



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

CONSTRUCTION TECHNOLOGY LABORATORIES GROUP WLL

BUILDING 263, STREET 125 AT KASSARAT ST. INDUSTRIAL AREA
DOHA, QATAR

Testing Laboratory TL-651

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.

Expiry Date May 1, 2026
Effective Date June 26, 2024



A handwritten signature in black ink, reading "Raj Nathan".

President

Visit www.iasonline.org for current accreditation information.

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CONSTRUCTION TECHNOLOGY LABORATORIES GROUP WLL

www.ctlgrouppqatar.com

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Accredited to ISO/IEC 17025:2017

Effective Date June 26, 2024

Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	AASHTO T304	Standard Method of Test for Uncompacted Void Content of Fine Aggregate	CTL Lab
Aggregates	ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	CTL Lab
Aggregates	ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	CTL Lab
Aggregates	ASTM C117	Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	CTL Lab
Aggregates	ASTM C123	Standard Test Method for Lightweight Particles in Aggregate	CTL Lab
Aggregates	ASTM C127	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	CTL Lab
Aggregates	ASTM C128	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	CTL Lab
Aggregates	ASTM C 131	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	CTL Lab
Aggregates	ASTM C136	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	CTL Lab
Aggregates	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	CTL Lab
Aggregates	ASTM C535	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	CTL Lab
Aggregates	ASTM C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying	CTL Lab
Aggregates	ASTM C702	Standard Practice for Reducing Samples of Aggregate to Testing Size	CTL Lab
Aggregates	ASTM C1252	Uncompacted Void Content of Fine Aggregate	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	ASTM D546	Standard Test Method for Sieve Analysis of Mineral Filler for Asphalt Paving Mixtures	CTL Lab
Aggregates	ASTM D4791	Flat and Elongated Particles	CTL Lab
Aggregates	ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	CTL Lab
Aggregates	BS 812-2, 5.3	Testing aggregates. Methods for determination of density and Water Absorption (All larger than 10mm aggregate)	CTL Lab
Aggregates	BS 812-2, 5.4	Testing aggregates. Methods for determination of density and Water Absorption (Method for aggregates between 40 mm and 5 mm)	CTL Lab
Aggregates	BS 812-2, 5.5	Testing aggregates. Methods for determination of density and Water Absorption (Method for aggregates 10 mm nominal size and smaller)	CTL Lab
Aggregates	BS 812-102:1989	Sampling of Aggregates (From Heaps)	CTL Lab
Aggregates	BS 812-103.1:1985, 7.2	Methods for determination of particle size distribution — Section 103.1 Sieve tests - Washing and sieving method	CTL Lab
Aggregates	BS 812-103.1:1985, 7.3	Methods for determination of particle size distribution — Section 103.1 Sieve tests - Dry sieving method	CTL Lab
Aggregates	BS 812-105.1:1989	Testing aggregates. Methods for determination of particle shape. Flakiness index	CTL Lab
Aggregates	BS 812-105.2:1990	Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate	CTL Lab
Aggregates	BS 812-109, Section 6	Methods for determination of moisture content Definitive, oven-drying method	CTL Lab
Aggregates	BS 812-110	Methods for determination of aggregate crushing value (ACV)	CTL Lab
Aggregates	BS 812-111	Methods for determination of ten per cent fines value (TFV)	CTL Lab
Aggregates	BS 812-112	Methods for determination of aggregate impact value (AIV)	CTL Lab
Aggregates	BS 812-117	Testing aggregates. Method for determination of water-soluble chloride salts	CTL Lab
Aggregates	BS 812-117, App. C	Testing aggregates. Method for determination of Acid-soluble chloride salts	CTL Lab
Aggregates	BS 812-118	Testing aggregates. Methods for determination of sulphate content	CTL Lab
Aggregates	BS EN 932-1	Tests for general properties of aggregates. Methods for sampling	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Aggregates	BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method	CTL Lab
Aggregates	BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method Material finer than 0.063mm	CTL Lab
