



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 1 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen (NO <sub>2</sub> )	IS 5182 (Part 06)-2006, RA: 2017	6 µg/m <sup>3</sup> to 7500 µg/m <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	PM 2.5	NCB/ TL/ OP/ 04/ 2.1.3 based on CPCB Guidelines for Measurement of Ambient Air Pollutants- Vol I: 2016	11 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	PM10	IS 5182 (Part 23)-2006, RA: 2017	5 µg/m <sup>3</sup> to 2000 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02)-2001, RA: 2017	4 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Suspended Particulate Matter (SPM)	IS 5182 (Part 04)-1999, RA: 2014	5 µg/m <sup>3</sup> to 10000 µg/m <sup>3</sup>
6	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Carbon Dioxide (CO <sub>2</sub> )	USEPA : Method 3A : 2017	0.1 % to 20 %
7	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Carbon Monoxide (CO)	USEPA : Method 10: 2017	0.1 % to 10.0 %
8	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Oxides of Nitrogen (NO)	USEPA : Method 7E: 2018	0.1 mg/Nm <sup>3</sup> to 6500 mg/Nm <sup>3</sup>



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 2 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
9	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255 (Part 7)-2005, RA: 2017	50 mg/Nm <sup>3</sup> to 3000 mg/Nm <sup>3</sup>
10	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Oxides of Nitrogen (NO <sub>2</sub> )	USEPA : Method 7E: 2018	0.1 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
11	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Oxygen (O <sub>2</sub> )	USEPA : Method 3A: 2017	0.1 % to 25 %
12	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Particulate Matter (PM)	IS 11255 (Part 1)-1985, RA: 2014	1 mg/Nm <sup>3</sup> to 500,000 mg/Nm <sup>3</sup>
13	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Sulphur Dioxide (SO <sub>2</sub> )	USEPA : Method 6(C): 2017	0.1 mg/Nm <sup>3</sup> to 10000 mg/Nm <sup>3</sup>
14	CHEMICAL-ATMOSPHERIC POLLUTION	Source / Stack Emissions	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2)-1985, RA: 2014	2.6 mg/Nm <sup>3</sup> to 3000 mg/Nm <sup>3</sup>
15	CHEMICAL- BUILDING MATERIAL	Aggregate	Alkali Aggregate Reactivity a. Silica Released	IS 2386 (Part 7)-1963, RA: 2016	1.50 mmol/l to 100 mmol/l
16	CHEMICAL- BUILDING MATERIAL	Aggregate	Alkali Aggregate Reactivity: b. Reduction in alkalinity	IS 2386 (Part 7)-1963, RA: 2016	20 mmol/l to 500 mmol/l



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 3 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
17	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Al <sub>2</sub> O <sub>3</sub>	IS 1727-1967, RA: 2013	2.00 % to 45.00 %
18	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Available alkalies as Na <sub>2</sub> O	IS 3812 (Part 1&2)- 2013, (Part2) RA: 2017	0.02 % to 5.00 %
19	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	CaO	IS 1727-1967, RA: 2013	0.50 % to 25.00 %
20	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Cl	IS 4032-1985, RA: 2014	0.002 % to 0.500 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 4 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
21	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Fe <sub>2</sub> O <sub>3</sub>	IS 1727-1967, RA: 2013	0.05 % to 10.00 %
22	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	K <sub>2</sub> O	NCB monograph (MS-14): 2010	0.02 % to 5.00 %
23	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Loss on Ignition	IS 1727-1967, RA: 2013	0.20 % to 15.00 %
24	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	MgO	IS 1727-1967, RA: 2013	0.10 % to 7.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 5 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
25	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Mn2O3	NCB monograph (MS-14): 2010	0.05 % to 2.00 %
26	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Moisture	IS 3812 (Part 1):2013 / IS 15388:2003, RA: 2017	0.01 % to 5.00 %
27	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Na2O	NCB monograph (MS-14): 2010	0.02 % to 5.00 %
28	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	P2O5	NCB monograph (MS-14): 2010	0.05 % to 2.00 %





