



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**INDEPENDENT CALIBRATION LABORATORIES,
NATIONAL COUNCIL FOR CEMENT AND BUILDING
MATERIALS**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

34 KM STONE, DELHI MATHURA ROAD (NH-2), BALLABGARH, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3795

Issue Date: 28/12/2025

Valid Until: 27/12/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



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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	RPM indicator of Source/ Rotating Machine (Non Contact Mode)	Using Digital Tachometer by Comparison Method	> 500 rpm to 15000 rpm	2.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of Source/ Rotating Machine (Non Contact Mode)	Using Digital Tachometer by Comparison Method	25 rpm to 500 rpm	0.7 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Mode)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	100 rpm to 10000 rpm	3.3 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Mode)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	> 10000 rpm to 25000 rpm	6.3 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Mode)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	50 rpm to 10000 rpm	3.3 rpm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger), (L.C.: 0.001 mm)	Using Length Measuring Machine by Comparison Method	0 to 25 mm	2 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Measuring Scale and Tape Calibrator by Comparison Method	Up to 5 m	75 Square root (L) µm where L is Length of tape in mm (>1000 mm)



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8	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 0.5 mm)	Using Measuring Scale and Tape Calibrator by Comparison Method	Up to 600 mm	30.5 µm
9	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by comparison Method	>1 mm to 10 mm	4 µm
10	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Vision Measuring Machine by comparison Method	45 µm to 1 mm	1.5 µm
11	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	> 1 mm to 10 mm	5 µm
12	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vernier Caliper by Comparison Method	> 10 mm to 125 mm	50 µm
13	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	45 µm to 1 mm	3 µm



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14	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	Up to 300 mm	11 µm
15	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Presure Tansducer with Indicator)	Using Dead Weight Tester Comparison Method as per DKD- R 6-1:2014	2 bar to 70 bar	0.05 % rdg
16	MECHANICAL- PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Presure Transducer with Indicator)	Using Dead Weight Tester Comparison Method as per DKD- R 6-1:2014	70 bar to 1200 bar	0.09 % rdg
17	MECHANICAL- VOLUME	Burette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>10 ml to 50 ml	0.010 ml
18	MECHANICAL- VOLUME	Burette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>5 ml to 10 ml	0.004 ml
19	MECHANICAL- VOLUME	Burette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>50 ml to 100 ml	0.022 ml



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20	MECHANICAL-VOLUME	Burette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	1 ml to 5 ml	0.003 ml
21	MECHANICAL-VOLUME	Measuring Cylinder	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	1 ml to 5 ml	0.003 ml
22	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability-1 mg) and Distilled Water by Gravimetric Method based on ISO 4787:2021	> 500 ml to 1000 ml	0.079 ml
23	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>10 ml to 50 ml	0.010 ml
24	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability-0.1 mg) and Distilled Water by Gravimetric Method based on ISO 4787:2021	>100 ml to 250 ml	0.023 ml



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25	MECHANICAL- VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability-0.1 mg) and Distilled Water by Gravimetric Method based on ISO 4787:2021	>250 ml to 500 ml	0.025 ml
26	MECHANICAL- VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>5 ml to 10 ml	0.005 ml
27	MECHANICAL- VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>50 ml to 100 ml	0.022 ml
28	MECHANICAL- VOLUME	Pipette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>10 ml to 50 ml	0.010 ml
29	MECHANICAL- VOLUME	Pipette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>5 ml to 10 ml	0.009 ml



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30	MECHANICAL-VOLUME	Pipette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	>50 ml to 100 ml	0.023 ml
31	MECHANICAL-VOLUME	Pipette	Using Semi-micro Balance (Readability-0.01 mg), Distilled Water by Gravimetric Method based on ISO 4787:2021	1 ml to 5 ml	0.002 ml
32	MECHANICAL-VOLUME	Volume of Blaine Cell	Using Semi-micro Balance (Readability-0.01 mg), Mercury and OPC as per IS 4031 (Part 2): 1999 (Reaffirmed 2004)	1.6 cm ³ to 2 cm ³	0.002 cm ³
33	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	1 g	0.010 mg
34	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Mass Comparator (Readability-0.1 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	1 kg	0.53 mg



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35	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	1 mg	0.002 mg
36	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	10 g	0.020 mg
37	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	10 mg	0.002 mg
38	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Semi-Micro Balance (Readability-0.01 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	100 g	0.053 mg



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39	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	100 mg	0.005 mg
40	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	2 g	0.013 mg
41	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Mass Comparator (Readability: 0.1 mg) by Substitution Method as per ABBA Cycle as per OIML R 111-1 (2004)	2 kg	1 mg
42	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	2 mg	0.002 mg



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43	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	20 g	0.026 mg
44	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	20 mg	0.003 mg
45	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Semi micro Balance (Readability-0.01 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	200 g	0.1 mg
46	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	200 mg	0.005 mg



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47	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	5 g	0.013 mg
48	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Mass Comparator (Readability-0.1 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	5 kg	2.66 mg
49	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	5 mg	0.002 mg
50	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Semi-micro Balance (Readability-0.01 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	50 g	0.033 mg



