



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-2417 **Page No** 1 of 16

Validity 28/07/2022 to 27/07/2024 **Last Amended on** 17/08/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Ultrasonic Pulse Velocity Machine (Velocity)	UPV reference block by direct Method	1000 m/s to 6000 m/s	15.6m/s
2	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Ultrasonic Pulse Velocity Machine(Transit Time)	Using Standard UPV Block by direct Method	20 µs to 100 µs	0.28µs
3	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Fine Particulate Sampler	Using Low Flow calibrator by Comparison Method	12 LPM to 18 LPM	8.42%
4	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Respirable Dust Sampler	Using Top Loading Calibrator by comparison method as per USEPA IO 2.1 method	0.6 m ³ /min to 1.4 m ³ /min	2.1%
5	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Rotameter gaseous attachment sampler	Using Low Flow Calibrator by Comparison Method	0.025 m ³ /hr to 2.5 m ³ /hr	6.74%
6	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using RPM Calibrator by Comparison Method:	3000 rpm to 5000 rpm	87 rpm



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7	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact Type)	Using RPM Calibrator by Comparison Method	500 rpm to 3000 rpm	17rpm
8	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact Type)	Using RPM Calibrator by Comparison Method	5000 rpm to 90000 rpm	103 rpm
9	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison Method	94 dB to 114 db @1kHz	0.6dB
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould (150 x 150 x 150)	Using Digital Vernier Caliper by Comparison Method	150 mm	0.080mm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould (70.6 x 70.6 x 70.6)	Using Digital Vernier Caliper with Comparison Method	70.6 mm	0.080mm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (L.C.: 0.002 mm & 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	9µm



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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probes/ LVDT with Digital Indicators LC 0.001 mm	Using Slip Gauge Set & Comparator Stand with Comparison Method	0 to 10 mm	5µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge & Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	4.83 mm to 100 mm	45µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker & Grade '0' Surface Plate by Comparison Method	0 to 600 mm	14.1 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale LC 1 mm	Using Tape & Scale Calibrator As per IS 1481 By comparison Method	0 to 1000 mm	290µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape LC 1 mm	Using Tape & Scale Calibrator as per IS 1269 By Comparison Method	0 to 50 mtr.	290µm



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18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer LC 0.001 mm	Using Slip Gauge Set by Comparison Method as per IS 2967	0 mm to 25 mm	0.85µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer Scale	Using Slip Gauge Set by Comparison Method	0 to 400 1/10 mm	55µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone	Using Digital Vernier Caliper by Comparison Method	0 to 300 mm	300µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	Using Tape & Scale Calibrator As per IS 1481 by Comparison Method	0 mm to 300 mm	290µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Vernier Caliper by Comparison Method	3.35 mm to 120 mm	25µm



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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Profile Projector by Comparison Method	0.045 mm to 3.35 mm	5 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Digital / Dial (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	14µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Digital / Dial (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	14.29 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat Apparatus Scale/ Slump Cone scale & rod	Using Tape & Scale Calibrator by Comparison Method	0 to 1000 mm	290µm
27	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Digital Pressure Gauge	Using Digital Pressure Gauge with Hydraulic Comparator Pump	0 to 70 bar	0.080bar



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28	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial / Digital)	Using Digital Pressure Gauge with Hydraulic Comparator Pump	0 to 700 bar	0.5bar
29	MECHANICAL-VOLUME	Blaine Cell Volume	Using E2 Class Standard Weights & Precision Balance (readability: 0.1 mg) as per IS 4031 (Part-2) by Gravimetric Method	1.5 to 2 cm ³	0.017 cm ³
30	MECHANICAL-VOLUME	Burette	Using E2 Class Standard Weights, Precision Balance (readability: 0.1 mg) & Distilled Water of known density as per IS 4787: 2010 by Gravimetric Method	50 ml	0.03ml
31	MECHANICAL-VOLUME	Pipette	Using E2 Class Standard Weights, Precision Balance & Distilled Water of known density as per IS 4787: 2010 by Gravimetric method	50 ml	0.02ml



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32	MECHANICAL-VOLUME	Serological Glass Pipette (Class A)	Using E2 Class Standard Weights, Precision Balance (readability: 0.1 mg) & Distilled Water of known density as per IS 4787: 2010 by Gravimetric Method	10 ml	0.02ml
33	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1,E2 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1.	1 g	0.18mg
34	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance resolution 0.01g by ABA Method as per OIML R111-1	1 kg	0.032g
35	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1, E2 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1	10 g	0.15mg



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36	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1	100 g	0.2mg
37	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1, E2 Class Weight & Weighing Balance 0.1 mg by ABA Method as per OIML R111-1	2 g	0.15mg
38	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance resolution 0.01g by ABA Method as per OIML R111-1	2 kg	0.021g
39	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1, E2 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1	20 g	0.3mg
40	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1	200 g	0.0082g



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41	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance 0.1 mg by ABA Method as per OIML R111-1	5 g	0.20mg
42	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1, E2 Class Weight & Weighing Balance resolution 0.1mg by ABA Method as per OIML R111-1	50 g	0.2mg
43	MECHANICAL-WEIGHTS	Weight M1 class and coarser	Using F1 Class Weight & Weighing Balance by ABA Method as per OIML R-1	500 g	0.03g
44	MECHANICAL-WEIGHTS	Weight M3 class and coarser	Using F1 Class Weight & Weighing Balance resolution 1g by ABA Method as per OIML R111-1	10 kg	0.88g
45	MECHANICAL-WEIGHTS	Weight M3 class and coarser	Using F1 Class Weight & Weighing Balance resolution 1g by ABA Method as per OIML R111-1	20 kg	1.3g



