# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 1 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
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| LOCATION 1-B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA<br>Permanent Facility | | | | |
| 1 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Ammonia(NH3) (New) | IS:5182 (P-25) |
| 2 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Oxides of Nitrogen(NO2) (New) | IS:5182 (P-6) (Reaffirmed 2017) |
| 3 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Particulate Matter PM10 (New) | IS:5182 (Part-23) RA-2017 |
| 4 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Particulate Matter PM2.5 (New) | IS:5182 (P-24) |
| 5 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient air | Sulphur Dioxide(SO2) (New) | IS:5182 (Part-2) (Reaffirmed 2017) |
| 6 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Noise | Ambient Noise (Leq dB (A), L max,L min, L-10, L-90) (New) | IS 15575 (Part2) |
| 7 | CHEMICAL- BUILDING MATERIAL | Admixture | Ash content | IS: 9103 (RA -2008) |
| 8 | CHEMICAL- BUILDING MATERIAL | Admixture | Chloride ion content | IS: 6925(RA -2008) |
| 9 | CHEMICAL- BUILDING MATERIAL | Admixture | Dry material content | IS: 9103 |
| 10 | CHEMICAL- BUILDING MATERIAL | Admixture | pH value | IS: 9103 |
| 11 | CHEMICAL- BUILDING MATERIAL | Admixture | Relative density | IS: 9103 (RA- 2008) |
| 12 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Aluminium as Al2O3 | IS:4032 (RA-2019) 4.6.1 Gravimetric Method |
| 13 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Calcium as CaO | IS:4032: (RA-2019) 4.7.2 EDTA Method |
| 14 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Chloride | IS:4032 (RA-2019) |
| 15 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Magnesia as MgO | IS 4032:1985 4.8.2 EDTA Method |
| 16 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Silica as (SiO2) | IS 4032:1985 |
| 17 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Sulphuric anhydride as SO3 | IS:4032 1985 |
| 18 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Insoluble Residue | IS 4032:1985 |

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| **Certificate Number** | TC-7475 | **Page No** | 2 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

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|---|---|---|---|---|
| 19 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC & GGBS | Loss on Ignition | IS:4032 1985 |
| 20 | CHEMICAL- BUILDING MATERIAL | Cement OPC/PPC/PSC& GGBS | Iron as Fe2O3 | IS 4032:1985 , 4.5.2 EDTA method |
| 21 | CHEMICAL- BUILDING MATERIAL | Cement PSC & GGBS | Sulphide Sulphur(S) | IS 4032:1985 |
| 22 | CHEMICAL- BUILDING MATERIAL | Coarse & Fine aggregate | Alkali Aggregate Reactivity (Dissolved Silica) | IS: 2386 (Part-7):1996 (RA-2016)(CL-3)(chemical Method)(CL-3.7) (Gravimetric Method) |
| 23 | CHEMICAL- BUILDING MATERIAL | Coarse & Fine aggregate | Alkali Aggregate Reactivity(Reduction in Alkalinity) | IS: 2386 (Part-7):1996 (RA-2016)(CL-3)(chemical Method)(CL-3.9) (Chemical Method) |
| 24 | CHEMICAL- BUILDING MATERIAL | Coarse & Fine aggregate | Calcium Carbonate | BS 1377 (Part 3) |
| 25 | CHEMICAL- BUILDING MATERIAL | Coarse & Fine aggregate | Water Soluble Chloride as Cl | BSEN 1744-1: 2012/ IS 4032: 1985 |
| 26 | CHEMICAL- BUILDING MATERIAL | Coarse & Fine aggregate | Water Soluble Sulphate as SO3 | BSEN 1744-1: 2012/IS 4032: 1985 |
| 27 | CHEMICAL- BUILDING MATERIAL | Fly ash | Sulphate as (SO3) | IS : 1727 RA 2004 |
| 28 | CHEMICAL- BUILDING MATERIAL | Fly ash | Chlorides as Cl | IS 4032: 1985 |
| 29 | CHEMICAL- BUILDING MATERIAL | Fly ash | Soluble Salts | IS : 1727 RA 2004 |
| 30 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Anodized Thickness | IS : 5523 RA- 2016 |
| 31 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Carbon (C) | IS:228(Pt.1) 1987 |
| 32 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Galvanization | IS : 6745 RA-2016 |
| 33 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Manganese | IS:228( Pt.2) |
| 34 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Phosphorous (P) | IS:228(Pt.3) |
| 35 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Silicon (Si) | IS:228(Part 8) RA-1997 |