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 6 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
29	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	R2O3 - Fe2O3	IS 1727-1967, RA: 2013	2.00 % to 40.00 %
30	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Reactive Silica	IS 3812 (Part 1): 2013	15.00 % to 65.00 %
31	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	SiO2	IS 1727-1967, RA: 2013	15.00 % to 99.00 %
32	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	SO3	IS 1727-1967, RA: 2013	0.05 % to 8.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 7 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
33	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Soda +Potash	NCB Monograph (MS-14): 2010	0.02 % to 5.00 %
34	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	TiO <sub>2</sub>	NCB monograph (MS-14): 2010	0.05 % to 5.00 %
35	CHEMICAL- BUILDING MATERIAL	CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Water Soluble Salts	IS 1727-1967, RA: 2013	0.02 % to 1.00 %
36	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cement (Alternate Method)	Al <sub>2</sub> O <sub>3</sub>	IS 12803-1989, RA: 2013	2.50 % to 8.0 %
37	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cement (Alternate Method)	CaO	IS 12803-1989, RA: 2013	25.00 % to 67.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 8 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
38	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cement (Alternate Method)	Fe <sub>2</sub> O <sub>3</sub>	IS 12803-1989, RA: 2013	0.10 % to 5.00 %
39	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cement (Alternate Method)	MgO	IS 12803-1989, RA: 2013	0.50 % to 4.50 %
40	CHEMICAL- BUILDING MATERIAL	Clinker & Hydraulic Cement (Alternate Method)	SiO <sub>2</sub>	IS 12803-1989, RA: 2013	15.00 % to 28.00 %
41	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag and GGBF Slag	Al <sub>2</sub> O <sub>3</sub>	IS 4032-1985, RA: 2014	0.20 % to 40.00 %
42	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	CaO	IS 4032-1985, RA: 2014	8.00 % to 70.00 %
43	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Cl	IS 4032-1985, RA: 2014	0.005 % to 3.000 %





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 9 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
44	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Fe (Total)	IS 4032-1985, RA: 2014	0.05 % to 53.00 %
45	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Fe <sub>2</sub> O <sub>3</sub>	IS 4032-1985, RA: 2014	0.05 % to 75.00 %
46	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Free Lime	IS 4032-1985, RA: 2014	0.05 % to 10.00 %
47	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Glass Content	IS 269:2015/ IS 12089:1987, RA: 2013	00 % to 100 %
48	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Insoluble Residue	IS 4032-1985, RA: 2014	0.10 % to 40.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 10 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
49	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	K <sub>2</sub> O	NCB monograph (MS-13): 2010	0.02 % to 3.00 %
50	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Loss on Ignition	IS 4032-1985, RA: 2014	0.05 % to 10.00 %
51	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	MgO	IS 4032-1985, RA: 2014	0.20 % to 20.00 %
52	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Mn <sub>2</sub> O <sub>3</sub>	IS 12423-1988, RA: 2014	0.02 % to 10.00 %
53	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	MnO	IS 12423-1988, RA: 2014	0.02 % to 9.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 11 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
54	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Na <sub>2</sub> O	NCB monograph (MS-13): 2010	0.05 % to 3.00 %
55	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	P <sub>2</sub> O <sub>5</sub>	IS 12423-1988, RA: 2014	0.02 % to 5.00 %
56	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Phosphorus (P)	IS 12423-1988, RA: 2014	0.10 % to 2.50 %
57	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Retained on 10 mm sieve	IS 269: 2015	0.00 % to 10.00 %
58	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Retained on 50 mm sieve	IS 269:2015/ IS 12089:1987, RA: 2013	0.00 % to 10.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 12 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
59	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	SiO <sub>2</sub>	IS 4032-1985, RA: 2014	8.00 % to 45.00 %
60	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	SO <sub>3</sub>	IS 4032-1985, RA: 2014	0.10 % to 7.00 %
61	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Sulphur as Sulphide	IS 4032-1985, RA: 2014	0.05 % to 2.50 %
62	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	TiO <sub>2</sub>	IS 12423-1988, RA: 2014	0.02 % to 2.00 %
63	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Water soluble K <sub>2</sub> O	NCB Monograph (MS-13): 2010	0.02 % to 3.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 13 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
64	CHEMICAL- BUILDING MATERIAL	Clinker, Hydraulic Cement, Granulated Blast Furnace Slag, Copper Slag, Steel Slag, Lead Zinc Slag & GGBF slag	Water soluble Na <sub>2</sub> O	NCB Monograph(MS-13): 2010	0.02 % to 3.00 %
65	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103-1999, RA: 2013	0.05 % to 40.00 %
66	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Chloride	IS 9103-1999, RA: 2013	0.005 % to 5.00 %
67	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry Material Content	IS 9103-1999, RA: 2013	1.00 % to 70.00 %
68	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH value	IS 9103-1999, RA: 2013	1 to 14
69	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103-1999, RA: 2013	1.02 to 4.00
70	CHEMICAL- BUILDING MATERIAL	Pozzolanic Materials CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	Water Soluble Na <sub>2</sub> O	NCB Monograph (MS-14): 2010	0.02 % to 5.00 %