Aggregates	BS EN 933-3	Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index	CTL Lab
Aggregates	BS EN 933-4	Tests for geometrical properties of aggregates. Determination of particle shape. Shape index	CTL Lab
Aggregates	BS EN 933-7	Tests for geometrical properties of aggregates. Determination of shell content. Percentage of shells in coarse aggregates	CTL Lab
Aggregates	BS EN 933-9:2009 +A1:2013	Tests for Geometrical Properties of Aggregates Part 9: Assessment of fines - Methylene Blue Test	CTL Lab
Aggregates	BS EN 1097-2 Cl.5	Determination of Los Angeles Abrasion	CTL Lab
Aggregates	BS EN 1097-6	Tests for mechanical and physical properties of aggregates. Determination of particle density and water absorption	CTL Lab
Aggregates	BS EN 1367-2	Determination of Magnesium Sulphate Soundness	CTL Lab
Aggregates	BS EN 1367-4	Determination of Drying Shrinkage	CTL Lab
Aggregates	BS EN 1744-1 2009, Section 12	Tests for chemical properties of aggregates. Chemical analysis- Determination of acid soluble sulfate in aggregate	CTL Lab
Aggregates	BS EN 1744-5	Tests for chemical properties of aggregates -Part 5: Determination of acid soluble chloride salts	CTL Lab
Cementitious Materials	ASTM C109	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)	CTL Lab
Cementitious Materials	ASTM C183	Standard Practice for Sampling and the Amount of Testing of Hydraulic Cement	CTL Lab
Cementitious Materials	ASTM C187	Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste	CTL Lab
Cementitious Materials	ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle	CTL Lab
Cementitious Materials	ASTM C311, Parts 10, 11, 12, 13, 14	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete. Part 10 – Sulfate by C114 Part 17.1.2, Parts 11 & 12 – Moisture Content, Parts 13 & 14 – Loss on Ignition	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Cementitious Materials	ASTM C349	Compressive Strength of Cement Mortars	CTL Lab
Cementitious Materials	ASTM C989	Standard Specification for Slag Cement for Use in Concrete and Mortars	CTL Lab
Cementitious Materials	ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures-Pozzolanic Activity Test	CTL Lab
Cementitious Materials	BS EN 196-1	Methods of testing cement. Determination of strength	CTL Lab
Cementitious Materials	BS EN 196-2, Cl 4.4.1	Method of testing cement Part 2: Chemical analysis of cement-Determination of loss on ignition	CTL Lab
Cementitious Materials	BS EN 196-2 Cl 4.4.2	Method of testing cement Part 2: Chemical analysis of cement- Determination of Sulfate	CTL Lab
Cementitious Materials	BS EN 196-2, Cl 4.4.3	Method of testing cement Part 2: Determination of Residue Insoluble in Hydrochloric Acid and Sodium Carbonate	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.2	Method of testing cement. Chemical analysis of cement. Impure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.6	Method of testing cement. Chemical analysis of cement. Pure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.10	Method of testing cement. Chemical analysis of cement. Ferric Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.11	Method of testing cement. Chemical analysis of cement. Aluminum Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.12	Method of testing cement. Chemical analysis of cement. Calcium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 4.5.13	Method of testing cement. Chemical analysis of cement. Magnesium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2 Cl. 4.5.19	Method of testing cement. Chemical analysis of cement. Determination of Alkaly	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.2&3	Method of testing cement. Chemical analysis of cement. Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.6	Method of testing cement. Chemical analysis of cement. Pure Silica Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.10	Method of testing cement. Chemical analysis of cement. Ferric Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.11	Method of testing cement. Chemical analysis of cement. Aluminum Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-25, Cl. 13.14	Method of testing cement. Chemical analysis of cement. Calcium Oxide Content	CTL Lab
Cementitious Materials	BS EN 196-2, Cl. 13.15	Method of testing cement. Chemical analysis of cement. Magnesium Oxide Content.	CTL Lab

