# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** AVIAN TEST LAB PRIVATE LIMITED, DAG NO. 73, PATTA NO. 1, TAMULBARI, PANIKHAITI, GUWAHATI, KAMRUP METRO, ASSAM, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-9890 **Page No** 1 of 10

**Validity** 22/09/2021 to 21/09/2023 **Last Amended on** 20/02/2023

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- BUILDING MATERIAL | Admixture | Ash Content | IS 9103 |
| 2 | CHEMICAL- BUILDING MATERIAL | Admixture | Chloride | IS 6925 |
| 3 | CHEMICAL- BUILDING MATERIAL | Admixture | Dry Material Content | IS 9103 |
| 4 | CHEMICAL- BUILDING MATERIAL | Admixture | pH | IS 9103 |
| 5 | CHEMICAL- BUILDING MATERIAL | Admixture | Relative density | IS 9103 |
| 6 | CHEMICAL- BUILDING MATERIAL | Bitumem/Modified Bitumen | Material Mineral ash | IS1217 |
| 7 | CHEMICAL- BUILDING MATERIAL | Bitumen/Modified Bitumen | Solubility in Trichloroethylene | IS1216 |
| 8 | CHEMICAL- BUILDING MATERIAL | Cement | Sulphuric anhydride | IS 4032 |
| 9 | CHEMICAL- BUILDING MATERIAL | Cement | Alumina | IS4032 |
| 10 | CHEMICAL- BUILDING MATERIAL | Cement | Calcium oxide | IS 4032 |
| 11 | CHEMICAL- BUILDING MATERIAL | Cement | Chloride | IS4032 |
| 12 | CHEMICAL- BUILDING MATERIAL | Cement | Combined ferric oxide and Alumina | IS4032 |
| 13 | CHEMICAL- BUILDING MATERIAL | Cement | Ferric Oxide | IS4032 |
| 14 | CHEMICAL- BUILDING MATERIAL | Cement | Insoluble residue | IS 4032 |
| 15 | CHEMICAL- BUILDING MATERIAL | Cement | Loss on ignition | IS4032 |
| 16 | CHEMICAL- BUILDING MATERIAL | Cement | Magnesium Oxide | IS4032 |
| 17 | CHEMICAL- BUILDING MATERIAL | Cement | Silica | IS 4032 |
| 18 | CHEMICAL- WATER | Water for construction purpose | Acidity | IS3025(P-22) |
| 19 | CHEMICAL- WATER | Water for construction purpose | Alkalinity | IS3025(P-23) |

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| 20 | CHEMICAL- WATER | Water for construction purpose | Chloride | IS3025(P-32) |
| 21 | CHEMICAL- WATER | Water for construction purpose | Inorganic material | IS3025(P-18) |
| 22 | CHEMICAL- WATER | Water for construction purpose | Organic material | IS3025(P-18) |
| 23 | CHEMICAL- WATER | Water for construction purpose | pH | IS 3025 (P11) |
| 24 | CHEMICAL- WATER | Water for construction purpose | Sulphate | IS3025(P-24)/ s-1 |
| 25 | CHEMICAL- WATER | Water for construction purpose | Total dissolve Solid | IS 3025(P-18) |
| 26 | CHEMICAL- WATER | Water for construction purpose | Total Suspended Solid | IS 3025(P-17) |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Slump Test | IS 1199 |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Absolute Viscosity at 60°C | IS1206(P-2) |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Bitumen Content | IRC SP-11 |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Bitumen Penetration | IS1203 |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Ductility | IS1208 |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Flash Point | IS1209 |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Kinematic Viscosity at 135°C | IS1206(P-3) |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Softening Point(Ring& ball) | IS1205 |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified Bitumen | Specific gravity | IS1202 |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Bitumen/Modified BItumen | Test on Residue from rolling thin filim oven | IS9382 |
| 37 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Concrete | Marshal Stability | ASTMD6927 |
| 38 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Concrete | Stripping Value | IS 6241 |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Brick( Burnt Clay / Fly ash ) | Compressive Strength | IS 3495(P-1) |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Brick(Burnt Clay/Fly ash) | Efflorscence | IS 3495 (P-3) |

