

INDEPENDENT
LABORATORIES



مختبرات
المستقلة



TESTING | INVESTIGATION | MONITORING | INSPECTION

FOCUSING ON QUALITY AND SERVICE

Independent Soil Testing Laboratories is ISO/IEC 17025:2017 accredited testing laboratory by ENAS- (NAL135) • ADQCC (Designated Lab- D11) • Certified by QRS to ISO 9001: 2015 • ISO 14001:2015 • ISO 45001:2018



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ABOUT US

Independent Soil Testing Laboratories LLC (ISTL), is a testing laboratory based in Abu Dhabi and established in 2014. Core business of the laboratory is to provide specialized services in the fields of:

- Construction & Industrial Material Testing
- Specialized Testing
- Oil & Bitumen Testing
- Chemical Analysis
- Microbiological Analysis
- Environmental Monitoring & Analysis
- Geotechnical Investigation

Our mission is to deliver world-class services on a constant high quality level to customers around the globe. We specialize in areas

- Testing
- Investigation
- Monitoring
- Inspection

ISTL mainly focuses on service and quality.

مختبرات المستقلة لفحص التربة ذ.م.م (ISTL), هو مختبر فحوصات مقرها في أبوظبي, تم تاسيسه في عام 2014.

العمل الاساسي للمختبر هو تقديم خدمات متخصصة في مجالات

- اختبارات المواد الصناعية و مواد البناء.
- الاختبارات المتخصصة.
- اختبارات النفط والغاز.
- التحليل الكيميائي.
- التحليل الميكروبيولوجي.
- الرصد والتحليل البيئي.
- التحقيق الجيوتقني.

مهمتنا هي تقديم خدمات ذات مستوى عالمي و على مستوى عالي من الجودة و الثابت لعملائنا في جميع أنحاء العالم, نحن متخصصون في مجالات

- الاختبارات.
- التحقيق.
- الرصد.
- التفتيش.

مختبرات المستقلة لفحص التربة (ISTL) تركز بشكل رئيسي على الخدمة والجودة.



QUALITY EXCELLENCE

Quality Assurance is of paramount importance in our business thereby providing confidence that the quality of ISTL's work is of consistent high standard.

Our Quality Management System is established along the guidelines of ISO/IEC 17025:2017 by:

- ENAS (Emirates National Authority for Standardization) Lab NAL-135
- ADQCC (Abu Dhabi Quality and Conformity Council) Designated Lab D-11
- ISO 9001: 2015 by QRS (Quality Registrar System)
- ISO 14001:2015 by QRS (Quality Registrar System)
- OHSAS 18001:2007 by QRS (Quality Registrar System)

ISTL's Quality Management System adheres to the Company's documented policies and procedures in order to provide excellent services and achieving customers' satisfaction.

- Adherence to strict quality control procedures
- All tests conducted in accordance with internationally recognized British, American, European or Gulf Standards. Use of methods which are suitably validated and fit for purpose
- Standardizing our processes
- State of the art Equipment which is regularly calibrated by external accredited bodies
- Strong Managerial and Technical team of skillful professionals with unique and shared strength and expertise in relevant fields. Technical staff has extensive experience in Laboratory and Field Testing, data acquisition and its interpretation.
- Providing appropriate staff training and assess staff competency through regular quality programs.
- QMS is regularly audited by the National, International, and thirdparty Authorities for compliances with local and relevant International standards.
- Employing a detailed quality audit program that ensures corporate and customer feedback.
- Compliance with all requirements & procedure of ADQCC Participation in Inter-Laboratory/Proficiency Testing programs on regular basis.

SERVICE EXCELLENCE

ISTL offers a wide range of mechanical, physical and chemical testing methods. Our services cover - mechanical properties, thermal properties, optical properties, flammability properties, chemical composition analysis, microstructure analysis, weathering resistance testing, size measurements, safety testing and environmental impact testing. We offer total quality services and high level expertise for commercial clients government departments, local municipalities, process industry contractors, consultants and international institutions.

At ISTL we focus on enhancing the ability to offer service excellence through:

- Performing independent and impartial examination, verification validation and assessment, according to specific requirements of client
- Using advanced and sophisticated testing technologies
- Having experienced and qualified staff
- International Level of Quality Assurance Program
- Testing of a Variety of Products
- Reliable Data and high level of Integrity
- Assures best Co-operation, Competitive prices, Confidentiality, Rapid Turnaround Time and efficient service to its clients to make their projects a success

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OIL & BITUMEN

At ISTL, the Oil and Bitumen department provides following services

- **DIESEL ANALYSIS:** API gravity, Density, Relative humidity, Appearance or haze, Cloud point, Color, Conductivity Copper corrosion, Distillation, Flash point, Pour point, Sulfur content, Sediment and Water Content
- **BITUMEN TESTING:** Penetration test, Ductility test, Softening point test, Specific gravity test, Sabolt Furol & Universal Viscosity test, Flash and Fire point test (open & Close cup), Float test, Water Content test, Loss on Heating test, Breaking point, Solubility, Storage Stability, Rolling Thin Film Oven Test, Kinematic Viscosity.



CHEMICAL ANALYSIS

Chemical analysis determines the composition of samples and is valuable in identifying and verifying materials, detecting the presence of elements and identifying unknown substance

- Qualitative and Quantitative Instrumental analysis
- Classical Wet chemistry
- Analyzing metals, powdered metals, ores, ferroalloys, composites, ceramics and polymers
- Supporting customers with advanced analysis techniques, for their customized products or orders with limited sample quantity.
- Trace analysis - Performed using spectrometers with detection limits in the parts per million range for many metals
- Gravimetric, volumetric, colorimetric and potentiometric procedures are followed for analysis
- Material Tests- Chemical analysis of a wide range of Materials used for the construction and allied industry Water | Wastewater | Groundwater/seawater | Food products | Oil | Cosmetics Cleaning materials | Mineral ores | Deposits | Construction materials | Agricultural and horticultural materials | Detection of pesticides, insecticides, herbicides and other organic pollutants
- Environmental Tests- Includes field sampling (in accordance with the local municipality requirements and international methods) and testing at the laboratory and furnishing the test reports - Environmental samples (sludge, sediments, etc)
- Determination of nutritional values and toxicity of food and beverages
- Optical Emissions Spectroscopic Techniques
- Halogen Acid Determination
- Limiting Oxygen Index
- UV and Visible Spectrophotometer
- Corrosion Analysis – To determine the impact of environmental conditions on their materials and products -Corrosion testing, Salt Spray/Salt Fog, Passivation Testing and Humidity Testing





- **MORTARS:** Tensile Properties, Flexural Strength, Compressive Strength, Pull off Strength, Shear Strength, Modulus of Elasticity, Modulus of Rupture, Thermal Transmission Properties, Acoustic Properties (STC /NRC) Flame Spread Test, Fire Propagation test, BRE Impact.
- **PAINTS & COATINGS:** Viscosity, Density, Color, Pencil hardness, Wet Film Thickness, Dry Film Thickness, Abrasion, Wash ability, Drying time, Opacity, Gloss, Pull off test, Cross cut test, SRI, Luminance Factor, Holiday Testing, Salt Spray Testing, Bend Test, UV Resistance, Impact testing, Slip Resistance, Flame spread index, Fire propagation
- **GRP PIPES & LININGS:** Water Absorption, Tensile Strength & Elongation, Flexural Strength Density, Stiffness, Barcol Hardness, Dimension, Hydrostatic Pressure Test, Shear Strength, Hoop Tensile, Compression Test, Mass Loss On Ignition, Changes In physical Properties, Modulus Of Elasticity, Longitudinal Compressive Stress, Toxicity.
- **INSULATION BOARD:** Compressive Strength, Density, Long Term Water Absorption, Thermal Conductivity, Tensile Adhesion, Water Vapor Transmission, Water Absorption, Water Absorption By Volume, Flexural Strength, Impact test, Acoustic Properties (STC), Fire Properties.
- **HDPE PIPE & LINER:** Shear Strength, Tensile Strength & Elongation, Butt fusion joint Test, Puncture Resistance, Dimensional Stability, Hydrostatic Pressure Test, Tear Strength, Specific Gravity, Melt Flow Index, Thickness, Specific Gravity, Peel Strength
- **RUBBER:** Compression Set, Adhesive Strength, Shore "A" Hardness, Tensile Strength & Elongation, Tear Strength, Abrasion Resistance, Flexibility, Dimensional Stability, Density, Volume Change, Load Deflection Properties, Specific Gravity, Coefficient of Friction.
- **JOINT FILLER BOARD:** Density, Compression & Recovery, Extrusion, Water Absorption, Distortion Brittleness, Weathering Test
- **PLASTICS & WARNING TAPES:** Thickness & Gauge, Elmendorf tear, Dart Impact, Density, Water Absorption, Tensile Strength & Elongation, Tear Resistance, Breaking Force of Fiber Rope Opacity Izod, Reflectivity, Moisture vapor transmission, Carbon Black Content, Flammability.
- **GYPSUM BOARD & GFRC:** Flexural Strength, Nail Pull Resistance, Core, End & Edge Hardness Humidified Deflection, Thickness, Length & Width, End Squareness, Water Absorption Surface Surface Hardness, Dimension, Density, Deflection Under Load, Shear Strength, Gypsum Content Thermal Conductivity, Flammability, Sound Transmission Class(STC).
- **EPOXY GLUE & TILE ADHESIVE:** Pot Life of the Mixed Bonding Agent, Open Time of Bonding Agent, Thixotropy (Sag Flow), Angle of Internal Friction (Squeezability), Compressive Strength, Tensile Bending Strength, Shear Test.