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Cementitious Materials	BS EN 196-2, Cl. 13.9	Method of testing cement. Chemical analysis of cement. Total Silica Content	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 5	Methods of testing cement. Determination of setting times and soundness. Cement Standard Consistency	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 6	Methods of testing cement. Determination of setting times and soundness. Determination of Cement Setting Time	CTL Lab
Cementitious Materials	BS EN 196-3, Cl 7.0	Methods of testing cement. Determination of setting times and soundness. Determination of Soundness of Cement	CTL Lab
Cementitious Materials	BS EN 196-5	Methods of testing cement. Pozzolanicity test for pozzolanic cement	CTL Lab
Cementitious Materials	BS EN 196-6	Fineness Test of Cement	CTL Lab
Cementitious Materials	BS EN 196-7	Methods of testing cement. Methods of taking and preparing samples of cement.	CTL Lab
Cementitious Materials	BS EN 196-21:1992, Cl 4	Methods of testing cement. Determination of the chloride, carbon dioxide and alkali content of cement Determination of Chloride Content in cement	CTL Lab
Concrete	ASTM C31	Standard Practice for Making and Curing Concrete Test Specimens in the Field	CTL Lab
Concrete	ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	CTL Lab
Concrete	ASTM C42	Obtaining and Testing of Drilled Cores	CTL Lab
Concrete	ASTM C109	Compressive Strength of Hydraulic Cement Mortars	CTL Lab
Concrete	ASTM C138	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	CTL Lab
Concrete	ASTM C143	Standard Test Method for Slump of Hydraulic cement Concrete	CTL Lab
Concrete	ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete	CTL Lab
Concrete	ASTM C173	Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method	CTL Lab
Concrete	ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	CTL Lab
Concrete	ASTM C232	Bleeding of Concrete	CTL Lab
Concrete	ASTM C305	Standard Practice for Mechanical Mixing of Hydraulic Cement Pastes and Mortars of Plastic Consistency	CTL Lab
Concrete	ASTM C403	Time of Setting of Concrete Mixtures by Penetration Resistance	CTL Lab

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Concrete	ASTM C494	Chemical Admixtures for concrete	CTL Lab
Concrete	ASTM C617	Standard Practice for Capping Cylindrical Concrete Specimens	CTL Lab
Concrete	ASTM C900	Pullout Strength of Hardened Concrete	CTL Lab
Concrete	ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	CTL Lab
Concrete	ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for use in Construction and Criteria for testing agency evaluation	CTL Lab
Concrete	ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	CTL Lab
Concrete	ASTM C1231	Standard Practice for use of unbonded caps in determination of compressive strength of hardened concrete cylinders	CTL Lab
Concrete	ASTM C1385	Sampling of Shotcrete	CTL Lab
Concrete	ASTM C1611	Standard Test Method for Slump Flow of Self-Consolidating Concrete	CTL Lab
Concrete	ASTM C1621	Passing Ability for self-Consolidating Concrete by J-Ring	CTL Lab
Concrete	ASTM C1688	Density Determination of Pervious Concrete	CTL Lab
Concrete	BS 1881-122	Water Absorption Test	CTL Lab
Concrete	BS 1881-124, sec 12.1	Acid soluble chloride in concrete	CTL Lab
Concrete	BS 1881-124, sec 12.2	Acid soluble sulfate in concrete	CTL Lab
Concrete	BS 1881 Part 208	Initial Surface Absorption of conditioned (oven dry, non oven dry & site) concrete sample (ISAT)	CTL Lab
Concrete	BS EN 445	Bleeding Test Of grout	CTL Lab
Concrete	BS EN 445	Compressive Strength of grout	CTL Lab
Concrete	BS EN 445	Fluid Density Of grout (Cone Method)	CTL Lab
Concrete	BS EN 445	Fresh Density Of grout	CTL Lab
Concrete	BS EN 445	Volume Change, Vertical Shrinkage of grout	CTL Lab
Concrete	BS EN 12350-1	Testing fresh concrete - Part 1: Sampling	CTL Lab
Concrete	BS EN 12350-2	Testing fresh concrete - Part 2: Slump-test	CTL Lab
Concrete	BS EN 12350-5	Testing fresh concrete - Part 5: Flow table test	CTL Lab
Concrete	BS EN 12350-6	Testing Fresh Concrete: Density	CTL Lab
Concrete	BS EN 12350-7	Testing Fresh Concrete: Air Content by Pressure Methods	CTL Lab
Concrete	BS EN 12350-9	V-Funnel test for Self-Compacting Concrete	CTL Lab
Concrete	BS EN 12350-10	L-Box test for Self-Compacting Concrete	CTL Lab
Concrete	BS EN 12390-1	Shape and Dimensions of Specimen	CTL Lab
Concrete	BS EN 12390-2	Testing hardened concrete - Part 2: Making and curing specimens for strength tests	CTL Lab
Concrete	BS EN 12390-3	Testing hardened concrete - Part 3: Compressive strength of test specimens	CTL Lab
Concrete	BS EN 12390-7	Density of Hardened Concrete	CTL Lab

