



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

1 of 20

**Validity**

28/12/2023 to 27/12/2025

**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	RPM of Vibrating Machine	Using Digital Tachometer by comparison method	11600 rpm to 12400 rpm	6.5 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Tachometer Calibrator and Digital Tachometer by Comparison Method	>10000 rpm to 13000 rpm	6.3 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	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)	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)	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.: 0.01 mm)	Using Dial Gauge Calibrator by Comparison Method	0 to 25 mm	8.0 μm



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

2 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
7	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	2.0 $\mu\text{m}$
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C: 1mm)	Using Measuring Scale and Tape Calibrator by Comparison method	upto 5 meter	75 $\nu\text{L } \mu\text{m}$ (where L is in meter)
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C: 0.5 mm)	Using Measuring Scale and Tape Calibrator, by comparison method	upto 600 mm	30.5 $\mu\text{m}$
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Vernier Caliper by Comparison Method	> 10 mm to 125 mm	50.0 $\mu\text{m}$
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	>1 mm to 10 mm	5.0 $\mu\text{m}$



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

3 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by comparison Method	45 µm to 1 mm	3.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.:0.01 mm)	Using Caliper Checker by Comparison Method	up to 300 mm	11.0 µm
14	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Pressure Transducer with Indicator)	Using Dead Weight Tester comparison method as per DKD-R 6-1:2014	0.2 MPa to 7 MPa	0.05 % rdg
15	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Medium Pressure (Pressure Gauge, Pressure Transducer with Indicator)	Using Dead Weight Tester comparison method as per DKD-R 6-1:2014	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 :2021	>10 ml to 50 ml	0.010 ml



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

4 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
17	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>5 ml to 10 ml	0.004 ml
18	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>50 ml to 100 ml	0.022 ml
19	MECHANICAL-VOLUME	Burette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	1 ml to 5 ml	0.003 ml



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

5 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
20	MECHANICAL-VOLUME	Measuring Cylinder	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	1 ml to 5 ml	0.003 ml
21	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>10 ml to 50 ml	0.010 ml
22	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2021	>100 ml to 250 ml	0.023 ml
23	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2021	>250 ml to 500 ml	0.025 ml



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

6 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
24	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>5 ml to 10 ml	0.005 ml
25	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>50 ml to 100 ml	0.022 ml
26	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask	Using Analytical Balance (Readability- 0.1mg) and Distilled Water by Gravimetric Method based on ISO 4787 :2021	>500 ml to 1000 ml	0.031 ml
27	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>10 ml to 50 ml	0.010 ml



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

7 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
28	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>5 ml to 10 ml	0.009 ml
29	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	>50 ml to 100 ml	0.023 ml
30	MECHANICAL-VOLUME	Pipette	Using Semi- micro Balance (Readability- 0.01mg), Distilled Water by Gravimetric Method based on ISO 4787 :2021	1 ml to 5 ml	0.002 ml
31	MECHANICAL-VOLUME	Volume of Blaine Cell	Using Semi-micro Balance (Readability - 0.01mg), Mercury and OPC as per IS-4031(Part-2) : 1999 (Reaffirmed 2004)	1.6 cm <sup>3</sup> to 2 cm <sup>3</sup>	0.0020 cm <sup>3</sup>



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

8 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
32	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	1 g	0.010 mg
33	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	1 mg	0.002 mg
34	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	10 g	0.020 mg





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

9 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
35	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	10 mg	0.002 mg
36	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method / ABBA Cycle as per OIML R 111-1 (2004):	100 g	0.053 mg
37	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	100 mg	0.005 mg



# 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

**Laboratory Name :**

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

10 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
38	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method/ABBA Cycle as per OIML R 111-1 (2004)	2 g	0.013 mg
39	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method/ABBA Cycle as per OIML R 111-1 (2004)	2 mg	0.002 mg
40	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBACycle as per OIML R 111-1 (2004)	20 g	0.027 mg



# 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

**Laboratory Name :**

**Accreditation Standard**

**Certificate Number**

**Validity**

ISO/IEC 17025:2017

CC-3795

28/12/2023 to 27/12/2025

**Page No**

**Last Amended on**

11 of 20

-

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-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	20 mg	0.003 mg
42	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	200 g	0.10 mg
43	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	200 mg	0.005 mg



# 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

**Laboratory Name :**

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

12 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
44	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	5 g	0.013 mg
45	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	5 mg	0.002 mg
46	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and Semi-micro Balance (Readability - 0.01mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	50 g	0.033 mg



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

13 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
47	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	50 mg	0.004 mg
48	MECHANICAL-WEIGHTS	Weight (E2 Class or Coarser)	Using E1 Class Weights and micro Balance (Readability - 0.001mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	500 mg	0.008 mg
49	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	1 kg	0.001 g



