



**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-2625

Issue Date: 02/11/2021

Valid Until:

01/11/2023

**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](http://www.nabl-india.org))

Name of Legal Identity : National Council for Cement and Building Materials

**Signed for and on behalf of NABL**

**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 of Vibrating Machine with Indicator	Using Digital Tachometer by comparison method	11600 rpm to 12400 rpm	6.5rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	>5000 rpm to 13000 rpm	3.3 rpm to 6.3 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	100 rpm to 5000 rpm	3.3 rpm to 3.3 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	>5000 rpm to 25000 rpm	3.2 rpm to 6.3 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	20 rpm to 4999 rpm	1.2 rpm to 3.3 rpm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger), L.C.: 0.001 mm	Using Dial Gauge Calibrator by Comparison Method	0 to 5 mm	2μm



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge (Plunger), L.C.: 0.01 mm	Using Dial Gauge Calibrator by Comparison Method	0 to 25 mm	8µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape	By using Measuring Scale and Tape Calibrator, by comparison method	upto to 5 m	25vLµm (Where L is in meter)
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale	By using Measuring Scale and Tape Calibrator, by comparison method	upto 600 mm	25vL µmµm (Where L is in meter)
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vernier Caliper by Comparison Method	> 10 mm to 125 mm	53µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	>1 mm to 10 mm	5 µm



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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by comparison Method	45 µm to 1000µm	3.7 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper	Using Caliper Checker by Comparison Method	upto to 300 mm	15 µm
14	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Pressure Transducer with Indicator)	Using Dead Weight Tester as per procedure based on DKD-R 6-1 by direct method	0.2 MPa to 7 MPa	0.04% rdg
15	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Pressure Transducer with Indicator)	Using Dead Weight Tester as per procedure based on DKD-R 6-1 by direct method	7 MPa to 120 MPa	0.05% rdg
16	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>10 ml to 50 ml	0.010ml



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17	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability-0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>5 ml to 10 ml	0.004ml
18	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability-0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>50 ml to 100 ml	0.022ml
19	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability-0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	1 ml to 5 ml	0.002ml



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20	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>10 ml to 50 ml	0.010ml
21	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2010	>100 ml to 250 ml	0.023ml
22	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2010	>250 ml to 500 ml	0.025ml
23	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>5 ml to 10 ml	0.005ml



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24	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>50 ml to 100 ml	0.022ml
25	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2010	>500 ml to 1000 ml	0.031ml
26	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	1 ml to 5 ml	0.003ml
27	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>10 ml to 50 ml	0.010ml



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28	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>5 ml to 10 ml	0.004ml
29	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010	>50 ml to 100 ml	0.023ml
30	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2010 & ISO 8655-6	1 ml to 5 ml	0.002ml
31	MECHANICAL-VOLUME	Volume (Blaine Cell)	Using Blaine Apparatus with Semi-micro Balance (Readability - 0.01mg) by Gravimetric method	1.6 cm <sup>3</sup> to 2.0 cm <sup>3</sup>	0.0020cm <sup>3</sup>



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32	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	1 g	0.014mg
33	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	1 kg	0.001g
34	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	10 g	0.022mg



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35	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	100 g	0.070mg
36	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	100 mg	0.011mg
37	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	2 g	0.020mg



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38	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	2 kg	0.001g
39	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	20 g	0.055mg
40	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	200 g	0.150mg



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41	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	200 mg	0.017mg
42	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	5 g	0.03mg
43	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	5 kg	0.002g



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44	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	50 g	0.036mg
45	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	500 g	0.001g
46	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	500 mg	0.013mg



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47	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	1 mg	0.010mg
48	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	10 mg	0.010mg
49	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	2 mg	0.010mg



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50	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	20 kg	0.10g
51	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	20 mg	0.010mg
52	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	5 mg	0.010mg



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53	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	50 kg	0.14g
54	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	50 mg	0.010mg
55	MECHANICAL-WEIGHTS	Weight (M1 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	to 10 kg	0.10g



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56	MECHANICAL-WEIGHTS	Weight (M1 Class or Coarser)	Using F2 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABA Cycle as per OIML R 111 (2004)	100 kg	0.54g
57	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with inbuilt or External Sensor, Thermohygrometer	Using RH and Temperature Indicator, RH Generator/ Chamber by Comparison Method	30 % RH to 95 % RH @ 25°C	0.8% RH
58	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, RTD/Thermocouple with Temperature Indicators/Controller/ Data Logger	Using PRT Probe with Temperature Indicator & Liquid Bath by comparison Method	-10°C to 100°C	0.08°C
59	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, RTD/Thermocouple with Temperature Indicators/Controller/ Data Logger	Using PRT Probe with Temperature Indicator & Liquid Bath by comparison Method	100°C to 300°C	0.08°C



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**Certificate Number** CC-2625

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**Last Amended on** 02/12/2021

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)(±)
60	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
61	THERMAL-TEMPERATURE	Thermocouple with Temperature Indicator/Controller/Data Logger	Using R Type Thermocouple with Temperature Indicator, High Temperature Furnace by comparison Method	400 °C to 1200°C	1.5 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

INDEPENDENT CALIBRATION LABORATORIES, NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS, 34 KM STONE, DELHI-MATHURA ROAD (NH-2), BALLABGARH, FARIDABAD, HARYANA, INDIA

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM of Flow Table with Indicator	Using Digital Tachometer by comparison method	96 rpm to 104 rpm	3.2rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM of Los Angeles Machine with Indicator	Using Digital Tachometer by comparison method	30 rpm to 33 rpm	3.2rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM of Planetary Mixer with Indicator, High Speed	Using Digital Tachometer by comparison method	115 rpm to 135 rpm	3.2rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM of Planetary Mixer with Indicator, Low Speed	Using Digital Tachometer by comparison method	57 rpm to 67 rpm	3.2rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM of Vibrating Machine with Indicator	Using Digital Tachometer by comparison method	11600 rpm to 12400 rpm	6.5rpm
6	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:1828:2015	3 kN to 3000 kN	0.31%
7	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I), Readability= 0.1 mg	Using E2 Class Weights based on OIML-R-76 by comparison method	up to 5.0 kg	2.5mg



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8	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I), Readability=0.1 mg	Using E2 Class Weights based on OIML-R-76 by comparison method	up to 200 g	0.15mg
9	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability= 100 mg	Using E2, F1 Class Weights based on OIML-R-76 by comparison method	>20 kg to 50 kg	190.2mg
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability= 100 mg	Using E2, F1 Class Weights based on OIML-R-76 by comparison method	>5 kg to 20 kg	152mg
11	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability= 100 mg	Using E2, F1 and F2 Class Weights based on OIML-R-76, by comparison method	>50 kg to 150 kg	608mg
12	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Environmental Chamber	Using RH meter with Probe by comparison method (Single Position Calibration )	30 % RH to 95 % RH @ 25°C	1.2 % RH
13	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Environmental Chamber	Using RTD with Temperature Indicator by comparison method	15°C to 50°C @ 50%RH	0.30°C



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14	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block, Incubator (for Non Medical Applications), Oven	Using PRT Probe with Temperature Indicator by comparison method	-10°C to 200°C	1.2°C
15	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Muffle Furnace	Using R Type Thermocouple with Temperature Indicator by Comparison Method	232°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.