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Category	Standard/ Method No. / Date	Standard/ Method Title & Section	Location / Facility
Concrete	BS EN 12390-8	Water Penetration Test	CTL Lab
Concrete	BS EN 12504-1	Obtaining and Testing of Drilled Cores	CTL Lab
Concrete	NT Build 492	Chloride Penetration Test	CTL Lab
Environmental	APHA/AWWA 2130 B, 22nd Edition 2012, 23rd Edition 2017	Turbidity	CTL Lab
Environmental	APHA/AWWA 2320-B	Total Alkalinity	CTL Lab
Environmental	APHA/AWWA 2320-B	Phenolphthalein Alkalinity	CTL Lab
Environmental	APHA/AWWA 2320-B	Bicarbonate	CTL Lab
Environmental	APHA/AWWA 2320-B	Carbonate	CTL Lab
Environmental	APHA/AWWA 2340-C, 22nd Edition 2012, 23rd Edition 2017	Total Hardness	CTL Lab
Environmental	APHA/AWWA 2510-B	Electrical Conductivity	CTL Lab
Environmental	APHA/AWWA- 2540 B, 22nd Edition 2012, 23rd Edition 2017	Total solids	CTL Lab
Environmental	APHA/AWWA 2540-C, 22nd Edition 2012, 23rd Edition 2017	Total Dissolved Solids (TDS)	CTL Lab
Environmental	APHA/AWWA 2540-C, 22nd Edition 2012, 23rd Edition 2017	Total Volatile Dissolved Solids (TVDS)	CTL Lab
Environmental	APHA/AWWA 2540-D, 22nd Edition 2012, 23rd Edition 2017	Total Suspended solids	CTL Lab
Environmental	APHA/AWWA 2540-D, 22nd Edition 2012, 23rd Edition 2017	Total Volatile Suspended solids	CTL Lab
Environmental	APHA/AWWA 2540-F	Settleable Solids	CTL Lab
Environmental	APHA/AWWA 2540 G	Total, Fixed Solids in Solids and Semisolids samples	CTL Lab
Environmental	APHA/AWWA 2540 G	Volatile Solids in Solids and Semisolids samples	CTL Lab
Environmental	APHA/AWWA 3500-Ca B, 22nd Edition 2012, 23rd Edition 2017	Calcium	CTL Lab
Environmental	APHA 3500-CrB, 22nd Edition 2012, 23rd Edition 2017	Chromium (vi)	CTL Lab
Environmental	APHA/AWWA 3500 Mg, 22nd Edition 2012, 23rd Edition 2017	Magnesium Concentration by Calculation	CTL Lab
Environmental	APHA/AWWA 4500-Cl, 22nd Edition 2012, 23rd Edition 2017	Free Chlorine	CTL Lab

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Environmental	APHA/AWWA 4500-Cl, 22nd Edition 2012, 23rd Edition 2017	Total Chlorine	CTL Lab
Environmental	APHA/AWWA 4500-Cl B, 22nd Edition 2012, 23rd Edition 2017	Chloride	CTL Lab
Environmental	APHA/AWWA 4500 F, 22nd Edition 2012, 23rd Edition 2017	Fluoride	CTL Lab
Environmental	APHA/AWWA 4500 H+ B	pH	CTL Lab
Environmental	APHA/AWWA 4500 NO ₂ B, 22nd Edition 2012, 23rd Edition 2017	Nitrite Nitrogen	CTL Lab
Environmental	APHA/AWWA 4500- NO ₃ D, 22nd Edition 2012, 23rd Edition 2017	Nitrate Nitrogen	CTL Lab
Environmental	APHA/AWWA 4500-O G, 22nd Edition 2012, 23rd Edition 2017	Dissolved Oxygen	CTL Lab
Environmental	APHA/AWWA 4500-P, 22nd Edition 2012, 23rd Edition 2017	Phosphorous (total)	CTL Lab
Environmental	APHA/AWWA 4500- SO ₄ , 22nd Edition 2012, 23rd Edition 2017	Sulphate	CTL Lab
Environmental	APHA/AWWA 4500--S2 E or F	Sulphide	CTL Lab
Environmental	APHA/AWWA 5210B, 22nd Edition 2012. Test- APHA/AWWA 4500- OC, 23rd Edition 2017	Biochemical Oxygen Demand (BOD)	CTL Lab
Environmental	APHA/AWWA 5520 B	Oil & grease	CTL Lab
Environmental	APHA/AWWA 5220 D, 22nd Edition 2012, 23rd Edition 2017	Chemical oxygen Demand	CTL Lab
Environmental	APHA/AWWA 5520 D, 22nd Edition 2012, 23rd Edition 2017	Oil & grease	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd Edition 2017, IDEXX method	E-Coli	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd Edition 2017, IDEXX method	Fecal Coliform	CTL Lab
Environmental	APHA/AWWA- 9223B, 22nd Edition 2012, 23rd	Total Coliforms	CTL Lab

