



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ALLIED RESEARCH CENTRE, ASHIRWAD CO-OP HOUSING SOCIETY LTD, A-7-10, PLOT NO.13, SECTOR 6, GHANSOLI, NAVI MUMBAI, MAHARASHTRA , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-6692 Page No. : 1 / 4

Validity 03/01/2018 to 02/01/2020 Last Amended on 25/02/2019

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	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 PART-6-1988 RA: 2014	5 N/mm <sup>2</sup> to 75 N/mm <sup>2</sup>
2	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 PART-11-1988 RA: 2014	2.8 to 3.3
3	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 PART-5-1988 RA: 2014	100 minute to 700 minute
4	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness By Blaine Air Permeability	IS 4031 PART-2-1999 RA: 2013	200 m <sup>2</sup> /kg to 700 m <sup>2</sup> /kg
5	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 PART-5-1988 RA: 2014	30 minute to 300 minute
6	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Lechatlier's Method	IS 4031 PART-3-1988 RA: 2014	0 mm to 10 mm
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031 PART-4-1988 RA: 1988	20 % to 40 %
8	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10 % Fine Value	IS 2386 : Part 4 -1963 RA: 2016	5 kN to 400 kN
9	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 : Part 4 -1963 RA : 2016	1 % to 50 %



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10	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 : Part 1-1963 RA: 2016	1 % to 60 %
11	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 : Part 4 -1963 RA : 2016	1 % to 50 %
12	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Loose & Rodded Bulk Density	IS 2386 : Part 3 -1963 RA: 2016	500 kg/m <sup>3</sup> to 2000 kg/m <sup>3</sup>
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Loss Angles Abrasion Value	IS 2386 : Part 4 -1963 RA: 2016	1 % to 60 %
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(4.75 mm mm to 80 mm)	IS 2386 : Part 1-1963 RA: 2016	0.1 % to 100 %
15	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 : Part 3-1963 RA: 2016	2 to 4
16	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 : Part 3-1963 RA: 2016	0.1 % to 6 %
17	MECHANICAL-BUILDINGS MATERIALS	Coase Aggregate	Elongation Index	IS 2386 : Part 1-1963 RA: 2016	1 % to 60 %
18	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Loose & Rodded Bulk Density	IS 2386 : Part 3-1963 RA: 2016	500 kg/m <sup>3</sup> to 2000 kg/m <sup>3</sup>
19	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Particle Finer than 75 micron	IS 2386 : Part 1-1963 RA: 2016	1 % to 10 %



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20	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(150 mic to 4.75 mm)	IS 2386 : Part 1-1963 RA: 2016	0 % to 100 %
21	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Specific Gravity	IS 2386 : Part 3-1963 RA: 2016	2 to 4
22	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 : Part 3-1963 RA: 2016	0.1 % to 6 %
23	MECHANICAL- BUILDINGS MATERIALS	Harden Concrete	Compressive Strength	IS 516-1959 RA: 2013	5 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
24	MECHANICAL- SOIL AND ROCK	Soil	CBR- Unsoaked	IS 2720 PART-16-1987 RA: 2016	1 % to 50 %
25	MECHANICAL- SOIL AND ROCK	Soil	CBR-Soaked	IS 2720 PART-16-1987 RA: 2016	1 % to 50 %
26	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 PART-40-1977 RA: 1977	1 % to 75 %
27	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction-MDD	IS 2720-PART-8-1983 RA: 2015	1.3 g/cm <sup>3</sup> to 3 g/cm <sup>3</sup>
28	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction-OMC	IS 2720-PART-8-1983 RA: 2015	5 % to 30 %
29	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction-MDD	IS 2720-PART-7-1983 RA: 2016	1.3 g/cm <sup>3</sup> to 3 g/cm <sup>3</sup>
30	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction-OMC	IS 2720-PART-7-1983 RA: 2016	5 % to 30 %
31	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720-PART-5-1985 RA : 2015	5 % to 75 %



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32	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720-PART-5-1985 RA: 2015	1 % to 75 %
33	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 PART-3/sec-2- 1980 RA: 2016	1.5 to 3