SPECIALIZED TESTING SERVICES

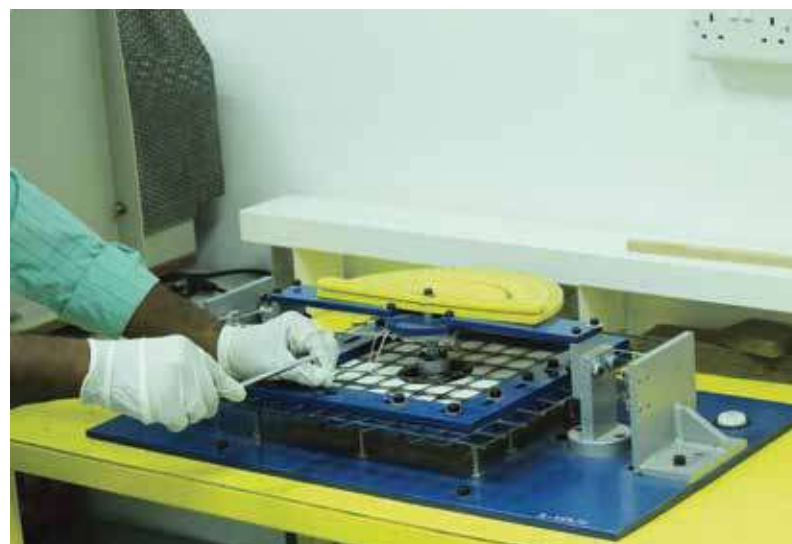
ISTL provides various specialized and unique testing and Research & Development services for construction and industrial sector in the region

A wide range of material are tested which are mentioned below:

- **ROAD MARKING PAINTS:** Retro-reflectance(RL/QD), Slip/Skid Resistance, Reflectance, Luminance Factor, Color yellowness Index, Flow ability, UV resistance, Specific gravity, Binder, Glass Beads Titanium Dioxide, Calcium Carbonate & Inert Fillers, Color Change, Drying Time, Cracking Resistance at low temperature, Softening Point, Impact Resistance, Flashpoint Dimension & Weight, Compression, Water Absorption, Glaze Thickness, Bond Strength.
- **GEOGRID:** Aperture Dimensions, Minimum Rib Thickness, True Initial Modulus in use, True Tensile strength @ 2% strain, True Tensile strength @ 5% strain, Junction Efficiency, Flexural Stiffness, Aperture Stability Resistance to installation Damage, Resistance to long term degradation, Carbon black content.
- **GLASS BEADS:** Gradation, Roundness, Refractive Index, Coating Flow, Floatation, Moisture resistance & Adherence
- **WATERPROOFING MATERIALS:** Tensile Strength & Elongation, Tear Strength, Adhesion Test, Low Temperature Flexibility, Thickness, Dimension Stability, Heat Resistance, Puncture Resistance, Mass Per Unit Area, Shear Resistance To Joints, Static Puncture, Dynamic Puncture, Drying Time, Crack Bridging Ability, Chisel Puncture, Density, Weathering Test (UV), Water Vapour Transmission, WA, Reinforcement, Bitumen Content, Chemical Resistance, Hydrostatic Pressure Test, Softening Point, Penetration.
- **GEOTEXTILES:** Wide Width Tensile, Grab Strength, Apparent Opening Size, Index Puncture Resistance, Bursting Strength, Weathering Test (UV), Trapezoidal Tear, Mass Per Unit Area, CBR Puncture Strength, Thickness, Tensile Strength – Joints/Seams, Dynamic Perforation – Cone Drop, Resistance Of Alkaline, Resistance Of Acid, Flow Rate, Permeability, Strip Tensile.
- **PVC, UPVC, HDPE (PIPES):** Tensile Strength & Elongation, Dimension, Longitudinal Heat Reversion, Impact Resistance, Physical Appearance, Bend Test On Welded Joints, Izod, Charpy Impact Test, Hydrostatic Pressure Test, Opacity, Melt Flow Index Test, Vicat Softening Point, Carbon Black Content, Accelerated Weathering Test, Halogen Acid Content, Limiting Oxygen Index Test, Flammability
- **TILES:** Dimension & Surface Quality, Thermal Shock, Water Absorption, Modulus Of Rupture & Breaking Strength, Frost Resistance, Breaking Load, Thickness, Moh's Hardness, Cracking Resistance, Slip Resistance, Stain Resistance, Weathering, Chemical Resistance, Porosity, Abrasion Resistance, Ramp Walk Anti slip properties, Impact Resistance.



- **SEALANTS:** Shore "A" Hardness, Adhesion In Peel Off Joint, Application Life, Rheological Properties, Peel Strength, Staining, Loss of Mass After Heat Aging, Adhesion & Tensile Modulus, Plastic Deformation, Tensile Properties, Crack Bridging Ability, Volume Shrinkage, Tack Free Time, Flow Bond To Concrete, Self Leveling, Weight Loss, Cracking, Extension Recovery & Adhesion, Accelerated Weathering (UV), VOC, Density, Flammability, Sound Transmission Class (STC).
- **POLYSTYRENE:** Compressive Resistance, Thermal Resistance, Thermal Conductivity, Flexural strength, Water Vapor Transmission, Water Absorption by total immersion, Dimensional stability (change indimension), Oxygen Index, Density, Shear Test, Wrinkling Stress and Bend Movement test
- **ADMIXTURE:** Solid Content, Specific Gravity, Chloride Content, pH, VOC
- **PIGMENT:** Sieve Residue, Iron Oxide, Water Soluble Chloride, Moisture Content, pH, VOC
- **CONCRETE WATER:** pH, Total Dissolved Solids, Sulphate content, Chloride Content, Total Alkalinity.
- **PAPER:** Tensile and Elongation, Color Stability, Thickness
- **WOOD BASED PRODUCTS, PLYWOOD, TIMBER:** Tensile, In-plane and Glue-line Shear Tests, Nail & Screw withdrawal test Bending properties, Thermal Properties, Acoustic Properties, Compression Test, Accelerated weathering test, Water Absorption, Moisture content
- **GEO STRIP / GEO STRAP:** Tensile Properties, Dimension
- **PALLET:** Corner drop test, Static shear test, Bottom deck bending tests, stacking test Compression tests for blocks or stringers, Fork lifting tests, Static air bag bending test, static wing pallet bending test, static bending test
- **MARBLES, GRANITE, NATURAL & DECORATIVE STONE:** Dimension, Compressive strength, specific gravity, WA, Breaking Load @ Dowel Hole, Flexural strength, Shear Strength, Bond Strength, Abrasion, Mohs Hardness, Modulus of Elasticity, Modulus of Rapture, Slip/Skid Resistance, Static Coefficient of friction.



- **ROCK:** Shape Index, Mass Grading, Drop Test Breakage Index, UCS, Point Load Test, Abrasion Cerchar Abrasion, Brazilian Test, Water absorption, Density, Weather Resistance, Methylene Blue Absorption, Mohs Hardness.
- **ASPHALT:** Bitumen Content(Extraction), PSD, Marshall Density, Shear Strength, Compaction, Coring & Sampling, Strength Properties, Spray Rate, Thickness, Coating & stripping test of bitumen aggregate mixture, Stability, Loss of stability, Flow, Stiffness, Percentage voidage, Theoretical maximum specific gravity & density.
- **CONCRETE STRUCTURAL INVESTIGATION:** Coring & Compressive strength, GPR Scanning, Rebound Hammer, Half Cell potential, Depth of Carbonation, Pull out strength, Cover meter survey, Window opening, Ultrasonic pulse velocity, Electrical Resistance, Thermal Properties Delamination Survey, Linear Polarization Resistance.
- **STEEL, NUT & BOLT, REINFORCEMENT BAR, MANHOLE COVER & FRAME AND METAL PRODUCTS:** Yield Strength, Tensile Strength, Elongation, Stress @ different elongation %, Bend, Rebound, Proof Load, Pull out strength, Single Shear, Double Shear, Rockwell Hardness, Brinell Hardness, Vickers Hardness, Impact, Chemical Analysis(OES), Coating Thickness, Coating Continuity, Coating Flexibility, Salt Spray Test, Load Test for scaffolding, Cable Trays, Load Test for Manhole cover and Frame
- **STRAND, WIRE MESH:** Yield Strength, Tensile Strength, Elongation, Stress @ different elongation %, Weld Shear, Rockwell Hardness, Brinell Hardness, Vickers Hardness, Chemical Analysis (OES)





CONSTRUCTION & INDUSTRIAL MATERIAL TESTING

The Material department offers Physical, Mechanical and Chemical analysis of wide range of materials used by the construction and its allied industry. The tests are carried out as per the International Standards and specifications as defined in BS, ASTM, BS EN, AASHTO, CIRIA, DIN, ISO, API, ASME, AS/NZS etc. The core services offered by the Material Division includes testing of a broad range of materials

- **PAVING BLOCK:** Compressive Strength, Dimension, Water Absorption, Density, Flexural Strength Abrasion Resistance (Sand Blasting & Wide Wheel), Durability (Salt Resistance Test), Solar Reflectance Index.
- **KERBSTONE:** Compressive Strength, Dimension, Water Absorption, Transverse Strength, Slip or Skid Resistance, Abrasion Resistance, Ramp Walk Slip Resistance
- **MASONRY & AAC BLOCKS:** Compressive Strength, Dimension, Moisture Content, Water Absorption, Density, Bending Strength, Compressive Strength of Masonry Prism, Linear Shrinkage, Electrical Resistance, Thermal Transmission Properties(K,R & U value), Acoustic Properties (STC), Fire Properties
- **FRESH CONCRETE:** Concrete Mix design, Slump, Temperature, Air Content, Bleeding, Density, Setting Time, Cement Content, Water Content, Temperature monitoring in large concrete foundations.
- **HARDENED CONCRETE:** Compressive Strength of Cubes, Cylinder, Core, Tensile Splitting Strength, Flexural Strength, Chloride ion, Sulphate ion, Water Absorption, Water Permeability, Linear thermal expansion, Porosity, Rapid Chloride Permeability, Chloride Migration Coefficient, Chloride Diffusion Coefficient, Crack Mouth Open Displacement(CMOD), Modulus of Elasticity, Abrasion Resistance, Hardness, Moisture Content, RH monitoring, BRE Impact, Drying Shrinkage.
- **AGGREGATES-** PSD, AIV, ACV, TFV, WA, LAA, Specific gravity, Flakiness, Elongation Particle Shape, Sand Equivalent, Soundness, Micro Deval, Drying Shrinkage, Polished Stone Value, Slake Durability, Mohs Hardness, Chloride Content, Sulphate Content, Bond Work Index, Acid Soluble Material, Potential Alkaline reactivity (Mortar Bar Method, Chemical Method, Rock Cylinder Method) etc.
- **CEMENT:** Fineness, Consistency, Initial Setting Time, Final Setting Time, Soundness, Autoclave Expansion, Compressive Strength, Flexural Strength, Accelerated pozzolanic strength- activity index, Bulk density, Heat of Hydration and Chemical Analysis.
- **Soil, Sand, Silts, Clay:** PSD, MDD/OMC, CBR, L.L.P.L and P.I., FDT, Linear Shrinkage, Constant Head permeability, Falling Head Permeability, Thermal Resistivity, Electrical Resistance, Sedimentation, Maximum and minimum density – by vibrating table, Hydrometer, Shear Box, DCPT, Complete Chemical Composition, Organic and Inorganic pollutants analysis.



MICROBIOLOGICAL ANALYSIS

The Microbiology department offers specialized microbiological analysis for a wide range of products and materials including:

- Water, beverage,
- Frozen/chilled food, fresh food
- Air quality – Indoor & Outdoor
- Equipment / personnel swabs, cosmetics and other consumer goods, personal care products
- Environmental samples.
- Determine the amount of micro-organisms present which guide the manufacturers and suppliers regarding the suitability of the product for the intended end use.
- **DETECTION/IDENTIFICATION OF THE FOLLOWING:** Total Coliforms, Fecal Coliforms, Aerobic Colony Count, Enterobacteriaceae, Escherichia Coli, Pseudomonas, Enterobacteriaceae, Aeruginosa, Staphylococcus Aureus, Salmonella Sp., Bacillus Cereus, Clostridium Perfringens, Vibrio Parahaemolyticus, Listeria Sp., Yeast Moulds, Legionella Pneumophila Sero Groups, Legionella Sp.

