



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ANNOOR TEST LABS AND ENGINEERING SERVICES PRIVATE LIMITED, #2-90, VENUS BAZAR, SRINAGAR COLONY, GANNAVARAM, KRISHNA, ANDHRA PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5332 Page No. : 1 / 10

Validity 04/05/2019 to 03/05/2021 Last Amended on -

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	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103: 2013	1.0 % to 35 %
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chlorides	IS 6925 :1975, RA: 2014	0.001 % to 0.1 %
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103: 2013	01 % to 60 %
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103: 2013	4.0 to 12
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103: 2013	1.0 % to 1.3 %
6	CHEMICAL- BUILDING MATERIAL	Aggregates	Chlorides as Cl	BS EN -1744 -1: 2009 +A1: 2012, RA: 2014	0.001 % to 0.1 %
7	CHEMICAL- BUILDING MATERIAL	Aggregates	Sulphates	BS EN -1744 -1: 2009 +A1: 2012, RA: 2014	0.01 % to 0.1 %
8	CHEMICAL- BUILDING MATERIAL	Soil	Calcium Carbonate	IS 2720 (Part 23) :1972, RA: 2010	0 % to 10 %
9	CHEMICAL- BUILDING MATERIAL	Soil	Conductivity	IS 14767:2000, RA: 2016	0.1 mmhos/cm to 100 mmhos/cm
10	CHEMICAL- BUILDING MATERIAL	Soil	Moisture	IS 2720 (Part 02):1973, RA: 2015	0 % to 20 %
11	CHEMICAL- BUILDING MATERIAL	Soil	Organic Matter	IS 2720 (Part 22) :1972, RA: 2015	0.5 % to 50 %
12	CHEMICAL- BUILDING MATERIAL	Soil	pH	IS 2720 (Part 26) :1987, RA: 2011	1.0 to 14.0
13	CHEMICAL- BUILDING MATERIAL	Soil	Phosphorus	IS 10158:1982, RA: 2009	1.0 % to 10 %



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14	CHEMICAL- BUILDING MATERIAL	Soil	Total Kjeldhal Nitrogen	IS 14684:1999, RA: 2014	0.01 % to 1.0 %
15	CHEMICAL- BUILDING MATERIAL	Soil	Water Soluble Sulphate	IS 2720 (Part 27):1977, RA: 2015	1.0 % to 10.0 %
16	CHEMICAL- WATER	Construction Water	0.02N H2SO4 to neutralize 100 ml sample of water, using mixed indicator	IS 3025 (Part 23):2014 & IS 456:2000, RA: 2016	0.1 ml to 100 ml
17	CHEMICAL- WATER	Construction Water	0.02N NaoH required to neutralize 100 ml sample of water, using phenolphthalein as an indicator	IS 3025 (Part 22):2014 & IS 456:2000, RA: 2016	0.1 ml to 10 ml
18	CHEMICAL- WATER	Construction Water	Chlorides	IS 3025 (Part 32): 2014	5.0 mg/l to 2000 mg/l
19	CHEMICAL- WATER	Construction Water	In Organic Solids	IS 3025 (Part 18): 2012	10 mg/l to 8000 mg/l
20	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part 18): 2012	10 mg/l to 5000 mg/l
21	CHEMICAL- WATER	Construction water	pH	IS 3025 (Part 11): 2012	1 to 14
22	CHEMICAL- WATER	Construction Water	Sulphates as (SO3)	IS 3025 (Part 24): 2014	1 mg/l to 1000 mg/l
23	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (Part 17): 2012	10 mg/l to 1000 mg/l
24	CHEMICAL- WATER	Drinking Water	Calcium as (Ca)	IS 3025 (Part 40):1991, RA: 2014	2 mg/l to 1000 mg/l
25	CHEMICAL- WATER	Drinking water	Chlorides as (Cl)	IS 3025 (Part 32):1988, RA: 2014	1 mg/l to 2000 mg/l
26	CHEMICAL- WATER	Drinking water	Colour	IS 3025 (Part 04):1983, RA: 2012	2 Hazen Units to 20 Hazen Units
27	CHEMICAL- WATER	Drinking Water	Electrical Cnductivity	IS 3025 (Part 14):1984, RA: 2013	5 µs/cm to 5000 µs/cm