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

14 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
50	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	2 kg	0.0011 g
51	MECHANICAL-WEIGHTS	Weight (F1 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	5 kg	0.0026 g
52	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	20 kg	0.10 g



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

15 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
53	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	50 kg	0.14 g
54	MECHANICAL-WEIGHTS	Weight (F2 Class or Coarser)	Using E2 Class Weights and Mass Comparator (Readability - 0.1mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	500 g	0.001 g
55	MECHANICAL-WEIGHTS	Weight (M1 Class or Coarser)	Using F1 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method Based on ABBA Cycle as per OIML R 111-1 (2004)	10 kg	0.10 g



# 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

**Laboratory Name :**

**Accreditation Standard**

**Certificate Number**

**Validity**

ISO/IEC 17025:2017

CC-3795

28/12/2023 to 27/12/2025

**Page No**

**Last Amended on**

16 of 20

-

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	MECHANICAL-WEIGHTS	Weight (M1 Class or Coarser)	Using F2 Class Weights and Precision Balance (Readability - 100mg) by Substitution Method/ABBA Cycle as per OIML R 111-1 (2004)	100 kg	0.55 g
57	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with inbuilt or External Sensor, Thermohygrometer	Using RH and Temperature Indicator, RH Generator/ Chamber by Comparison Method as per DKD-R5-7	30 %rh to 95 %rh @25°C	0.61 %rh
58	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT probe with Temperature Indicator & Liquid bath by comparison method	(-)10°C to 100 °C	0.10 °C
59	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using PRT probe with Temperature Indicator & oil bath by comparison method	100°C to 300 °C	0.13 °C





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

17 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
60	THERMAL-TEMPERATURE	RTD / Thermocouple with Temperature Indicator/Controller/ Data Logger	Using PRT Probe with Temperature Indicator & Dry Block Calibrator by Comparison Method EURAMET cg 8, DKD-R5-1	300 °C to 400 °C	0.2 °C
61	THERMAL-TEMPERATURE	RTD/Thermocouple with Temperature Indicators/Controller/ Data Logger with sensor	Using PRT Probe with Temperature Indicator & Liquid Bath by comparison Method	(-)10 °C to 100 °C	0.08 °C
62	THERMAL-TEMPERATURE	RTD/Thermocouple with Temperature Indicators/Controller/ Data Logger with sensor	Using PRT Probe with Temperature Indicator & Liquid Bath by comparison Method	100 °C to 300 °C	0.08 °C
63	THERMAL-TEMPERATURE	Thermocouple with Temperature Indicator/Controller/ Data Logger with sensor	Using R Type Thermocouple with cold junction with Temperature Indicator, High Temperature Furnace by comparison Method as per EURAMET cg 8	400 °C to 1200 °C	1.5 °C



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

18 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	RPM of Flow Table	Using Digital Tachometer by comparison method	96 rpm to 104 rpm	3.2 rpm
2	MECHANICAL-ACCELERATION AND SPEED	RPM of Los Angeles Machine	Using Digital Tachometer by comparison method	30 rpm to 33 rpm	3.2 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM of Planetary Mixer , High Speed	Using Digital Tachometer by comparison method as per IS:10890-1984 (Reaffirmed 2004)	115 rpm to 135 rpm	3.2 rpm
4	MECHANICAL-ACCELERATION AND SPEED	RPM of Planetary Mixer , Low Speed	Using Digital Tachometer by comparison method	57 rpm to 67 rpm	3.2 rpm
5	MECHANICAL-ACCELERATION AND SPEED	RPM of Vibrating Machine	Using Digital Tachometer by comparison method	11600 rpm to 12400 rpm	6.5 rpm
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:1828:2022	3 kN to 3000 kN	0.31 %



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

19 of 20

**Validity**

28/12/2023 to 27/12/2025

**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)(±)
7	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	upto to 30 g	0.015 mg
8	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I), Readability= 0.1 mg	Using E2 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	up to 5.0 kg	2.6 mg
9	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
10	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability= 100 mg	Using F1 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	>20 kg to 50 kg	191 mg
11	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	152.0 mg
12	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II), Readability= 100 mg	Using F1 and F2 Class Weights based on OIML R76-1, Edition 2006(E) by comparison method	>50 kg to 150 kg	608.0 mg



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

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

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3795

**Page No**

20 of 20

**Validity**

28/12/2023 to 27/12/2025

**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	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator with Sensor of Environmental Chamber (Single Position)	Using RTD with Temperature Indicator by comparison method based on DKD-R5-7	15 °C to 50 °C @50%rh	0.30 °C
14	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
15	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
16	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Muffle Furnace (Single Position Calibration)	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.