ENVIRONMENTAL ANALYSIS AND MONITORING

ISTL offers a wide range of environmental monitoring and analysis services in testing & monitoring of Air, Water, Soil, Noise or Sound, Light & Meteorology, utilizing latest technology and methods. It involves complete Field Sampling (in accordance with the Local municipality requirements and International methods), Laboratory Testing and furnishing the test reports which includes:

- Ambient, Occupational and Indoor Air Quality Monitoring- Short, Medium or Long Term Options (physical, chemical and microbiological parameters)
- Baseline Environmental Monitoring and Environmental Impact Assessments
- Sound level survey or Noise Monitoring
- Pollution monitoring
- Heat Stress
- Stack and Process Monitoring- Emissions Compliance Testing
- Water quality testing (sea, ground, potable, recreational and processed water)
- Ground contamination survey
- Illuminance testing
- Solid Wastes, Sediments, Sludge



GEOTECHNICAL INVESTIGATION

ISTL provides wide range of geotechnical investigation services to the construction and allied industries. These includes but not limited to the following:

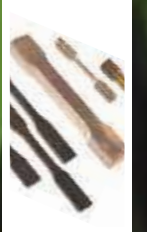
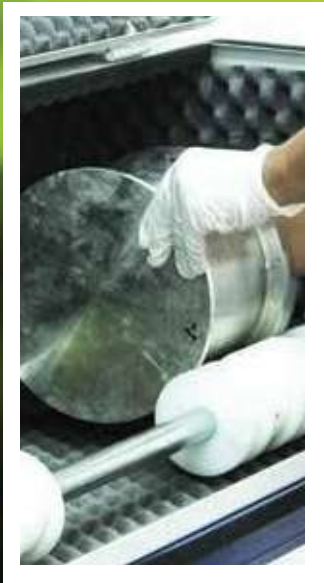
- Standard Penetration Tests (SPT)
- Rock sampling using HQ, HWF, PWF techniques with Rotary Drilling
- Disturbed bulk sampling using Percussion Drilling
- Cone Penetration tests (CPT)
- Plate Load tests
- Falling Head / Constant head permeability Test
- Groundwater level monitoring

Subsurface exploration usually involves drilling of boreholes up to the required depth and collecting samples for further laboratory tests. Site specific laboratory testing based on the end use of the data are designed to determine soil and rock parameters required for geotechnical analysis and design. At ISTL the Subsurface Investigations and Geotechnical Laboratory Testing programs are tailored to meet our customer's requirements.

Geotechnical division also provides site supervision & field testing services during soil investigation and foundations construction



LOCATION MAP



KEY CONTACTS

Customer Care : info@istl.ae
Sales : sales1@istl.ae
Technical : tm@istl.ae
Quality : quality@istl.ae
General Manager : gm@istl.ae
Managing Director : jacob@istl.ae



Independent Soil Testing Laboratories. L.L.C

MW/5, Near NMDC, Mussafah, Abu Dhabi, U.A.E

P.O. Box 145843, Tel: +971 2 5553232

Email: istlab@outlook.com, Website: www.istl.ae

مختبرات المستقلة لفحص التربة ذ.م.م

مغرب 5 - بالقرب من ان ام دي سي ، مصرف ، أبوظبي، إ.ع.م

ص.ب: 145843، هاتف: +971 2 5553232

البريد الإلكتروني: istlab@outlook.com ، الموقع الإلكتروني: www.istl.ae



مختبرات المستقلة INDEPENDENT LABORATORIES

Focusing on Quality & Service

- ◆ Testing
- ◆ Investigation
- ◆ Monitoring
- ◆ Inspection



MATERIAL TESTING

FOOD ANALYSIS

LEGIONELLA ANALYSIS

MICROBIOLOGY ANALYSIS

CHEMICAL ANALYSIS

IAQ/AMBIENT MONITORING

ENVIRONMENTAL TESTING

GEOTECHNICAL INVESTIGATION

SHELF LIFE STUDY



About Us

Independent Soil Testing Laboratories LLC (ISTL), is a testing laboratory based in Middle East and established in 2014. Core business of the laboratory is to provide specialized services in the fields of

- ◆ Microbiological Analysis
- ◆ Chemical Testing
- ◆ Geotechnical Investigation
- ◆ Environmental Analysis
- ◆ Environmental Monitoring
- ◆ Construction & Industrial / Material
- ◆ Testing for Oil & Gas

Our Quality Management System is established along the guidelines of ISO/IEC 17025:2017 by: ENAS (Emirates National Authority for Standardization) Lab NAL-135; ADQCC (Abu Dhabi Quality and Conformity Council) Designated Lab D-11; ISO 9001: 2015 by QRS (Quality Registrar System); ISO 14001:2015 by QRS (Quality Registrar System); ISO 45001:2018 by QRS (Quality Registrar System).



MICROBIOLOGY ANALYSIS: (WATER & FOOD & SWAB & AIR)

ISTL provides comprehensive Water & food safety and quality testing services according to international standards to advise on compliance with local, national, and international regulations.

WATER ANALYSIS :

- Fresh Water
(Drinking & Non Drinking Water)
- Ground Water
- Sea Water
- Chiller Water
- Treated Water
- Swimming Pool water
- Raw Water
- Dialysis water (Endotoxin)
- Cooling Tower water
- Wastewater



LEGIONELLA ANALYSIS

- Conventional Method (ISO 11731:2017) & PCR Testing for Water Samples





FOOD ANALYSIS

- Raw Food samples
- No seafood samples
- Ready to Eat Food samples
- Sea Food Samples
- Processed Food
- Dairy, Canned, Spices, etc...



SWAB ANALYSIS

- Hand swab Analysis
- Surface Swab Analysis



AIR QUALITY MONITORING

- Bacteria & Fungai



SPECIALTY TEST FOR MICROBIAL ANALYSIS

- Shelf life Analysis for Food samples
- Fuel Testing (Bacteria & Fungai)
- Pathogenic tests (Salmonella, E.coli O157, Listera spp, Vibrio SPP, Campylobacter SPP, etc..)
- Antibacterial & Antifungal resistivity Test for Synthetic Material Products
- Microbiology analysis of Cosmetics Product
- SRB & IRB Analysis
- Marine Water Analysis (Algae, Chlorophyll)
- Identification of Helminth Ova, Insects & Larvae

CHEMISTRY

WE CARRY OUT
A WIDE RANGE OF
TESTS IN OUR
CHEMISTRY
LABORATORY

CHEMICAL TEST PARAMETERS

- Water & Wastewater
- Food (Nutritional parameters)
- Food Contacting Materials
- Sludge
- Soil
- Stainless Steel /Steel
- Aluminum
- Civil-Ground Water
- Concrete
- Paint
- Cement, GGBS & Microsilica
- Bituminous & Asphalt
- Aggregate
- Construction Chemicals

- Appearance, Odor., • pH @25°C, • Conductivity @ 25°C, • Total Suspended Solids (TSS),
- Phosphorous, • Molybdate • Mercury, Nitrate, Volatile Organic Compounds (VOC),
- Phosphate, • Sulphate, • Fluoride., • Nitrate- • Nitrogen, • Nitrite, • Sulphide,
- Acidity as CaCO₃, • Hydroxide Alkalinity as CaCO₃ Sulfide Langelier Saturation Index (LSI)
- Chloride., • Magnesium Hardness as CaCO₃ Sulphate, Zinc (Zn), • Total Chlorine-
- mpurities, Copper (Cu), • Fluoride, • Total Iron, • Lead (Pb), • Magnesium,
- Manganese (Mn), • Hardness (Non-Carbonate), • Bicarbonate Alkalinity as CaCO₃, • Boron,
- Cadmium (Cd), Calcium Hardness (Carbonate), • Chloride., • Chromium (Cr) • Color, • Phosphate,
- Potassium, • Sodium, • Sulfate, • Taste, • Total Alkalinity as CaCO₃,
- Total Dissolved Solids (TDS) • Total Hardness as CaCO₃, • Free Chlorine



ENVIRONMENTAL TESTING

ISTL offers Indoor Air Quality (IAQ) Tests in line with the local Green Building Standards, ADNOC, HAAD, and international IAQ standards. ISTL can provide expert analytical, consultative, and investigative services apart from reporting measurements. ISTL works with experts in the industry to provide wholesome solutions to IAQ problems from investigative identification to remedial solutions. Standard tests cover Dust Particles, Temperature, RH, CO, CO₂, O₃, TVOC. Tests are also done for light intensity(Lux), CH₂O(Formaldehyde), Noise, and Duct Cleanliness Verification test (TR 19).

- Indoor Air Quality Test
- Clean Room Validation
- Stack Emission Monitoring
- Ambient Air Quality Test
- HEPA Filter Integrity Test
- Flue Gas Emission Monitoring





LOCATION MAP



KEY CONTACTS

BDM : bdm@istl.ae
GM : gm@istl.ae

Chemical Dept. : tm.chem@istl.ae
Microbiological Dept. : micro@istl.ae



مختبرات المستقلة
INDEPENDENT LABORATORIES

مختبرات المستقلة لفحص التربة ذ.م.ع. L.L.C.
Independent Soil Testing Laboratories. L.L.C.
P.O. Box 145843, Tel: +971 2 5553232, Abu Dhabi, U.A.E., Email: istlab@outlook.com, Website: www.istl.ae

www.istl.ae



UNITED ARAB EMIRATES
MINISTRY OF INDUSTRY
& ADVANCED TECHNOLOGY



Certificate of Accreditation

مختبرات المستقلة لفحص التربة ذ.م.م (NAL 135)

المصفح، مصفح غرب 5 – أبوظبي، الإمارات العربية المتحدة

حاصل على الإعتماد في الفحوصات المذكورة في وثيقة المجال المرفقة وفقاً للمواصفة الدولية ISO/IEC 17025₁

Independent Soil Testing Laboratories L.L.C (NAL 135)

MW 5, Mussafah – Abu Dhabi, UAE

Accredited according to the ISO/IEC 17025₁ Standard to undertake tests as specified in the attached Accreditation Scope



د. فوح الزرعوني

عن مدير إدارة الاعتماد الوطني

Accredited on	2022/09/08	تاريخ منح الإعتماد
Expires on	2025/09/07	تاريخ الإنتهاء

1 Accreditation in accordance to the ISO/IEC 17025:2017 Standard "General requirements for the competence of testing and calibration laboratories" and the relevant ENAS and ILAC requirements.

This certificate is invalid without the attached scope of accreditation, which subjected to annual surveillances as per ENAS procedure. Certificate can be updated or re-issued until the expiry date defined above. The validity of the certificate is subjected to continuous compliance with the requirements of the accreditation system. The lab is responsible for the results of its testing.

