Projector by Comparison Method	0.045 mm to 3.35 mm	5 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Apparatus Scale (L.C.: 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50 mm	29 µm
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT with Indicator (L.C.: 0.001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 25 mm	5 µm
32	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT with Indicator (L.C.: 0.001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 50 mm	5.78 µm



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SCOPE OF ACCREDITATION

Laboratory Name :

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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

7 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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33	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge - Hydraulic Medium	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD R-6-1	0 to 70 bar	0.08 bar
34	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Pressure Gauge - Hydraulic Medium	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD R-6-1	0 to 700 bar	0.5 bar
35	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital - Vacuum Gauge - Pneumatic Medium	Using Digital Vacuum Gauge, Pneumatic Comparator Pump by Comparison Method as per DKD R-6-1	(-) 0.7 bar to 0 bar	0.007 bar
36	MECHANICAL-VOLUME	Blaine Cell Volume	Using E2 Class Weights & Precision Balance (Readability : 0.1 mg) by Gravimetric Method as per IS 4031-2	1.5 ml to 2 ml	0.017 ml



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SCOPE OF ACCREDITATION

Laboratory Name :

SHREE BALAJI TEST HOUSE PRIVATE LIMITED (CALIBRATION DIVISION), FCA 560,
CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

8 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
37	MECHANICAL-VOLUME	Burette	Using Digital Balance (Readability : 0.1 mg), Distilled Water of known Density by Gravimetric Method as per ISO 4787:2021	1 ml to 50 ml	0.03 ml
38	MECHANICAL-VOLUME	Glass Pipette	Using Digital Balance (Readability : 0.1 mg), Distilled Water of known Density by Gravimetric Method as per ISO 4787:2021	0.1 ml to 10 ml	0.02 ml
39	MECHANICAL-VOLUME	Measuring Cylinder - Graduated	Using Digital Weighing Balance (Readability : 0.001 g) by Gravimetric Method as per ISO 4787:2021	10 ml to 500 ml	0.8 ml
40	MECHANICAL-VOLUME	Measuring Cylinder, Jar, Volumetric Flask	Using Digital Weighing Balance (Readability : 0.001 g) by Gravimetric Method as per ISO 4787:2021	100 ml to 500 ml	0.8 ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

9 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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41	MECHANICAL-VOLUME	Pipette	Using Digital Balance (Readability : 0.1 mg), Distilled Water of known Density by Gravimetric Method as per ISO 4787:2021	0.1 ml to 50 ml	0.02 ml
42	MECHANICAL-VOLUME	Serological Glass Pipette	Using Digital Balance (Readability : 0.1 mg), Distilled Water of known Density by Gravimetric Method as per ISO 4787:2021	1 ml to 10 ml	0.02 ml
43	MECHANICAL-VOLUME	Volumetric Flask, Jar - Single Point	Using Digital Balance (Readability : 0.1 mg), Distilled Water of known Density by Gravimetric Method as per ISO 4787:2021	100 ml to 200 ml	0.8 ml
44	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	1 g	0.03 mg



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

10 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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45	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	10 g	0.04 mg
46	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.1 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	100 g	0.1 mg
47	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	2 g	0.03 mg
48	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	20 g	0.04 mg



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

11 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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49	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.1 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	200 g	0.19 mg
50	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	200 mg	0.017 mg
51	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	5 g	0.03 mg
52	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	50 g	0.04 mg



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Laboratory Name :

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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

12 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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53	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	50 mg	0.012 mg
54	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	500 mg	0.017 mg
55	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Weight & Semi Micro Balance (Readability : 0.01 mg) by Substitution Method (ABA Cycle) as per OIML R 111-1	100 mg	0.017 mg
56	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weight & Weighing Balance (Readability : 0.01 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	1 kg	16 mg