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| **Certificate Number** | TC-7475 | **Page No** | 3 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

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| 36 | CHEMICAL- BUILDING MATERIAL | Reinforcement steel bar / MBCB / Ferrous Materials & alloys products Structural Steel | Sulphur (S) | IS:228(Pt.9) (RA- 2004) |
| 37 | CHEMICAL- BUILDING MATERIAL | Thermoplastic Road Marking Paint | CaCO3 & Inert Fillers | ASTM D 4797-88 |
| 38 | CHEMICAL- BUILDING MATERIAL | Thermoplastic Road Marking Paint | Titanium Dioxide (TiO2) | ASTM D 4797-88 |
| 39 | CHEMICAL- SOIL AND ROCK | Clays, Soil | Soluble Solids | IS:2720 (Part-21) RA-2015 |
| 40 | CHEMICAL- SOIL AND ROCK | Clays, Soil | Soluble Sulphate as SO3 | IS 2720 Part 27: RA 2015<br>BS:1377 (P-3):1990 |
| 41 | CHEMICAL- SOIL AND ROCK | Soil | Calcium Carbonate | IS 2720 Part 23 RA 2015 |
| 42 | CHEMICAL- SOIL AND ROCK | Soil | Chloride (acid soluble) | IS 6825 RA-2018 |
| 43 | CHEMICAL- SOIL AND ROCK | Soil | Nitrogen(N) | IS 14684 RA-2014 |
| 44 | CHEMICAL- SOIL AND ROCK | Soil | pH Value | IS 2720 Part 26 RA 2016 |
| 45 | CHEMICAL- SOIL AND ROCK | Soil | Phosphorous(P2O5) | IS 10158: USEPA 6010 |
| 46 | CHEMICAL- SOIL AND ROCK | Soil | Soluble Chlorides as Cl | IS 2720 Part 27 RA 2015<br>BS:1377 (P-3):1990 |
| 47 | CHEMICAL- SOIL AND ROCK | Soils | Organic Matters | IS 2720 Part 22 RA 2015 |
| 48 | CHEMICAL- WATER | Water | Colour, Hazen units | IS:3025(Part-4) |
| 49 | CHEMICAL- WATER | Water | Total Dissolved Solids | IS:3025(Part-16) RA-2017 |
| 50 | CHEMICAL- WATER | Water | Acidity (ml of 0. 02 'N' NaOH used to neutralize the 100 ml of the water sample) | IS:3025-Pt.22 RA- 2019 |
| 51 | CHEMICAL- WATER | Water | Alkalinity (ml of 0.02 'N' H2SO4 used to neutralize the 100 ml of the water sample) | IS 3025 (P-23) RA-2019 |
| 52 | CHEMICAL- WATER | Water | Chloride | IS:3025(Part-32)RA 2019 |
| 53 | CHEMICAL- WATER | Water | Inorganic Solids | IS:3025-Pt.18 RA -2017 |
| 54 | CHEMICAL- WATER | Water | Iron | IS:3025(Part-53/Cl 6) RA-2019 |
| 55 | CHEMICAL- WATER | Water | Odour | IS:3025(Part-5)RA 2017 |
| 56 | CHEMICAL- WATER | Water | Organic Solids | IS:3025-Pt.18 RA -2017 |

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

**Certificate Number** TC-7475 **Page No** 4 of 19

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| 57 | CHEMICAL- WATER | Water | pH value | IS:3025(Part-11) RA-2017 |
| 58 | CHEMICAL- WATER | Water | Residual Free Chlorine | IS:3025(Part-26) RA-2019 |
| 59 | CHEMICAL- WATER | Water | Sulphate | IS 3025(Pt.24), RA-2019 |
| 60 | CHEMICAL- WATER | Water | Total Hardness | IS:3025(Part-21) RA-2017 |
| 61 | CHEMICAL- WATER | Water | Total Suspended Materials | IS:3025-Pt.17 RA -2012 |
| 62 | CHEMICAL- WATER | Water | Turbidity,NTU | IS 3025(Pt.10) RA-2017 |
| 63 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB | Complex modulus and shear modulus | Annexure 1 IRC SP 53 ASTMD 7405 |
| 64 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Mass Loss(@7 degree C/14 days) | BS 5212 Part 3 |
| 65 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Penetration After Ageing | BS 5212 Part 3 |
| 66 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Resistance to Plastic Flow(60 degree Celcious /5hrs./75 degree angle) | BS 5212 Part 3 |
| 67 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Water Content | IS:1211 RA-2014 |
| 68 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Coagulation of emulsion @ low temperature | Annexure C IS:8887-2004 |
| 69 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Coating ability & water resistance | Annexure-F of IS:8887 RA-2009 |
| 70 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Ductility | IS: 1208 RA-2014 |
| 71 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Miscibility with water | Annexure-H IS:8887 RA-2009 |
| 72 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Particle charge | Annexure-E of IS:8887 RA -2009 |
| 73 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Penetration | IS 1203 RA-2018 |
| 74 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Residue by evaporation | Annexure-J of IS:8887 RA -2009 |
| 75 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Residue on 600 Micron sieve | Annexure-B of IS:8887 RA-2009 |
| 76 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Solubility in trichloroethylene | IS:1216 RA-2018 |
| 77 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Stability to mixing with cement | Annexure-G of IS:8887 RA-2009 |

