# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** STRUCTWEL DESIGNERS AND CONSULTANTS PVT. LTD., #460/B, 4TH PHASE, NTTF CIRCLE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

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

**Certificate Number** TC-7363 **Page No** 1 of 13

**Validity** 17/08/2021 to 16/08/2023 **Last Amended on** 20/09/2021

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- BUILDING MATERIAL | Admixture | Ash Content | IS 9103 |
| 2 | CHEMICAL- BUILDING MATERIAL | Admixture | Chlorides | 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 | Ground Granulated Blast Furnace Slag (GGBFS) | Aluminium Oxide (Al2O3) | IS 4032 |
| 7 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Calcium oxide (CaO) | IS 4032 |
| 8 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Chloride | IS 4032 |
| 9 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Ferric Oxide (Fe2O3) | IS 4032 |
| 10 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Insoluble Residue | IS 4032 |
| 11 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Loss on Ignition | IS 4032 |
| 12 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Magnesia (MgO) | IS 4032 |
| 13 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Manganese Oxide (MnO) | IS 4032 |
| 14 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Moisture Content | IS 16714 Annex-B |
| 15 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Silica (SiO2) | IS 4032 |
| 16 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Sulphide Sulphur | IS 4032 |
| 17 | CHEMICAL- BUILDING MATERIAL | Ground Granulated Blast Furnace Slag (GGBFS) | Sulphuric Anhydride (SO3) | IS 4032 |
| 18 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Magnesia (MgO) | IS 4032 Cl. No. 4.8.2 |

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|---|---|---|---|---|
| 19 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Alumina (Al2O3) | IS 4032 Cl. No. 4.6.2 |
| 20 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Calcium oxide (CaO) | IS 4032 Cl. No. 4.7.2 |
| 21 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Chloride | IS 4032 |
| 22 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Ferric Oxide (Fe2O3) | IS 4032 Cl. No. 4.5.2 |
| 23 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Insoluble Residue | IS 4032 |
| 24 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Loss on Ignition | IS 4032 Cl. No. 4.2 |
| 25 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Silica (SiO2) | IS 4032 |
| 26 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Sulphuric Anhydride (SO3) | IS 4032 |
| 27 | CHEMICAL- BUILDING MATERIAL | Ordinary Portland Cement (OPC) | Total Alkali as Sodium Oxide (Na2O) | IS 4032 |
| 28 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Calcium oxide (CaO) | IS 4032 |
| 29 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Chloride | IS 4032 |
| 30 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Combined Ferric Oxide And Alumina (R2O3) | IS 4032 |
| 31 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Insoluble Residue | IS 4032 |
| 32 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Loss on Ignition | IS 4032 |
| 33 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Magnesia (MgO) | IS 4032 Cl. No. 7.2 |
| 34 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Silica (SiO2) | IS 4032 |
| 35 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Sulphuric Anhydride (SO3) | IS 4032 |
| 36 | CHEMICAL- BUILDING MATERIAL | Portland Pozzolana Cement (PPC) | Total Alkali as Sodium Oxide (Na2O) | IS 4032 |
| 37 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Magnesia (MgO) | IS 4032 Cl. No. 6.8.2 |

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|---|---|---|---|---|
| 38 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Alumina ($Al_2O_3$) | IS 4032 |
| 39 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Calcium oxide (CaO) | IS 4032 Cl. No. 6.7.2 |
| 40 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Chloride | IS 4032 |
| 41 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Ferric Oxide ($Fe_2O_3$) | IS 4032 |
| 42 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Insoluble Residue | IS 4032 |
| 43 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Loss on Ignition | IS 4032 |
| 44 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Silica ($SiO_2$) | IS 4032 |
| 45 | CHEMICAL- BUILDING MATERIAL | Portland Slag Cement (PSC) | Sulphuric Anhydride ($SO_3$) | IS 4032 |
| 46 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Calcium oxide (CaO) | IS 1727 |
| 47 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Chloride | IS 4032 |
| 48 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Combined Ferric Oxide And Alumina ($R_2O_3$) | IS 1727 |
| 49 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Loss on Ignition | IS 1727 |
| 50 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Magnesia (MgO) | IS 1727 |
| 51 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Silica ($SiO_2$) | IS 1727 |
| 52 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Sodium Oxide ($Na_2O$) | IS 3812 (Part 1 and Part 2) |
| 53 | CHEMICAL- BUILDING MATERIAL | Pozzolanic Material (Fly ash) | Sulphuric Anhydride ($SO_3$) | IS 1727 |
| 54 | CHEMICAL- METALS & ALLOYS | Hot Rolled Medium and High Tensile Structural Steel | Carbon | IS 228 (Part 1) |
| 55 | CHEMICAL- METALS & ALLOYS | Hot Rolled Medium and High Tensile Structural Steel | Manganese | IS 228 (Part 2) |
| 56 | CHEMICAL- METALS & ALLOYS | Hot Rolled Medium and High Tensile Structural Steel | Phosphorous | IS 228 (Part 3) |

