



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name AMARAVATHI LABS PRIVATE LIMITED, D.NO-8-225, ETUKURU BYPASS ROAD, GUNTUR, ANDHRA PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8329 Page No. : 1 / 5

Validity 12/02/2019 to 11/02/2021 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	Bricks (Clay & Fly ash)	Compressive Strength	IS 3495 (Part 1): 1992 (RA 2016)	1 N/mm ² to 20 N/mm ²
2	MECHANICAL-BUILDINGS MATERIALS	Bricks (Clay & Fly ash)	Water Absorption	IS 3495 (Part 2): 1992 (RA 2016)	1 % to 25 %
3	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (part 6): 1988 (RA 2014)	10 N/mm ² to 80 N/mm ²
4	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting time	IS 4031 (part 5): 1988 (RA 2014)	40 minutes to 800 minutes
5	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031 (Part 5): 1988 (RA 2014)	30 minutes to 400 minutes
6	MECHANICAL-BUILDINGS MATERIALS	Cement	Standard Consistency	IS 4031 (part 4): 1988 (RA 2014)	20 % to 50 %
7	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk density (Rodded)	IS 2386 (part 3): 1963 (RA 2016)	1 kg/L to 2.5 kg/L
8	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Strength	IS 2386 (part 4): 1963 (RA 2016)	1 % to 60 %
9	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness & Elongation Index	IS 2386 (part 1): 1963 (RA 2016)	1 % to 70 %



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10	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (part 4): 1963 (RA 2016)	1 % to 60 %
11	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (part 1): 1963 (RA 2016)	upto to 100 % (80mm to 4.75 mm)
12	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (part 3): 1963 (RA 2016)	2 to 4
13	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS 2386(part 3): 1963 (RA 2016)	1 % to 25 %
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Bulk density (Loose)	IS 2386 (part 3): 1963 (RA 2016)	1 kg/L to 2.5 kg/L
15	MECHANICAL-BUILDINGS MATERIALS	Concrete Cube/Core	Compressive Strength	IS 516: 1959 (RA 2013)	1 N/mm ² to 80 N/mm ²
16	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk density (Loose)	IS 2386 (part 3): 1963 (RA 2016)	1 kg/L to 2.5 kg/L
17	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk density (Rodded)	IS 2386 (part 3): 1963 (RA 2016)	1 kg/L to 2.5 kg/L
18	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (part 1): 1963 (RA 2016)	upto to 100 % (10 to 0.075mm)



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19	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (part 3): 1963 (RA 2016)	2 to 4
20	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (part 3): 1963 (RA 2016)	1 % to 25 %
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel bars for Concrete Reinforcement	Yield Strength	IS 1608: Part 1: 2018	80 N/mm ² to 1000 N/mm ²
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel bars for Concrete (Reinforcement)	Mass per Metre	IS 1786: RA: 2013	0.1 kg/m to 9.85 kg/m
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel bars for Concrete Reinforcement	Tensile Strength	IS 1608: Part 1: 2018	100 N/mm ² to 1100 N/mm ²
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel bars for Concrete Reinforcement	Elongation percentage	IS 1608: Part 1: 2018	1 % to 50 %
25	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720(Part 16): 1987 (RA 2016)	1 % to 100 %
26	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear (Angle of Shearing Resistance)	IS 2720 (Part 13): 1986 (RA 2016)	20 ° to 60 °
27	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977 (RA 2016)	upto to 200 %



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28	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by wet Sieving	IS 2720 (part 4): 1985 (RA 2015)	upto to 100 % (4.75 mm to 0.075 mm)
29	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8): 1983 (RA 2015)	1.2 gm/cc to 3 gm/cc
30	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8): 1983 (RA 2015)	5 % to 30 %
31	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7): 1980 (RA 2016)	1.2 gm/cc to 3 gm/cc
32	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7): 1980 (RA 2016)	5 % to 30 %
33	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5): 1985 (RA 2015)	15 % to 150 %
34	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985 (RA 2015)	upto to 70 %
35	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (part 3/sec I): 1980 (RA 2016)	2 to 2.8
36	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compression test	IS 2720 (Part 10): 1991 (RA 2010)	20 kN/m ² to 300 kN/m ²



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Site Facility					
1	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977 (RA 2016)	upto to 200 %