Initial Accreditation Date: 09/09/2019

1 وفقاً لمتطلبات المواصفة الدولية ISO/IEC 17025:2017 "المتطلبات العامة لكفاءة مختبرات الفحص والمعايرة" والمتطلبات ذات العلاقة الخاصة بنظام الإعتماد الوطني الإماراتي ENAS والمنظمة الدولية لاعتماد المختبرات ILAC .
مجال الاعتماد جزء أساسي من هذه الشهادة حيث تخضع مجالات الاعتماد المذكورة في الوثيقة المرفقة لعمليات متابعة لاحقة من قبل نظام الإعتماد الوطني الإماراتي ENAS. وتعتبر هذه الشهادة صالحة وقابلة للتحديث وإعادة الاصدار حتى تاريخ الانتهاء المدون اعلاه شريطة استمرار المختبر المذكور اعلاه في تطبيق متطلبات نظام الاعتماد سالفة الذكر. يتحمل المختبر مسؤولية نتائج الفحص الصادرة عنه.

تاريخ منح الإعتماد لأول مرة: 09/09/2019

ACF 11-21; Rev.4

هاتف 600565554 TEL ص.ب. P.O.BOX 48666 | أبوظبي، دبي، الإمارات العربية المتحدة Abu Dhabi, Dubai, United Arab Emirates

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Accreditation Scope

Independent Soil Testing Laboratories LLC, NAL 135) Testing Laboratory, (ISO/IEC 17025:2017)

M10, W53, Mussafah, Abu Dhabi, UAE

Issue Date: 28-12-2022

Expiry Date: 05-09-2025

Issue No: 05

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Hardened Concrete	Testing hardened concrete- Shape, dimensions and other requirements for specimens and moulds specimens for strength tests	BS EN 12390-1:2021	P
		Material Testing hardened concrete making and curing	BS EN 12390-2:2019	P
		Density of hardened concrete	BS EN 12390-7:2019	P
		Compressive Strength of test specimens	BS EN 12390-3:2019	P
		Water Absorption of Concrete	BS 1881-122:2011+A1:2020	P
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202-22	P
		Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	P
		Initial surface absorption of concrete	BS 1881-208:1996	P
		Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali- Silica Reaction	AASHTO T303-00(2021)	P



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Material Testing	Hardened Concrete	Length change of Hardened Hydraulic Cement Mortar and Concrete	AASHTO T160-17 (2021)	P
		Cored Specimen-taking, examining and testing in compression	BS EN 12504-1:2019	P/S
		Absorption of water by immersion under vacuum/Porosity test in Hardened Concrete	RILEM CPC 11.3	P
		Shrinkage test	BS 812-120:1989	P
		Pile Integrity	ASTM D5882-16	S
		Pile Head Diameter	ASTM D5882-16	S
		Flexural Strength	BS EN 12390-5:2019	P
		Depth of Penetration of Water Under Pressure	DIN 1048-5:1991 CI 3.6	P
		Tensile splitting	BS EN 12390-6:2009	P
		Chloride Migration Coefficient	NT BUILD 492-1999-11	P
	Linear thermal expansion	AASHTO T 336-15(2019)	P	
	Fresh Concrete	Slump Test	BS EN 12350-2:2019 ASTM C143/C143M-20	P / S
		Bleeding	ASTM C232/C232M-21	P / S
		Density	BS EN 12350-6:2019	P / S



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Material Testing	Fresh Concrete	Air Content	BS EN 12350-7:2019	P/S
		Temperature	ASTM C1064/C1064M-17	P/S
		Setting Time	ASTM C403/C403M-16	P/S
		Sampling	BS EN 12350-1:2019	P/S
		Flow Table	BS EN 12350-5:2019	P/S
	Masonry Block	Masonry Blocks -Dimension	BS 6073-1:1981 (2003) Appendix A	P
		Masonry Blocks -Compressive Strength	BS 6073-2:1981 (1984) Appendix B	P
		Masonry blocks- Water absorption/Density	ASTM C140/C140M-22b	P
		Concrete Masonry units-Linear Drying Shrinkage	ASTM C426-22	P
		Concrete Masonry units-transverse strength	BS 6073-1:1981 (2003) Appendix C	P
		Concrete Masonry units-Linear Drying Shrinkage	BS 6073-1:1981 (2003) Appendix D	P
	Paving Block	Paving Blocks -Dimensions	BS EN 1338:2003, Annex C	P
		Paving Blocks -Compressive Strength	BS 6717-1:1993 Annex B	P
		Abrasion Resistance of concrete by Sand Blasting	ASTM C418-20	P



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Material Testing	Paving Block	Paving Blocks- Abrasion Resistance -Wide wheel abrasion Wheel Abrasion)	BS EN 1338:2003, Annex G	P
		Paving Blocks -Water Absorption	ASTM C140/C140M-22b	P
		Paving Blocks -Density & Relative Density	ASTM C140/C140M-22b	P
		Flexural Strength of Concrete (Using Simple Beam with Centre-Point Loading)	ASTM C293/C293M-16	P
		Measurement of Tensile Splitting Strength	BS EN 1338:2003, Annex F	P
		Resistance to salt attack	AS/NZS 4456.10-2003 Method B	P
	Kerbstone	Kerbstone -Water Absorption	BS EN 1340:2003, Annex E	P
		Kerbstone -Bending Strength	BS EN 1340:2003, Annex F	P
		Kerbstone -Abrasion Resistance (Wide Wheel Abrasion)	BS EN 1340:2003, Annex G	P
		Slip/skid resistance	BS EN 1340:2003, Annex I ASTM E 303 -98(2018)	P / S
		Overall Dimension - Concrete Kerb units	BS EN 1340:2003 Annex C.2	P
	Roof Paver	Flexural	ASTM C140/C140M-22b, Annex A6.6	P
	Concrete Investigation	Ultrasonic Pulse Velocity	BS EN 12504-4:2021	P / S



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Material Testing	Concrete Investigation	Electrical Conductivity	AASHTO T 358-21	P / S
		Linear polarization	ASTM G102-89 (2015)E1	P / S
		Rebar Scanning/Cover meter	BS 1881-204:1988	P / S
		Corrosion/ Half Cell	ASTM C876-15	P / S
		Depth of carbonation	BS EN 14630:2006	P / S
		Crack width	ACI 224R-01:2001 Chapter 4, Cl.4.5.2	P / S
		Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes	ASTM F2170-19a	P / S
		Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter	ASTM F2659-10(2015)	P / S
	Ceramic Tiles	Ceramic Tiles - Dimension	BS EN 10545-2:2018	P
		Ceramic Tiles -Modulus of Rupture	BS EN 10545-4:2019	P
		Ceramic Tiles- water absorption, apparent porosity, apparent relative density and bulk density	ISO 10545-3:2018	P



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Material Testing	Ceramic Tiles	Ceramic tiles- Resistance to deep abrasion for unglazed tiles	BS EN ISO 10545-6:2012	P
		Ceramic Tiles-Impact resistance by measurement of coefficient of restitution	BS EN ISO 10545-5:1998	P
		Ceramic Tiles-Static Coefficient of friction/Slip	ASTM C1028-07e1	P
		Ramp walk Slip resistance	DIN 51130-2014	P
	Cement	Standard Consistency	BS EN 196-3:2016 Cl.5	P
		Initial Setting Time	BS EN 196-3:2016 Cl.6.2	P
		Final Setting Time	BS EN 196-3:2016 Cl.6.3	P
		Cement-Compressive Strength	BS EN 196-1:2016 Cl.9.2	P
		Cement-Flexural Strength	BS EN 196-1:2016 Cl.9.1	P
		Modulus of elasticity in compression	BS EN 13412:2006	P
		Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes	ASTM C579-18	P
		Autoclave Expansion of Hydraulic Cement	ASTM C151/C151M-18	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Cement	Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)	ASTM C109/C109M-21	P
		Soundness of Cement	BS EN 196-3:2016 Cl. 7	P
		Cement - Determination of fineness (Specific surface Blaine)	BS EN 196-6:2018 Cl. 4	P
		Air Content of Hydraulic Cement Mortar	ASTM C185-20	P
		Heat of Hydration of Hydraulic Cement	ASTM C186-17	P
	Steel Reinforcement & Products	Steel for the reinforcement of Concrete: Weldable reinforcing steel: bar, Coil and Decoiled product: Specification- Tensile Properties	BS 4449:2005+A3:2016 Cl.7.2.3	P
		Steel for the reinforcement and prestressing of concrete. Reinforcing bars, wire rod and wire test method	BS EN ISO 15630-1:2019	P
		Metallic Materials-Tensile Testing	BS EN ISO 6892-1:2019	P
		Steel for the reinforcement of Concrete: Weldable reinforcing steel: bar, Coil	BS 4449:2005+A3:2016. Cl.7.2.5	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Steel Reinforcement & Products	and Decoiled product: Specification- Bend performance		
		Steel for the reinforcement and prestressing of concrete. Test methods. Rebend Test	BS EN ISO 15630-1:2019. Cl. 7	P
		Multi-Wire steel prestressing strand -Tensile Strength	ASTM A1061/A1061M-20ae1	P
		Strand- Relaxation Test	ASTM A416/A416-18	P
		Pull out test	BS 1881-207:1992, Cl.7	P / S
		Welded Shear Test	BS 4483:2005 BS EN ISO 15630-2: 2019, Cl. 7	P
		Cathodic Disbandment	ASTM A775/A775M-19, Annex A1.3.3 ASTM G8-96(2019)	P
		Rebar Tensile Strength	ASTM A370-21	P
		Chemical Resistance of Epoxy Coated Rebars	ASTM A775/A775M-19, Annex A1.3.2	P
		Coating Flexibility test	ASTM A775/A775M-19, Cl. 8.3	P
		Coating continuity test(pinhole)	ASTM A775/A775M-19, Cl. 8.2	P / S
		Coating thickness	ASTM E376-19 ASTM A775/A775M-19, Cl. 8.1	P / S