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

13 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
57	MECHANICAL-WEIGHTS	Accuracy Class M1 & Coarser	Using F1 Class Weight & Weighing Balance (Readability : 0.01 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	2 kg	0.021 g
58	MECHANICAL-WEIGHTS	Accuracy Class M2 & Coarser	Using F1 Class Weight & Weighing Balance (Readability : 0.01 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	500 g	10 mg
59	MECHANICAL-WEIGHTS	Accuracy Class M3	Using F1 Class Weight & Weighing Balance (Readability : 1 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	10 kg	0.88 g
60	MECHANICAL-WEIGHTS	Accuracy Class M3	Using F1 Class Weight & Weighing Balance (Readability : 1 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	20 kg	1.3 g



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CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

14 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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61	MECHANICAL-WEIGHTS	Accuracy Class M3	Using F1 Class Weight & Weighing Balance (Readability : 0.2 g) by Substitution Method (ABA Cycle) as per OIML R 111-1	5 kg	0.33 g
62	THERMAL-TEMPERATURE	Digital Thermometer	Using Digital Temperature Indicator with RTD Sensor, Dry Block by Comparison Method	40 °C to 240 °C	1.95 °C
63	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using Digital Temperature Indicator with RTD Sensor & Oil Bath by Comparison Method	40 °C to 240 °C	1.95 °C
64	THERMAL-TEMPERATURE	RTD with Indicator	Using Digital Temperature Indicator with RTD Sensor, Oil Bath by Comparison Method	20 °C to 140 °C	0.86 °C



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

15 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Bitumen Extractor Machine - Non Contact Type	Using Digital Tachometer by Comparison Method	2400 rpm to 3600 rpm	9.1 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Los Angles Machine	Using Standard Digital Tachometer by Direct Method	34 rpm	1.21 rpm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer Scale (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0 to 400 mm	55 µm
4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Test Block by Indirect Method as per IS 1500-2 : 2021, ISO 6506-2 : 2017	HBW 10/3000	3.5 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1586-2 : 2018, ISO 6508-2 : 2015	HRA	1.62 HRA



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

16 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

-

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6	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1586-2 : 2018, ISO 6508-2 : 2015	HRBW	1.9 HRBW
7	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Test blocks by Indirect Method as per IS 1586-2 : 2018, ISO 6508-2 : 2015	HRC	0.96 HRC
8	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, Universal Testing Machine, Flexural Testing Machine - Compression Mode	Using Force Proving Rings & Load Cells with Indicators by Comparison Method as per IS 1828-1 : 2022	10 kN to 2000 kN	0.7 %
9	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine, UTM - Compression Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828-1 : 2022	0.5 kN to 50 kN	0.65 %
10	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Rubber Testing Machine, Universal Testing Machine - Tension Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828-1 : 2022	0.5 kN to 70 kN	1.66 %



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

17 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

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11	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine, UTM - Tension Mode	Using Load Cell with Indicator by Comparison Method as per IS 1828-1 : 2022	0.5 kN to 50 kN	0.65 %
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E2 Class Weights by Comparison Method as per OIML R 76-1	0 to 200 g	0.3 mg
13	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.01 g)	Using E2 and F1 Class Weights by Comparison Method as per OIML R 76-1	0 to 3 kg	60 mg
14	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	4 g
15	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	25 g
16	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Indicator with Sensor of Chamber - Single Point @ 50 %RH	Using Digital Thermo Hygrometer with Sensor by Comparison Method	21 °C to 50 °C	2.74 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SHREE BALAJI TEST HOUSE PRIVATE LIMITED (CALIBRATION DIVISION), FCA 560,
CHAWLA COLONY, BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-4098

Page No

18 of 18

Validity

04/11/2024 to 03/11/2028

Last Amended on

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17	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Temperature Indicator with Sensor of Chamber - Single Point @ 25°C	Using Digital Thermo Hygrometer with Sensor by Comparison Method	30 % RH to 90 % RH	5.2 % RH
18	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace - Single Position	Using S Type Thermocouple with Digital Indicator by Comparison Method	200 °C to 1100 °C	3.98 °C
19	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Oven, Curing Tank - Single Position	Using Digital Temperature Indicator with RTD (PT 100) Sensor by Comparison Method	(-) 22 °C to 300 °C	1.8 °C

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