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 14 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
71	CHEMICAL- BUILDING MATERIAL	Pozzolanic Materials CCP, Silica Fume, Metakaoline, Pulverised Fuel Ash, Coal/Pet Coke Ash, Rice Husk Ash & Spent Fluidized Catalytic Cracking Equilibrium Catalyst	water Soluble K <sub>2</sub> O	NCB Monograph (MS-14): 2010	0.02 % to 5.00 %
72	CHEMICAL- BUILDING MATERIAL	Refractory	Al <sub>2</sub> O <sub>3</sub>	IS 1527-1972, RA: 2017	1.00 % to 85.00 %
73	CHEMICAL- BUILDING MATERIAL	Refractory	CaO	IS 1527-1972, RA : 2017	0.20 % to 30.00 %
74	CHEMICAL- BUILDING MATERIAL	Refractory	Cl	IS 4032-1985, RA: 2014	0.005 % to 0.500 %
75	CHEMICAL- BUILDING MATERIAL	Refractory	Fe <sub>2</sub> O <sub>3</sub>	IS 1527-1972, RA: 2017	1.00 % to 10.00 %
76	CHEMICAL- BUILDING MATERIAL	Refractory	K <sub>2</sub> O	IS 1527-1972, RA: 2017	0.02 % to 3.00 %
77	CHEMICAL- BUILDING MATERIAL	Refractory	MgO	IS 1527-1972, RA: 2017	0.50 % to 85.00 %
78	CHEMICAL- BUILDING MATERIAL	Refractory	Mn <sub>2</sub> O <sub>3</sub>	NCB monograph (MS-5): 1979	0.02 % to 3.00 %
79	CHEMICAL- BUILDING MATERIAL	Refractory	Na <sub>2</sub> O	IS 1527-1972, RA: 2017	0.02 % to 3.00 %
80	CHEMICAL- BUILDING MATERIAL	Refractory	P <sub>2</sub> O <sub>5</sub>	NCB monograph (MS-5): 1979	0.02 % to 5.00 %
81	CHEMICAL- BUILDING MATERIAL	Refractory	SiO <sub>2</sub>	IS 1527-1972, RA: 2017	10.00 % to 35.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 15 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
82	CHEMICAL- BUILDING MATERIAL	Refractory	TiO <sub>2</sub>	IS 1527-1972, RA: 2017	0.02 % to 5.00 %
83	CHEMICAL- BUILDING MATERIAL	Refractory	Loss on Ignition	IS 1527-1972, RA: 2017	0.20 % to 5.00 %
84	CHEMICAL- ORES & MINERALS	(Mineral & By product)	CaO	IS 1288-1982, RA: 2016	0.50 % to 32.00 %
85	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	CaSO <sub>4</sub> .2H <sub>2</sub> O(Purity)	IS 1288-1982, RA: 2016	2.00 % to 99.50 %
86	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Cl as NaCl	IS 1288-1982, RA: 2016	0.005 % to 0.500 %
87	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Combined water	IS 1288-1982, RA: 2016	0.10 % to 25.00 %
88	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Fluorine Content	NCB/F/13: 2010	0.05 % to 2.00 %
89	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Free moisture	IS 10170-1982, RA: 2014	0.02 % to 10.00 %
90	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Free water	IS 1288-1982, RA: 2016	0.02 % to 10.00 %
91	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Iron & Alumina	IS 1288-1982, RA: 2016	0.10 % to 15.00 %
92	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	MgO	IS 1288-1982, RA: 2016	0.20 % to 8.00 %
93	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Mn <sub>2</sub> O <sub>3</sub>	NCB monograph (MS-5): 1979	0.02 % to 2.00 %
94	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	P <sub>2</sub> O <sub>5</sub>	NCB monograph (MS-5): 1979	0.02 % to 2.00 %
95	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	SiO <sub>2</sub> & Acid Insoluble	IS 1288-1982, RA: 2016	0.10 % to 15.00 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name	NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS (TESTING LABORATORIES), 34 KM STONE, DELHI- MATHURA ROAD, NH-2, BALLABGARH, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5296	Page No. :	16 / 30
Validity	17/03/2019 to 16/03/2021	Last Amended on	29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
96	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	SO <sub>3</sub>	IS 1288-1982, RA: 2016	0.20 % to 46.00 %
97	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	Sodium Content as (Na)	IS 6046-1982, RA: 2014	0.002 % to 3.00 %
98	CHEMICAL- ORES & MINERALS	(Mineral & by Product)	TiO <sub>2</sub>	IS 12423-1988, RA: 2014	0.02 % to 2.00 %
99	CHEMICAL- ORES & MINERALS	Bauxite	CaO	NCB monograph (MS-14): 2010	0.4 % to 5.0 %
100	CHEMICAL- ORES & MINERALS	Bauxite	Cl	IS 4032-1985, RA: 2014	0.005 % to 1.000 %
101	CHEMICAL- ORES & MINERALS	Bauxite	Fe <sub>2</sub> O <sub>3</sub>	IS 2000 (Part 4)-1985, RA: 2017	0.10 % to 18.00 %
102	CHEMICAL- ORES & MINERALS	Bauxite	K <sub>2</sub> O	NCB monograph (MS-14): 2010	0.05 % to 5.00 %