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**Certificate Number** TC-7475 **Page No** 5 of 19

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| 78 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Storage stability after 24 hour | Annexure-D of IS:8887 RA-2009 |
| 79 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Viscosity by say blot furol viscometer | IS: 3117 RA- 2009 |
| 80 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Distillation in % volume of distillate recovered at 260C | ASTM D-244,RA |
| 81 | MECHANICAL- BUILDINGS MATERIALS | Bitumen Emulsion (Cationic Type) | Residue by 600 micron | Annexure B, IS:8887-2004 |
| 82 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB | Phase angle (New) | AASHTO T 315 |
| 83 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Absolute Viscosity at 60 degree celsius | IS: 1206(Pt-2) RA-2014 |
| 84 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Bitumen Content /Binder Content Test | ASTM D– 2172, RA |
| 85 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Boiling Water Test | ASTM D3625(2005) |
| 86 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Ductility | IS 1208 RA-2014 |
| 87 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Elastic Recovery | IS: 15462:2014 & SP 53-2010 |
| 88 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Flash point | IS 1448 Part-69 RA-2015/IS 1209 |
| 89 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Flow | ASTM D-6927 |
| 90 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Frass Breaking Point | IS: 9381 |
| 91 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | ii) Thin Film oven Test Reduction in Penetration of residue | IS: 1203 RA-2014 |
| 92 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | iii). Thin Film oven Test Elastic recovery of half thread in Ductilometer at 25°C | IS: 15462 RA-2014 |
| 93 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Kinematic Viscosity at 135 0C (for vg grade)& 150 0C (for modified) | IS: 1206(Pt-3) RA-2014 IS:73:2013 |
| 94 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Loss in weight | IS: 9382 RA-2019 |
| 95 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Loss on heating | IS: 212 RA-2014 |

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

**Certificate Number** TC-7475 **Page No** 6 of 19

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| 96 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Marshal Stability | ASTM D-6927 |
| 97 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Mastic Hardness | IS:1195 RA -2012 |
| 98 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Mineral Matter (Ash) | IS: 1217 RA-2014 |
| 99 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Penetration | IS 1203 RA-2018 |
| 100 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Pour Point | IS:1448 (P 10)RA- 2010 |
| 101 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Resilient Modulus | IRC:37 |
| 102 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Retained Marshall Stability | IS:14982 RA -2012 |
| 103 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Separation | IS:15462 |
| 104 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Softening Point | IS 1205 RA-2014 |
| 105 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Solubility in HDO | IS:14982 RA -2012 |
| 106 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Solubility in LDO | IS:14982, RA -2012 |
| 107 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Solubility in trichloroethylene | IS:1216-1978 |
| 108 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Specific Gravity | IS 1202 RA-2018 |
| 109 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Thermal Stability | IS: 14982 RA-2012 |
| 110 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Thin Film oven Test i) Increase in softening point | IS: 1205 RA-2014 |
| 111 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Thin Film oven Test iv)Viscosity ratio at 60°C | IS: 1206 RA-2014 |
| 112 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Thin Film oven Test v) Ductility at 25°C(cm) | IS: 1208 RA-2014 |
| 113 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Viscosity | IS 1206 RA-2014 |
| 114 | MECHANICAL- BUILDINGS MATERIALS | Bituminous Paving Industrial (PMB/CRMB) | Water content | IS: 1211 RA-2014 |

