CERTIFICATE OF ACCREDITATION

This is to attest that

QATAR INDUSTRIAL LABORATORIES W.LL

STREET NO. 43, GATE NO. 127, P.O. BOX NO. 10415
DOHA 10415, QATAR

Testing Laboratory TL-528

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date April 8, 2026

International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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QATAR INDUSTRIAL LABORATORIES W.LL

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Accredited to ISO/IEC 17025:2017 *Effective Date April 8, 2026*

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Admixture	ASTM C233 Cl 11.1.1	Standard Test Method for Air-Entraining Admixtures for Concrete Cl 11.1.1 pH	Industrial Area (St. No.46) Main Lab
Admixture	ASTM E70	Standard Test Method for pH of Aqueous Solutions with the Glass Electrode	Industrial Area (St. No.46) Main Lab
Aggregate	AASHTO T304	Standard Method of Test for Uncompacted Void Content of Fine Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C29	Standard Test Method for Bulk Density (“Unit Weight”) and Voids in Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C117	Standard Test Method for Materials Finer than 75- µm (No. 200) Sieve in Mineral Aggregates by Washing	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C123	Standard Test Method for Lightweight Particles in Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Aggregate	ASTM C1252	Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM D75	Standard Practice for Sampling Aggregates	Field Test
Aggregate	ASTM D546	Standard Test Method for Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM D4791	Flat particle, elongated particle, flat and elongated particle	Industrial Area (St. No.43) Main Lab
Aggregate	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-2	Testing aggregates. Methods for determination of density- Clauses 5.3, 5.4 & 5.5	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-102	Testing aggregates. Methods for sampling	Field Test
Aggregate	BS 812-103.1	Testing aggregates. Method for determination of particle size distribution. Sieve tests- Clauses 7.2 & 7.3	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-105.1	Testing aggregates. Methods for determination of particle shape. Flakiness index	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-105.2	Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-109	Testing aggregates. Methods for determination of moisture content	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-110	Testing aggregates. Methods for determination of aggregate crushing value (ACV)	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-111	Testing aggregates. Methods for determination of ten per cent fines value (TFV)	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-112	Testing aggregates. Method for determination of aggregate impact value (AIV)	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-117	Testing aggregates. Method for determination of water-soluble chloride salts: Clause 9: Water soluble chloride content	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Aggregate	BS 812-117	Testing aggregates. Method for determination of water-soluble chloride salts Appendix C: Test Method for Determination of Chloride Content of Aggregates using a Nitric Acid Extract, for Aggregate Containing Chloride not Extracted by Water.	Industrial Area (St. No.46) Main Lab
Aggregate	BS 812-118	Testing aggregates. Methods for determination of sulphate content: Clause 6: Determination of the Total Sulphate Content by Acid Extraction	Industrial Area (St. No.43) Main Lab
Aggregate	BS 812-121	Testing aggregates. Method for determination of soundness	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 932-1	Tests for general properties of aggregates. Methods for sampling	Field Test
Aggregate	BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 933-3	Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 933-4	Tests for geometrical properties of aggregates. Determination of particle shape. Shape index	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 933-7	Tests for geometrical properties of aggregates. Determination of shell content. Percentage of shells in coarse aggregates	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 1097-2	Tests for mechanical and physical properties of aggregates. Methods for the determination of resistance to fragmentation CL 5	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 1097-6	Tests for mechanical and physical properties of aggregates. Determination of particle density and water absorption	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 1367-2	Tests for thermal and weathering properties of aggregates. Magnesium sulfate test-Soundness test	Industrial Area (St. No.43) Main Lab
Aggregate	BS EN 1744-1	Tests for chemical properties of aggregates. Chemical analysis: Clause 7 Determination of Water-Soluble Chloride salts using the Volhard Method	Industrial Area (St. No.46) Main Lab
Aggregate	BS EN 1744-1	Tests for chemical properties of aggregates. Chemical analysis: Clause 10 Determination of Water-Soluble Sulphates	Industrial Area (St. No.46) Main Lab
Aggregate	BS EN 1744-1	Tests for chemical properties of aggregates. Chemical analysis: Clause 12 Determination of Acid soluble Sulfates	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Aggregate	BS EN 1744-5	Tests for chemical properties of aggregates. Determination of acid-soluble chloride salts	Industrial Area (St. No.46) Main Lab
Air Quality - Ambient / Work Zone	In-House Method (QSWI-CHEM-99-039) SENS-IT / ASTM D3249 / USEPA 40 CFR Part 50	Carbon Monoxide (CO) Nitrogen Dioxide (NO2) Ozone (O3) Benzene (C6H6) Methane (CH4) Sulphur Dioxide (SO2) Ammonia (NH3) Hydrogen Sulphide (H2S) Volatile Organic Compounds (VOC) - PID4 PM - 10 (Respirable suspended particulate matter) PM - 2.5 (Particulate Matter)	Industrial Area (St. No.46) Main Lab / Site
Air Quality - Ambient / Work Zone	In-House Method based on Automatic Weather monitoring station (WMS) -MET-3000	Meteorological Data: Temperature (Inside/Outside) Humidity (Inside/Outside) Barometric Pressure Wind Speed Wind Direction Rainfall	Industrial Area (St. No.46) Main Lab / Site
Air Quality – Indoor (IAQ)	In-House Method (Based on Manufacturers Manual AeroQual)	Oxides of Nitrogen (NO2) Particulate Matter (PM 2.5) Particulate Matter (PM 10) Sulphur Dioxide (SO2) Hydrogen Sulphide (H_2S) NMHC (Non Methanic Hydrocarbon) Ammonia (NH3) Carbon Monoxide (CO) Volatile Organic Compounds (VOC) Carbon dioxide (CO_2) Formaldehyde (HCHO) Temperature (^oC) % Relative Humidity	Industrial Area (St. No.46) Main Lab
Asphalt	AASHTO R47	Reducing samples of hot mix asphalt to testing size	Industrial Area (St. No.43) Main Lab
Asphalt	AASHTO T312	Preparation and determination of relative density of Asphalt mix specimen using Super pave gyratory compactor	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D5	Standard Test Method for Penetration of Bituminous Materials	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6	Standard Test Method for Loss on Heating of Oil and Asphaltic Compounds	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D36/D36M	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D70	Standard Test Method for Density of Semi-Solid Bituminous Materials (Pycnometer Method)	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Asphalt	ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D95	Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D113	Standard Test Method for Ductility of Bituminous Materials	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D139	Standard Test Method for Float Test for Bituminous Materials	Field test