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46	MECHANICAL-WEIGHTS	Weight M3 class and coarser p	Using F1 Class Weight & Weighing Balance resolution 1g by ABA Method as per OIML R111-1	5 kg	0.33g
47	MECHANICAL-WEIGHTS	Weights M1 class and coarser	Using F1, E2 class weights & precision weighting balance with least count 0.1 mg, by ABA method	100 mg	0.22mg
48	MECHANICAL-WEIGHTS	Weights M1 class and coarser	Using F1, E2 class weights & precision weighting balance with least count 0.1 mg, by ABA method	200 mg	0.19mg
49	MECHANICAL-WEIGHTS	Weights M1 class and coarser	Using F1, E2 class weights & precision weighting balance with least count 0.1 mg, by ABA method	50 mg	0.19mg
50	MECHANICAL-WEIGHTS	Weights M1 class and coarser	Using F1, E2 class weights & precision weighting balance with least count 0.1 mg, by ABA method	500 mg	0.33mg



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51	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity - Temperature Indicator with Sensor of Chamber/ Thermo-Hygrometer with sensors	Calibration with Thermo-Hygrometer with Comparison Method	21 °C to 50 °C @50%rh	1.4°C
52	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber/ Thermo-Hygrometer with sensors	Calibration with Thermo-Hygrometer with Comparison Method	21 °C to 50 °C @50%rh	1.1°C
53	THERMAL-TEMPERATURE	Ambient & Filter Temperature Sensor of Fine Particulate Sampler	Using Digital Temperature Indicator with RTD/PT-100 Sensors by Comparison Method:	10 °C to 50 °C	0.91 °C
54	THERMAL-TEMPERATURE	Temperature Indicator with Sensor, Digital Thermometer, Glass Thermometer	Using Digital Temperature Indicator with RTD Sensor & Oil Bath/Dry Block by Comparison Method	40 °C to 240 °C	1.95°C
55	THERMAL-TEMPERATURE	Temperature Indicator with Sensor, Glass Thermometer	Using Digital Temperature Indicator with RTD Sensor, Oil Bath/Dry Block by Comparison Method	20 °C to 140 °C	0.86°C



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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Fine Particulate Sampler	Using Low Flow calibrator by Comparison Method	12 LPM to 18 LPM	8.42%
2	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Respirable Dust Sampler	Using Top Loading Calibrator by comparison method as per USEPA IO 2.1 method	0.6 m ³ /min to 1.4 m ³ /min	2.1%
3	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate of Rotameter gaseous attachment sampler	Using Low Flow Calibrator by Comparison Method	0.025 m ³ /hr to 2.5 m ³ /hr	6.74%
4	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator	Using Digital Tachometer (Non Contact Type/Contact Type) by Comparison Method	11600 rpm to 12400 rpm	86 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator	Using Digital Tachometer (Non Contact Type/Contact Type) by Comparison Method	500 rpm to 25000 rpm	86 rpm
6	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison Method	94 dB to 114 db @1kHz	0.6dB



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer Scale	Using Slip Gauge Set by Comparison Method	0 to 400 1/10 mm	55µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone	Using Digital Vernier Caliper by Comparison Method	0 to 300 mm	300µm
9	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machine / UTM/ FTM/ BTM/ Hydraulic Jack Fitted in frames with indicator in Compression Mode (Class 1)	Using Force Proving Rings & Load Cells with Digital Indicators as per IS 1828 Part-1): 2022	10 kN to 2000 kN	0.65%
10	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Compression Testing Machines/Marshall Testing Machine/ CBR Testing Machine/Triaxial Testing Machine/ UTM in Compression Mode	Using Load Cell with Digital Indicator, as per IS 1828 Part-1): 2022	0.5 kN to 50 kN	0.65%



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11	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine/ UTM in (Tension Mode)	Using Load Cell with Digital Indicator, as per IS 1828 Part-1): 2022	0.5 kN to 50 kN	0.65%
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 0.1 mg & coarser)	Using E2 Class weights as per OIML R-76	1 g to 200 g	0.3 mg
13	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 1 g & coarser)	Using F1 Class Weights as per OIML R-76	Up to 30 kg	4g
14	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 g & coarser)	Using F1 Class Weights as per OIML R-76	Up to 100 kg	25g
15	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 10 mg & coarser)	Using E2 Class Weights as per OIML R-76	Up to 3 kg	60mg
16	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Indicator with Sensor of Chamber	Using Digital Thermo Hygrometer with Sensors by comparison method	20 °C to 50 °C @ 50 %rh	1.4°C
17	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Indicator with Sensor of Chamber	Using Digital Thermo Hygrometer with Sensors by comparison method	21 °C to 50 °C @ 50 %RH	1.4°C



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18	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber /Thermohygrometer/ Temperature Indicator with Sensor of Chamber (Single Position Calibration)	Using Digital Thermo Hygrometer with Sensors comparison method	30 %rh to 90 %rh @ 40 °C	5.2%rh
19	THERMAL-TEMPERATURE	Ambient & Filter Temperature Sensor of Fine Particulate Sampler	Using Digital Temperature Indicator with RTD/PT-100 Sensors by Comparison Method:	10 °C to 50 °C	0.91 °C
20	THERMAL-TEMPERATURE	Furnace (Single Position Calibration)	Using S-Type Thermocouple with Digital Indicator by Comparison Method	200 °C to 1100 °C	6.23°C
21	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Oven, Curing Tank	Using Digital Temperature Indicator with RTD/PT-100 Sensors by Comparison Method	(-) 30 °C to 400 °C	3°C
22	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Oven, Incubator(Non-Medical Purpose)	Using Digital Temperature Indicator with RTD Sensor	50 °C to 300 °C	2.56°C



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