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| 57 | CHEMICAL- METALS & ALLOYS | Hot Rolled Medium and High Tensile Structural Steel | Sulphur | IS 228 (Part 9) |
| 58 | CHEMICAL- METALS & ALLOYS | Low alloy Steel, Plain Carbon steel, Mild steel, Stainless Steel | Carbon | IS 228 (Part 1) |
| 59 | CHEMICAL- METALS & ALLOYS | Low alloy Steel, Plain Carbon steel, Mild steel, Stainless Steel | Manganese | IS 228 (Part 2) |
| 60 | CHEMICAL- METALS & ALLOYS | Low alloy Steel, Plain Carbon steel, Mild steel, Stainless Steel | Phosphorous | IS 228 (Part 3) |
| 61 | CHEMICAL- METALS & ALLOYS | Low alloy Steel, Plain Carbon steel, Mild steel, Stainless Steel | Sulphur | IS 228 (Part 9) |
| 62 | CHEMICAL- METALS & ALLOYS | Uncoated Stress Relieved Strand for Prestressed Concrete | Phosphorous | IS 228 (Part 3) |
| 63 | CHEMICAL- METALS & ALLOYS | Uncoated Stress Relieved Strand for Prestressed Concrete | Sulphur | IS 228 (Part 9) |
| 64 | CHEMICAL- WATER | Water (Construction Purpose) | Acidity - Indicator Method (0.02 N NaOH Required to neutralize 100ml of water) | IS 3025 (Part 22) |
| 65 | CHEMICAL- WATER | Water (Construction Purpose) | Alkalinity - Indicator Method (0.02 N H2S04 Required to neutralize 100ml of water) | IS 3025 (Part 23) |
| 66 | CHEMICAL- WATER | Water (Construction Purpose) | Chloride - Argenotometric Method | IS 3025 (Part 32) |
| 67 | CHEMICAL- WATER | Water (Construction Purpose) | Fixed Residue (Inorganic Residue) | IS 3025 (Part 18) |
| 68 | CHEMICAL- WATER | Water (Construction Purpose) | pH | IS 3025 (Part 11) |
| 69 | CHEMICAL- WATER | Water (Construction Purpose) | Sulphate - Gravimetric Method | IS 3025 (Part 24) |
| 70 | CHEMICAL- WATER | Water (Construction Purpose) | Total Hardness | IS 3025 (Part 21) |
| 71 | CHEMICAL- WATER | Water (Construction Purpose) | Total Suspended solid | IS 3025 (Part 17) |
| 72 | CHEMICAL- WATER | Water (Construction Purpose) | Volatile Residue (Organic Residue) | IS 3025 (Part 18) |
| 73 | MECHANICAL- BUILDINGS MATERIALS | Autoclaved Cellular Concrete Block | Compressive Strength | IS 6441 (Part 5) |
| 74 | MECHANICAL- BUILDINGS MATERIALS | Autoclaved Cellular Concrete Block | Density | IS 6441 (Part 1) |
| 75 | MECHANICAL- BUILDINGS MATERIALS | Autoclaved Cellular Concrete Block | Drying Shrinkage | IS 6441 (Part 2) |
| 76 | MECHANICAL- BUILDINGS MATERIALS | Autoclaved Cellular Concrete Block | Moisture Content | IS 6441 (Part 1) |