Asphalt	ASTM D140 Cl. 9.1.1,10,11, 13 and 14	Standard Practice for Sampling Bituminous Materials	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D402	Standard Test Method for Distillation of Cutback Asphaltic (Bituminous) Products	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures	Field Test
Asphalt	ASTM D1188	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D1754	Standard Test Method for Effects of Heat and Air on Asphaltic Materials & #40; Thin-Film Oven Test & #41	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2042	Standard Test Method for Solubility of Asphalt Materials in Trichloroethylene	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2172	Standard Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2950	Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D2995 - Clause 6 & 7	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D3549	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D3665	Standard Practice for Random Sampling of Construction Materials	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Asphalt	ASTM D4402	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D4414	Standard Practice for Measurement of Wet Film Thickness by Notch Gages	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D4867	Standard Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures (TSR)	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D5361	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing	Field Test
Asphalt	ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D5581	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen)	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6925	Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Super pave Gyratory Compactor	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6926	Standard Practice for Preparation of Bituminous Specimens Using Marshall Apparatus	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6927	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6930	Standard Test Method for Settlement and Storage Stability of Emulsified Asphalts	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6931	Standard Test Method for Indirect Tensile (IDT) Strength of Bituminous Mixtures	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6933	Standard Test Method for Oversized Particles in Emulsified Asphalts (Sieve Test)	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6935	Standard Test Method for Determining Cement Mixing of Emulsified Asphalt	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D6997	Standard Test Method for Distillation of Emulsified Asphalt	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D7113	Standard Test Method for Density of Bituminous Paving Mixtures in Place by the Electromagnetic Surface Contact Methods	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D7402	Standard Practice for Identifying Cationic Emulsified Asphalts	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM D7496	Standard Test Method for Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer	Industrial Area (St. No.43) Main Lab
Asphalt	ASTM E1703	Standard Test Method for Measuring Rut-Depth of Pavement Surfaces Using a Straightedge	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Asphalt	ASTM E303	Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester	Industrial Area (St. No.43) Main Lab/Field
Asphalt	ASTM E965	Standard Test Method for Measuring Pavement Macrotexture Depth Using a Volumetric Technique	Field Test
Asphalt	ASTM E1710	Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer	Industrial Area (St. No.43) Main Lab
Asphalt	BS 3262 Part 3 Appendix B	Hot-applied thermoplastic road marking materials – Part 3 Specification for application of material to road surfaces – Appendix B Determination of Thickness	Industrial Area (St. No.43) Main Lab
Asphalt	BS 3262-1 Appendix F	Hot-applied thermoplastic road marking materials - Part 1: Specification for constituent materials and mixtures Appendix F Determination of luminance factor	Industrial Area (St. No.43) Main Lab
Asphalt	BS 3262-1 Appendix J	Hot-applied thermoplastic road marking materials - Part 1: Specification for constituent materials and mixtures Appendix J Determination of skid resistance	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-1	Bituminous mixtures. Test methods for hot mix asphalt Soluble binder content	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-13	Bituminous mixtures. Test methods for hot mix asphalt. Temperature measurement	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-2	Bituminous mixtures. Test methods. Determination of particle size distribution	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-27	Bituminous mixtures. Test methods for hot mix asphalt. Sampling	Field Test
Asphalt	BS EN 12697-28	Bituminous mixtures. Test methods for hot mix asphalt. Preparation of samples for determining binder content, water content and grading	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-29	Bituminous mixtures. Test methods for hot mix asphalt. Determination of the dimensions of a bituminous specimen	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-30	Bituminous mixtures. Test methods for hot mix asphalt. Specimen preparation by impact compactor	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-34	Bituminous mixtures. Test methods for hot mix asphalt. Marshall test	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-36	Bituminous mixtures. Test methods for hot mix asphalt. Determination of the thickness of a bituminous pavement	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Asphalt	BS EN 12697-5	Bituminous mixtures. Test methods for hot mix asphalt. Determination of the maximum density	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-6	Bituminous mixtures. Test methods for hot mix asphalt. Determination of bulk density of bituminous specimens	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 12697-8	Bituminous mixtures. Test methods for hot mix asphalt. Determination of void characteristics of bituminous specimens	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 13036-6	Measurement of transverse and longitudinal profiles in the evenness	Field Test
Asphalt	BS EN 13197:2011+A1 Annex C	Road marking materials - Wear simulator Turntable- Annex C Determination of layer thickness	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 13197:2011+A1 Annex D	Road marking materials - Wear simulator Turntable- Annex D Determination of the quantity of drop-on materials (consumption)	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 1426	Bitumen and bituminous binders. Determination of needle penetration	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 1427	Bitumen and bituminous binders. Determination of the softening point. Ring and Ball method	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 1436 Annex A&B	Road marking materials. Road marking performance for road users and test methods – Annex A Measurement method for the luminance coefficient under diffuse illumination Qd, Annex B Measurement method for the coefficient of retroreflected luminance R_L	Industrial Area (St. No.43) Main Lab