103	CHEMICAL- ORES & MINERALS	Bauxite	Loss on Ignition	IS 2000 (Part 1)-1985, RA: 2017	0.20 % to 30.00 %
104	CHEMICAL- ORES & MINERALS	Bauxite	MgO	NCB monograph (MS-14): 2010	0.1 % to 3.0 %
105	CHEMICAL- ORES & MINERALS	Bauxite	Mn <sub>2</sub> O <sub>3</sub>	NCB monograph (MS-5): 1979	0.02 % to 2.00 %
106	CHEMICAL- ORES & MINERALS	Bauxite	Na <sub>2</sub> O	NCB monograph (MS-14): 2010	0.05 % to 5.00 %
107	CHEMICAL- ORES & MINERALS	Bauxite	P <sub>2</sub> O <sub>5</sub>	IS 2000 (Part 7)-2001, RA: 2017	0.02 % to 2.00 %
108	CHEMICAL- ORES & MINERALS	Bauxite	SiO <sub>2</sub>	IS 2000 (Part 2)-1985, RA: 2017	0.50 % to 10.0 %
109	CHEMICAL- ORES & MINERALS	Bauxite	TiO <sub>2</sub>	IS 2000 (Part 5)-1985, RA: 2017	0.5 % to 10.0 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 17 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
110	CHEMICAL- ORES & MINERALS	Buxite	Al <sub>2</sub> O <sub>3</sub>	IS 2000 (Part 3)-1985, RA: 2017	0.10 % to 70.00 %
111	CHEMICAL- ORES & MINERALS	IRON ORE	Al <sub>2</sub> O <sub>3</sub>	IS 1493 (Pt-1)-1981 RA: 2016	0.20 % to 20.00 %
112	CHEMICAL- ORES & MINERALS	IRON ORE	Fe <sub>2</sub> O <sub>3</sub>	IS 1493 (Part 1)-1981,RA: 2016	0.50 % to 95.00 %
113	CHEMICAL- ORES & MINERALS	IRON ORE	K <sub>2</sub> O	NCB Monograph (MS-14): 2010	0.05 % to 1.00 %
114	CHEMICAL- ORES & MINERALS	IRON ORE	Mn <sub>2</sub> O <sub>3</sub>	NCB monograph (MS-5): 1979	0.02 % to 5.00 %
115	CHEMICAL- ORES & MINERALS	IRON ORE	Moisture	IS1493(Pt1)-1981,RA : 2016	0.20 % to 20.00 %
116	CHEMICAL- ORES & MINERALS	IRON ORE	Na <sub>2</sub> O	NCB Monograph (MS-14): 2010	0.05 % to 1.00 %
117	CHEMICAL- ORES & MINERALS	IRON ORE	P <sub>2</sub> O <sub>5</sub>	NCB monograph (MS-5): 1979	0.04 % to 1.00 %
118	CHEMICAL- ORES & MINERALS	IRON ORE	SiO <sub>2</sub>	IS 1493 (Part 1)-1981,RA: 2016	0.50 % to 10.00 %
119	CHEMICAL- ORES & MINERALS	IRON ORE	TiO <sub>2</sub>	IS 12423-1988,RA: 2014	0.02 % to 2.00 %
120	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Al <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)-1992,RA: 2017	0.20 % to 10.00 %
121	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	CaCO <sub>3</sub>	IS 1760 (Part 3)-1992,RA: 2017	10.00 % to 99.00 %
122	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	CaO	IS 1760 (Part 3)-1992,RA: 2017	5.00 % to 60.00 %
123	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Cl	IS 1760(Part 5)-1991,RA: 2017	0.005 % to 0.500 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 18 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
124	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Fe <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)-1992,RA: 2017	0.15 % to 8.00 %
125	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Free Silica	IS 1760 (Part 6)-2001,RA: 2017	0.20 % to 15.00 %
126	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	K <sub>2</sub> O	NCB monograph (MS-13): 2010	0.02 % to 3.00 %
127	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Loss on Ignition	IS 1760 (Part 1)-1991,RA: 2017	40.0 % to 50.0 %
128	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Na <sub>2</sub> O	NCB monograph (MS-13): 2010	0.05 % to 3.00 %
129	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	P <sub>2</sub> O <sub>5</sub>	NCB monograph (MS-5): 1979	0.02 % to 2.00 %
130	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	SiO <sub>2</sub>	IS 1760 (Part 2)-1991,RA: 2017	0.20 % to 30.00 %
131	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	SO <sub>3</sub>	ASTM C-25: 2017	0.05 % to 5.00 %
132	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	TiO <sub>2</sub>	IS 12423-1988,RA: 2014	0.02 % to 2.00 %
133	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	MgO	IS 1760 (Part 3)-1992,RA: 2017	0.15 % to 22.00 %
134	CHEMICAL- ORES & MINERALS	Limestone, Dolomite and Allied Materials	Mn <sub>2</sub> O <sub>3</sub>	NCB monograph (MS-5): 1979	0.02 % to 2.00 %
135	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Acidity as CaCO <sub>3</sub>	IS: 3025 (Part 22)-1986, RA: 2014	0.5 mg/l to 500 mg/l
136	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Alkalinity as CaCO <sub>3</sub>	IS: 3025 (Part 23)-1986, RA: 2014	0.5 mg/l to 500 mg/l