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	Edition 2017, IDEXX method		
Drinking Water/Potable Water	APHA/AWWA 4500Cl-B SMEWW 24th Edition 2023	Chloride	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500SO42-C SMEWW 24th Edition 2023	Sulphate	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 2320 B SMEWW 24th Edition 2023	Alkalinity as CaCO ₃	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 2340 C SMEWW 24th Edition 2023	Total Hardness as CaCO ₃	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500 Cl G SMEWW 24th Edition 2023	Total Chlorine as Cl ₂	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500 Cl G SMEWW 24th Edition 2023	Free Chlorine as Cl ₂	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 2540 C SMEWW 24th Edition 2023	Total Dissolved Solids	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500H+B SMEWW 24th Edition 2023	pH	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500 F-D SMEWW 24th Edition 2023	Fluoride as F	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 4500NO ₃ -D SMEWW 24th Edition 2023	Nitrate Nitrogen (NO ₃ -N)	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 3500 Ca- B SMEWW 24th Edition 2023	Calcium	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 3500 Mg- B SMEWW 24th Edition 2023	Magnesium	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 9223B SMEWW 24th Edition 2023	Total Coliform	CTL Lab
Drinking Water/Potable Water	APHA/AWWA 9223B SMEWW 24th Edition 2023	E-Coli (MPN/100ml)	CTL Lab
Geotechnical	ASTM D1196	Plate Load Test	CTL Lab
Geotechnical	ASTM G57	Electrical Resistivity Test	Field
Geotechnical	BS 1377 Part 9-Sec. 4.1	Plate Load Test	CTL Lab
Geotechnical	BS 1377 Part 9-Sec. 4.3	California Bearing Ratio (CBR) Test	Field