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51	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	50 mg	0.004 mg
52	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Mass Comparator (Readability-0.1 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	500 g	0.13 mg
53	MECHANICAL- WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and micro Balance (Readability-0.001 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	500 mg	0.008 mg
54	MECHANICAL- WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Weights and Precision Balance (Readability: 100 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	20 kg	100 mg



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55	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Weights and Precision Balance (Readability-100 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	50 kg	140 mg
56	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Weights and Precision Balance (Readability-100 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	10 kg	100 mg
57	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F2 Class Weights and Precision Balance (Readability-100 mg) by Substitution Method based on ABBA Cycle as per OIML R 111-1 (2004)	100 kg	600 mg
58	THERMAL-SPECIFIC HEAT & HUMIDITY	Temp. / Humidity indicator with inbuilt or External Sensor, Thermo-Hygrometer	Using RH/Temp. Indicator with Sensor, RH/Temp. Generator by comparison method	15 °C to 45 °C @ 50 % rh	0.30 °C
59	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with inbuilt or External Sensor, Thermo-hygrometer	Using RH and Temperature Indicator, RH Generator/Chamber by Comparison Method as per DKD-R5-7	30 %rh to 95 %rh @ 25 °C	0.66 %rh



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60	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT probe with Temperature Indicator & Liquid bath by comparison method	(-) 10 °C to 30 °C	0.1 °C
61	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT probe with Temperature Indicator & Liquid bath by comparison method	30 °C to 100 °C	0.13 °C
62	THERMAL-TEMPERATURE	RTD/Thermocouple with Temperature Indicator/Controller/Data Logger	Using PRT Probe with Temperature Indicator & Dry Block Calibrator by Comparison Method	300 °C to 400 °C	0.2 °C
63	THERMAL-TEMPERATURE	RTD/Thermocouple with Temperature Indicator/Controller/Data Logger with Sensor	Using PRT Probe with Temperature Indicator & Liquid Bath by Comparison Method	(-) 10 °C to 30 °C	0.08 °C
64	THERMAL-TEMPERATURE	RTD/Thermocouple with Temperature Indicator/Controller/Data Logger with Sensor	Using PRT Probe with Temperature Indicator & Liquid Bath by Comparison Method	30 °C to 300 °C	0.1 °C
65	THERMAL-TEMPERATURE	Thermocouple with Temperature Indicator/Controller/Data Logger with Sensor	Using R Type Thermocouple with Temperature Indicator, High Temperature Furnace by comparison Method as per EURAMET cg 8	400 °C to 1200 °C	1.5 °C



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Site Facility					
1	MECHANICAL- ACCELERATION AND SPEED	RPM indicator of Source/ Rotating Machine (Non Contact Mode)	Using Digital Tachometer by Comparison Method	> 500 rpm to 15000 rpm	2.2 rpm
2	MECHANICAL- ACCELERATION AND SPEED	RPM indicator of Source/ Rotating Machine (Non Contact Mode)	Using Digital Tachometer by Comparison Method	25 rpm to 500 rpm	0.7 rpm
3	MECHANICAL- UTM, TENSION CREEP AND TORSION TESTING MACHINE	Force Measuring System of CTM/UTM (Compression Mode) Class 1 and Coarser	Using Proving Rings/Bow Dynamometer/Load Cell with Display as per procedure based on IS 1828:2022	3 kN to 3000 kN	0.42 %
4	MECHANICAL- WEIGHING SCALE AND BALANCE	Micro Balance (Class I), (Readability: 0.001 mg)	Using E1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	Up to 30 g	0.015 mg
5	MECHANICAL- WEIGHING SCALE AND BALANCE	Ultra Micro Balance (Class 1), Readability: 0.0001 mg	Using E1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	Up to 5 g	0.0055 mg
6	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Class I), Readability: 0.01 mg	Using E1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	Up to 200 g	0.05 mg
7	MECHANICAL- WEIGHING SCALE AND BALANCE	Weighing Balance (Class I), Readability=0.1 mg	Using E1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	Up to 5.0 kg	0.38 mg



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ROAD (NH-2), BALLABGARH, FARIDABAD, HARYANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3795

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Validity

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Last Amended on

03/02/2026

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)(±)
8	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability=100 mg	Using E2, F1 and F2 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	> 50 kg to 150 kg	608 mg
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability=100 mg	Using E2 and F1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	>20 kg to 50 kg	191 mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability=100 mg	Using E2, F1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	>5 kg to 20 kg	152 mg
11	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Environmental Chamber (Single Position)	Using RH/Temp. Indicator with sensor, RH/Temp. Generator by Comparison Method as per DKD-R5-7	15 °C to 50 °C @ 50 %rh	0.30 °C
12	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with Sensor of Environmental Chamber (Single Position)	Using RH meter with Probe by comparison method as per DKD-R5-7	30 %rh to 95 %rh @ 25 °C	1.2 %rh
13	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block, Incubator (for Non Medical Applications), Oven (Single Position)	Using PRT Probe with Temperature Indicator by comparison method as per DKD-R5-7	(-) 10 °C to 250 °C	1.2 °C



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14	THERMAL- TEMPERATURE	Temperature Indicator with Sensor of Muffle Furnace (Single Position)	Using R Type Thermocouple with Temperature Indicator by comparison method based on DKD-R5-7	200 °C to 1200 °C	1.9 °C

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