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| 41 | MECHANICAL- BUILDINGS MATERIALS | Brick(Burnt Clay/Fly ash) | Water absorption | IS 3495 (P-2) |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Fly Ash (Bricks) | Dimension, Height | IS 13757 |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Fly Ash (Bricks) | Dimension, Length | IS 13757 |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Burnt Clay Fly Ash (Bricks) | Dimension,Width | IS 13757 |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength (168 HRS.) | IS4031(P-6) |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength (672 HRS.) | IS4031(P-6) |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive Strength(72 HRS.) | IS4031(P-6) |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Cement | Consistency | IS 4031 (P-4) |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Cement | Density | IS4031(P-11) |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Cement | Fineness by blain air Permeability | IS4031(P-2) |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Cement | Setting Time (Initial) | IS4031(P-5) |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Cement | Setting Time(Final) | IS4031(P-5) |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Cement | Soundness by Autoclave | IS4031(P-3) |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Cement | Soundness by Le-Chatelier's | IS4031(P-3) |
| 55 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Aggregate Impact Value | IS2386(P-4) |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk density | IS2386(P-3) |
| 57 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Clay Lump | IS2386(P-2) |
| 58 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Coal & Lignite | IS2386(P-2) |
| 59 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Crushing Value | IS2386(P-4) |

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| 60 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation | IS 2386(P-1) |
| 61 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness | IS2386(P-1) |
| 62 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Los Angeles Abrasion Value | IS2386(P-4) |
| 63 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Material Finer than 75 micron | IS2386(P-1) |
| 64 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve Analysis(80,63,40,20,16,12.5,10,4.75,2.36,mm) | IS2386(P-1) |
| 65 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Soundness by( Na2so4) | IS2386(P-5) |
| 66 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific gravity | IS2386(P-3) |
| 67 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Ten Percent Fine Value | IS2386(P-4) |
| 68 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water absorption | IS2386(P-3) |
| 69 | MECHANICAL- BUILDINGS MATERIALS | Common Burnt Clay (Bricks) | Dimension, Height | IS 1077 |
| 70 | MECHANICAL- BUILDINGS MATERIALS | Common Burnt Clay (Bricks) | Dimension,Length | IS 1077 |
| 71 | MECHANICAL- BUILDINGS MATERIALS | Common Burnt Clay (Bricks) | Dimension,Width | IS 1077 |
| 72 | MECHANICAL- BUILDINGS MATERIALS | Concrete Admixture | Compressive Strength (28 days) | IS 516:(pt-1/sec-1) |
| 73 | MECHANICAL- BUILDINGS MATERIALS | Concrete Admixture | Compressive Strength (7days) | IS 516:(pt-1/sec-1) |
| 74 | MECHANICAL- BUILDINGS MATERIALS | Concrete Admixture | Compressive Strength(3days) | IS 516:(pt-1/sec-1) |
| 75 | MECHANICAL- BUILDINGS MATERIALS | Concrete Admixture | Setting Time (Final) | IS:1199(part-7) |
| 76 | MECHANICAL- BUILDINGS MATERIALS | Concrete Admixture | Setting Time(Initial) | IS1199(part-7) |
| 77 | MECHANICAL- BUILDINGS MATERIALS | Concrete Cube | Compressive Strength | IS 516:(pt-1/sec-1) |

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| 78 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Coagulation of Emulsion at low temperature | IS 8887 |
| 79 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Coating ability and Water resistance | IS 8887 |
| 80 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Miscibility in Water | IS 8887 |
| 81 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Residue by Evaporation | IS 8887 |
| 82 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Residue on 600 micron IS Sieve | IS 8887 |
| 83 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Stability to the Mixing With Cement | IS 8887 |
| 84 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Storage Stability after 24 Hours | IS 8887 |
| 85 | MECHANICAL- BUILDINGS MATERIALS | Emulsion | Viscosity by saybolt furol Viscometer | IS 3117 |
| 86 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk density | IS2386(P-3) |
| 87 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Clay Lump | IS2386(P-2) |
| 88 | MECHANICAL- BUILDINGS MATERIALS | Fine aggregate | Coal & Lignite | IS2386(P-2) |
| 89 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Material finer than 75 micron | IS2386(P-1) |
| 90 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Organic impurities | IS 2386(P-2) |
| 91 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis(10.0,4.75,2.36,1.18,0.600,0.300,0.150 mm) | IS2386(P-1) |
| 92 | MECHANICAL- BUILDINGS MATERIALS | Fine aggregate | Silt Content | CPWD SPECIFICATION |
| 93 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Soundness by (Na2so4) | IS2386(P-5) |
| 94 | MECHANICAL- BUILDINGS MATERIALS | Fine aggregate | Specific Gravity | IS2386(P-3) |
| 95 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water absorption | IS2386(P-3) |