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28	CHEMICAL- WATER	Drinking Water	Fluorides as (F)	IS 3025 (Part 60):2008, RA: 2013	0.1 mg/l to 5 mg/l
29	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	IS 3025 (Part 26):1986, RA: 2014	0.1 mg/l to 10 mg/l
30	CHEMICAL- WATER	Drinking Water	Iron as (Fe)	IS 3025 (Part 53):2003, RA: 2014	0.1 mg/l to 10 mg/l
31	CHEMICAL- WATER	Drinking Water	Magnesium as (Mg)	IS 3025 (Part 46):1994, RA: 2014	2 mg/l to 800 mg/l
32	CHEMICAL- WATER	Drinking Water	Nitrates as (NO3)	IS 3025 (Part 34):1988, RA: 2014	1.0 mg/l to 100 mg/l
33	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part 05):1983, RA: 2012	Qualitative
34	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11):1983, RA: 2014	3 to 12
35	CHEMICAL- WATER	Drinking Water	Sulphates as (SO4)	IS 3025 (Part 24):1986, RA: 2014	1 mg/l to 1000 mg/l
36	CHEMICAL- WATER	Drinking Water	Total Alkalinity as (CaCO3)	IS 3025 (Part 23):1986, RA: 2014	1 mg/l to 1000 mg/l
37	CHEMICAL- WATER	Drinking water	Total Dissolved Solids	IS 3025 (Part 16):1984, RA: 2012	10 mg/l to 3000 mg/l
38	CHEMICAL- WATER	Drinking water	Total Hardness as (CaCO3)	IS 3025 (Part 21):2009, RA: 2014	1 mg/l to 1000 mg/l
39	CHEMICAL- WATER	Drinking water	Turbidity	IS 3025 (Part 10):1984, RA: 2012	0.1 NTU to 100 NTU
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity@60°C	IS 1206 (Part 2):1978, RA: 2014	400 Poises to 5000 Poises



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41	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208:1978, RA: 2014	20 cm to 200 cm
42	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209:1978, RA: 2014	150 °C to 360 °C
43	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209:1978, RA: 2014	100 °C to 360 °C
44	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity @135 °C	IS 1206 (Part 3) :1978, RA: 2014	100 cSt to 500 cSt
45	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203:1978, RA: 2014	10 mm to 350 mm
46	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening point	IS 1205:1978, RA: 2014	30 °C to 100 °C
47	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202:1978, RA: 2014	0.7 to 2.0
48	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495(Part 1):1992, RA: 2011	2.0 MPa to 90 MPa
49	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension -Width	IS 1077:1992, RA: 2011	1760 mm to 2160 mm
50	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions - Height	IS 1077:1992, RA: 2011	1360 mm to 1840 mm



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51	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions -Length	IS 1077:1992, RA: 2011	3720 mm to 4680 mm
52	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part.3):: 2011	Qualitative
53	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2):1992, RA: 2011	1.0 % to 25 %
54	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 (Part IV) :1963, RA: 2016	50 kN to 400 kN
55	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part II) :1963, RA: 2016	0.01 % to 50 %
56	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part IV):1963, RA: 2016	5.0 % to 60 %
57	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1):1963, RA: 2016	5.0 % to 50 %
58	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Finer than 75 microns	IS 2386 (Part 1):1963, RA: 2016	0.01 % to 50 %
59	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1):1963, RA: 2016	5.0 % to 50 %
60	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part IV):1963, RA: 2016	5.0 % to 60 %



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61	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3):1963, RA: 2016	2.0 % to 3.4 %
62	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3):1963, RA: 2016	0.2 % to 5.0 %
63	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part III):1963, RA: 2016	1.1 kg/l to 3.5 kg/l
64	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Grading (Seive Test)	IS 2386 (Part 1):1963, RA: 2016	75 micron to 80 mm
65	MECHANICAL-BUILDINGS MATERIALS	Emulsion	Ductility 27°C	IS 1208:1978, RA: 2014	20 cm to 200 cm
66	MECHANICAL-BUILDINGS MATERIALS	Emulsion	Penetration @25°C	IS 1203:1978, RA: 2014	10 1/10 mm to 350 1/10 mm
67	MECHANICAL-BUILDINGS MATERIALS	Emulsion	Residue on 600µ Sieve	IS 8887-D: 2017	0.1 % to 1.0 %
68	MECHANICAL-BUILDINGS MATERIALS	Emulsion	Viscosity by saybolt	IS 3117:2004, RA: 2014	20 s to 60 s
69	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3):1963, RA: 2016	1.1 kg/l to 3.5 kg/l
70	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part II):1963, RA: 2016	0.1 % to 50 %