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Material Testing	Steel Reinforcement & Products	Climbing Drum peel grip / Drum peel test on aluminum composite panel	ASTM D1781-98(2021)	P
	Soil	Soil -In Situ Density by Large Pouring Cylinder	BS 1377-9:1990 Cl 2.2	P
		Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D1556/D1556M-15e1	P
		Density of Soil In-Place by the Sand-Cone Method	AASHTO T 191-14 (2018)	P
		Soil -MDD & OMC Relationship	BS 1377-4:1990 Cl 3.5/3.6	P
		Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft ³ (2,700 kN-m/m ³))	ASTM D1557-12(2021)	P
		Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T 180-21	P
		Thermal conductivity of soil and soft rock by thermal needle probe procedure	ASTM D5334-22	P
		California Bearing Ratio	BS 1377-4:1990 Cl 7.2.3 Amd. 13925-2002	P
		California Bearing Ratio	AASHTO T 193-13 (2021)	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Soil	Insitu CBR	BS 1377 Part 9: 1990: Cl. 4.3	P/S
		Direct Shear	ASTM D3080/D3080M-11	P
		Particle Size Distribution	BS EN ISO 17892-4:2016	P
		Particle Size Analysis	ASTM D6913/D6913M-17	P
		Particle Size Distribution by Hydrometer Method	BS EN ISO 17892-4:2016	P
		Liquid Limit, Plastic Limit, Plasticity Index	BS EN ISO 17892-12:2018+A1:2021	P
		Liquid Limit of Soils	AASHTO T 89-13 (2021)	P
		Plastic Limit and Plasticity Index of Soils	AASHTO T 90-20	P
		Water (Moisture) Content of Soil Sample	BS 1377-2:1990 Cl 3.2 Amd 9027-1996	P
		Moisture Content of Soils	AASHTO T 265-15 (2019)	P
		One Dimensional Consolidation	BS 1377-5:1990 Cl.3	P
		Soil Permeability by Constant Head method	BS 1377-5:1990 Cl.5	P
		Plate Load Bearing Capacity	BS 1377-9:1990 DIN 18134-2012	S
		Linear Shrinkage	BS 1377-2:2022, Cl.6.5	P
Determination of shear strength by direct	BS 1377-7:1990, Cl. 4	P		



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Material Testing	Soil	shear (small shear box apparatus)		
		Soil Classification	AASHTO M 145-91(2021)	P
		Mud Density (Balance)	ANSI/API 13B-1:2003 / ISO 10414-1: 2001 (Modified) Cl. 4	P / S
		Mud flow(marsh Flow cone)	ANSI/API 13B-1:2003 / ISO 10414-1: 2001 (Modified) Cl. 6.2f	P / S
		Sand Content	ANSI/API 13B-1:2003 / ISO 10414-1: 2001 (Modified) Cl. 9	P / S
		Min-Max Density (Vibrating Table)	ASTM D 4253-16e1 ASTM D4254-16	P
		Soil -Particle Size Distribution	AASHTO T 88-20	P
		Plate Load Bearing Capacity	ASTM D1194-94	S
		Plate Load Bearing Capacity	ASTM D1195/D1195M-21	S
		Plate Load Bearing Capacity	ASTM D1196/D1196M-21	S
		Electrical Resistance	ASTM G57-20 AASHTO T 288-12(2016) BS 1377-9: 1990 Cl.5.1	P / S



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Material Testing	Soil	Multi-channel Analysis of Surface Waves (MASW)	SOP-MT-002, Issue No. 1, Rev-00, Date 10.06.2022	P
		Electrical Resistivity Tomography (ERT)	SOP-MT-003, Issue No. 1, Rev-00, Date 10.06.2022	P
	Rock, Soil and Rock	Water (Moisture) Content of Soil and Rock Sample	ASTM D2216-19 BS EN ISO 17892-1:2014	P
		Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19	P
		Unconfine Compressive Strength	ASTM D7012-14E1, Method C	P
		Slake Durability of Shales and Other Similar Weak Rocks	ASTM D4644-16	P
		Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications	ASTM D5731-16	P
	Aggregate	Particle Size Distribution	BS EN 933-1:2012	P
		Sieve Analysis of Fine and Coarse Aggregates	AASHTO T 27-20	P
		Aggregate -Micro Deval Test	ASTM D6928-17 BS EN 1097-1:2011	P



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Material Testing	Aggregate	Aggregate -Clay Silt & Dust	BS EN 933-1:2012	P
		Aggregate -Material Finer than 75micron	ASTM C117-17	P
		Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	AASHTO T 11-20	P
		Aggregate -Particle Density and Water Absorption	BS EN 1097-6:2013	P
		Aggregate -Shell Content	BS EN 933-7:1998	P
		Aggregate -Flakiness Index	BS EN 933-3:2012 BS 812-105.1:1989	P
		Aggregate -Elongation Index	BS 812-105.2:1990	P
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	AASHTO T 96-02(2019)	P
		Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M-20	P
		Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535-16	P
Aggregate -Clay Lumps and Friable Particles	ASTM C142/C142M-17	P		



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Material Testing	Aggregate	Clay Lumps and Friable Particles in Aggregate	AASHTO T 112-21	P
		Aggregate Crushing Value (ACV)	BS 812-110:1990	P
		Ten Percent Fines Value (TFV)	BS 812-111:1990 Part 7.1 & 7.2	P
		Aggregate Impact Value (AIV)	BS EN 1097-2:2020	P
		Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88M-18	P
		Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	AASHTO T 104-99 (2020)	P
		Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128-15	P
		Specific Gravity and Absorption of fine Aggregate	AASHTO T 84-13(2021)	P
		Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419-14	P
		Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	AASHTO T 176-17(2021)	P
		Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127-15	P



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Material Testing	Aggregate	Specific Gravity and Absorption of Coarse Aggregate	AASHTO T 85-21	P
		Total Evaporable Moisture Content of Aggregate by Drying	AASHTO T 255-00 (2021)	P
		Lightweight Particles in Aggregate	AASHTO T 113-18	P
		Percentage of Fracture in Coarse Aggregate	AASHTO T 335-09 (2018)	P
		Shape Index/Grading	BS EN 13383-1:2013 BS EN 13383-2:2013	P
		Cerchar Abrasion Test	ASTM D7625-10	P
		Foreign Materials in Crushed Concrete Products	RC372.04:2013	P
		Aggregate Impact Value	BS 812-112:1990	P
		Polished Stone Value	BS EN 1097-8:2020	P
		Abrasion Value	BS EN 1097-8:2020 Annex A	P
		Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791-19	P
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C136/C136M-19	P
Fractured faces	ASTM D5821-13(2017)	P		



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Material Testing	Aggregate	Drying Shrinkage	BS EN 1367-4:2008	P
		Uncompacted Voids Content of Fine Aggregate (Angularity)	AASHTO T 304-17(2020)	P
		Durability Index	AASHTO T 210-15(2019)	P
		Sieve Analysis	BS 812-103 :1985 Amd 6003-89	P
	Bitumen	Bitumen -Softening point (Ring & Ball)	ASTM D36/D36M-14(2020)	P
		Bitumen -Penetration	ASTM D5/D5M-20	P
	Asphalt	Asphalt Mixture -Grading	ASTM D5444-15	P
		Asphalt Mixture -Bitumen Content	ASTM D2172/D2172M-17e	P
		Preparation of Asphalt Mixture Specimens using Marshall Apparatus	ASTM D6926-20	P
		Marshall Stability and Flow of Asphalt Mixtures	ASTM D6927-15	P
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549M-18	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Asphalt	Bulk Specific Gravity (Gmb) of Compacted Asphalt Mixtures Using Saturated Surface-Dry Specimens	AASHTO T166-21 Method A	P
		Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures	AASHTO T230-68(2000) Method B	P
		Estimating Application Rate and Residual Application Rate of Bituminous Distributors	ASTM D2995-14	P
		Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M-21	P
		Computation of voids in compacted bituminous paving mixture	DMS 009:2001 (R2007)	P
		Ductility of Asphalt Materials	ASTM D113-17	P
		Determination of Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	ASTM D2041/D2041M-19	P
		Sieve	AASHTO T37-07 (2020)	P
		Extraction	AASHTO T164-14(2018)	P
		Mechanical Analysis	AASHTO T30-2021	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Asphalt	Loss of Stability	DMS 10-2001 (R2007)	P
		Degree of compaction	AASHTO T 230-68(2000)	P / S
		Bulk Specific Gravity Using SSD	AASHTO T 166-21	P
		Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)	ASTM D 2872-21	P
	Water Proofing Membrane	Water Proofing Membrane - Tensile Strength	ASTM D5147/D5147M-18, Cl.7	P
		Water Proofing Membrane - Elongation	ASTM D5147/D5147M-18	P
		Water Proofing Membrane - Puncture Resistance	ASTM E154/E154M-08a(2019)	P
		Water Proofing Membrane - Mass per unit Area	BS EN 1849-1:2000	P
		Hydrostatic Pressure Resistance of Water Proofing Membranes	ASTM D5385/D5385-20	P
		Chisel Puncture	BD 47/99	P
		Water Absorption	ASTM D5147/D5147M-18	P



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Material Testing	Water Proofing Membrane	Flexible sheets for waterproofing. Determination of tensile properties - Bitumen sheets for roof waterproofing	BS EN 12311-1:2000	P
		Modified Bituminous Sheet Material- Tear Strength	ASTM D5147/D5147M-18 Section 8	P
		Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembrane	ASTM D6693/D6693M-20	P
		Determination of Tearing Nail shank	EN 12310-1:2000	P
		Thickness	BS EN 1849-1:2000 BS EN 1849-2:2019	P
		Heat stability	DIN 52123:2014, Cl. 13	P
	Mortar-Grout	Water Absorption	ASTM D570-98(2018)	P
		Mortar-Grout -Pull off Strength	BS 1881-207:1992 Cl.8	P / S
		Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing	ASTM C307-18	P
		Measurement of modulus of elasticity in flexure and	BS 6319-3:1990	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Mortar-Grout	flexural strength of resin and polymer/cement compositions		
		Measurement of Tensile Strength- Resin Compositions	BS 6319-7:1985	P
		Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes	ASTM C580-18	P
		Fluidity (Flow) & Temperature	BS EN 445:2007, CI 4.3.1 (Cone Method)	P / S
		Bleeding	BS EN 445:1997, CI 3.3	P / S
		Volume change	BS EN 445:1997, CI 3.4	P / S
		Density	BS EN 445:2007, CI 4.7	P / S
		Flow table	ASTM C230/C230M-21	P
	Expansion of Hydraulic Cement Mortar Bar	ASTM C1038 / C1038M-19	P	
	Screed	BRE Impact	BS 8204-1-2003+A1-2009 Annex D & E	P / S
	Geotextile	Tensile Strength	BS EN ISO 10319:2015	P
		Elongation	BS EN ISO 10319:2015	P
		Static Puncture test (CBR test)	BS EN ISO 12236:2006	P



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Material Testing	Geotextile	Mass Per Unit Area	ASTM D5261-10(2018)	P
		Bursting Strength of Textile Geotextile - Fabrics	ASTM D3786/D3786M-18	P
		Water permeability of geotextiles by permittivity	ASTM D4491/D4491M-21	P
		Grab breaking load and elongation of geotextiles	ASTM D4632/D4632M-15a	P
		Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe	ASTM D6241-14	P
		Trapezoidal Tearing Strength of geotextile	ASTM D4533/D4533M-15	P
		Apparent opening size	ASTM D4751-21a, Method A	P
		Geosynthetics — Dynamic perforation test (cone drop test)	BS EN ISO 13433:2006	P
		Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembrane	ASTM D6693/D6693M-20	P



