



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 (NO ₃) | 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 (SO ₄) | IS 3025 (Part 24):1986, RA: 2014 | 1 mg/l to 1000 mg/l |
| 36 | CHEMICAL- WATER | Drinking Water | Total Alkalinity as (CaCO ₃) | 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 (CaCO ₃) | 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 |