



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SUNDAR ASSOCIATES, QUALITY CONTROL LABORATORY, 27-9-52, KAKINADA, EAST GODAVARI, ANDHRA PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-6649 Page No. : 1 / 5

Validity 10/10/2018 to 09/10/2020 Last Amended on 19/11/2018

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	Burnt clay Bricks/ Fly ash bricks/ Fly ash Lime bricks	Compressive strength	IS:3495-Part – I-1992 Reaffirmed-2011: 1992	2.8 Mpa to 13.0 Mpa
2	MECHANICAL-BUILDINGS MATERIALS	Burnt clay Bricks/ Fly ash bricks/ Fly ash Lime bricks	Water absorption	IS:3495(Part 2) – 1992 Reaffirmed-2011: 1992	1 % to 50 %
3	MECHANICAL-BUILDINGS MATERIALS	CEMENT	COMPRESSIVE STRENGTH	IS 4031 PART-7: 1988	0.2 to 120
4	MECHANICAL-BUILDINGS MATERIALS	CEMENT	FINAL SETTING TIME	IS 4031 PART-5: 1988	120 to 600
5	MECHANICAL-BUILDINGS MATERIALS	CEMENT	FINENESS OF CEMENT	IS 4031 PART-1: 1996	0.5 to 100
6	MECHANICAL-BUILDINGS MATERIALS	CEMENT	INITIAL SETTING TIME	IS 4031 PART-5: 1988	10 min to 195 min
7	MECHANICAL-BUILDINGS MATERIALS	CEMENT	NORMAL CONSISTENCY	IS 4031 PART-4: 1988	10 to 40
8	MECHANICAL-BUILDINGS MATERIALS	CEMENT	SOUNDNESS TEST	IS 4031 PART -3: 1988	Upto 10 mm
9	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	10% fines value	IS:2386 part 4-1963 reaffirmed-2016: 1963	50 kN to 200 kN



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Certificate Number TC-6649 Page No. : 2 / 5

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10	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Crushing value	IS:2386 part 4-1963 reaffirmed-2016: 1963	1 % to 50 %
11	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Elongation Index	Is:2386 part 1-1963 reaffirmed-2016: 1963	1 % to 50 %
12	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Flakiness index	Is:2386 part 1-1963 reaffirmed-2016: 1963	1 % to 50 %
13	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Impact value	IS:2386 part 4-1963 reaffirmed-2016: 1963	1 % to 50 %
14	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los Angles Abrasion Test	is 2386 part-4: 1963	0.5 % to 100 %
15	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Specific gravity	IS:2386 Part 3 1963 reaffirmed-2016: 1963	2 to 4
16	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Water absorption	IS:2386 Part 3 1963 reaffirmed-2016: 1963	1 % to 25 %
17	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Sieve analysis	Is:2386 part 1-1963 reaffirmed-2016: 1963	2.36 mm to 63 mm
18	MECHANICAL-BUILDINGS MATERIALS	concrete Cube/ Core	Compressive strength	IS:516 -1959 reaffirmed- 2013: 1959	7.5 Mpa to 80 Mpa
19	MECHANICAL-BUILDINGS MATERIALS	fine aggregate	Sieve analysis	Is:2386 part 1-1963 reaffirmed-2016: 1963	75 microns to 10 mm



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Certificate Number TC-6649 Page No. : 3 / 5

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20	MECHANICAL-BUILDINGS MATERIALS	fine aggregate	Silt/clay content	Is:2386 part 1-1963 reaffirmed-2016: 1963	0.1 % to 10 %
21	MECHANICAL-BUILDINGS MATERIALS	fine aggregate	Specific gravity	IS:2386 Part 3 1963 reaffirmed-2016: 1963	2 to 4
22	MECHANICAL-BUILDINGS MATERIALS	fine aggregate	Water absorption	IS:2386 Part 3 1963 reaffirmed-2016: 1963	1 % to 25 %
23	MECHANICAL-BUILDINGS MATERIALS	Hallow & solid concrete Brick	Compressive strength	IS:2185 Part2-1983 reaffirmed-2010: 1983	1.0 Mpa to 40.0 Mpa
24	MECHANICAL-BUILDINGS MATERIALS	Hallow & solid concrete Brick	Water absorption	IS-2185 Part – I 2005 reaffirmed-2010: 2005	1 % to 50 %
25	MECHANICAL-BUILDINGS MATERIALS	soil	California bearing ratio (CBR)	IS 2720 (Part -16) – 1987 reaffirmed – 2011: 1987	5 % to 80 %
26	MECHANICAL-BUILDINGS MATERIALS	soil	Direct shear test c	IS 2720 (Part 13) – 1986 reaffirmed 2011: 1986	0.5 kg/cm ² to 400 kg/cm ²
27	MECHANICAL-BUILDINGS MATERIALS	soil	Direct shear test Ø	IS 2720 (Part 13) – 1986 reaffirmed 2011: 1986	20 ° to 40 °
28	MECHANICAL-BUILDINGS MATERIALS	soil	Grain size analysis	IS:2720(Part -4) – 1985 reaffirmed – 2010: 1985	75 microns to 10 mm
29	MECHANICAL-BUILDINGS MATERIALS	soil	Heavy compaction MDD	IS 2720 (Part -8) -1983 reaffirmed-2010: 1983	1 g/cc to 3 g/cc



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Certificate Number TC-6649 Page No. : 4 / 5

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30	MECHANICAL-BUILDINGS MATERIALS	soil	Heavy compaction OMC	IS 2720 (Part -8) -1983 reaffirmed-2010: 1983	2 % to 15 %
31	MECHANICAL-BUILDINGS MATERIALS	soil	Light compaction MDD	IS 2720 (Part 7) – 1980 Reaffirmed- 2011: 1980	1.52 g/cc to 2.50 g/cc
32	MECHANICAL-BUILDINGS MATERIALS	soil	Light compaction OMC	IS 2720 (Part 7) – 1980 Reaffirmed- 2011: 1980	2 % to 15 %
33	MECHANICAL-BUILDINGS MATERIALS	soil	Liquid limit	IS 2720 (Part -5 _ - 1985 reaffirmed – 2010: 1985	20 % to 80 %
34	MECHANICAL-BUILDINGS MATERIALS	soil	Plastic limit	IS 2720 (Part -5 _ - 1985 reaffirmed – 2010: 1985	6 % to 35 %
35	MECHANICAL-BUILDINGS MATERIALS	soil	Triaxial compression Test	IS 2720 (Part 11) – 1993 Reaffirmed – 2011: 1993	1 kg/cm ² to 4 kg/cm ²
36	MECHANICAL-BUILDINGS MATERIALS	soil	Unconfined compression test	IS 2720 (Part -10) – 1991 reaffirmed – 2010: 1991	0.2 kg/cm ² to 3 kg/cm ²
37	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	REBOUND HAMMER TEST	COMPRESSION STRENGTH	IS 13311-PART 2: 1992	10 to 60



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38	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	ULTRASONIC PULSE VELOCITY TEST	PULSE VELOCITY	IS 13311 PART 1: 1992	0.1 to 9999.9