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Material Testing	Geotextile	Determining the Integrity of Non-reinforced Geomembrane Seams Produced Using Thermo-Fusion Methods (Shear & Peel Test)	ASTM D6392-12 (2018)	P
	Glass Fiber Reinforced Plastics (GRP)	Indentation Hardness of Rigid Plastics by Means of a Barcoal Impressor	ASTM D2583-13a	P
		Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790-17	P
		Stiffness	ASTM D2412-21	P
		Compression	ASTM D695-15	P
		Cold Brittleness	ASTM D746-20	P
	Polyvinyl Chloride (PVC)	Dimension	BS EN ISO 3126:2005	P
		Tensile	BS EN ISO 6259-2:2020	P
		Elongation	BS EN ISO 6259-2:2020	P
		Tensile & Elongation	BS EN ISO 6259-1:2015	P
		Tensile & Elongation	BS EN ISO 6259-3:2015	P
	Thermoplastics pipes — Longitudinal reversion	ISO 2505:2005	P	
	Polyethylene (PE)	Dimension	BS EN ISO 3126:2005	P



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Material Testing	Polyethylene (PE)	Tensile Properties	BS ISO 13953:2001+A1:2020	P
		Elongation Percentage	ASTM D3350-21	P
		Plastics —Melt mass-flow rate (MFR) & Melt volume-flow rate (MVR) of thermoplastics — Part 1	ISO 1133-1:2011 Method A	P
		Izod Pendulum Impact Resistance of Plastics	ASTM D256-10(2018) Method A	P
		Environmental Stress-Cracking of Ethylene Plastics	ASTM D1693 - 21	P
		Density	ASTM D792-20	P
		Resistance to external blows, Round-the-clock method	BS EN ISO 3127:2017	P
		Vicat softening temperature	BS EN ISO 2507-1:2017	P
		Thermoplastics pipes, fittings as assemblies for the conveyance of fluids – Determination of the resistance to internal pressure	BS EN ISO 1167-1:2006	P
	Glass Reinforcement Concrete (GRC)	Characteristics Limit of Proportionality (LOP)	BS EN 1170-5:1998	P
		Characteristics Modulus of Rupture (MOR)	BS EN 1170-5:1998	P
Dry Bulk Density		BS EN 1170-6:1998	P	



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Material Testing	Glass Reinforcement Concrete (GRC)	Water Absorption	BS EN 1170-6:1998	P
	Rubber-Water Stopper	Shore A and D Hardness	ASTM D2240-15(2021)	P
		Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers	ASTM D624-00(2020)	P
		Tensile	ISO 527-1:2019 ISO 527-2:2012	P
		Compression	ASTM D395-18, Method B	P
		Abrasion	ISO 4649-2017 DIN 53516:1987	P
		Bending Stiffness	ASTM D747-10	P
		Joint Filler Board	Density	ASTM D545-19
	Compression		ASTM D545-19	P
	Recovery		ASTM D545-19	P
	Extrusion		ASTM D545-19	P
	Water Absorption		ASTM D545-19	P
	Distortion		ASTM D994/D994M-11(2022)	P
	Brittleness		ASTM D994/D994M-11(2022)	P
	HDPE Liner & EPDM	Density	ASTM D792-20	P
Self-AdhesiveMembrane	Water Absorption	ASTM D5147/D5147M-18	P	



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Material Testing	Self-Adhesive Membrane	Puncture Resistance	ASTM E154/E154M-08a(2019)	P
	Warning Tape	Tensile Properties	ASTM D882-18	P
	Textile and Fabrics	Breaking Strength & Elongation of Textile fabrics (Grab Test)	ASTM D5034-21	P
	Geostrap	Tensile Load	ASTM D4595-17 ISO 10319-2015	P
		Thickness	ASTM D5199-12(2019)	P
	Geogrid	Tensile Strength	ASTM D6637/D6637M-15	P
		Elongation	ASTM D6637/D6637M-15	P
		Resistance to long term degradation	ASTM D6637/D6637M-15	P
		Determination of Individual Geogrid Junction Strength	ASTM D7737/D7737M-15	P
		Aperture dimension	ASTM D6637/D6637M-15	P
		Flexural stiffness	ASTM D7748/D7748M-14(2021)	P
		Aperture Stability	ASTM D7864/D7864M-15	P
	Road Markings	Luminance Factor	BS EN 1436:2018 Annex C	P
		Retro Reflectance (Qd & RL)	BS EN 1436:2018	P
		Determination of Thickness of Hot-Applied Thermoplastic Road Marking Materials	BS 3262-3:1989 Appendix B 3.4	P
		Color	ASTM D2244-21	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Material Testing	Road Markings	Drying Time	AASHTO M249-12(2020) CI.4.3.2	P
		Binder Content	ASTM D4797-17	P
		Flowability-Extended Heating	AASHTO M 249-12(2020), CI 4.3.8 AASHTO T 250-05(2019), CI. 17	P
		Reflectance, Color & Yellowness Index	AASHTO M 249-12(2020), CI 4.3.1 & 4.3.7 AASHTO T 250-05(2019), CI 8	P / S
		Flowability	AASHTO M 249-12(2020), CI 4.3.6 AASHTO T 250-05(2019), CI 11	P
		Cracking Resistance at Low Temperature	AASHTO M 249-12(2020), CI 4.3.3 AASHTO T 250-05(2019), CI 12	P
		Bond strength	AASHTO T 250-05(2019), CI. 13	P
		Impact Resistance	AASHTO M 249-12(2020), CI 4.3.4 AASHTO T 250-05(2019), CI 14	P
		Specific Gravity	AASHTO M 249-12(2020), CI 4.1 AASHTO T 250-05(2019), CI 16	P
		Abrasion	ASTM D4060-19	P



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Material Testing	Road Markings	Retro Reflectance (Qd & RL)	ASTM E 1710-18	P / S
	Glass Beads	Sieve Analysis	AASHTO T 346-13(2021), Cl 5 Method A	P
		Roundness	AASHTO T 346-13(2021). Cl 6 Method A	P
		Refractive Index	AASHTO T 346-13(2021), Cl. 7	P
		Flotation	AASHTO T 346-13(2021), Cl. 10	P
		Moisture Resistance	AASHTO T 346-13(2021), Cl. 9	P
	Di Duct / Manhole Cover	Load Test Deflection	BS EN 124-1:2015	P
	Miscellaneous Material	Exposed Surface -SRI (Solar Reflectance Index)	ASTM E1980-11(2019)	P
		Material -Thermal Conductivity by Heat Flow Meter	ASTM C518-21	P / S
		Standard Test Method for Determination of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus	ASTM D4355/D4355M-21	P
		Dimensional properties Determination of length and width of flexible sheet	BS 2782-6: Method 632A:1993	P
		Determination of Thickness by Mechanical Scanning of Flexible Sheet	BS 2782-6: Method 630A:1994	P



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Material Testing	Miscellaneous Material	Determination of gravimetric thickness and yield of flexible sheet	BS 2782-6: Method 631A:1993	P
		Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements	ASTM E90-09(2016) ASTM E413-22 ASTM C423-22	P / S
		Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures	ASTM E1007-21 ASTM E989-21	P
		Vibration Measurement (Mechanical Vibration in Rotating Machinery)	BS 4675-1:1976, ISO 2372:1974	S
		Vibration Measurement (Machine Vibration by Measurement Non-Rotating Parts)	ISO 10816-1: 1995	S
		Vibration Measurement (Measurement of Machine Vibration)	ISO 20816-1 : 2016	S
		Vibration Measurement (Measurement on Construction & Open Sites)	BS 5228-2:2009+A1:2014, Cl. 9	S
	Wood	Bending Strength	ASTM D4761-19	P
		Compression	ASTM D143-22	P



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Material Testing	Wood	Water Absorption	ASTM D1037-12(2020)	P
	Polystyrene	Water Vapor Transmission	BS EN 12086:2013	P
		Dimensional Stability	BS EN 1604:2013	P
		Water Absorption	ASTM C272/C272M-18	P
	Polystyrene	Flexural Strength	ASTM C203-05a(2017)	P
	Marble-Dimension Stone & Granite	Water Absorption & density	ASTM C97/C97M-18	P
		Modulus of Rupture	ASTM C99/C99M-18	P
		Abrasion	ASTM C1353/C1353-20e1	P
		Compressive Strength	ASTM C170/C170M-17	P
		Flexural	ASTM C880/C880M-18	P
		Abrasion	ASTM C241/C241M-21	P
	Plastics	Water Vapor Transmission of Materials	ASTM E96/E96M-16	P
		Impact resistance by the free-falling dart method (Staircase methods)	BS EN ISO 7765-1:2004	P
		Density of Smoke from the burning or decomposition of plastics	ASTM D2843-19	P
		Tensile properties	ASTM D638-14	P



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Material Testing	Plastics	Elongation	ASTM D638-14	P	
		Initial Tear Resistance (Graves Tear) of Plastic Film and Sheeting	ASTM D1004-21	P	
		Plastic Ignition Temperature	ASTM D1929-20	P	
	Paints	Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Non-metallic Materials	ASTM G154-16	P	
		Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)	ASTM D2794-93(2019)	P	
		Pull-Off Strength of Coatings Using Portable Adhesion Testers	ASTM D4541-17	P / S	
		Mandrel Bend Test of Attached Organic Coatings	ASTM D522/D522M-17	P	
		Coating Thickness	ASTM D7091-21	P / S	



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Material Testing	Paints	Abrasion Resistance of Organic Coatings by the Taber Abraser	ASTM D4060-19	P
		Salt Spray (Fog)	ASTM B117-19	P
		Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage	ASTM D6132-13 (2022)	P
		Flame Spread Index	BS 476-7:1997	P
		Fire propagation	BS 476-6:1989+A1:2009	P
Geotechnical Testing	Soil	Soil -Penetration Resistance using Split Barrel Sampler	BS 1377-9:1990 Cl 3.3 Amd. 8264:1995 (Partially Replaced, Superseded)	S
	Groundwater	Ground Water Level Measurement	BS 5930:2015 + A1 2020, Cl.52.2, 52.3, 52.5 and 52.10	S
		Ground Water Sampling	BS 5930:2015 + A1 2020, Cl.26.4	S
	Soil and Rock	Soil and Rock Sampling	BS 5930:2015 + A1 2020, Cl.25	S
		Soil and Rock Description	BS 5930:2015 + A1 2020, Cl.33 and 36	P / S
	Rock	Rock Quality Designation	BS 5930:2015 + A1 2020, Section 6	P / S
Core Recovery		BS 5930:2015 + A1 2020, Section 6	S	