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| 115 | MECHANICAL- BUILDINGS MATERIALS | Cement(OPC/PPC/PSC)/GGBS | Standard Consistency | IS 4031 (P-4) RA-2019 |
| 116 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Fineness b) By Dry Seiving | IS:4031 (P-1) RA-2016 |
| 117 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Compressive Strength/Slag activity Indexa) (72±1)hrs b) (168±2)hrs c) (672±4)hrs | IS: 4031(P-6) RA- 2019 |
| 118 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Density/ Specific Gravity | IS 4031 (Part 11) (RA- 2014) |
| 119 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Fineness a) By Blaine | a)IS:4031(P-2) RA- 2018 |
| 120 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Setting Time Final Setting time | IS: 4031(P-5) RA- 2019 |
| 121 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Setting Time Initial Setting Time | IS: 4031(P-5) RA- 2019 |
| 122 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Soundness a) By Le-Chatelier | IS: 4031(P-3) RA -2019 |
| 123 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Soundness b) By Autoclave | IS: 4031(P-3)RA -2019 |
| 124 | MECHANICAL- BUILDINGS MATERIALS | Cement-(OPC/PPC/PSC)/GGBS | Transverse strength | IS : 4031 (Part-8) 1988 |
| 125 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Curing Efficiency | BS 7542 |
| 126 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Day Light reflectance | BS 7542 |
| 127 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Ford Cup (B4) Viscosity | BS 7542 |
| 128 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Loss of Water In 72 Hrs. | BS 7542 |
| 129 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Specific Gravity | BS 7542 |
| 130 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Surface Drying Time | ASTM C 309 |
| 131 | MECHANICAL- BUILDINGS MATERIALS | Curing Compound | Water Retention | ASTM C 156 |
| 132 | MECHANICAL- BUILDINGS MATERIALS | G I Sheet / HDPE / Sheathing Duct | Transverse Load Rating Test | 1800/I clause 1805.6.2 Test A,13,C,D |

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**Certificate Number** TC-7475 **Page No** 8 of 19

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| 133 | MECHANICAL- BUILDINGS MATERIALS | HDPE Sheathing Ducts | Dimension | MORTH Specs 2013 (Section-1800)/IRC-18 |
| 134 | MECHANICAL- BUILDINGS MATERIALS | HDPE Sheathing Ducts | Load tension | MORTH Specs 2013 (Section-1800)/IRC-18 |
| 135 | MECHANICAL- BUILDINGS MATERIALS | HDPE Sheathing Ducts | Transverse Load Rating Test | MORTH Specs 2013 (Section-1800)/IRC-18 |
| 136 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Mass Change(Fuel'B/RT/48hrs.) | BS 5212 Part 3 |
| 137 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Penetration Before Ageing | BS 5212 Part 3 |
| 138 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Physical Appearance | BS 5212 Part 3 |
| 139 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Pot Life(@ 25 degree celsius | BS 5212 Part 3 |
| 140 | MECHANICAL- BUILDINGS MATERIALS | Poly Sulphide Sealent | Track Free Condition(RT/16hrs.) | BS 5212 Part 3 |
| 141 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement Steel (rebar) | Pull-out Test | IS 2770 (Part-1) |
| 142 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bar/MBCB/STRAND/FERROUS & NON FERROUS MATERIAL /Structural Steel | Mass per meter | IS : 1786 2008 |
| 143 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Bend Test | IS:1599 RA 2012 |
| 144 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Breaking load | IS 1608( Part 1) |
| 145 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Diameter | IS : 1786 RA 2018 |
| 146 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Elongation | IS:1608 part-1 |
| 147 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Re-Bend Test | IS:1786 |
| 148 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Reduction area | IS 1608( Part 1) |
| 149 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Ultimate Tensile Strength | IS:1608 Part-1 |
| 150 | MECHANICAL- BUILDINGS MATERIALS | Reinforcement steel bars | Yield Stress | IS:1608 Part-1 |
| 151 | MECHANICAL- BUILDINGS MATERIALS | Retro reflective Signboards/Road Studs | Coefficient of Retro-reflection-RL & QD | ASTM -E810-03 ASTM - E1709-09 |