Asphalt	BS EN 1436 Annex C	Road marking materials. Road marking performance for road users and test methods - Measuring method for the luminance factor ββ and chromaticity co-ordinates x and y	Field Test
Asphalt	BS EN 1436 Annex D	Road marking materials. Road marking performance for road users and test methods - Annex D Measuring method for skid resistance	Field Test
Asphalt	Method Statement No.: QSWI-ASPH-99-030 QCS 2014, Section 06 Part 5.3.3 Paragraph 16	Marshall Retained Stability Test	Industrial Area (St. No.43) Main Lab
Asphalt	Method Statement No.: QSWI-ASPH-99-031 QCS 2014, Section 06 Part 05 Table 5.12	Air Voids Percent at 400 Blows	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Cement	ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars	Industrial Area (St. No.46) Main Lab
Cement	ASTM C183	Standard Practice for Sampling and the Amount of Testing of Hydraulic Cement	Industrial Area (St. No.46) Main Lab
Cement	ASTM C187	Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	Industrial Area (St. No.46) Main Lab
Cement	ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle	Industrial Area (St. No.46) Main Lab
Cement	ASTM C349	Standard Test Method for Compressive Strength of Hydraulic-Cement Mortars (Using Portions of Prisms Broken in Flexure)	Industrial Area (St. No.46) Main Lab
Cement	ASTM C430	Standard Test Method for Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve	Industrial Area (St. No.43) Main Lab
Cement	ASTM C989	Standard Specification for Slag Cement for Use in Concrete and Mortars	Industrial Area (St. No.46) Main Lab
Cement	ASTM C1012	Standard Test Method for Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution	Industrial Area (St. No.46) Main Lab
Cement	ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-1	Methods of testing cement. Determination of strength	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-2	Method of testing cement: Chemical analysis of cement. Clause 5 (SiO2, Al2O3, Fe2O, CaO, MgO, SO3, K2O)	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-2 Cl 4.4.1	Method of testing cement: Chemical analysis of cement. Clause 4.4.1 Loss on Ignition @ 950±25°C of Cement	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-2 Cl 4.4.3	Method of testing cement: Chemical analysis of cement. Cl 4.4.3 Insoluble Residue	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-2 Cl 4.5.16	Method of testing cement: Chemical analysis of cement. Cl 4.5.16 Chloride (Cl) Content in Cement	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-3	Methods of testing cement. Determination of setting times and soundness	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-6	Methods of testing cement. Determination of fineness & Density of Cement	Industrial Area (St. No.46) Main Lab
Cement	BS EN 196-7	Methods of testing cement. Methods of taking and preparing samples of cement	Industrial Area (St. No.46) Main Lab
Cement	BS EN 450-1	Fly ash for concrete. Definition, specifications and conformity criteria	Industrial Area (St. No.46) Main Lab
Chemical	ASTM C494	Standard Specification for Chemical Admixtures for Concrete: Clause.18.2 Residue by Oven Drying	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical	ASTM C494	Standard Specification for Chemical Admixtures for Concrete: Clause 18.4 Specific Gravity	Industrial Area (St. No.46) Main Lab
Chemical	ASTM E415	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry	Industrial Area (St. No.43) Main Lab
Chemical	ASTM E1086	Standard Test Method for Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry	Industrial Area (St. No.43) Main Lab
Chemical	BS 6068-2.51	Water Quality. Determination of Alkalinity Part 1: Determination of Total and Composite Alkalinity	Industrial Area (St. No.46) Main Lab
Chemical	BS EN 196-2	Method of testing cement: Chemical analysis of cement. Clause 4.4.1 Determination of Loss on Ignition	Industrial Area (St. No.46) Main Lab
Chemical	BS EN 480 Part 8	Admixtures for concrete, mortar and grout. Test methods. Determination of the conventional dry material content	Industrial Area (St. No.46) Main Lab
Chemical	BS EN 933-9	Tests for geometrical properties of aggregates - Assessment of fines. Methylene blue test	Industrial Area (St. No.46) Main Lab
Chemical	EN ISO 9963-1	Water quality - Determination of alkalinity - Part 1: Determination of total and composite alkalinity	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2130 B	Turbidity	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2320 B	Alkalinity: Titration Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2340 C	Hardness: EDTA Titrimetric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2510 B	Conductivity: Laboratory Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2540 B	Total Solids Dried at 103-105°C	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2540 C	Total Dissolved Solids Dried at 180°C	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2540 D	Total Suspended Solids Dried at 103-105°C	Industrial Area (St. No.46) Main Lab
Chemical	APHA 2540 F	Settleable Solids	Industrial Area (St. No.46) Main Lab
Chemical	APHA 3500 Ca B	Calcium: EDTA Titrimetric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 3500 Mg B	Magnesium: Calculation Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 4500 Cl- B	Chloride: Argentometric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 4500 Cl G	Chlorine (Residual): DPD Colorimetric Method	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical	APHA 4500 H+ B	pH Value: Electrometric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 4500 P C	Phosphorus: Vanadomolybdophosphoric Acid Colorimetric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 4500 SO42 C	Sulphate: Gravimetric Method with Ignition of Residue	Industrial Area (St. No.46) Main Lab
Chemical	APHA 5210 D	Biological Oxygen Demand: Respirometric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 5220 D	Chemical Oxygen Demand: Closed Reflux, Colorimetric Method	Industrial Area (St. No.46) Main Lab
Chemical	APHA 9223 B	Enzyme Substrate Coliform Test: E.Coli	Industrial Area (St. No.46) Main Lab
Chemical	APHA 9223 B	Enzyme Substrate Coliform Test: Fecal Coliforms	Industrial Area (St. No.46) Main Lab
Chemical	APHA 9223 B	Enzyme Substrate Coliform Test: Total Coliforms	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	SOP: QSWI-CHEM-99-020 (based on APHA 3120-B)	Metals by Plasma Emission Spectroscopy: ICP Method (Hg, Ca, Fe, K, Mg, Na, Si, B, P, Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, Th and U)	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	SOP: QSWI-CHEM-PAH-GC/MS-01 (based on APHA 6640 B & C (Soxhlet Extraction))	Poly Aromatic Hydrocarbons: Naphthalene Acenaphthlene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene 1,2-Benzanthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno (1,2,3-c.d)pyrene Dibenzo(a,h)Anthracene Benzo(g,h,i)Perylene	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	USEPA 1664 Revision B USEPA 9071 B	Total Petroleum Hydrocarbons (>C28-C40 and above) - Heavy Fraction	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	USEPA 8015 D USEPA 5021 A	Total Petroleum Hydrocarbons (C6-C9) - GRO	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	USEPA 8015 D USEPA 3510 C	Total Petroleum Hydrocarbons (C10-C28) - DRO	Industrial Area (St. No.46) Main Lab