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Geotechnical Testing	Rock	Reporting	BS 5930:2015 + A1 2020, Section 10	P
Chemical Testing	Soil	pH value of Soil	BS 1377-3:2018+A1:2021 Cl.12	P
		Water Soluble Sulphate in Soil	BS 1377-3:2018+A1:2021 Cl.7.3, 7.6	
		Acid Soluble Sulphate in Soil	BS 1377-3:2018+A1:2021 Cl.7.9, 7.6	
		Water Soluble Chloride in Soil	BS 1377-3:2018+A1:2021 Cl.9.2	
		Acid Soluble Chloride in Soil	BS 1377-3:2018+A1:2021 Cl.9.3	
		Determination of Organic Matter Content	BS 1377-3:2018+A1:2021 Cl.4.0	
		Determination of Moisture, Ash and Organic Matter of Peat & other Organic Soils.	ASTM D2974-20e1	
		Determination of Organic Content in Soils by Loss on Ignition	AASHTO T 267 - 86 (2018)	
		Determination of Water-Soluble Chloride	AASHTO T 291- 94 (2018) ; Method A	
		Determination of Water-Soluble Sulphate	AASHTO T 290- 95 (2020) ; Method A	
Determination of Water-Soluble Salt	USBR 5450- 89			



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Chemical Testing	Soil	Determination of Carbonate	BS 1377-3:2018+A1:2021 ; Cl.8.3	P
		Gypsum Content of Soil	BS 1377-3:2018+A1:2021 ; Cl.7.9 & 7.6 & Calculation	
	Ground Water	pH value of Groundwater	BS 1377-3:2018+A1:2021 Cl.12	P
		Sulphate Content of Groundwater	BS 1377-3:2018+A1:2021 Cl.7.8, 7.6	
		Chloride Content of Groundwater	BS 1377-3:2018+A1:2021 Cl.9.2.7	
	Aggregate	Chloride Content of Agg, using Nitric Acid Extract for Agg. Containing chloride not extracted by water	BS 1744-5:2006 Cl.9	P
		Total Sulphate by Acid Extraction Method	BS 1744-1:2009+A1 2012 Cl.12.4	
		Methylene Blue Absorption	BS EN 933-9:2022	
		Determination of Acid Soluble Chloride	BS 812 Part 117:1988; Appendix C	
		Determination of Acid Soluble Sulphate	BS 812 : Part 118: 1988 ; Cl.6.0	
		Determination of Water Soluble Chloride	BS 812 : Part 117 : 1988	
	Determination of Water Soluble Sulphate	BS 812 : Part 118: 1988 ; Cl.5.0		



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Chemical Testing	Aggregate	Acid Soluble Materials	BS 812-119:1985	P
		Potential Alkali Reactivity	ASTM C289-07	
	Agricultural Soil	Moisture Content	Agricultural Handbook No.60 – 1954 USDA 60	P
		pH @ 25°C	Agricultural Handbook No.60 – 1954 USDA 60	
		Electrical Conductivity @ 25°C	Agricultural Handbook No.60 – 1954 / USDA 60	
		Sodium (Na)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Calcium (Ca)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Magnesium (Mg)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Boron (B)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Nitrate (NO ₃)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Phosphorus (P)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Potassium (K)	Agricultural Handbook No.60 – 1954 / USDA 60	
		Exchangeable Sodium	Agricultural Handbook No.60 – 1954 / USDA 60	
		Cation Exchange Capacity (CEC)	Agricultural Handbook No.60 – 1954 / USDA 60	
	Carbon / Low alloy steel	Carbon (C)	ISTL-SOP-CH-001 Rev00 August 4, 2021, based on ASTM E415-21	P
Sulfur (S)				



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Carbon / Low alloy steel	Phosphorus (P)	ISTL-SOP-CH-001 Rev00 August 4, 2021, based on ASTM E415-21	P
		Nitrogen (N)		
		Copper (Cu)		
		Manganese (Mn)		
		Chromium (Cr)		
		Molybdenum (Mo)		
		Vanadium (V)		
		Nickel (Ni)		
		CEV		
	Stainless steel	Carbon (C)	ISTL-SOP-CH-001 Rev00 August 4, 2021, based on ASTM E1086-14	P
		Silicon (Si)		
		Manganese (Mn)		
		Phosphorus (P)		
		Sulfur (S)		
		Molybdenum (Mo)		
		Nickel (Ni)		
		Nitrogen (N)		
		Vanadium (V)		
		Chromium (Cr)		
		Copper (Cu)		



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Bronze	Copper (Cu)	EN 15079:2015	P
		Tin (Sn)		
		Lead (Pb)		
		Zinc (Zn)		
		Nickel (Ni)		
		Cobalt (Co)		
		Iron (Fe)		
		Antimony (Sb)		
		Sulfur (S)		
		Potassium (K)		
		Aluminum (Al)		
	Silicon (Si)			
	Aluminum	Silicon (Si)	BS EN 14726:2019	P
		Iron (Fe)		
		Copper (Cu)		
		Manganese (Mn)		
		Magnesium (Mg)		
		Chromium (Cr)		
		Zinc (Zn)		
Tin (Sn)				



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)	
Chemical Testing	Aluminum	Aluminum (Al)	BS EN 14726:2019	P	
	Iron and Steel	Iron and Steel articles with Zinc or Zinc Alloy Coatings	ASTM A90/A90M-21	P	
	Concrete	Organic Impurities in Fine Aggregate for Concrete		ASTM C40/C40M-20 Cl. 10.1	P
		Determination of Chloride Content in Hardened Concrete		BS 1881-124:2015+A1:2021 Cl.12.1	
		Determination of Sulphate Content in Hardened Concrete		BS 1881-124:2015+A1:2021 Cl.12.2	
		Sampling and Testing for Chloride ion in Concrete and Concrete Raw Materials		AASHTO T 260-21 Method 1	
	Emulsified Asphalt	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)		ASTM D445-21e2	P
		Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester		ASTM D93-20	



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Chemical Testing	Emulsified Asphalt	Standard Test Method for Settlement and Storage Stability of Emulsified Asphalts	ASTM D6930-19	P
	Bitumen	Determination of Flash Point	ASTM D3143/D3143M-19	P
		Determination of Flash Point	AASHTO T79-12 2020	
		Distillation	ASTM D402/D402M -14	
		Solubility in Trichloroethylene	ASTM D2042 -22	
		Solubility in Trichloroethylene	AASHTO T 44 -14 (2018)	
		Water Content	ASTM D95-13(2018)	
		Specific Gravity	ASTM D6937-16	
		Saybolt Furol Viscosity	ASTM D7496 -18	
		Saybolt Furol Viscosity	AASHTO T 72 -10(2019)	
		Storage Stability	ASTM D6930 -19	
		Distillation	ASTM D6997-12 (2020)	
		Distillation	AASHTO T59-16(2021)	
		Specific Gravity	ASTM D70/D70M-21	
Flash Point	ASTM D92-18			
Paint	Standard Test Method for Density of Liquid Coatings, Inks, and Related Products (Density)	ASTM D1475-13(2020)	P	



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Chemical Testing	Paint	Standard Test Method for Density of Liquid Coatings, Inks, and Related Products (Specific Gravity)	ASTM D1475-13(2020)	P
		Determination of Volatile content	ASTM D2369-20	
		Determination of Non Volatile content	ASTM D2369-20	
	Polyethylene (PE)	Standard Test Method for Carbon Black Content by Calcination and Pyrolysis	ISO 6964:2019	P
		Standard Test Method for Carbon Black Content in Olefin Plastics	ASTM D1603-20	
		Method for the assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds	ISO 18553:2002	
		Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry	ASTM D3895-19	
	Plastics	Resistance to Chemical Reagents	ASTM D543-21	P
	Chemical Analysis of Joint Filler Board	Determination of Asphalt Content	ASTM D545-19	P



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Admixture	Determination of Solids content	ASTM C494/C494M-19	P
		Determination of Specific Gravity	ASTM D891-18; Method B	
		Determination of Water-Soluble Chloride	BS EN 480-10:2009	
		Determination of pH	ASTM D2110-00(2022) Procedure B	
	GRP	Ignition Loss	ASTM D2584-18	P
	Ceramic Tiles	Stain Resistance	BS EN ISO 10545-14:2015	P
		Chemical Resistance	BS EN ISO 10545-13:2016	
		Ceramic Tiles-Scratch Hardness of surface according to MOHS	EN 101:1991	
	PVC Pipes	Resistance to dichloromethane	BS EN 580:2003	P
		Resistance to Acetone	BS 3506:1969 Appendix B	
		Resistance to Sulfuric Acid	BS 3506:1969 Appendix C	
	Micro Silica	Moisture Content	ASTM C311/C311M-22	P
		Loss on ignition	ASTM C311/C311M-22	
	Cement (OPC/SRC/MSRPC/GGBS)	Heat of hydration	BS 4550-38 : 1978	P
		Loss on ignition	ASTM C114-18 / BS EN 196-2:2013	
Moisture Content		ASTM C114-18 / BS EN 196-2:2013		



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Chemical Testing	Cement (OPC/SRC/MSRPC/GGBS)	Chloride	ASTM C114-18 / BS EN 196-2:2013	P
		Sulfate	ASTM C114-18 / BS EN 196-2:2013	
		Insoluble Residue	ASTM C114-18 / BS EN 196-2:2013	
	Water/Waste Water	Determination of Boron (B)	HACH 8015	P
		Determination of Nitrate (NO ₃)	HACH 8039	
		Determination of Nitrogen Ammonia (NH ₃ -N)	HACH 8038	
		Determination of Fluoride	HACH 8029	
		Determination of Phosphorous Reactive	HACH 8178	
	Water	Determination of pH	ASTM D1293-18	P
		Determination of Total Dissolved Solids@ 180C	ASTM D5907-18	
		Determination of Chloride	ASTM D512-12	
		Determination of Sulphate	ASTM D516 -16	
		Acidity /Alkalinity of Water	ASTM D1067-16	
	Potable/Drinking Water	pH	APHA AWWA 23 rd Ed 2017, 4500 H ⁺ B	P
		Electrical Conductivity @25°C	APHA AWWA 23 rd Ed 2017, 2510B	



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Potable/Drinking Water	Total Dissolved Solids @180C	APHA AWWA 23 rd Ed 2017, 2540C	P
		Total Suspended Solids	APHA AWWA 23 rd Ed 2017, 2540D	
		Chloride	APHA AWWA 23 rd Ed 2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed 2017, 4500 SO ₄ ²⁻ C, HACH 8051	
		Calcium	APHA AWWA 23 rd Ed 2017, 3500 Ca B	
		Magnesium	APHA AWWA 23 rd Ed 2017, 3500 Mg B	
		Total Hardness	APHA AWWA 23 rd Ed 2017, 2340C	
		Total Alkalinity to 4.4	APHA AWWA 23 rd Ed 2017, 2320B	
	Sea Water	pH	APHA AWWA 23 rd Ed 2017, 4500H ⁺ B	P
		Total Dissolved Solids@180C	APHA AWWA 23 rd Ed 2017, 2540C	
		Total Suspended Solids	APHA AWWA 23 rd Ed 2017, 2540D	
		Chloride	APHA AWWA 23 rd Ed 2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed 2017, 4500SO ₄ ²⁻ C	
		Chemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5220B	
Biochemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5210D			