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| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7475 | **Page No** | 9 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

| 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 |
|---|---|---|---|---|
| 152 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Binder Content | Appendix D,BS:3262 Part 1 |
| 153 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Coeff. of retro-reflection | ASTM D1710-11/ BSEN 1436 |
| 154 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Colour | AASHTO M249 |
| 155 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Cracking Resistance | As Per ASHTO T-250 |
| 156 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Drying Time | As Per MORTH Spec. 2013 |
| 157 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Flow Resistance test | AASHTO T-250 |
| 158 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Free Flow Test | As Per MORTH Spec. |
| 159 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Glass Beads Content | Appendix C,BS:3262 Part 1 |
| 160 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Gradation of Glass Beads(Type 1 & 2) | MORTH Spec. |
| 161 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Luminance Test | AASHTO M249-12/ASTM E2302-03 |
| 162 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Refractive Index | BS 6088 |
| 163 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Roundness-Microscopic | BS: 6088 |
| 164 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Skid Resistance test | BS EN 1436 |
| 165 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Softening Point- R&B | ASTM D 36 |
| 166 | MECHANICAL- BUILDINGS MATERIALS | Thermoplastic Road Marking Material | Yellowness Index | AASHTO M249-4/ASTM E2302-03 |
| 167 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical | Rotation Test | IRC 83 (Part-3): |
| 168 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical | Shear Modulus | IRC 83 (Part 2): |
| 169 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical | Stripping/Adhesion Strength-Bond Shear Strength | IRC 83 (Part 2): |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 10 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| 170 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical , Roller & Rocker | Friction Test | IRC 83 (Part-3 & 4) |
| 171 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical , Roller & Rocker | Load Test-Vertical/Horizontal | IRC 83 (Part-3 & 4) |
| 172 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Bridge Bearings Elastomeric, Pot, Pot-cum-PTFF, Pin & Metallic Spherical & Cylindrical | Elastic Modulus-Compression Stiffness | IRC 83 (Part 2) |
| 173 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Apparent opening Size | ASTM D4751 |
| 174 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | CBR Puncture Resistance | ISO 12236 |
| 175 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Elongation | ASTM D5035 |
| 176 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Grab Tensile Strength | ASTM D4632 |
| 177 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Mass Per Square Meter | ASTM D5261 |
| 178 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Tear test | ASTM D 4533 |
| 179 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Tensile Strength | ASTM D5035 |
| 180 | MECHANICAL- TEXTILE MATERIALS | Geo Composite Sheet | Thickness | ASTM D5199/IS:13162(P-3) |
| 181 | MECHANICAL- TEXTILE MATERIALS | Geogrid / Paraweb/GeoStrap/Geo Mega Sleeve | Aperture Size & Number of Ribs/Meter | ASTM D5261 |
| 182 | MECHANICAL- TEXTILE MATERIALS | Geogrid / Paraweb/GeoStrap/Geo Mega Sleeve | Dimension | ASTM D5261 |
| 183 | MECHANICAL- TEXTILE MATERIALS | Geogrid / Paraweb/GeoStrap/Geo Mega Sleeve | Elongation | ASTM D6637 |
| 184 | MECHANICAL- TEXTILE MATERIALS | Geogrid / Paraweb/GeoStrap/Geo Mega Sleeve | Mass Per Square Meter | ASTM D5261 |
| 185 | MECHANICAL- TEXTILE MATERIALS | Geogrid / Paraweb/GeoStrap/Geo Mega Sleeve | Tensile strength | ASTM D6637 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7475 | **Page No** | 11 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

