



(A Constituent Board of Quality Council of India)



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 17025:2005

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

for its facilities at

34, KM Stone, NH-2, Delhi-Mathura Road, Ballabgarh, Haryana

in the field of

CALIBRATION

Certificate Number

CC-2625

Issue Date

12/08/2018

Valid Until 11/08/2020

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)

Signed for and on behalf of NABL



Anil Relia Chief Executive Officer





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SCOPE OF ACCREDITATION

Laboratory

Independent Calibration Laboratories, National Council for Cement and Building Materials, 34, KM Stone, NH-2, Delhi-Mathura Road, Ballabgarh, Haryana

Accreditation Standard

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Validity

12.08.2018 to 11.08.2020

Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks	
		MECHANICAL	CALIBRATION		
ī.	DIMENSION (BASIC I	MEASURING INSTRUMEN	NT, GAUGE ETC.)		
1.	Test Sieves [§]	45 μm to 850 μm 1 mm to 10 mm	3 μm 5 μm	Using Profile Projector by Comparison Method	
	15	> 10 mm to 150 mm	53 µm	Using Vernier Caliper by Comparison Method	
2.	Steel Scale ^{\$}	Upto 600 mm	0.50 L (L is in mtr.)	Using Profile Projector by Comparison Method	
3.	Vernier Caliper ^{\$}	Upto 300 mm	15 µm	Using Caliper Checker by Comparison Method	
4.	Dial Gauge ^{\$} (Plunger) L.C.: 0.001 mm	0 to 25 mm	8 µm	Using Dial Gauge Calibrator by Comparison Method	
5.	Measuring Tape ^s	Upto 5 m	0.12 L (L is in mtr.)		
II.	PRESSURE INDICATING DEVICES				
1.	Pressure ^{\$} (Pressure Gauge, Calibrator, Pressure Switch)	3 kg/cm ² to 61.1kg/cm ² 61.1 kg/cm ² to 1222 kg/cm ²	0.04 % rdg 0.050 % rdg	Using Dead Weight Tester & DWT	
III.	UTM, TENSION CREE	P AND TORSION TESTIN	G MACHINE		
1.	Force Measuring System of UTM* (Compression Mode) Class 1 and Coarser	3 kN to 3000 kN	0.31 %	Using Proving Rings/ Bow Dynamometer/ Load Cell with display	

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
IV.	ACCELERATION AN	DSPEED		<u> </u>
1.	Tachometer ^{\$} (Non-Contact)	60 rpm to 4999 rpm 5000 rpm to 25000 rpm	1.5 % 0.10 %	Using Digital Tachometer by Comparison Method
	Contact	20 rpm to 4999 rpm 5000 to 12000 rpm	1.5 % 0.10 %	· \
2.	RPM of Vibrating Machine [#]	11600 rpm to 12400 rpm	0.10 %	Using Digital Tachometer
3.	RPM of Planetary Mixer [#] Low Speed High Speed	57 rpm to <mark>67 rpm</mark> 115 rpm to 135 rpm	5.4 % 2.7 %	Using Digital Tachometer
4.	RPM of Flow Table [#]	96 rpm to 104 rpm	3.5 %	Using Digital Tachometer
5.	RPM of Loss Angeles Machine [#]	30 rpm to 33 rpm	10.9 %	Using Digital Tachometer
V.	WEIGHTS	· 1 111	(I) -	
1.	Weight [®] F2 Class or Coarser	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg	0.010 mg 0.010 mg 0.010 mg 0.010 mg 0.010 mg 0.010 mg	Using E2 Class Weights and Precision Balance by Substitution Method based on ABA Cycle as per OIML R 111 (2004)
	F1 Class or Coarser	100 mg 200 mg 500 mg	0.011 mg 0.019 mg 0.013 mg	