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 19 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
137	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Calcium	IS: 3025 (Part 40)-1991, RA: 2014	1.0 mg/l to 500 mg/l
138	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Chloride	IS: 3025 (Part 32)-1988, RA: 2014	20 mg/l to 5000 mg/l
139	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Fluoride	IS:3025(Part 60)-2008, RA: 2013	0 mg/l to 20 mg/l
140	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Hardness as CaCO <sub>3</sub>	IS:3025 (Part 21)-2009, RA: 2014	10 mg/l to 1900 mg/l
141	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Magnesium	IS: 3025 (Part 46)-1994, RA: 2014	1.0 mg/l to 500 mg/l
142	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Odour	IS: 3025 (Part 5)-1983, RA: 2017	Qualitative(----)
143	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	pH	IS: 3025 (Part 11)-1983, RA: 2017	1 to 13
144	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Potassium	IS: 3025 (Part 45)-1993, RA: 2014	0 mg/l to 1000 mg/l
145	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Sodium	IS: 3025 (Part 45)-1993,RA: 2014	0 mg/l to 1000 mg/l
146	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Sp. Conductance	IS:3025 (Part 14)-1984, RA: 2013	0 μ mhos/cm to 10000 μ mhos/cm



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 20 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
147	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Sulphate	IS: 3025 (Part 24)-1986, RA: 2014	20 mg/l to 2000 mg/l
148	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Suspended Matter / Total Suspended Solids	IS: 3025 (Part 17)-1984, RA: 2017	5 mg/l to 2000 mg/l
149	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Temperature	IS: 3025 (Part 9)-1984, RA: 2017	10 °C to 80 °C
150	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Total Dissolved Solids / Filterable Residue	IS: 3025 (Part 16)-1984, RA: 2017	10 mg/l to 10000 mg/l
151	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Total Solids (Dissolved & Suspended)	IS:3025 (Part 15)-1984, RA: 2014	5 to 12000
152	CHEMICAL- POLLUTION & ENVIRONMENT	Water / Waste Water	Turbidity	IS: 3025 (Part 10)-1984: 2017	0 NTU to 1000 NTU
153	CHEMICAL- SOIL AND ROCK	SOIL	Calcium Carbonate	IS 2720(Part-23)-1976, RA: 2015	1.00 % to 20.00 %
154	CHEMICAL- SOIL AND ROCK	SOIL	Organic Matter	IS 2720(Part-22)-1972, RA: 2015	0.05 % to 5.00 %
155	CHEMICAL- SOIL AND ROCK	SOIL	pH Value	IS 2720(Part-26)-1987, RA: 2016	1 to 13
156	CHEMICAL- SOIL AND ROCK	SOIL	Total Soluble Solids	IS 2720(Part-21)-1977, RA: 2015	0.01 % to 2.00 %
157	CHEMICAL- SOIL AND ROCK	SOIL	Total Soluble Sulphate as Na <sub>2</sub> SO <sub>4</sub>	IS 2720(Part-27)-1977, RA: 2015	0.001 % to 5.00 %
158	CHEMICAL- SOIL AND ROCK	SOIL	Total Soluble Sulphate as SO <sub>4</sub>	IS 2720(Part-27)-1977, RA: 2015	0.001 % to 5.00 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 21 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
159	CHEMICAL- SOLID FUELS	Coal and Coke (Ultimate Analysis)	Nitrogen	IS:16612: 2018	0.50 % to 3.00 %
160	CHEMICAL- SOLID FUELS	Coal and Coke(Proximate Analysis)	Ash	IS 1350 (Part 1)-1984, RA: 2013	0.10 % to 60.00 %
161	CHEMICAL- SOLID FUELS	Coal and Coke(Proximate Analysis)	Carbon	IS:16612: 2018	0.50 % to 90.00 %
162	CHEMICAL- SOLID FUELS	Coal and Coke(Proximate Analysis)	Volatile Matter	IS 1350 (Part 1)-1984, RA: 2013	0.20 % to 55.00 %
163	CHEMICAL- SOLID FUELS	Coal and Coke(Ultimate Analysis)	Calorific value	IS 1350 (Part 2): 2017	200 Kcal/Kg to 9000 Kcal/Kg
164	CHEMICAL- SOLID FUELS	Coal and Coke(Ultimate Analysis)	Chlorine	IS 1350 (Part 5): 2017	0.002 % to 0.500 %
165	CHEMICAL- SOLID FUELS	Coal and Coke(Ultimate Analysis)	Sulphur	IS:16609-2018/ IS1350 (Pt-3): 1969	0.10 % to 15.00 %
166	CHEMICAL- SOLID FUELS	Coal and Coke(Ultimate Ananalysis)	Hydrogen	IS:16612: 2018	0.50 % to 8.00 %
167	CHEMICAL- SOLID FUELS	Coal and Coke(Ultimate Anlysis)	Hard Grove Grindability Index	ASTM D 409:2016/ IS 4433-1979, RA: 2015	30 to 95
168	CHEMICAL- WATER	Water for Construction	0.02N H2SO4 used to neutralize 100 ml sample	IS 456:2000/IS: 3025 (Part 23)-1986, RA: 2014	0.1 ml to 50 ml