| 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 |
|---|---|---|---|---|
| LOCATION 1-B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA<br>Site Facility | | | | |
| 1 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structure | Pile Integrity Test | ASTM – D 5882 |
| 2 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structures | Carbonation Depth | BS 1881 Part 201 |
| 3 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structures | Cover Depth Measurement | BS 1811 pART 204 |
| 4 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structure | Half Cell Potential | ASTM C876 |
| 5 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structure | Rebound Hammer Test | IS:13311 (P 2) RA -2013 |
| 6 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structure | Ultra Sonic Pulse Velocity Test(UPV) | IS:13311 (P 1) RA -2013,IS:516(P-5/Sec-1):2018 |
| 7 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Concrete Structures | Cappo Test | ASTM C 900 |
| 8 | NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES | Pile | Ultrasonic Cross hole Test | ASTM D6760 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 12 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| LOCATION 2 - B-360, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA<br>Permanent Facility | | | | |
| 1 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Moisture | IS 6186 RA 2015 |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Air content By pressure method | Clause 7.2.2 & IS: 1199 -1959 |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Bleeding % | Clause 7.2.4 of IS: 9103-1999 |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Drying Shrinkage | IS:1199 RA-2018 |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Flexural strength | Clause 8.2.2 & IS: 516-1959 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Length change | Clause 8.2.3 & IS: 1199 -1959 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Time of setting | Clause 7.2.3 IS 9103-1999 & IS 8142-1976 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Admixture | Water content | Clause 7.2.5, IS: 9103-1999, (Part-3), |
| 9 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Fineness | IS 6186 RA 2015 |
| 10 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Gel Formation Index | IS: 6186, A-5 2015 |
| 11 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | PH Value | IS 6186 RA 2015 |
| 12 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Sand Content | IS 6186 RA 2015 |
| 13 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Swelling | IS 6186 RA 2015 |
| 14 | MECHANICAL- BUILDINGS MATERIALS | Bentonite | Viscosity at 30°C | IS: 6186, A-7 2015 |
| 15 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Compressive Strength | IS: 3495(Part1)-1992 |
| 16 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Dimension(H) | IS: 1077:1992 |
| 17 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Dimension(L) | IS: 1077:1992 |
| 18 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Dimension(W) | IS: 1077:1992 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 13 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| 19 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Efflorescence | IS: 3495(Part3)-1992 |
| 20 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Warpage | IS : 3495 (Part-4) -1992 |
| 21 | MECHANICAL- BUILDINGS MATERIALS | Burnt clay building bricks/ Fly ash bricks | Water Absorption | IS: 3495(Part2)-1992 |
| 22 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Dimension | IS:1237 2012 |
| 23 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Flatness | IS: 1237 2012 |
| 24 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Perpendicularity | IS:1237 2012 |
| 25 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Water absorption | IS:1237 2012 |
| 26 | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Tiles | Wet transverse | IS:1237 2012 |
| 27 | MECHANICAL- BUILDINGS MATERIALS | Ceramic tiles | Chemical resistance | IS:13630 part-7 |
| 28 | MECHANICAL- BUILDINGS MATERIALS | Ceramic tiles | Water absorption | IS:13630 part-2 |
| 29 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | 10% fines value | IS 2386( Part 4) 1963 & BS 812 Part 111 |
| 30 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Aggregate Crushing Value | IS 2386( Part 4) 1963 |
| 31 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Aggregate Impact Value | IS 2386( Part 4) 1963 |
| 32 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Bulk Density | IS 2386( Part 3) 1963 |
| 33 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Combined Flakiness & Elongation Index | IS 2386( Part 1) 1963 |
| 34 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Deleterious Material | IS: 2386(Part-2)-1963 |
| 35 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Los Angeles Abrasion Value | IS 2386( Part 4) 1963 |
| 36 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Material Finer than 75 micron | IS 2386(Part 1) 1963 |
| 37 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Mortar Making Properties | IS 2386 (Part 6): 1963 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7475 | **Page No** | 14 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