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71	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Finer than 75 μ	IS 2386 (Part 1) :1963, RA: 2016	0.01 % to 50 %
72	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3):1963, RA: 2016	5.0 to 50
73	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Grading (Seive Test)	IS 2386 (Part 1) :1963, RA: 2016	75 micron to 10 mm
74	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3):1963, RA: 2016	5.0 % to 40 %
75	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959	2 MPa to 55 MPa
76	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Compressive Strength	IS 4031 (Part 6):1988, RA: 2009	1 MPa to 100 MPa
77	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Density	IS 4031 (Part 11):1988, RA: 2009	2 g/cm ³ to 4 g/cm ³
78	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Final Setting Time	IS 4031 (part 5):1988, RA: 2009	45 m to 600 m
79	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Fineness (By Blaine's Air permeability)	IS 4031 (Part 2):1999, RA: 2008	100 to 500
80	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Initial Setting Time	IS 4031 (Part 5):1988, RA: 2009	20 m to 300 m



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81	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Normal Consistency	IS 4031 (Part 4):1988, RA: 2009	20 % to 50 %
82	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Soundness (by Le-chatelier Method)	IS 4031 (Part 3):1988, RA: 2014	0.1 mm to 10 mm
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Bend Test	IS 1599-2012, RA: 2017	Qualitative(Mandrel Size:6, 24,32,36,40,50,65,70,80, 100,110,125,160 in mm)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Mass per Meter	IS 1786:2008, RA: 2013	0.1 kg/m to 20 kg/m
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Percent Elongation	IS 1608-Part 1: 2018	5.0 % to 50 %
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rebend Test	IS 1786:2008, RA: 2013	Qualitative(Mandrel Size:6, 24,32,36,40,50,65,70,80, 100,110,125,160 in mm)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Strength	IS 1608-Part1: 2018	100 MPa to 1500 MPa



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88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Yield Stress	IS 1608-Part1: 2018	100 MPa to 1300 MPa
89	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 (Part 16):1987, RA: 2011	1.0 % to 80 %
90	MECHANICAL- SOIL AND ROCK	Soil	Light compaction Optimum Moisture Content (OMC)	IS 2720 (Part 7&8):1983, RA: 2015	2.0 % to 40 %
91	MECHANICAL- SOIL AND ROCK	Soil	Light compactionMaximum Dry Density (MDD)	IS 2720 (Part 7&8):1983, RA: 2015	1.0 g/cm ³ to 3.0 g/cm ³
92	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Strength (C Value)	IS 2720 (Part 13):1986, RA: 2011	0.1 kg/cm ² to 4.0 kg/cm ²
93	MECHANICAL- SOIL AND ROCK	Soils	Free Swell Index	IS 2720 (Part 40):1985, RA: 2015	5 % to 300 %
94	MECHANICAL- SOIL AND ROCK	Soils	Grain size analysis (4.75mm – 75u)	IS 2720 (Part 4):1985, RA: 2015	0.1 % to 100 %
95	MECHANICAL- SOIL AND ROCK	Soils	Grain size analysis (Hydrometer method)	IS 2720 (Part 4) :1985, RA: 2015	Qualitative(0.1% to 100%)
96	MECHANICAL- SOIL AND ROCK	Soils	Liquid Limit (by Cone Pentrometer & Casagande)	IS 2720 (Part 5):1985, RA: 2015	10 % to 100 %
97	MECHANICAL- SOIL AND ROCK	Soils	Moisture Content	IS 2720 (Part 2):1973, RA: 2010	0.5 % to 120 %
98	MECHANICAL- SOIL AND ROCK	Soils	Permeability by Constant Head Method	IS 2720 (Part 17):1986, RA: 2011	1 to 1
99	MECHANICAL- SOIL AND ROCK	Soils	Plastic Limit	IS 2720 (Part 5):1985, RA: 2015	1 % to 60 %



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100	MECHANICAL- SOIL AND ROCK	Soils	Shear Strength (Pie Value)	IS 2720 (Part 13):1986, RA: 2011	0.1 ° to 48 °
101	MECHANICAL- SOIL AND ROCK	Soils	Shrinkage Limit	IS 2720 (Part 06):1972 : 2011	1.0 % to 50 %
102	MECHANICAL- SOIL AND ROCK	Soils	Specific Gravity	IS 2720 (Part 3 Section 1):1980: 2010	1.0 to 3.0