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Hydrogeology	ASTM D2435	Determination of One-Dimensional Consolidation Properties of Soils	Field
Hydrogeology	ASTM D4543	Preparing Rock Core Specimens to Dimensional and Shape Tolerances	Field
Hydrogeology	ASTM D5731	Point Load Index Determination	Field
Hydrogeology	ASTM D7012 – Method C	Compressive Strength of Rock Core Specimen - Method C: Uniaxial Compressive Strength of Intact Rock Core Specimens.	Field
Hydrogeology	BS 1377 Part 5-Sec. 3	Determination of One-Dimensional Consolidation Properties of Soils	Field
Hydrogeology	BS 1377 Part 7-Sec. 4	Direct Shear on Soil (Small Box)	Field
Hydrogeology	BS 1377 Part 5-Sec. 5	Constant Head Permeability Test	Field
Hydrogeology	BS 1377 Part 9-Sec. 3.3	Standard Penetration Test (SPT)	Field
Hydrogeology	BS 5930 Section 6	Description of Soil and Rock	Field
Hydrogeology	BS 5930 Cl. 23	Ground Water Sampling	Field
Hydrogeology	BS 5930 Cl. 23, 27, 47	Ground Water Level Measurement	Field
Hydrogeology	BS 5930 Cl. 25	Falling Head Permeability Test	Field
Masonry	ASTM C140, Cl 8	Water Absorption for Interlocks	CTL Lab
Masonry	BS 6073 Part 1	Compressive Strength of Concrete Masonry Blocks	CTL Lab
Masonry	BS 6717:2001, Annex B	Measurement of Dimensions of Paving Blocks	CTL Lab
Masonry	BS 6717:2001, Annex E	Tensile splitting Strength of Paving Blocks	CTL Lab
Masonry	BS EN 771 Part 1 cl 5.2.4 & 5.3.4	Compressive Strength of Clay Masonry Blocks	CTL Lab
Masonry	EN 771-3	Water Absorption for Masonry Blocks	CTL Lab
Masonry	BS EN 772-1	Compressive Strength of Concrete Masonry Blocks	CTL Lab
Masonry	EN 772-11	Determination of water absorption of aggregate concrete	CTL Lab
Masonry	BS EN 1338 Annex E	Water Absorption of Paving Blocks	CTL Lab
Masonry	BS EN 1338 Annex F	Tensile Strength of Paving Blocks	CTL Lab
Masonry	BS EN 1339 Appendix E	Water Absorption for Concrete Paving Flags/Slabs	CTL Lab
Masonry	BS EN 1339 Appendix F	Transverse Strength of Concrete Paving Flags/Slabs	CTL Lab
Masonry	BS EN 1340 Annex C	Measurement of Dimensions of Kerbs	CTL Lab
Masonry	BS EN 1340 Annex E	Water Absorption for Kerbs	CTL Lab
Masonry	BS EN 1340 Annex F	Transverse Strength of Kerbs	CTL Lab
NDT	ASTM C805	Rebound Hammer Test for Concrete	CTL Lab
NDT	ASTM D4541	Coating Pull off test	CTL Lab
NDT	BS 1881-204	Concrete Cover Determination	CTL Lab
NDT	BS EN 12504-4	Ultrasonic Pulse Velocity	CTL Lab
NDT	Gauge manual	Crack width gauge	CTL Lab

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Road and Pavement Tests	ASTM D5	Standard test method of Penetration of Bituminous Materials	CTL Lab
Road and Pavement Tests	ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2041	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2172	Standard Test Methods for Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	CTL Lab
Road and Pavement Tests	ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors	CTL Lab
Road and Pavement Tests	ASTM D3549	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	CTL Lab
Road and Pavement Tests	ASTM D5361	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing	CTL Lab
Road and Pavement Tests	ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate1	CTL Lab
Road and Pavement Tests	ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	CTL Lab
Road and Pavement Tests	ASTM D6927	Standard Test Method for Marshall Stability and Flow of Bituminous Mixtures	CTL Lab
Road and Pavement Tests	BS EN 1426	Bitumen and bituminous binders. Determination of needle penetration	CTL Lab
Road and Pavement Tests	BS EN 12697-2	Bituminous mixtures. Test methods. Determination of particle size distribution	CTL Lab
Road and Pavement Tests	BS EN 12697-5	Bituminous mixtures - test methods. Determination of the maximum density	CTL Lab
Road and Pavement Tests	BS EN 12697-6	Bituminous mixtures. Test methods for hot mix asphalt. Determination of bulk density of bituminous specimens	CTL Lab
Road and Pavement Tests	BS EN 12697-8	Bituminous mixtures. Test methods. Determination of void characteristics of bituminous specimens	CTL Lab