| 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 |
|---|---|---|---|---|
| 38 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Petrographic Examination | IS 2386 (Part 8): 1963 |
| 39 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Polished stone value | IS: 2386(Part-4)-1963, RA-2016 BS: 812 (P-114), 1989, ASTM E303 & EN 1097 |
| 40 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Sieve Analysis/ Particle Shape & Size/Material Finer/Gradation/Grain Size Analysis,Sieve Size: 4.75mm to 63mm | IS 2386( Part 1) 1963 |
| 41 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Soundness a) Na2So4 b) MgSo4 | IS: 2386(Part-5)-1963 |
| 42 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Specific Gravity | IS 2386( Part 3) 1963 |
| 43 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Stripping Value of aggregate | IS: 6241-1971 |
| 44 | MECHANICAL- BUILDINGS MATERIALS | Coarse Aggregates | Water Absorption | IS 2386( Part 3) 1963 |
| 45 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Bulk Density | IS 2386( Part 3) 1963 |
| 46 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Deleterious Material | IS: 2386(Part-2)- 1963 |
| 47 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Mortar Making Properties | IS 2386 (Part 6) (RA 2011 |
| 48 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Petrographic Examination | IS : 2386 (Part-8) 1963 |
| 49 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Sand equivalent value | IS: 2720(Part-37): 1976 |
| 50 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Sieve Analysis/ Particle Shape & Size/Material Finer(Sieve Size:75µm to 4.75mm) | IS 2386( Part 1) 1963 |
| 51 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Silt content | IS : 2386 (Part-2) 1963 |
| 52 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Soundness a) Na2So4 b) MgSo4 | IS: 2386(Part-5)-1963 |
| 53 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Specific Gravity | IS 2386( Part 3) 1963 |
| 54 | MECHANICAL- BUILDINGS MATERIALS | Fine Aggregates | Water Absorption | IS 2386( Part 3) 1963 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 15 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| 55 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Compaction factor | Cl 5.2 IS : 1199 1959 |
| 56 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Density | IS : 1199 1959 |
| 57 | MECHANICAL- BUILDINGS MATERIALS | Fresh Concrete | Slump | IS:1199-1959 |
| 58 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Compressive Strength of accelerated cured concrete specimen | IS: 516:1959 , RA -2018 & IS:1199 RA-2018 |
| 59 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Compressive Strength of Concrete cube/Cylindrical | IS: 516:1959 |
| 60 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Concrete water Permeability | DIN:1048(Part-5)-1991 & MORTH Specs. |
| 61 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Flexural Strength | IS:516-1959 |
| 62 | MECHANICAL- BUILDINGS MATERIALS | Hardened Concrete | Water absorption | IS:2185 (Part2)-1983 |
| 63 | MECHANICAL- BUILDINGS MATERIALS | HDPE Sheathing Ducts | Water loss test | MORTH Specs 2013 (Section-1800)/IRC-18 |
| 64 | MECHANICAL- BUILDINGS MATERIALS | HDPE Sheathing Ducts | Workability | MORTH Specs 2013 (Section-1800)/IRC-18 |
| 65 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Compressive strength | IS : 15658 Annexure D 2006 |
| 66 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Dimension | IS : 15658 Annexure B 2006 |
| 67 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Flexural Strength | IS : 15658 Annexure G 2006 |
| 68 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Thickness of wearing layer | IS : 15658 Cl6.2.3 2006 |
| 69 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Visual inspection | IS : 15658 clause 2006 |
| 70 | MECHANICAL- BUILDINGS MATERIALS | Paver block/ Interlocking block | Water absorption | IS : 15658 Annexure C 2006 |
| 71 | MECHANICAL- SOIL AND ROCK | Rock | Bulk Density | IS:13030:1991 |
| 72 | MECHANICAL- SOIL AND ROCK | Rock | Dry Density | IS:13030:1991 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 16 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| 73 | MECHANICAL- SOIL AND ROCK | Rock | Fractured Faces | ASTM D 5821 |
| 74 | MECHANICAL- SOIL AND ROCK | Rock | Moisture Content | IS:13030:1991 |
| 75 | MECHANICAL- SOIL AND ROCK | Rock | Point Load Test | ASTM D5731 |
| 76 | MECHANICAL- SOIL AND ROCK | Rock | Porosity | IS:13030:1991 |
| 77 | MECHANICAL- SOIL AND ROCK | Rock | Retained Tensile Strength | AASHTO T 283-07 |
| 78 | MECHANICAL- SOIL AND ROCK | Rock | Slake Durability Index | IS: 10050 :1981 |
| 79 | MECHANICAL- SOIL AND ROCK | Rock | Specific Gravity | IS:13030:1991 |
| 80 | MECHANICAL- SOIL AND ROCK | Rock | Unconfined Compressive Strength | IS 9143-1979 |
| 81 | MECHANICAL- SOIL AND ROCK | Rock | Water Absorption | IS:13030:1991 |
| 82 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | California Bearing Ratio (C.B.R.)-Soaked/Unsoaked | IS 2720 ( Part 16)/AASHTO T193 1987 |
| 83 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Permeability Test of GSB by Constant Head Method i)Coefficient of Permeability | IS :2720 Part 36 (RA-2016): |
| 84 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Specific Gravity | IS : 2720 part-3 |
| 85 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Relative Density | IS 2720 ( Part 14)-1983 |
| 86 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Coefficient of Interface Friction | IS 13326 (Part 1): 1992 |
| 87 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Compression index | IS:2720(Part-15) 1965 |
| 88 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Consolidation Test | IS:2720(P-15)-1965 |
| 89 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Direct Shear Test-UU, F | IS:2720(P-13)1986 |
| 90 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Direct Shear Test-UU,C | IS:2720(P-13)1986 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7475 | **Page No** | 17 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