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 22 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
169	CHEMICAL- WATER	Water for Construction	0.02N NaOH used to neutralize 100ml sample	IS456:2000/IS: 3025 (Part 22)-1986, RA: 2014	0.1 ml to 15 ml
170	CHEMICAL- WATER	Water for Construction	Chloride	IS: 3025 (Part 32)-1988, RA: 2014	20 mg/l to 5000 mg/l
171	CHEMICAL- WATER	Water for Construction	Inorganic matter (Fixed Residue)	IS: 3025 (Part 18)-1984, RA: 2017	50 mg/l to 6000 mg/l
172	CHEMICAL- WATER	Water for Construction	Organic matter (Volatile Residue)	IS456:2000/IS: 3025 (Part 18)-1984, RA: 2017	5 mg/l to 1000 mg/l
173	CHEMICAL- WATER	Water for Construction	pH	IS 456:2000 / IS: 3025 (Part 11)-1983, RA: 2017	1 to 14
174	CHEMICAL- WATER	Water for Construction	Sulphate	IS 456:2000/ IS: 3025 (Part 24)-1986, RA: 2014	20 mg/l to 2000 mg/l
175	CHEMICAL- WATER	Water for Construction	Suspended Matter / Total Suspended Solids	IS 456:2000/ IS: 3025 (Part 17)-1984, RA: 2017	5 mg/l to 2000 mg/l
176	MECHANICAL- BUILDINGS MATERIALS	Silica Fume	Specific Surface area by BET Method	IS: 15388: 2003	10 m <sup>2</sup> /g to 20 m <sup>2</sup> /g
177	MECHANICAL- BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Compressive Strength	IS 3495 (Part I): 1992	1 N/mm <sup>2</sup> to 50 N/mm <sup>2</sup>
178	MECHANICAL- BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (Height)	IS 1077: 1992	1000 mm to 3000 mm



