



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name M/S MPAD ENGINEERING QUALITY CONTROL LAB, PLOT NO. CFC - 4/A/1, KANCHAIMARAT (V), HARDWARE PARK, TSIIC, HYDERABAD, RANGA REDDY, TELANGANA , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8237 Page No. : 1 / 4

Validity 01/01/2019 to 31/12/2020 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

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
Permanent Facility					
1	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part VI)-1988 RA: 2014	10 N/mm ² to 80 N/mm ²
2	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part IV)-1988 RA: 2014	20 % to 40 %
3	MECHANICAL-BUILDINGS MATERIALS	Cement	Final setting Time	IS 4031 (Part V)-1988 RA: 2014	100 minutes to 600 minutes
4	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability Method	IS 4031 (Part II)-1999 RA: 2013	100 sq.m/kg to 600 sq.m/kg
5	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part V)-1988 RA: 2014	5 minutes to 300 minutes
6	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness by Le-Chatlier's method	IS 4031 (Part III)-1988 RA: 2014	0.05 mm to 10 mm
7	MECHANICAL-BUILDINGS MATERIALS	Cement	Specific Gravity	IS 4031 (Part XI)-1988 RA: 2014	2.8 to 3.3
8	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose)	IS 2386 (Part III)-1963 RA: 2016	1.20 kg/l to 2.5 kg/l
9	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Rodded)	Is 2386 (Part III)-1963 RA: 2016	1.20 kg/l to 2.50 kg/l



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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
10	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part I)-1963 RA: 2016	1 % to 70 %
11	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1) -1963 RA: 2016	1 % to 70 %
12	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part IV)-1963 RA: 2016	1 % to 50 %
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	Is 2386 (Part-I) -1963 RA: 2016	4.75 mm to 80 mm
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part III)-1963 RA: 2016	2 to 4
15	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part III)-1963 RA: 2016	0.1 % to 10 %
16	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516-1959 RA: 2013	5 N/mm ² to 80 N/mm ²
17	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Rodded)	IS 2386 (Part III)-1963 RA: 2016	1.20 kg/l to 2.50 kg/l
18	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part I)-1963 RA: 2016	0.075 mm to 4.75 mm



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19	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part III)-1963 RA: 2016	2 to 4
20	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part III)-1963 RA: 2016	0.1 % to 10 %
21	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulk Density (Loose)	IS 2386 (Part III)-1963 RA: 2016	1.20 kg/l to 2.50 kg/l
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcing HSD Bars	Mass per meter	IS 1786: 2008	0.1 kg/m to 15 kg/m
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcing HSD Bars	Percentage Elongation	IS 1608: 2005	10 % to 35 %
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcing HSD Bars	Ultimate Tensile Strength	IS 1608: 2005	20 kN to 1000 kN
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcing HSD Bars	Yield Stress	IS 1608: 2005	20 kN to 1000 kN
26	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Test Cohesion - C	IS 2720 (Part 13)-1986 RA: 2016	0 kg/cm ² to 2.0 kg/cm ²
27	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Test Angle of Internal Friction - f	IS 2720 (Part 13)-1986 RA: 2016	0 ° to 45 °



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28	MECHANICAL- SOIL AND ROCK	Soils	Free Swell Index	IS 2720 (Part 40)-1977 RA: 2016	0.1 % to 200 %
29	MECHANICAL- SOIL AND ROCK	Soils	Light Compaction Maximum Dry Density	IS 2720 (Part 7)-1980 RA: 2016	1.40 g/cc to 2.50 g/cc
30	MECHANICAL- SOIL AND ROCK	Soils	Light Compaction Optimum Moisture Content	IS 2720 (Part 7)-1980 RA: 2016	0.1 % to 30 %
31	MECHANICAL- SOIL AND ROCK	Soils	Liquid Limit	IS 2720 (Part 5)-1985 RA: 2015	0.1 % to 100 %
32	MECHANICAL- SOIL AND ROCK	Soils	Moisture Content	IS 2720 (Part 2)-1973 RA: 2015	1 % to 40 %
33	MECHANICAL- SOIL AND ROCK	Soils	Particle Size Distribution	IS 2720 (Part 4)-1985 RA: 2015	0.075 mm to 125 mm
34	MECHANICAL- SOIL AND ROCK	Soils	Plastic Limit	IS 2720 (Part 5)-1985 RA: 2015	0.1 % to 40 %
35	MECHANICAL- SOIL AND ROCK	Soils	Specific Gravity	IS 2720 (Part 3)-1980 RA: 2016	2.20 to 2.80