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Sea Water	Oil and Grease	APHA AWWA 23 rd Ed 2017,5520B	P
	Waste Water	pH	APHA AWWA 23 rd Ed 2017, 4500H ⁺ B	P
		Total Dissolved Solids@180C	APHA AWWA 23 rd Ed 2017, 2540C	
		Total Suspended Solids	APHA AWWA 23 rd Ed 2017, 2540D	
		Oil and Grease	APHA AWWA 23 rd Ed 2017,5520B	
		Chemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5220B	
		Biochemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5210B	
	Ground Water	pH	APHA AWWA 23 rd Ed 2017, 4500H ⁺ B	P
		Total Dissolved Solids@180C	APHA AWWA 23 rd Ed 2017, 2540C	
		Chloride	APHA AWWA 23 rd Ed 2017, 4500 Cl B	
		Sulphate	APHA AWWA 23 rd Ed 2017, 4500 SO ₄ ²⁻ C	
		Total Suspended Solids	APHA AWWA 23 rd Ed 2017, 2540D	
		Oil and Grease	APHA AWWA 23 rd Ed 2017,5520B	
	Water and Waste Water	Chemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5220B	P
		Biochemical Oxygen Demand	APHA AWWA 23 rd Ed 2017, 5210B	



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Chemical Testing	Water and Waste Water	Sodium (Na)	APHA 3120B & 3030E 23rd Edition 2017	P
		Potassium (K)	APHA 3120B & 3030E 23rd Edition 2017	
		Cadmium (Cd)	APHA 3120B & 3030E 23rd Edition 2017	
		Copper (Cu)	APHA 3120B & 3030E 23rd Edition 2017	
	Water and Waste Water	Zinc (Zn)	APHA 3120B & 3030E 23rd Edition 2017	P
		Chromium (Cr)		
		Lead (Pb)		
		Manganese (Mn)		
		Iron (Fe)		
		Arsenic (As)		
		Selenium (Se)		
		Silver (Ag)		
		Aluminum (Al)		
		Boron (B)		
		Barium (Br)		
		Calcium (Ca)		
		Cobalt (Co)		
Iron (Fe)				



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Chemical Testing	Water and Waste Water	Lithium (Li)	APHA 3120B & 3030E 23rd Edition 2017	P
		Magnesium (Mg)		
		Nickel (Ni)		
		Strontium (Sr)		
		Thallium (Tl)		
	Sediments, Sludges, & Soils	Sodium (Na)	APHA 3120B & 3030E 23rd Edition 2017	P
		Potassium (K)		
		Cadmium (Cd)		
		Copper (Cu)		
		Zinc (Zn)		
		Chromium (Cr)		
		Lead (Pb)		
		Manganese (Mn)		
		Iron (Fe)		
		Arsenic (As)		
		Selenium (Se)		
		Silver (Ag)		
		Aluminum (Al)		
		Boron (B)		
Barium (Br)				



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Chemical Testing	Sediments, Sludges, & Soils	Calcium (Ca)	APHA 3120B & 3030E 23rd Edition 2017	P
		Cobalt (Co)		
		Iron (Fe)		
		Lithium (Li)		
		Magnesium (Mg)		
		Nickel (Ni)		
		Strontium (Sr)		
		Thallium (Tl)		
Environmental Monitoring	Indoor Air Quality Monitoring for Gases	Measurement of Airborne pollutants Indoor Air for Temperature	ISTL-SOP-EM-001 Rev00 dated 10-08-2021	S
		Relative Humidity		
		Nitrogen Dioxide (NO ₂)		
		Ammonia (NH ₃)		
		Sulphur Dioxide (SO ₂)		
		Formaldehyde (CH ₂ O)		
		Carbon monoxide (CO)		
		Hydrogen Sulphide (H ₂ S)		
		Oxygen (O ₂)		
		Ozone (O ₃)		
		Carbon Dioxide (CO ₂)		



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Environmental Monitoring	Indoor Air Quality Monitoring for Gases	Total Volatile Organic Compound (VOC)	ISTL-SOP-EM-002 Rev00 dated 10-08-2021	S
	Indoor Air Quality Monitoring for Particulate Matter	Determination of Airborne Particulate Matter (PM) of Size PM10, PM7, PM4, PM2.5, PM1 (Indoor)	ISTL-SOP-EM-001 Rev00 dated 10-08-2021 In Combination with USEPA, SECTION 01 81 09 & BS EN 60079-29-2:2015	S
	Stack Emission Gas Monitoring	Determination of Nitrogen Oxides, CO, CO2, SO2, O2, AND CxHy Emissions from stationery and combustion sources, boilers and incinerators using portable flue gas analyzers	ISTL-SOP-EM-007 Rev01 dated 02-07-2022 In Combination with CTM 034, 40 CFR 60. Appendix A to Part 60, Method 1:2020, Method 7E:2020 & ASTM D6522-20	S
	Ambient Air Quality Monitoring for Gases	Determination of Ambient Air Quality Sulphur Dioxide (SO ₂)	ISTL-SOP-EM-004 Rev00 dated 10-08-2021 In Combination with US-EPA Emission Monitoring Centre Conditional Testing Methods & BS EN 60079-29-2:2015	S
		Nitrogen Dioxide (NO ₂)		
		Ozone (O ₃)		
		Carbon Monoxide (CO)		
		Hydrogen Sulphide (H ₂ S)		
Ammonia (NH ₃)				
TSP				
Respirable Suspended Particulate Matter RSPM (10, 2.5)				



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Environmental Monitoring	Ambient Air Quality Monitoring for Gases	Temperature	ISTL-SOP-EM-004 Rev00 dated 10-08-2021 In Combination with US-EPA Emission Monitoring Centre Conditional Testing Methods & BS EN 60079-29-2:2015	S
		Relative Humidity		
		Wind Speed		
		Wind Direction		
	Environmental and Occupational Noise	Determination of Environmental and Occupational Noise	ISTL-SOP-EM-005 Rev00 dated 10-08-2021	S
	Illumination	Illumination level at work place	ISTL-SOP-EM-004 Rev00 dated 10-08-2021 In Combination with BS 667:2005	S
Microbiology	Water/Waste water [Raw water, Potable water, Treated water, clean water, Dialysis water, swimming pool water, chilled water, Ground water, Marine water, Bottled water & unbottled water]	Heterotrophic Plate Count	APHA 9215 B 23rd Edition 2017	P
		Enumeration of Total Coliforms	APHA 9222B 23rd Edition 2017	
		Enumeration of Fecal Coliforms (Thermotolerant)	APHA 9222D 23rd Edition 2017	
		Enumeration of Escherichia coli	APHA 9222 H & I 23rd Edition 2017	
		Enumeration of Pseudomonas aeruginosa	BS EN ISO 16266:2008	
		Enumeration of Enterococci (fecal streptococci)	BS EN ISO 7899-2:2000	
Enumeration of Legionella spp (MATRIX A & B)	ISO 11731:2017 Matrix A- Procedure No.5 & 7 Matrix B- Procedure No.8,9,10			



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Microbiology	Water/Waste water [Raw water, Potable water, Treated water, clean water, Dialysis water, swimming pool water, chilled water, Ground water, Marine water, Bottled water & unbottled water]	Detection of Helminth Ova (Treated & Waste Water, Sludge)	ISTL-SOP-MB-013, Issue 01, Rev.00, 20 Dec. 2021	P	
		Detection of Bacterial Endotoxin (Gel clot method)	ISTL-SOP-MB-014 Issue 01, Rev.00, 20 Dec. 2021		
		Detection of Salmonella species & confirmation	ISTL-SOP-MB-015, Issue 01, Rev.00, 20 Dec. 2021		
	Water/waste water	Water Sampling - Microbiology	ISTL-SOP-MB-001, Issue 01, Rev.00, 20 Dec. 2021	P	
		Water Sampling - Legionella	ISTL-SOP-MB-002, Issue 01, Rev.00, 20 Dec. 2021		
	Food		Total plate count(Aerobic plate count)	CMMEF Chapter 8 (5 th Edition)	P
			Enumeration of Yeasts & Molds	CMMEF Chapter 21 (5 th Edition)	
			Enumeration of Enterobacteriaceae	ISO 21528:2:2017	
			Enumeration of Coliform	ISO 4832:2006	
	Food (Dairy products, Sea foods, Non-sea foods, Ready to eat foods, Juice, Cereals, Pulses, Nuts, Spices, Canned foods, Meat, Herbs, Fish (Raw, Processed and Frozen food samples) & Animal feed		Enumeration of E. coli	ISO 16649:2:2001	P
Enumeration of Staphylococcus aureus (Coagulase positive)			ISO 6888-1:2021		



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Microbiology	Food (Dairy products, Sea foods, Non-sea foods, Ready to eat foods, Juice, Cereals, Pulses, Nuts, Spices, Canned foods, Meat, Herbs, Fish (Raw, Processed and Frozen food samples) & Animal feed	Detection of Salmonella species	ISO 6579-1:2017/Amd 1:2020	P
		Enumeration of Listeria monocytogenes	ISO 11290-2:2017	
		Detection of Listeria spp	ISTL-SOP-MB-016, Issue 01, Rev.00, 20 Dec. 2021	
		Enumeration of Clostridium perfringens	ISO 7937:2004	
		Enumeration of Bacillus cereus	CMMEF Chapter 31.6 (5 th Edition)	
		Detection of Campylobacter spp	ISTL-SOP-MB-017, Issue 01, Rev.00, 20 Dec. 2021	
		Detection of E. coli 0157: H7	AOAC 2000.14	
		Food Sampling	ISTL-SOP-MB-03, Issue 01, Rev.00, 20 Dec. 2021	
	Sea food & non-Sea food products	Detection of Vibrio parahaemolyticus	ISO 21872-1:2017	P
	Food (Chilled & Ambient products)	Accelerated Shelf-life study	ISTL SOP-MB- 066, Issue 01, Rev.00, 20 Dec. 2021	P
Swab (Hand Swab & Surface Swab)	Total plate count (Aerobic Plate count)	CMMEF Chapter 8 (5 th Edition)	P	
	Enumeration of Yeasts & Molds	CMMEF Chapter 21 (5 th Edition)		
	Enumeration of Coliform	ISO 4832:2006		
	Enumeration of Enterobacteriaceae	ISO 21528:2:2017		



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Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Microbiology	Swab (Hand Swab & Surface Swab)	Enumeration of E. coli	ISO 16649:2:2001	P
		Enumeration of Staphylococcus aureus (Coagulase positive)	ISO 6888-1:2021	
		Swab Sampling (Hand & Surface)	ISTL-SOP-MB-04, Issue 01, Rev.00, 20 Dec. 2021	
	Air (Indoor Air)	Total Bacterial count	CMMEF Chapter 3 (5 th Edition) & ISTL SOP-MB-36	P
		Yeasts & Molds	CMMEF Chapter 3 (5 th Edition) & ISTL SOP-MB-37, Issue 01, Rev.00, 20 Dec. 2021	
		Microbial Air Sampling	ISTL SOP-MB-005, Issue 01, Rev.00, 20 Dec. 2021	
END				