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 23 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
179	MECHANICAL-BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (Length)	IS 1077: 1992	3000 mm to 6000 mm
180	MECHANICAL-BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Dimension (Width)	IS 1077: 1992	1500 mm to 3000 mm
181	MECHANICAL-BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Efflorescence	IS 3495 (Part III): 1992	Qualitative
182	MECHANICAL-BUILDINGS MATERIALS	BUILDING BRICKS (Burnt Clay & Lime Pulverized Fuel ash)	Water Absorption	IS 3495 (Part II): 1992	1 % to 30 %
183	MECHANICAL-BUILDINGS MATERIALS	Ceramic Glazed Tiles	Crazing Resistance	IS:13630 (Part-9): 2006	Qualitative
184	MECHANICAL-BUILDINGS MATERIALS	Ceramic Glazed Tiles	Modulus of Rupture	IS:13630 (Part-6): 2006	11 N/mm <sup>2</sup> to 100 N/mm <sup>2</sup>
185	MECHANICAL-BUILDINGS MATERIALS	Ceramic Glazed Tiles	Water Absorption	IS: 13630(Part-2) : 2006	5 % to 25 %
186	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Compressive Strength	IS 4031 (Pt-6): 1988	05 MPa to 80 MPa
187	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Density	IS 4031 (Pt-11): 1988	1.50 to 4.00
188	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Drying Shrinkage	IS 4031 (Pt-10): 1988	0.01 % to 0.75 %





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 24 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
189	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Final Setting Time	IS 4031 (Pt-5): 1988	100 minutes to 600 minutes
190	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Fineness by wet sieving	IS 4031 (Pt-15): 1988	1.0 % to 40.0 %
191	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Heat of Hydration	IS 4031 (Pt-9): 1988	50 KJ/kg to 450 KJ/kg
192	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Initial Setting Time	IS 4031 (Pt-5): 1988	10 minute to 300 minute
193	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Soundness (Autoclave Expansion)	IS 4031(Part3): 1988	0.01 % to 2.00 %
194	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Soundness( Le Chatelier Expansion)	IS 4031 (Pt-3): 1988	0.5 mm to 15 mm
195	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Specific Surface area by Blaine Air Permeability Method	IS 4031 (Pt-2): 1999	150 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg
196	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Standard Consistency	IS 4031 (Pt-4): 1988	20 % to 45 %
197	MECHANICAL-BUILDINGS MATERIALS	Clinker & Hydraulic Cement	Whiteness of Cement	IS 8042: 2015	40 % to 96 %
198	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggegate	Crushing Value	IS 2386 (Pt-4)-1963, RA: 2016	5 % to 60 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 25 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
199	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Pt-4)-1963, RA : 2016	5 T to 50 T
200	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Abrasion Value (Los Angeles)	IS 2386 (Pt-4)-1963, RA: 2016	5 % to 60 %
201	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity	IS 2386 (Pt-7)-1963, RA: 2016	0.01 % to 2.0 %
202	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Pt-3)-1963, RA: 2016	1.50 kg/l to 4.50 kg/l
203	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material	IS 2386 (Pt-2)-1963, RA: 2016	0.1 % to 10 %
204	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Pt-1)-1963, RA: 2016	5 % to 50 %
205	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Pt-1)-1963, RA: 2016	5 % to 50 %
206	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Pt-4)-1963, RA: 2016	5 % to 60 %
207	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Pt-1)-1963, RA: 2016	80 to 2.36
208	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness	IS 2386 (Pt-5)-1963, RA: 2016	0.01 % to 15 %



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name	NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS (TESTING LABORATORIES), 34 KM STONE, DELHI- MATHURA ROAD, NH-2, BALLABGARH, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5296	Page No. :	26 / 30
Validity	17/03/2019 to 16/03/2021	Last Amended on	29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
209	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Pt-3)-1963, RA: 2016	2 to 4
210	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Voids	IS 2386 (Pt-3)-1963, RA: 2016	10 % to 60 %
211	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386 (Pt-3)-1963, RA: 2016	0.1 % to 5.0 %
212	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Alkali Aggregate Reactivity	IS 2386 (Pt-7)-1963, RA: 2016	0.01 % to 2.0 %
213	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk density	IS 2386 (Pt-3)-1963, RA: 2016	1.50 kg/l to 4.50 kg/l
214	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material	IS 2386 (Pt-2)-1963, RA: 2016	0.1 % to 10 %
215	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 $\mu$ sieve	IS 2386 (Pt-1)-1963, RA: 2016	0.5 % to 20 %
216	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Mortar Making Properties	IS 2386 (Pt-6)-1963, RA: 2016	50 % to 100 %
217	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Pt-2)-1963, RA: 2016	Qualitative
218	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Pt-1)-1963, RA: 2016	10 mm to 150 micron