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| 96 | MECHANICAL- BUILDINGS MATERIALS | Granular Sub Base (GSB) | Water absorption | IS2386(P-3) |
| 97 | MECHANICAL- BUILDINGS MATERIALS | Granular Sub Base(GSB) | Impact Value | IS2386(P-4) |
| 98 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Abrasion resistance | IS15658 |
| 99 | MECHANICAL- BUILDINGS MATERIALS | Paver block | Compressive Strength | IS 15658 |
| 100 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension (Thickness) | IS15658 |
| 101 | MECHANICAL- BUILDINGS MATERIALS | Paver block | Flexural Strength | IS15658 |
| 102 | MECHANICAL- BUILDINGS MATERIALS | paver block | Water absorption | IS15658 |
| 103 | MECHANICAL- BUILDINGS MATERIALS | Steel Structure/TMT bar | Bend Test (Mandrel-16,20,24,30,32,36,40,48,50,56,60,64,70,72,75,80,84,96,100,112,120,125,128,140,160,175, mm | IS1599 |
| 104 | MECHANICAL- BUILDINGS MATERIALS | Steel Structure/TMT Bar | Yield Stress | IS1608(pt-1) |
| 105 | MECHANICAL- BUILDINGS MATERIALS | Structure Steel/TMT Bar | Elongation | IS1608(pt-1) |
| 106 | MECHANICAL- BUILDINGS MATERIALS | Structure Steel/TMT Bar | Rebend Test(Mandrel 32,40,48,50,56,60,64,70,76,80,84,96,100,112,120,125,128,140,150,160,175,192,224 mm | IS1786 |
| 107 | MECHANICAL- BUILDINGS MATERIALS | Structure Steel/TMT Bar | Specimen Mass | IS 1786 |
| 108 | MECHANICAL- BUILDINGS MATERIALS | Structure Steel/TMT Bar | Tensile Strength | IS1608(pt-1) |
| 109 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Macadom | Sieve analysis | .IS:2386(P-1) |
| 110 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Macadom(WBM) | Flakiness Index | IS 2386 (p-1) |
| 111 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Macadom(WBM) | Los angeles abrasion Value | IS2386(P-4) |
| 112 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Macadom(WBM) | Water absorption | IS2386(P-3) |

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| 113 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Mcadom (WBM) | Elongation | IS2386(P-1) |
| 114 | MECHANICAL- BUILDINGS MATERIALS | Water Bound Mcadom(WBM) | Impact Value | IS2386(P-1) |
| 115 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadam(WMM) | Flakiness | IS2386(P-1) |
| 116 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadom (WMM) | Elongation | IS2386(P-1) |
| 117 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadom (WMM) | Impact Value | IS2386(P-4) |
| 118 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadom (WMM) | Sieve Analysis | IS 2386(P-1) |
| 119 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Macadom (WMM) | Water absorption | IS2386(P-3) |
| 120 | MECHANICAL- BUILDINGS MATERIALS | Wet Mix Mcadom(Wet Mix Mcadom) | Loss Angeles abrasion Value | IS2386(P-4) |
| 121 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Non Ferrous Metal & Alloys | 0.2% Proof Stress | ISO 6892 |
| 122 | MECHANICAL- SOIL AND ROCK | Bentonite | Liquid Limit | IS2720(P-5) |
| 123 | MECHANICAL- SOIL AND ROCK | Bentonite | Marsh Cone Viscosity | ASTMD6910 |
| 124 | MECHANICAL- SOIL AND ROCK | Bentonite | Moisture Content | IS 6186 |
| 125 | MECHANICAL- SOIL AND ROCK | Bentonite | pH | IS 6186 |
| 126 | MECHANICAL- SOIL AND ROCK | Bentonite | Sand Content | IS6186 |
| 127 | MECHANICAL- SOIL AND ROCK | Bentonite | Swelling Power | IS 6186 |
| 128 | MECHANICAL- SOIL AND ROCK | Blanketing Material | California bearing ratio (CBR) | IS2720( P-16) |
| 129 | MECHANICAL- SOIL AND ROCK | Blanketing Material | Maximum dry density (MDD) | IS2720(P-8) |
| 130 | MECHANICAL- SOIL AND ROCK | Blanketing Material | Optimum Moisture Content (OMC) | IS2720(P-8) |