Chemical (Soil)	USEPA 8260 B	**Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (VOCs):** Vinyl chloride Ethyl ether	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Soil) (cont'd.)	USEPA 8260 B (cont'd.)	1,1-dichloroEthene CFC-113 Carbon disulfide Acetonitrile Allyl chloride Methylene chloride MTBE trans-1,2-Dichloroethene 1,1-dichloroEthane Diisopropyl ether cis-1,2-dichloroethene Propionitrile 2,2-Dichloropropane Methyl Acrylate Methane, bromochloro- Chloroprene Tetrahydrofuran Chloroform Ethane, 1,1,1-trichloro- 1-Propene, 1,1-dichloro- Benzene 1,2-dichloroEthane Trichloroethylene 1,2-dichloroPropane Methane, dibromo- Methyl methacrylate Methane, bromodichloro- Propane, 2-nitro- 1-Propene, Cis 1,3-dichloro- Toluene 1-Propene, trans 1,3-dichloro-, (E)- Ethyl Methacrylate 1,1,2-trichloroEthane Tetrachloroethylene 1,3-dichloroPropane dibromochloroMethane 1,2-dibromoEthane ChloroBenzene, Ethylbenzene m & p-Xylene o-Xylene Styrene Bromoform isopropylbenzene(cumene) 2-Butene, trans 1,4-dichloro, (E)- Bromobenzene 1,2,3-trichloropropane Benzene, propyl- 2-chlorotoluene	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Soil) (cont'd.)	USEPA 8260 B (cont'd.)	Benzene, 1,3,5 -trimethyl- 4-chlorotoluene Benzene, tert-butyl- Benzene, 1,2,4-trimethyl- Sec-butylbenzene p-Cymene 1,3-dichloroBenzene 1,4-dichloroBenzene 1,2-dichloroBenzene n-butyl-Benzene Propane, 1,2-dibromo-3-chloro- Benzene, nitro- 1,2,4-trichloroBenzene, hexachloro-1,3-Butadiene, Naphthalene Benzene, 1,2,3-trichloro-	Industrial Area (St. No.46) Main Lab
Chemical (Soil) Chemical (Soil) (cont'd.)	USEPA 8270D	Semi-volatile Organic Compounds (SVOC) Phenol Aniline Bis(2-chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobezene Benzyl alcohol 1,2-Dichlorobenzene 2-Methylphenol (o-cresol) 2,2'-oxybis(1-chloropropane) 3-Methylphenol (o-cresol) 4-Methylphenol (p-cresol) Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene Dichlorvos (DDVP) 2-Methylnaphthalene 1-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline 1,4-Dinitrobenzene	Industrial Area (St. No.46) Main Lab Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Soil) (cont'd.)	USEPA 8270D (cont'd.)	Dimethyl phthalate 1,3-Dinitrobenzene 2,6-Dinitrotoluene 1,2-Dinitrobenzene Acenaphthylene 3-Nitroaniline Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Dibenzofuran 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol Diethylphthalate 4-Chlorophenyl phenyl ether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) Diphenylamine Azobenzene 2,4,6-Tribromophenol (SS) 4-Bromopheny phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Phosphamidon Carbazole Di-n-butylphthalate Fluoranthene Pyrene Benzyl butyl phthalate Bis(2-ethylhexyl)adipate Chrysene Bis(2-ethylhexyl) phthalate Benz[a]anthracene Di-n-octyl phthalate Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene Benzo[ghi]perylene	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 2320-B	Bicarbonate (Carbonate and Bicarbonate by Calculation from Alkalinity: Titration Method)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 2320-B	Carbonate (Carbonate and Bicarbonate by Calculation from Alkalinity: Titration Method)	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water)	APHA 2540 G	Total, Fixed Solids in Solid and semi solid samples	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 2540- G	Total Volatile Solids in Solid and semi solid samples	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 9213-E	Pseudomonas Aeruginosa (Recreational Waters: Membrane Filter Technique for Pseudomonas aeruginosa)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 9240 D	Sulphate Reducing Bacteria (SRB) (SRB BART- Sulfur Bacteria)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA/AWWA 4500-Cl G	Total Chlorine (DPD Colorimetric method)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA/AWWA 4500-S2 E or F	Sulphide (Iodometric Method)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA/AWWA 4500-SiIO2-C	Total Silicates (Molybdosilicate Method)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 3120-B	Metals by Plasma Emission Spectroscopy. ICP Method. (Hg, Ca, Fe, K, Mg, Na, Si, B, P, Ag, Al, As, Ba , Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V Zn, Th and U)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 3500-Cr B	Chromium. Colorimetric method	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 4500 NH_3 F	Nitrogen (Ammonia). Phenate Method	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 5310B	Total Organic Carbon (TOC) - High Temperature Combustion Method	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA 6440 B&C	Poly Aromatic Hydrocarbons Liquid-Liquid Extraction Chromatographic method:-16 compounds Naphthalene Acenaphthlene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene 1,2-Benzanthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno (1,2,3-c.d)pyrene Dibenzo(a,h)Anthracene Benzo(g,h,i)Perylene	Industrial Area (St. No.46) Main Lab
Chemical (Water)	ASTM D8083	Standard Test Method for Total Nitrogen, and TKN by Calculation, in Water by High Temperature Catalytic Combustion and Chemiluminiscence Detection	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water)	ISO 11731	Legionella (Detection and enumeration of Legionella as per ISO 11731)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	APHA Test 4500 Cl G	Free Chlorine (DPD Colorimetric method)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	USEPA 1664 Revision B / USEPA 9071 B	Oil and Grease Total Petroleum Hydrocarbons (>C28-C40 and above) - Heavy Fraction	Industrial Area (St. No.46) Main Lab
Chemical (Water)	USEPA 8015 D USEPA 5021 A	Nonhalogenated Organics using GC/FID Volatile Organic Compounds in Various Sample Matrices Using Equilibrium Headspace Analysis Total Petroleum Hydrocarbons (C6-C9) – Gasoline Range Organics (GRO)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	USEPA 8015 D USEPA 3510 C	Nonhalogenated Organics using GC/FID Separatory Funnel Liquid-Liquid Extraction Total Petroleum Hydrocarbons (C10-C28) – Diesel Range Organics (DRO)	Industrial Area (St. No.46) Main Lab
Chemical (Water)	USEPA 8260 B	**Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (VOCs, 64 Compounds)**:- Vinayl chloride Ethyl ether 1,1-dichloroEthene CFC-113 Carbon disulfide Acetonitrile Allyl chloride Methylene chloride MTBE trans-1,2-Dichloroethene 1,1-dichloroEthane Diisopropyl ether cis-1,2-dichloroethene Propionitrile 2,2-Dichloropropane Methyl Acrylate Methane, bromochloro- Chloroprene Tetrahydrofuran Chloroform Ethane, 1,1,1-trichloro- 1-Propene, 1,1-dichloro- Benzene 1,2-dichloroEthane Trichloroethylene 1,2-dichloroPropane Methane, dibromo- Methyl methacrylate	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water) (cont'd.)	USEPA 8260 B (cont'd.)	Methane, bromodichloro- Propane, 2-nitro- 1-Propene, Cis 1,3-dichloro- Toluene 1-Propene, trans 1,3-dichloro-, (E)- Ethyl Methacrylate 1,1,2-trichloroEthane Tetrachloroethylene 1,3-dichloroPropane dibromochloroMethane 1,2-dibromoEthane ChloroBenzene, Ethylbenzene m & p-Xylene o-Xylene Styrene Bromoform isopropylbenzene(cumene) 2-Butene, trans 1,4-dichloro, (E)- Bromobenzene 1,2,3-trichloropropane Benzene, propyl- 2-chlorotoluene Benzene, 1,3,5 -trimethyl- 4-chlorotoluene Benzene, tert-butyl- Benzene, 1,2,4-trimethyl- Sec-butylbenzene p-Cymene 1,3-dichloroBenzene 1,4-dichloroBenzene 1,2-dichloroBenzene n-butyl-Benzene Propane, 1,2-dibromo-3-chloro- Benzene, nitro- 1,2,4-trichloroBenzene, hexachloro-1,3-Butadiene, Naphthalene Benzene, 1,2,3-trichloro-	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water) (cont'd.)	USEPA 8260 B (cont'd.)		