| 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 |
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| 91 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Free Swell Index | IS-2720 (Part -40)-1977 |
| 92 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Grain size Analysis-Wet | IS 2720 (Part-4)1985 |
| 93 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Heavy Compaction OMC | IS 2720 ( Part 8) 1983 |
| 94 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Heavy Compaction MDD | IS 2720 ( Part 8) 1983 |
| 95 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Light Compaction OMC | IS 2720 ( Part 7) 1980 |
| 96 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Light Compaction MDD | IS 2720 ( Part 7) 1980 |
| 97 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Liquid Limit | IS 2720 ( Part 5) 1985 |
| 98 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Moisture content | IS 2720 ( Part 2) 1973 |
| 99 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Permeability Test of GSB by Constant Head Method ii) Void Ratio-e | IS :2720 Part 36 (RA-2016): |
| 100 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Permeability test | IS:2720(P-17) |
| 101 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Plastic Limit | IS 2720 ( Part 5) 1985 |
| 102 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Shrinkage Limit | IS 2720 ( Part 6) 1972 |
| 103 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Tri axial shear Test-C | IS:2720(P-11 & 12)-1993 |
| 104 | MECHANICAL- SOIL AND ROCK | Soil / Fly ash / Pond ash/GSB / WBM / WMM / CTSB | Tri axial shear Test-F | IS:2720(P-11 & 12)-1993 |
| 105 | MECHANICAL- WOOD AND WOOD PRODUCTS | Wood/ Timber/ Plywood | Moisture Content | IS:1708(P-1) RA-2015 |
| 106 | MECHANICAL- WOOD AND WOOD PRODUCTS | Wood/ Timber/ Plywood | Specific Gravity | IS:1708-1986(Part-2) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-7475 **Page No** 18 of 19

**Validity** 11/03/2021 to 10/03/2023 **Last Amended on** 14/12/2021

| 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 |
|---|---|---|---|---|
| LOCATION 2 - B-360, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA<br>Site Facility | | | | |
| 1 | MECHANICAL- BUILDINGS MATERIALS | Bituminous/ concrete Road Section | Benkelman Beam Deflection Test (Bituminous Section)/FWD | IRC:81-1981-1997 Guidelines on Measuring Road Roughness and Norms |
| 2 | MECHANICAL- BUILDINGS MATERIALS | Bituminous/ concrete Road Section | Bridge Load Test (Bituminous & Concrete Section) | IRC SP:51-2015 Guidelines for load testing of bridges (first revision) |
| 3 | MECHANICAL- BUILDINGS MATERIALS | Bituminous/ concrete Road Section | Surface evenness of Highway Pavements (Bituminous & Concrete Road)/NSV | IRC SP:16-2019 Strengthening of flexible Road Pavement using Benkelman Beam Deflection Technique |
| 4 | MECHANICAL- BUILDINGS MATERIALS | Concrete Structure | Pile Load Test (Concrete Structure) d) Pullout Test | IS: 2911 (Part 4) R11 |
| 5 | MECHANICAL- BUILDINGS MATERIALS | Concrete Structure | Concrete Permeability Test(co-efficient of permeability) | IS:3085 RA 2016 |
| 6 | MECHANICAL- BUILDINGS MATERIALS | Concrete Structure | Pile Load Test (Concrete Structure) a) Static Load Test | IS: 2911 (Part 4) R11 |
| 7 | MECHANICAL- BUILDINGS MATERIALS | Concrete Structure | Pile Load Test (Concrete Structure) b) Dynamic Load Test | IS: 2911 (Part 4) R11 |
| 8 | MECHANICAL- BUILDINGS MATERIALS | Concrete Structure | Pile Load Test (Concrete Structure) c) Lateral Load Test | IS: 2911 (Part 4) R11 |
| 9 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Electricals Resistivity Test 2D | IS 15736: 2007 |
| 10 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Ev2 Test | DIN:18134:2001-09/RDSO GE-14 |
| 11 | MECHANICAL- SOIL AND ROCK | Soil & Rock | K-Value Test | IS-9214:1979 |
| 12 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Plate Load Test | IS:1888-1982 |
| 13 | MECHANICAL- SOIL AND ROCK | Cross Hole | Cross Hole Sonic Test | ASTM D4428 |
| 14 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Dry Density- Core Cutting Method | IS:2720 (P 29)-1975 |
| 15 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Dry Density- Sand Replacement Method | IS:2720 (P 28)-1974 |
| 16 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Electricals Resistivity Test | IS:15736-2007 |

# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | RADHEY TESTING & CONSULTANTS PRIVATE LIMITED, B-363, KALINDI VIHAR, AGRA, UTTAR PRADESH, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7475 | **Page No** | 19 of 19 |
| **Validity** | 11/03/2021 to 10/03/2023 | **Last Amended on** | 14/12/2021 |

| 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 |
|---|---|---|---|---|
| 17 | MECHANICAL- SOIL AND ROCK | Soil & Rock | Standard Penetration Test(Soil Investigation Test) N. value | IS:2131-1981 |