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| 131 | MECHANICAL- SOIL AND ROCK | Blanketing Material | Sieve Analysis@4.75 mm | GE:IR-2,RDSO2007/GE0014200 7/ IS2386(P-1) |
| 132 | MECHANICAL- SOIL AND ROCK | Granular Sub Base (GSB) | California bearing Ratio (CBR) | IS2720(P-16) |
| 133 | MECHANICAL- SOIL AND ROCK | Granular Sub Base (GSB) | Liquid Limit | IS2720(P-5) |
| 134 | MECHANICAL- SOIL AND ROCK | Granular Sub Base (GSB) | Maximum dry density (MDD) | IS2720(P-8) |
| 135 | MECHANICAL- SOIL AND ROCK | Granular Sub Base (GSB) | Optimum Moisture Content(OMC) | IS2720(P-8) |
| 136 | MECHANICAL- SOIL AND ROCK | Granular Sub Base (GSB) | Plastic Limit | IS2720(P-5) |
| 137 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test/Internal Friction Value | IS 2720 (P-19) |
| 138 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis by Dry Sieving Method | IS 2720 (P-4) |
| 139 | MECHANICAL- SOIL AND ROCK | Soil & Rock | CBR (Soak) | IS2720(P-16) |
| 140 | MECHANICAL- SOIL AND ROCK | Soil & Rock | CBR (Un-Soak) | IS2720(P-16) |
| 141 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Coefficient of Consolidation | IS 2720(P-15) |
| 142 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Direct Shear Test Cohesion Intercept (C), Angel of internal Friction | IS 2720(P-13) |
| 143 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Dry Shrinkage | IS 20720(P-6) |
| 144 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Free Swell Index | IS 2720(P-40) |
| 145 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Grain Size (75 micron) and Hydrometer Analysis | IS2720(p-4) |
| 146 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Liquid Limit | IS 2720 (P-5) |
| 147 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Maximum Dry Density (Light Compaction) | IS2720(P-7) |
| 148 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Maximum Dry Density(MDD) Heavy Compaction | IS 2720(P-8) |

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| 149 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Optimum Moisture Content (OMC) Heavy Compaction | IS2720(P-8) |
| 150 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Optimum Moisture Content(OMC) Light Compaction | IS 2720(P-7) |
| 151 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Permeability Test | IS2720(P-17) |
| 152 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Triaxial Shear Test Cohesion Intercept (C), Angel of internal Friction | IS2720(P-11) |
| 153 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Water Content | IS 2720 (P-2) |
| 154 | MECHANICAL- SOIL AND ROCK | Soil &Rock | Specific Gravity | IS2720(P-3) |
| 155 | MECHANICAL- SOIL AND ROCK | Soil or Rock | Plastic Limit | IS2720(P-5) |
| 156 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam (WMM) | Maximum dry density (MDD) | IS2720(P-8) |
| 157 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam (WMM) | Optimum Moisture Content(OMC) | IS2720(P-8) |
| 158 | MECHANICAL- SOIL AND ROCK | Wet Mix Macadam (WMM) | Plastic Limit | IS2720(P-5) |

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| Site Facility | | | | |
| 1 | MECHANICAL- BUILDINGS MATERIALS | Concrete Core | Compressive Strength | IS 516 (Pt-4) |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulking of Sand | IS2386(P-3) |
| 3 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Density by Sand replacement Method | IS 2720(P-28) |
| 4 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Field Density by Core- Cutter Method | IS2720 (P-29) |