Chemical (Water)	USEPA 8270D	**Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (SVOC):** Phenol Aniline Bis(2-chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobezene Benzyl alcohol 1,2-Dichlorobenzene 2-Methylphenol (o-cresol) 2,2'-oxybis(1-chloropropane) 3-Methylphenol (o-cresol) 4-Methylphenol (p-cresol) Hexachloroethane Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis(2-chloroethoxy)methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene Dichlorvos (DDVP) 2-Methylnaphthalene 1-Methylnaphthalene Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline 1,4-Dinitrobenzene Dimethyl phthalate 1,3-Dinitrobenzene 2,6-Dinitrotoluene 1,2-Dinitrobenzene Acenaphthylene 3-Nitroaniline Acenaphthene	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water) (cont'd.)	USEPA 8270D (cont'd.)	4-Nitrophenol 2,4-Dinitrotoluene Dibenzofuran 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol Diethylphthalate 4-Chlorophenyl phenyl ether Fluorene 4-Nitroaniline 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) Diphenylamine Azobenzene 2,4,6-Tribromophenol (SS) 4-Bromopheny phenyl ether Hexachlorobenzene Pentachlorophenol Phenanthrene Anthracene Phosphamidon Carbazole Di-n-butylphthalate Fluoranthene Pyrene Benzyl butyl phthalate Bis(2-ethylhexyl)adipate Chrysene Bis(2-ethylhexyl) phthalate Benz[a]anthracene Di-n-octyl phthalate Benzo[b]fluoranthene Benzo[k]fluoranthene Benzo[a]pyrene Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene Benzo[ghi]perylene	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA 3120-B	Arsenic (Metals by Plasma Emission Spectroscopy ICP method)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA 3120-B	Lithium (Metals by Plasma Emission Spectroscopy ICP method)	Industrial Area (St. No.46) Main Lab
Chemical (Water cont)	APHA 5210 B & 4500 O B&C 24th Edn	Biochemical Oxygen Demand (BOD)	Industrial Area (St. No.46) Main Lab
Chemical (Water cont)	APHA 6431 C - 24th Edn. / USEPA 525.5	Poly Chlorinated Biphenyls (PCB's)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA/AWWA 4500F-D	Fluoride (Spands method)	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Chemical (Water/Soil)	APHA/AWWA 4500 N	Total Kjeldahl Nitrogen (semi micro-Kjelhahl method)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA/AWWA 4500 N	Total Organic Nitrogen (semi micro-Kjelhahl method)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA/AWWA Test- 4500 NH_3 B&C	Ammonia Nitrogen (preliminary distillation step) (Titrimetric method)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA/AWWA Test- 4500- NO_2B	Nitrite Nitrogen (Colorimetric method)	Industrial Area (St. No.46) Main Lab
Chemical (Water/Soil)	APHA/AWWA 5520 B	Oil & grease (liquid-liquid, partition-gravimetric method)	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C78	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third- Point Loading)	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C138	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C143	Standard Test Method for Slump of Hydraulic- Cement Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C232	Standard Test Methods for Bleeding of Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C403	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	ASTM C642	Standard Test Method for Density, Absorption, and Voids in Hardened Concrete	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C900	Standard Test Method for Pullout Strength of Hardened Concrete	Field Test
Concrete	ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Concrete	ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	Industrial Area (St. No.46) Main Lab
Concrete	ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete	Industrial Area (St. No.46) Main Lab
Concrete	ASTM D6432	Standard Guide for Using the Surface Ground Penetrating Radar Method for Subsurface Investigation	Industrial Area (St. No.46) Main Lab
Concrete	BS 1881-122	Determination of water Absorption in Hardened concrete	Industrial Area (St. No.46) Main Lab
Concrete	BS 1881-124	Testing concrete. Methods for analysis of hardened concrete: Clause 12.1 Determination Of Chloride Content	Industrial Area (St. No.46) Main Lab
Concrete	BS 1881-124	Testing concrete. Methods for analysis of hardened concrete: Clause 12.2 Determination Of Sulfate Content	Industrial Area (St. No.46) Main Lab
Concrete	BS 1881-208	Testing concrete. Recommendations for the determination of the initial surface absorption of concrete	Industrial Area (St. No.46) Main Lab
Concrete	BS 6073-2	Precast concrete masonry units. Guide for specifying precast concrete masonry units	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 445	Grout for prestressing tendons. Test methods (Bleeding)	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 445	Grout for prestressing tendons. Test methods (Fluidity Test of Grouts)	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 445	Grout for prestressing tendons. Test methods (Volume Change)	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 1338: Annex G	Measurement of abrasion resistance	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 1338 Annex I	Method for the determination of unpolished slip resistance value (USRV)	Industrial Area (St. No.46) Main Lab/ Field Test
Concrete	BS EN 1367-4	Tests for thermal and weathering properties of aggregates; Determination of drying shrinkage	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12350-1	Testing fresh concrete. Sampling and common apparatus (Testing fresh concrete. Sampling)	Field Test
Concrete	BS EN 12350-2	Testing fresh concrete. Slump-test	Field Test
Concrete	BS EN 12350-5	Testing fresh concrete. Flow table test	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12350-9	Testing fresh concrete. Self-compacting concrete (V-funnel test)	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12350-10	Testing fresh concrete. Self-compacting concrete (L-box test)	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12350-12	Testing fresh concrete. Self-compacting concrete (J-ring test)	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Concrete	BS EN 12390-1	Testing hardened concrete. Shape, dimensions and other requirements for specimens and moulds	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12390-2	Testing hardened concrete. Making and curing specimens for strength tests	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12390-3	Testing hardened concrete. Compressive strength of test specimens	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12390-7	Testing hardened concrete. Density of hardened concrete	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12390-8	Testing hardened concrete. Depth of penetration of water under pressure	Industrial Area (St. No.46) Main Lab
Concrete	BS EN 12504-1	Testing concrete in structures. Cored specimens. Taking, examining and testing in compression	Industrial Area (St. No.46) Main Lab and Field Test
Concrete	BS EN 13791	Assessment of in-situ compressive strength in structure and precast concrete	Industrial Area (St. No.46) Main Lab
Concrete	QCS 2014:Part 5 Section 6, 6.6.3a ACI 301-16 Section 08	Thermocouple; Monitoring the concrete temperature in mass concrete	Field Test
Dimension Stone	ASTM C97	Standard Test Method for Absorption and Bulk Specific Gravity of Dimension Stone	Industrial Area (St. No.46) Main Lab
Dimension Stone	ASTM C170	Standard Test Method for Compressive Strength of Dimension Stone	Industrial Area (St. No.46) Main Lab