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	F1 Class or Coarser	1g 2g 5g 10g 20g 50g 100g 200g 500 g 1 kg 2 kg 5 kg	0.014 mg 0.020 mg 0.019 mg 0.022 mg 0.039 mg 0.036 mg 0.070 mg 0.150 mg 0.001 g 0.001 g 0.001 g 0.001 g	
	M1 Class or Coarser	10 kg 20 kg 50 kg 100 kg	0.10 g 0.10 g 0.14 g 0.54 g	Using F1 and F2 Class Weights and Precision Balance by Substitution Method based on ABA Cycle as per OIML R 111 (2004)
VI.	WEIGHING SCALE A	ND BALANCE	II	/
1.	Weighing Balance [#] d = 0.01 mg d = 1.0 kg d=100 mg	0 to 200 g 0 to 5.0 kg > 5 kg to 20 kg > 20 kg to 50 kg > 50 kg to 150 kg	0.07 mg 2.5 mg 85.0 mg 115.0 mg 500 mg	Using E2, F1 and F2 Class Weights based on OIML-R-76
VII.	VOLUME	/- /-	1 1	
1.	Pipette ^{\$}	Upto 5 ml > 5 ml to 10 ml >10 ml to 50 ml >50 ml to 100 ml	0.002 ml 0.004 ml 0.010 ml 0.023 ml	Using Precision Balance, Distilled Water and Reference Weights (E2 Class based on IS 4787 & ISO 8655-6

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
2.	Burette ^{\$}	Upto 5 ml > 5 ml to 10 ml >10 ml to 50 ml >50 ml to 100 ml	0.002 ml 0.004 ml 0.010 ml 0.022 ml	Using Precision Balance, Distilled Water and Reference Weights (E2 Class based on IS 4787 & ISO 8655-6
3.	Measuring Cylinder, Volumetric Flasks ^{\$}	Upto 5 ml > 5 ml to 10 ml > 10 ml to 50 ml > 50 ml to 100 ml > 100 ml to 250 ml > 250 ml to 500 ml > 500 ml to 1000 ml	0.002 ml 0.005 ml 0.010 ml 0.022 ml 0.023 ml 0.025 ml 0.031 ml	Using Precision Balance, Distilled Water and Reference Weights (E2 Class based on IS 4787 & ISO 8655-6
4.	Volume [®] (Blaine Cell)	1.6 cm ³ to 2.0 cm ³	0.0020 cm ³	Using Blaine Apparatus with Precision Balance

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks			
	THERMAL CALIBRATION						
I.	TEMPERATURE	- /		1			
1.	Liquid In Glass Thermometer, RTD / Thermocouple With Temperature Indicators / Controller/ Data Logger ^{\$}	(-) 10 °C to 100 °C 100 °C to 300 °C	0.08 °C 0.08 °C	Using PRT Probe with Temperature Indicator & Liquid Bath by Comparison Method			
2.	RTD/Thermocouple With Temperature Indicator/ Controller / Data Logger ^{\$}	300 °C to 600 °C	0.2 °C	Using PRT Probe with Temperature Indicator & Dry Block Calibrator by Comparison Method			
3.	Thermocouple With Temperature Indicator/ Controller / Data Logger ^{\$}	600 °C to 1200 °C	1.5 °C	Using S Type Thermocouple with Temperature Indicator, High Temperature Furnace by Comparison Method			
4.	Temperature Indicator With Sensor Of Liquid Bath, Dry Block, Incubator Incubator (for Non Medical Applications), Oven	(-) 10 °C to 200 °C	1.2 °C	Using PRT Temperature with Indicator			
5.	Temperature Indicator With Sensor Of Muffle Furnace*	200 °C to 1200 °C	1.9 °C	Using S Type Thermocouple with Temperature Indicator			

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	SPECIFIC HEAT AND	HUMIDITY		
1.	Humidity Indicator With Inbuilt Or External Sensor, Thermohygrometer	30 % RH to 95 % At ≈25 °C	0.8 % RH At ≈25 °C	Using RH and Temperature Indicator, RH Generator /Chamber by Comparison Method
2.	Temperature Humidity Indicator With Sensor Of Environmental	30 % RH to 95 % RH At ≈25 °C	1.2 % RH at ≈25 °C	Using RH Meter with Probe by Single Position Calibration
	Chamber	15 °C to 50 °C	0.30 °C	Using RTD with Temperature Indicator

^{*} Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% ⁵Only in Permanent Laboratory

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^{*}Only for Site Calibration

^{*}The laboratory is also capable for site calibration however, the uncertainty at site depends on the

prevailing actual environmental conditions and master equipment used.

Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.