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|---|---|---|---|---|
| 77 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Compressive Strength | IS 3495 (Part 1) |
| 78 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Height) | IS 1077 |
| 79 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Length) | IS 1077 |
| 80 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Dimension (Width) | IS 1077 |
| 81 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Efflorescence | IS 3495 (Part 3) |
| 82 | MECHANICAL- BUILDINGS MATERIALS | Bricks | Water Absorption | IS 3495 (Part 2) |
| 83 | MECHANICAL- BUILDINGS MATERIALS | Cement | Compressive strength | IS 4031 (Part 6) |
| 84 | MECHANICAL- BUILDINGS MATERIALS | Cement | Consistency | IS 4031 (Part 4) |
| 85 | MECHANICAL- BUILDINGS MATERIALS | Cement | Density | IS 4031 (Part 11) |
| 86 | MECHANICAL- BUILDINGS MATERIALS | Cement | Fineness - By Dry Sieving | IS 4031 (Part 1) |
| 87 | MECHANICAL- BUILDINGS MATERIALS | Cement | Fineness by specific surface by Blaine Air Permeability method | IS 4031 (Part 2) |
| 88 | MECHANICAL- BUILDINGS MATERIALS | Cement | Setting Time - Final | IS 4031 (Part 5) |
| 89 | MECHANICAL- BUILDINGS MATERIALS | Cement | Setting Time - Initial | IS 4031 (Part 5) |
| 90 | MECHANICAL- BUILDINGS MATERIALS | Cement | Soundness - By Le-Chatelier method | IS 4031 (Part 3) |
| 91 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Breaking Strength | IS 13630 Part 6 |
| 92 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Dimension (Length) | IS 13630 Part 1 |
| 93 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Dimension (Thickness) | IS 13630 Part 1 |
| 94 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Dimension (Width) | IS 13630 Part 1 |
| 95 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Modulus of Rupture | IS 13630 Part 6 |

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|---|---|---|---|---|
| 96 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Rectangularity | IS 13630 Part 1 |
| 97 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Scratch Hardness (Mohs' Scale) | IS 13630 Part 13 |
| 98 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Straightness | IS 13630 Part 1 |
| 99 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Surface Flatness | IS 13630 Part 1 |
| 100 | MECHANICAL- BUILDINGS MATERIALS | Ceramic Tiles | Water Absorption | IS 13630 Part 2 |
| 101 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Aggregate Abrasion Value by Los Angele’s | IS 2386 (Part 4) |
| 102 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Aggregate Crushing Value | IS 2386 (Part 4) |
| 103 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Aggregate Impact Value | IS 2386 (Part 4) |
| 104 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk density (Loose) | IS 2386 (Part 3) |
| 105 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Bulk density (Rodded) | IS 2386 (Part 3) |
| 106 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Elongation Index | IS 2386 (Part 1) |
| 107 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Flakiness Index | IS 2386 (Part 1) |
| 108 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Sieve Analysis | IS 2386 (Part 1) |
| 109 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Specific gravity | IS 2386 (Part 3) |
| 110 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Ten Percent Fines Value | IS 2386 (Part 4) |
| 111 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregate | Water Absorption | IS 2386 (Part 3) |
| 112 | MECHANICAL- BUILDINGS MATERIALS | Concrete Core, Cylinder | Compressive Strength (Including Extraction of core) | IS 516 (Part 4) |
| 113 | MECHANICAL- BUILDINGS MATERIALS | Concrete Cube | Accelerated Curing Test | IS 9013 |
| 114 | MECHANICAL- BUILDINGS MATERIALS | Concrete Cube | Compressive Strength | IS 516 |

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| 115 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk Density (Loose) | IS 2386 (Part 3) |
| 116 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulk density (Rodded) | IS 2386 (Part 3) |
| 117 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Bulkage | IS 2386 (Part 3) |
| 118 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Materials Finer than 75 µm | IS 2386 (Part 1) |
| 119 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Sieve Analysis | IS 2386 (Part 1) |
| 120 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Specific Gravity | IS 2386 (Part 3) |
| 121 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregate | Water Absorption | IS 2386 (Part 3) |
| 122 | MECHANICAL- BUILDINGS MATERIALS | Ground Granulated Blast Furnace Slag (GGBFS) | Density | IS 4031 Part 11 |
| 123 | MECHANICAL- BUILDINGS MATERIALS | Ground Granulated Blast Furnace Slag (GGBFS) | Fineness by specific surface by Blaine Air Permeability method | IS 4031 (Part 2) |
| 124 | MECHANICAL- BUILDINGS MATERIALS | Ground Granulated Blast Furnace Slag (GGBFS) | Normal Consistency | IS 4031 Part 4 |
| 125 | MECHANICAL- BUILDINGS MATERIALS | Ground Granulated Blast Furnace Slag (GGBFS) | Slag Activity Index | IS 16714 |
| 126 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Compressive Strength | IS 2185 (Part 1) |
| 127 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Density | IS 2185 (Part 1) |
| 128 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Dimension | IS 2185 (Part 1) |
| 129 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Drying Shrinkage | IS 2185 (Part 1) |
| 130 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Moisture Movement | IS 2185 (Part 1) |
| 131 | MECHANICAL- BUILDINGS MATERIALS | Masonry Units - Hollow/Solid Concrete Block | Water Absorption | IS 2185 (Part 1) |
| 132 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Abrasion Resistance | IS 15658 |
| 133 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Compressive Strength | IS 15658 |