Dimension Stone	ASTM C880	Standard Test Method for Flexural Strength of Dimension Stone	Industrial Area (St. No.46) Main Lab
Geotechnical	ASTM D4543	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	Industrial Area (St. No.43) Main Lab
Geotechnical	ASTM D5334	Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure	Industrial Area (St. No.43) Main Lab
Geotechnical	ASTM D5731	Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications	Industrial Area (St. No.43) Main Lab
Geotechnical	ASTM D6951	Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications	Industrial Area (St. No.43) Main Lab
Geotechnical	ASTM D7012	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperature	Industrial Area (St. No.43) Main Lab
Geotechnical	ASTM G57	Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Geotechnical	BS 1377-5	Methods of test for soils for civil engineering purposes. Compressibility, permeability and durability tests - Clause 5: Determination of permeability by the constant-head method	Industrial Area (St. No.43) Main Lab
Geotechnical	BS 1377-7	Methods of test for soils for civil engineering purposes. Shear strength tests (total stress) -Clause 4: Determination of shear strength by direct shear (small shear box apparatus)	Industrial Area (St. No.43) Main Lab
Geotechnical	BS 1377-9	Methods for test for soils for civil engineering purposes. In-situ tests – Clause 3.3 Standard penetration test (SPT)	Field Test
Geotechnical	BS 5930	Code of practice for ground investigations (Geotech Sampling & Description)	Field Test
Geotechnical	BS 5930	Code of practice for ground investigations (Code of Practice for Site Investigation) CL 25: Packer Test	Field Test
Geotechnical	BS 5930	Code of practice for ground investigations (Code of Practice for Site Investigation) CL 25: Permeability Test Constant Head+ Falling Head	Field Test
Geotechnical	BS 5930	Code of practice for ground investigations (Code of Practice for Site Investigation) CL 27: Pumping Test	Field Test
Geotechnical	BS 5930	Code of practice for ground investigations (Section 4 Cl 25.7: Pressuremeter Test)	Field Test
Geotechnical	BS EN ISO 22282-2 CL 7.2 & 7.3	Geotechnical investigation and testing. Geohydraulic testing - Water permeability tests in a borehole using open systems	Field Test
Geotextiles	ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D412 Clause 16	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D543	Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents	Industrial Area (St. No.46) Main Lab
Geotextiles	ASTM D570	Standard Test Method for Water Absorption of Plastics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D624 Type B Type C	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers Type B Tear Strength Type C Tear Strength	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D638	Standard Test Method for Tensile Properties of Plastics	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Geotextiles	ASTM D695	Standard Test Method for Compressive Properties of Rigid Plastics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D751 Clause 18-22	Standard Test Methods for Coated Fabrics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D792	Standard Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting1	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1000	Standard Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications (Addition-Pressure -Sensitive Adhesion to Primed Concrete)	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1004	Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1204	Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1622	Standard Test Method for Apparent Density of Rigid Cellular Plastics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D1751 Sections 5.2-5.4	Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D2240 Shore D	Standard Test Method for Rubber Property-Durometer Hardness—Durometer Hardness	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D3767	Standard Practice for Rubber—Measurement of Dimensions	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D3787	Standard Test Method for Bursting Strength of Textiles-Constant-Rate-of-Traverse (CRT) Ball Burst Test	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4073	Standard Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4280 CL 9.2.2	Compressive Strength-Raised Retroreflective Pavement Markers	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Geotextiles	ASTM D4354	Standard Practice for Sampling of Geosynthetics and Rolled Erosion Control Products (RECPs) for Testing	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4595	Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4632	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D4751 Method A	Standard Test Methods for Determining Apparent Opening Size of a Geotextile, Method A - Glass Bead Dry Sieving	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D5034	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D5035	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D5147 Cl 6, 7, 8, 10, 11	Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material CL6 Thickness Cl 7 Load Strain Properties Cl 8 Tear Strength Cl 10 Water Absorption Cl 11 Dimensional Stability	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D5199	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D5261	Standard Test Method for Measuring Mass per Unit Area of Geotextiles	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D6241	Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM D6637 Method A	Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method, Method A	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM E96	Water Vapor Transmission	Industrial Area (St. No.43) Main Lab
Geotextiles	ASTM E154 Cl 10	Standard Test Method for Resistance to Puncture	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN 1849-1	Flexible sheets for waterproofing. Determination of thickness and mass per unit area. Bitumen sheets for roof waterproofing	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Geotextiles	BS EN 1849-2	Flexible sheets for waterproofing. Determination of thickness and mass per unit area. Plastics and rubber sheets for roof waterproofing	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN 12127	Textiles. Fabrics. Determination of mass per unit area using small samples	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN 61537 Cl 10.2 and Annexes D & E	Cable management. Cable tray systems and cable ladder systems	Industrial Area (St. No.46) Main Lab
Geotextiles	BS EN ISO 527	Plastics. Determination of tensile properties. General principles	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 5084	Textiles -- Determination of thickness of textiles and textile products	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 9863 Part 1 Cl 7.2.1 Procedure C Procedure D	Geosynthetics- Determination of thickness at specified pressures - single layers, Cl 7.2.1 – Partial Procedure A Procedure C Procedure D	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 9864	Test method for the determination of mass per unit area of geotextiles and geotextile-related products	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 10319	Geosynthetics. Wide-width tensile test	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 11058	Geotextiles and geotextile-related products —Determination of water permeability characteristics normal to the plane, without load	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 12236	Geotextiles and geotextile related products static puncture test (CBR test)	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 12956	Geotextiles and geotextile-related products. Determination of the characteristic opening size	Industrial Area (St. No.43) Main Lab