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Road and Pavement Tests	BS EN 12697-13	Bituminous mixtures. Test methods. Temperature measurement	CTL Lab
Road and Pavement Tests	BS EN 12697-27	Bituminous mixtures. Test methods. Sampling	CTL Lab
Road and Pavement Tests	BS EN 12697-28	Bituminous Mixtures - Test Methods for Hot Mix Asphalt - Part 28: Preparation of Samples for Determining Binder Content, Water Content and Grading	CTL Lab
Road and Pavement Tests	BS EN 12697-29	Bituminous mixtures - Test methods for hot mix asphalt - Part 29: Determination of the dimensions of a bituminous specimen	CTL Lab
Road and Pavement Tests	BS EN 12697-36	Bituminous mixtures Test methods for hot mix asphalt Part 36: Determination of the thickness of a bituminous pavement	CTL Lab
Soil	ASTM C702	Reducing Samples to Testing Size	CTL Lab
Soil	ASTM D854	Standard Test Method for Specific Gravity of Soil Solids by Water Pycnometer	CTL Lab
Soil	ASTM D1140	Standard test method for determining the amount of Materials Finer than No. 0.075mm (No.200) Sieve in soil by washing	CTL Lab
Soil	ASTM D1556	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	CTL Lab
Soil	ASTM D1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort	CTL Lab
Soil	ASTM D1883	CBR of Lab Compacted Soils	CTL Lab
Soil	ASTM D2216	Determination of Moisture Content	CTL Lab
Soil	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	CTL Lab
Soil	ASTM D3740	Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	CTL Lab
Soil	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	CTL Lab
Soil	ASTM D4429	In Place California Bearing Ratio (CBR)	CTL Lab
Soil	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles ¹	CTL Lab
Soil	ASTM D4944	In Place Moisture Content (Calcium Carbide Tester)	CTL Lab
Soil	ASTM D6913	Particle Size Distribution	CTL Lab

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Soil	ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	CTL Lab
Soil	BS 1377-2: Sec. 3.2	Determination of Moisture Content (Oven Drying)	CTL Lab
Soil	BS 1377-2: Sec. 4.3	Determination of Liquid Limit (Cone Penetrometer)	CTL Lab
Soil	BS 1377-2: Sec. 4.5	Determination of Liquid Limit (Casagrande method)	CTL Lab
Soil	BS 1377-2 sec 5.0	Determination of Plastic Limit & Plasticity index	CTL Lab
Soil	BS 1377-2 sec 9.2	Determination of Particle size distribution (wet sieving method)	CTL Lab
Soil	BS 1377-2: Sec. 9.3	Particle Size Distribution (Dry Sieving Method)	CTL Lab
Soil	BS 1377-3: Sec. 4	Determination of Organic Matter Content	CTL Lab
Soil	BS 1377-3:1990 Sec. 5.2	Determination of Acid Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3:1990 Sec. 5.3/5.5	Determination of Water Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 7.3/5.5	Determination of Acid Soluble Chloride Content	CTL Lab
Soil	BS 1377-3:2018 Sec. 7.3 & 7.6	Determination of Water Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 7.9 & 7.6	Determination of Acid Soluble Sulphate Content	CTL Lab
Soil	BS 1377-3: Sec. 9.2	Determination of Water Soluble Chloride Content	CTL Lab
Soil	BS 1377-3:1990 Sec. 7.2	Determination of Water Soluble Chloride Content	CTL Lab
Soil	BS 1377-4: Sec. 3	Determination of dry density/moisture	CTL Lab
Soil	BS 1377-4: Sec. 7	Determination of California Bearing Ratio (CBR)	CTL Lab
Soil	BS 1377-9: Sec. 2.1	In-Situ Density Test (Sand Replacement Method-Small Pouring Cylinder)	CTL Lab
Soil	BS 1377-9: Sec. 2.2	In-Situ Density Test (Sand replacement method suitable for fine-, medium- and coarse-grained soils (large pouring cylinder method)	CTL Lab
Soil	BS EN 933-8	Sand Equivalent Value	CTL Lab
Steel	ASTM A370	Tensile Strength Test of steel	CTL Lab
Steel	ASTM A931	Tension Testing of Wire Ropes and strand	CTL Lab
Steel	ASTM A1061	Testing multi wire steel prestressing strand	CTL Lab
Steel	ASTM E415	Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry	CTL Lab
Steel	ASTM E1086	Analysis of Austenitic Stainless Steel by Spark Atomic Emission Spectrometry	CTL Lab

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Steel	BS 4449 Sec. 7.2.5	Bend Test & Rebend Test	CTL Lab
Steel	BS EN 10002-1, BS EN 6892-1 CL 11, 12, 20, 21	Tensile Strength Test of steel	CTL Lab
Steel	BSEN ISO 15630-3	Tensile test of high tensile steel prestressing strand	CTL Lab
Steel	BS EN ISO 15630-1 Cl 5	Tensile Strength Test of Reinforcement bars, wire rods and wires	CTL Lab
Steel	BS EN ISO 15630-1 Cl 6 & 7	Bend & Rebend Test	CTL Lab