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| 134 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension (Length) | IS 15658 |
| 135 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension (Thickness) | IS 15658 |
| 136 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Dimension (Width) | IS 15658 |
| 137 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Flexural Strength | IS 15658 |
| 138 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Plan Area | IS 15658 |
| 139 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Tensile Splitting Strength | IS 15658 |
| 140 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Thickness of Wearing Layer | IS 15658 |
| 141 | MECHANICAL- BUILDINGS MATERIALS | Paver Block | Water Absorption | IS 15658 |
| 142 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Fly ash) | Soundness by Le Chatelier Method | IS 1727 |
| 143 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Compressive strength | IS 1727 |
| 144 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Residue on 45micron | IS 1727 |
| 145 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Setting Time - Final | IS 1727 |
| 146 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Setting Time - Initial | IS 1727 |
| 147 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Specific Gravity | IS 1727 |
| 148 | MECHANICAL- BUILDINGS MATERIALS | Pozzolanic Material (Flyash) | Specific surface | IS 1727 |
| 149 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | 0.2% Proof Stress | IS 1608 Part 1 |
| 150 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Bend Test | IS 1599 |
| 151 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Mass per Metre | IS 1786 |

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|---|---|---|---|---|
| 152 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Percentage Elongation | IS 1608 Part 1 |
| 153 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Percentage Elongation at Maximum Force | IS 1608 Part 1 |
| 154 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Rebend Test | IS 1786 |
| 155 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Ultimate Tensile Strength | IS 1608 Part 1 |
| 156 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | High Strength deformed Steel bars and wires for concrete reinforcement | Yield Strength | IS 1608 Part 1 |
| 157 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Hot Rolled Medium and High Tensile Structural Steel | Bend Test | IS 1599 |
| 158 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Hot Rolled Medium and High Tensile Structural Steel | Mass per metre | IS 808 , IS 1730 , IS 1732 , IS 4923 |
| 159 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Hot Rolled Medium and High Tensile Structural Steel | Percentage Elongation | IS 1608 Part 1 |
| 160 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Hot Rolled Medium and High Tensile Structural Steel | Ultimate Tensile Strength | IS 1608 Part 1 |
| 161 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Hot Rolled Medium and High Tensile Structural Steel | Yield Strength | IS 1608 Part 1 |
| 162 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | 0.2% Proof Load | IS 1608 Part 1 |
| 163 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Breaking Strength | IS 1608 Part 1 |
| 164 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Difference in Diameter of Centre Wire And Surrounding Wire | IS 14268 |
| 165 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Lay length | IS 14268 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** STRUCTWEL DESIGNERS AND CONSULTANTS PVT. LTD., #460/B, 4TH PHASE, NTTF CIRCLE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

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

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**Validity** 17/08/2021 to 16/08/2023 **Last Amended on** 20/09/2021