Geotextiles	BS EN ISO 13433	Geosynthetics - Dynamic perforation test (cone drop test)	Industrial Area (St. No.43) Main Lab
Geotextiles	Ref. QCS 2014 Section 08, Part 06, Cl 6.4.6/6.4.7 Internal Method Statement	Aluminum Grating Load Test	Industrial Area (St. No.46) Main Lab
Grout	BS EN 445 Cl 4.7	Grout for prestressing tendons — Test methods Cl 4.7 Fresh density	Industrial Area (St. No.46) Main Lab/ Field Test
Grout	BS EN 445 Cl 4.6	Grout for prestressing tendons — Test methods Cl 4.6 Compressive strength	Industrial Area (St. No.46) Main Lab/ Field Test
HDPE	ISO 13953	Tensile Testing	Industrial Area (St. No.43) Main Lab
Masonry	ASTM C140	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Masonry	BS 6073-1	Precast concrete masonry units. Specification for precast concrete masonry units	Industrial Area (St. No.46) Main Lab
Masonry	BS 6717	Precast, unreinforced concrete paving blocks. Requirements and test methods	Industrial Area (St. No.46) Main Lab
Masonry	BS 6717-1	Precast concrete paving blocks. Specification for paving blocks (Compressive Strength of paving blocks)	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 771-1	Specification for masonry units. Clay masonry units (Compressive strength and water absorption)	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 771-3	Specification for masonry units. Aggregate concrete masonry units (dense and lightweight aggregates)	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 772-1	Methods of test for masonry units. Determination of compressive strength	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 772-16	Methods of test for masonry units - Determination of dimensions	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 1338	Concrete paving blocks. Requirements and test methods	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 1339 Annex E-F	Concrete paving flags. Requirements and test methods - Appendix E: Determination of total water absorption F: Measurement of bending strength and breaking load	Industrial Area (St. No.46) Main Lab
Masonry	BS EN 1340	Concrete kerb units. Requirements and test methods: Appendix C Dimension: Appendix E Water absorption and Appendix F Measurement of bending strength	Industrial Area (St. No.46) Main Lab
Masonry	CML 09-1997	Standard Test Method for determination of Water Absorption of precast concrete paving blocks/ Masonry Units	Industrial Area (St. No.46) Main Lab
Metallurgy	ASTM E10	Standard Test Method for Brinell Hardness of Metallic Materials	Industrial Area (St. No.46) Main Lab
Metallurgy	ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials	Industrial Area (St. No.46) Main Lab
Metallurgy	ASTM E384	Test Method for Microindentation Hardness of Materials	Industrial Area (St. No.46) Main Lab
Metallurgy	BS EN ISO 6506-1	Metallic materials — Brinell hardness test — Part 1: Test method	Industrial Area (St. No.46) Main Lab
Metallurgy	BS EN ISO 6507-1	Metallic materials — Vickers hardness test — Part 1: Test method	Industrial Area (St. No.46) Main Lab
Metallurgy	BS EN ISO 6508-1	Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C)	Industrial Area (St. No.46) Main Lab
Metallurgy	BS EN ISO 9015-1	Destructive tests on welds in metallic materials — Hardness testing — Part 1: Hardness test on arc welded joints	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Metallurgy	BS EN 17639	Destructive tests on welds in metallic materials. Macroscopic and microscopic examination of welds	Industrial Area (St. No.46) Main Lab / Field Test
Metallurgy	ISO 945-1	Microstructure of cast irons — Part 1: Graphite classification by visual analysis	Industrial Area (St. No.46) Main Lab / Field Test
NDT	ASME Section V	Dye penetration test	Industrial Area (St. No.43) Main Lab/ Field Test
NDT	ASME Section V	Magnetic particle inspection	Industrial Area (St. No.43) Main Lab/ Field Test
NDT	ASME Section V	Ultrasonic test -Welding	Industrial Area (St. No.43) Main Lab/ Field Test
NDT	ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete	Industrial Area (St. No.46) Main Lab/ Field Test
NDT	ASTM C876	Standard Test Method for Half-Cell Potentials of Uncoated Reinforcing Steel in Concrete	Field Test
NDT	ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	Field Test
NDT	ASTM D4694-25	Standard Test Method for Deflections with a Falling-Weight-Type Impulse Load Device	Field Test
NDT	ASTM D4945	Standard Test Method for High-Strain Dynamic Testing of Deep Foundations	Field Test
NDT	ASTM D5882	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations	Field Test
NDT	ASTM D6132	Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage	Field Test
NDT	ASTM D6167	Standard Guide for Conducting Borehole Geophysical Logging: Mechanical Caliper	Field Test
NDT	ASTM D6760	Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Cross hole Testing	Field Test
NDT	ASTM E10	Standard Test Method for Brinell Hardness of Metallic Materials	Industrial Area (St. No.43) Main Lab
NDT	ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials	Industrial Area (St. No.43) Main Lab
NDT	ASTM G62	Standard Test Methods for Holiday Detection in Pipeline Coatings	Industrial Area (St. No.43) Main Lab/ Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
NDT	BS 1881-204	Testing concrete. Recommendations on the use of electromagnetic covermeters	Industrial Area (St. No.46) Main Lab
NDT	BS EN 124	Gully tops and manhole tops for vehicular and pedestrian areas 0 Design requirements, type testing, marking, quality control	Industrial Area (St. No.43) Main Lab
NDT	BS EN 12504-2	Testing concrete in structures. Non-destructive testing. Determination of rebound number	Industrial Area (St. No.46) Main Lab/ Field Test
NDT	BS EN 12504-4	Testing concrete. (Determination of ultrasonic pulse velocity)	Field Test
NDT	Internal Procedure	GRP Pipe Deflection test (Mandrel method)	Field Test
NDT	Microscope manual	Crack width measurement using microscope	Field Test
NDT	NT BUILD 492	Chloride migration test	Industrial Area (St. No.46) Main Lab
NDT-metals	ASTM D4787	Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates	Field Test
NDT-metals	ASTM D5162	Standard Practice for Discontinuity (Holiday) Testing of Nonconductive Protective Coating on Metallic Substrates	Field Test
Noise Monitoring	ASTM E1503 / ASTM E1014	Standard Test Method for Conducting Outdoor Sound Measurements Using a Statistical Sound Analysis System	Field Test
Paint	ASTM C1353	Standard Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform Abraser	Industrial Area (St. No.46) Main Lab
Paint	ASTM D4060	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser	Industrial Area (St. No.46) Main Lab
Soil	ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size	Industrial Area (St. No.43) Main Lab
Soil	ASTM D1140	Standard Test Methods for Determining the Amount of Material Finer than 75-& mu;m (No. 200) Sieve in Soils by Washing	Industrial Area (St. No.43) Main Lab
Soil	ASTM D1196	Standard Test Method for Non-repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements	Field Test
Soil	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	Field Test

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Soil	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))	Industrial Area (St. No.43) Main Lab