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name	NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS (TESTING LABORATORIES), 34 KM STONE, DELHI- MATHURA ROAD, NH-2, BALLABGARH, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5296	Page No. :	27 / 30
Validity	17/03/2019 to 16/03/2021	Last Amended on	29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
219	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness	IS 2386 (Pt-5)-1963, RA: 2016	0.01 % to 20 %
220	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Pt-3)-1963, RA: 2016	2 to 4
221	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Voids	IS 2386 (Pt-3): 1963	10 % to 60 %
222	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Pt-3): 1963	0.1 % to 5.0 %
223	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Air Content	IS:1199: 1959	0.1 % to 15 %
224	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Bleeding	IS:9103: 1999	0 % to 10 %
225	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Final Setting Time	IS:8142: 1976	30 minute to 2880 minute
226	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Initial Setting Time	IS:8142: 1976	30 minute to 2880 minute
227	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Workability of Concrete by Slump test	IS:1199: 1959	25 mm to 180 mm
228	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS: 516: 1959	100 Kg/cm <sup>2</sup> to 1200 Kg/cm <sup>2</sup>



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 28 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
229	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Electrical Indication of Concrete's ability to resist Chloride Ion Penetration	ASTM: C1202: 2012	0 Coulombs to 5000 Coulombs
230	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS: 516: 1959	20 Kg/cm <sup>2</sup> to 100 Kg/cm <sup>2</sup>
231	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Water Permeability of Hardened Concrete	IS 516 ( Part-2-Sec-1): 2018	1 mm to 150 mm
232	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash and Metakaoline	Specific Surface area by Blaine air Permeability Method	IS 1727 : 1967	150 m <sup>2</sup> /kg to 600 m <sup>2</sup> /kg
233	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Compressive Strength at 07 days (w.r.t. control sample)	IS: 15388: 2003	70 % to 120 %
234	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Compressive Strength at 28 days (w.r.t. control sample)	IS 1727: 1967	60 % to 110 %
235	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Lime Reactivity	IS 1727: 1967	02 MPa to 20 MPa
236	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Retained on 45 micron sieve	IS 1727: 1967	05 % to 50 %
237	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Soundness (Autoclave Expansion)	IS 1727: 1967	0.01 % to 2.0 %





# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name	NATIONAL COUNCIL FOR CEMENT AND BUILDING MATERIALS (TESTING LABORATORIES), 34 KM STONE, DELHI- MATHURA ROAD, NH-2, BALLABGARH, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5296	Page No. :	29 / 30
Validity	17/03/2019 to 16/03/2021	Last Amended on	29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
238	MECHANICAL-BUILDINGS MATERIALS	Pulverized fuel Ash, Metakaoline and Silica Fume	Specific Gravity	IS 1727: 1967	1.5 to 4.0
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Bend Test	IS:1599: 2012	Qualitative
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Elongation	IS: 1608 (Part-1): 2018	10 % to 40 %
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Mass per meter run	IS: 1786: 2008	0.3 Kg to 8.5 Kg
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Rebend Test	IS:1786: 2008	Qualitative
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Tensile Strength	IS: 1608 (Part-1): 2018	250 N/mm <sup>2</sup> to 800 N/mm <sup>2</sup>
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Yield Strength or 0.2 % proof stress	IS: 1608 (Part-1): 2018	250 N/mm <sup>2</sup> to 800 N/mm <sup>2</sup>



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

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

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5296 Page No. : 30 / 30

Validity 17/03/2019 to 16/03/2021 Last Amended on 29/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
<b>Site Facility</b>					
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Rebound Hammer Test	IS 13311(part 2): 1992	10 N/mm <sup>2</sup> to 70 N/mm <sup>2</sup>
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete	Ultrasonic Pulse Velocity Test	IS 13311(part 1): 1992	1.5 km/s to 5.5 km/s