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 166 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Modulus of Elasticity | IS 1608 Part 1 |
| 167 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Nominal area | IS 14268 |
| 168 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Nominal Mass | IS 14268 |
| 169 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Uncoated Stress Relieved Low Relaxation Seven-Ply Strand For Prestressed Concrete | Percentage Elongation | IS 14268 |
| 170 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test | IS 2720 Part 13 |
| 171 | MECHANICAL- SOIL AND ROCK | Soil | Direct Shear Test | IS 2720 Part 13 |
| 172 | MECHANICAL- SOIL AND ROCK | Soil | Free Swell Index | IS 2720 Part 40 |
| 173 | MECHANICAL- SOIL AND ROCK | Soil | Grain Size Analysis (20 mm to 75 micron) | IS 2720 Part 4 |
| 174 | MECHANICAL- SOIL AND ROCK | Soil | Laboratory California Bearing Ratio | IS 2720 (Part 16) |
| 175 | MECHANICAL- SOIL AND ROCK | Soil | Liquid Limit (Casagrade Method) | IS 2720 (Part 5) |
| 176 | MECHANICAL- SOIL AND ROCK | Soil | Oedometer test (Consolidation Test) | IS 2720 Part 15 |
| 177 | MECHANICAL- SOIL AND ROCK | Soil | Plastic Limit | IS 2720 (Part 5) |
| 178 | MECHANICAL- SOIL AND ROCK | Soil | Shrinkage Limit | IS 2720 Part 6 |
| 179 | MECHANICAL- SOIL AND ROCK | Soil | Specific Gravity | IS 2720 Part 3 Sec 2 |
| 180 | MECHANICAL- SOIL AND ROCK | Soil | Swelling Pressure | IS 2720 Part 41 |
| 181 | MECHANICAL- SOIL AND ROCK | Soil | Triaxial Shear by Unconsolidated Undrained Method Without Measurement of Pore Water Pressure | IS 2720 Part 11 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|
| 182 | MECHANICAL- SOIL AND ROCK | Soil | Triaxial Shear by Unconsolidated Undrained Method Without Measurement of Pore Water Pressure | IS 2720 Part 11 |
| 183 | MECHANICAL- SOIL AND ROCK | Soil | Unconfined Compressive Strength | IS 2720 Part 10 |
| 184 | MECHANICAL- SOIL AND ROCK | Soil | Water Content | IS 2720 Part 2 |
| 185 | MECHANICAL- SOIL AND ROCK | Soil | Water Content - Dry Density relation using Heavy Compaction | IS 2720 (Part 8) |
| 186 | MECHANICAL- SOIL AND ROCK | Soil | Water Content - Dry Density relation using Heavy Compaction | IS 2720 (Part 8) |
| 187 | MECHANICAL- SOIL AND ROCK | Soil | Water Content - Dry Density relation using Light Compaction | IS 2720 (Part 7) |
| 188 | MECHANICAL- SOIL AND ROCK | Soil | Water Content - Dry Density relation using Light Compaction | IS 2720 (Part 7) |
| 189 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | Dimensions - Length | IS 4020 (Part 2) |
| 190 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | Dimensions - Squareness (on a length of 500mm) | IS 4020 (Part 2) |
| 191 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door shutter | Dimensions - Thickness | IS 4020 (Part 2) |
| 192 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | Dimensions - Width | IS 4020 (Part 2) |
| 193 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | End Immersion | IS 4020 (Part 13) |
| 194 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | Glue Adhesion | IS 4020 (Part 15) |
| 195 | MECHANICAL- WOOD AND WOOD PRODUCTS | Door Shutter | Knife Test | IS 4020 (Part 14) |
| 196 | MECHANICAL- WOOD AND WOOD PRODUCTS | Plywood | Adhesion of Plies | IS 1734 Part 5 |
| 197 | MECHANICAL- WOOD AND WOOD PRODUCTS | Plywood | Density | IS 1734 Part 1 |
| 198 | MECHANICAL- WOOD AND WOOD PRODUCTS | Plywood | Moisture Content | IS 1734 Part 1 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | STRUCTWEL DESIGNERS AND CONSULTANTS PVT. LTD., #460/B, 4TH PHASE, NTTF CIRCLE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA | | |
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|---|---|---|---|---|
| 199 | MECHANICAL- WOOD AND WOOD PRODUCTS | Plywood | Resistance to Dry Heat | IS 1734 Part 2 |
| 200 | MECHANICAL- WOOD AND WOOD PRODUCTS | Plywood | Water Resistance | IS 1734 Part 6 |

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|---|---|---|---|---|
| Site Facility | | | | |
| 1 | MECHANICAL- BUILDINGS MATERIALS | Concrete Core, Cylinder | Compressive Strength (Including Extraction of core) | IS 516 (Part 4) |
| 2 | MECHANICAL- SOIL AND ROCK | Soil | Dry Density by Core Cutter method | IS 2720 (Part 29) |
| 3 | MECHANICAL- SOIL AND ROCK | Soil | Dry Density by Core Cutter method | IS 2720 (Part 29) |
| 4 | MECHANICAL- SOIL AND ROCK | Soil | Dry Density by Sand Replacement method | IS 2720 (Part 28) |
| 5 | MECHANICAL- SOIL AND ROCK | Soil | Dry Density by Sand Replacement method | IS 2720 (Part 28) |
| 6 | MECHANICAL- SOIL AND ROCK | Soil | Plate Load Test | IS 1888 |
| 7 | MECHANICAL- SOIL AND ROCK | Soil | Standard Penetration Test | IS 2131 |
| 8 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Carbonation Test | IS 516 Part 5 / Sec 3 |
| 9 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Cover depth And Reinforcement detailing | BS 1881 Part 204 |
| 10 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Half Cell Potentiometer Test | ASTM C 876 |
| 11 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Measurement of Crack Depth by Ultrasonic Pulse Velocity | IS 516 Part 5 / Sec 1 |
| 12 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Schmidt Rebound Hammer | IS 516 Part 5 / Sec 4 |
| 13 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Hardened Concrete | Ultrasonic Pulse Velocity | IS 516 Part 5 / Sec 1 |