Soil	ASTM D1883	Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils	Industrial Area (St. No.43) Main Lab
Soil	ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	Industrial Area (St. No.43) Main Lab
Soil	ASTM D2419	Standard Test Method for Sand Equivalent, Value of Soils and Fine Aggregate	Industrial Area (St. No.43) Main Lab
Soil	ASTM D2487	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)	Industrial Area (St. No.43) Main Lab
Soil	ASTM D2488	Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)	Industrial Area (St. No.43) Main Lab
Soil	ASTM D3282	Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4253	Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4254	Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4429	Standard Test Method for CBR (California Bearing Ratio) of Soils in Place	Field Test
Soil	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4914	Standard Test Methods for Density of Soil and Rock in Place by the Sand Replacement Method in a Test Pit	Industrial Area (St. No.43) Main Lab
Soil	ASTM D4944	Standard Test Method for Field Determination of Water (Moisture) Content of Soil by the Calcium Carbide Gas Pressure Tester	Field Test
Soil	ASTM D6913	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	Industrial Area (St. No.43) Main Lab
Soil	ASTM D6928-17 (Withdrawn 2026)	Standard Test Method for Resistance of Coarse Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus (Withdrawn 2026)	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Soil	ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	Field Test
Soil	ASTM D7428	Standard Test Method for Resistance of Fine Aggregate to Degradation by Abrasion in the Micro-Deval Apparatus	Industrial Area (St. No.43) Main Lab
Soil	ASTM D7830	Soil- Non nuclear Density Gauge	Field test
Soil	BS 1377-1	Methods of test for soils for civil engineering purposes. General requirements and sample preparation	Industrial Area (St. No.43) Main Lab/ Field Test
Soil	BS 1377-2	Methods for test for soils for civil engineering purposes. In-situ tests – Clause 3 Moisture Content	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-2	Methods of test for soils for civil engineering purposes. Classification tests Clause 5: plasticity index CL 4 Liquid Limit	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-2 Section 8	Methods of test for soils for civil engineering purposes. Classification tests-(Section 8 Particle density Test)	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-2 Section 9	Soil Sieve Analysis/Mat finer than 63 microns	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-3 Section 4	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests - Determination of Organic Matter Content	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-3 Section 7.3	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests – Determination of Water-Soluble Sulfate in Soil (WS)	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-3 Section 7.9	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests – Determination of Acid-Soluble Sulfate (AS)	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-3 Section 9.2	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests – Determination of Water-Soluble Chloride Content	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-3 Section 9.3	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests - Determination of Acid-Soluble Chloride Content	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-3 Section 11	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests – Determination of Total Dissolved Solids	Industrial Area (St. No.46) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Soil	BS 1377-3 Section 12	Methods of Test for Soils for Civil Engineering Purposes: Chemical and Electrochemical Tests – Determination of pH Value (Soil and Groundwater)	Industrial Area (St. No.46) Main Lab
Soil	BS 1377-4	Methods of tests for soils for civil engineering purposes: Compaction related tests- Section 3 Determination of Dry Density/Moisture Content/Correction of unit weight	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-4	Methods of test for soils for civil engineering purposes. Compaction-related tests Section 7: California Bearing Ratio test	Industrial Area (St. No.43) Main Lab
Soil	BS 1377-9	Methods for test for soils for civil engineering purposes. In-situ tests (Non Repetitive Plate load test)	Field Test
Soil	BS 1377-9	Methods for test for soils for civil engineering purposes. Clauses 2.1 & 2.2 - In-situ tests Field Density (Sand Replacement)	Field Test
Soil	BS 1377-9	Methods for test for soils for civil engineering purposes. In-situ tests – Clause 2.5 In-situ Density Test (Nuclear Method)	Field Test
Soil	BS 1377-9	Methods for test for soils for civil engineering purposes. In-situ tests: (Clause 4.1 Plate load test)	Field Test
Soil	BS 1377-9	Methods for test for soils for civil engineering purposes. In-situ tests – Clause 4.3 Field CBR	Field Test
Soil	BS 1924-2	Hydraulically bound and stabilized materials for civil engineering purposes. Sample preparation and testing of materials during and after treatment (Method of Test for Cement Stabilized Materials CL 1.3.3, 1.3.7, 1.4.4, 1.4.5, 1.4.6, 2.1.4, 3.1 & 4.2)	Industrial Area (St. No.46) Main Lab/ Field Test
Soil	BS EN 933-8	Tests for geometrical properties of aggregates. Assessment of fines. Sand equivalent test	Industrial Area (St. No.43) Main Lab
Soil	BS EN 1377: 2018 Part 3, Clause 6	Loss of Ignition	Industrial Area (St. No.46) Main Lab
Steel	ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	Industrial Area (St. No.43) Main Lab
Steel	ASTM A615	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification	Industrial Area (St. No.43) Main Lab

Category	Standard/ Method No. /Date	Standard/ Method Title & Section	Location / Facility
Steel	ASTM A706	Standard Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement	Industrial Area (St. No.43) Main Lab
Steel	ASTM A1038	Standard Test Method for Portable Hardness Testing by the Ultrasonic Contact Impedance Method	Industrial Area (St. No.43) Main Lab
Steel	ASTM E110	Standard Test Method for Rockwell and Brinell Hardness of Metallic Materials by Portable Hardness Testers	Industrial Area (St. No.43) Main Lab
Steel	BS 4449	Testing of Carbon steel bars for tensile and Rebend test	Industrial Area (St. No.43) Main Lab
Steel	BS EN 10025-2 Clause 10.2.1	Tensile Testing	Industrial Area (St. No.43) Main Lab
Steel	BS EN ISO 898-1 Clause 9.2, Clause 9.3	Mechanical properties of fasteners made of carbon steel and alloy steel Part 01	Industrial Area (St. No.43) Main Lab
Steel	BS EN ISO 15630-1	Testing of Carbon steel bars for tensile and Rebend test	Industrial Area (St. No.43) Main Lab
Steel	ISO 1083 Clause 9.1	Tensile Testing	Industrial Area (St. No.43) Main Lab
Steel	ISO 6892-1	Testing of Carbon steel bars for tensile and Rebend test	Industrial Area (St. No.43) Main Lab
Terrazzo Tile	BS EN 13748-1 Cl 4.2.1, 4.2.2, 4.2.6, 5.1, 5.2, 5.5, 5.8	Terrazzo Tiles For Internal Use- Dimensions, breaking strength, breaking load, Flexural strength, water absorption Cl 4.2.1, 4.2.2, 4.2.6, 5.1, 5.2, 5.5, 5.8	Industrial Area (St. No.46) Main Lab
Terrazzo Tile	BS EN 13478-2 Cl 4.2.1, 4.2.2, 4.2.6, 5.1, 5.2, 5.5, 5.8	Terrazzo Tiles For external use- Dimensions, breaking strength, breaking load, Flexural strength, water absorption Cl 4.2.1, 4.2.2, 4.2.6, 5.1, 5.2, 5.5, 5.8	Industrial Area (St. No.46) Main Lab