



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

WIMPEY LABORATORIES - LLC

RUSAYL INDUSTRIAR ESTATE, ROAD NO. 22
MUSCAT, 133, OMAN

Testing Laboratory TL-491

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

Effective Date March 10, 2024



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

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

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WIMPEY LABORATORIES - LLC

www.wimpeylab.com

Contact Name Mohan Kumar

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Accredited to ISO/IEC 17025:2017

Effective Date March 10, 2024

Chemical	
AASHTO T267	Standard method of test for determination of organic content in soils by loss of ignition
ASTM C40/C40M	Standard test method for organic impurities in fine aggregates for concrete
ASTM C114	Standard test method for chemical analysis of hydraulic cement
BS 812-117	Testing aggregates- method for determination of water soluble chloride salts
BS 812-118	Testing aggregates-methods for determination of sulphate content
BS 1377-3	Methods of test for soils for civil engineering purposes - Chemical and electro-chemical tests (clauses 3, 5, 6, 7.2, 7.3, 8 and 9) Clause 3 Determination of organic matter Clause 5.2 Acid soluble sulphate Clause 5.3 Water soluble sulphate Clause 6 Determination of carbonate content Clause 7.2 Water soluble chloride Clause 7.3 Acid soluble chloride Clause 8 Total dissolved solids Clause 9 Determination of pH value
BS 1881-124	Testing concrete - methods for analysis of hardened concrete Clause 10.2 Determination of chloride content, Clause 10.3 Determination of sulphate content
BS EN 196-2	Chemical Analysis of cement Clause 7 Determination loss on ignition Clause 8 Determination sulphate content Clause 9 Determination of residue insoluble Clause 13.10 Determination iron (III) oxide Clause 13.11 Determination of aluminium oxide Clause 13.14 Determination of calcium oxide Clause 13.15 Determination of magnesium oxide Clause 13.5 Determination of silica Clause 13.6 Determination of pure silica Clause 14 Determination of chloride Clause 17.4 Determination of alkali content
BS EN 1744-1	Tests for chemical properties of aggregates - chemical analysis Clause 7 Determination of water soluble chloride Clause 10 Determination of water soluble sulphate Clause 12 Determination of acid soluble sulphate
HACH 8029	Fluoride (SPADNS method)
HACH 8039	Nitrate (cadmium reduction method)

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US Agriculture Hand Book 60	Determination of gypsum content in soil
USEPA 3050 B	Acid digestion of sediments, sludge, and soils
USEPA 6010 C ICP	Analysis by ICP OES for metals: aluminium (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), potassium (K), phosphorous (P), selenium (Se), silver (Ag), sodium (Na), strontium (Sr), tin (Sn), vanadium (V), zinc (Zn), titanium (Ti), thallium (Tl), silica (SiO ₂)
WL-CH-ML-002	Chemical analysis of rock ore by WD XRF
WL-CH-ML-003	Moisture content of rock ore
Water and Waste Water Analytical Chemistry	
APHA 3120 B/ICP	Water – metals by inductively coupled plasma (ICP OES) aluminium (Al), antimony (Sb), arsenic (As), barium (Ba), beryllium (Be), boron (B), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), lead (Pb), lithium (Li), magnesium (Mg), manganese (Mn), molybdenum (Mo), nickel (Ni), potassium (K), selenium (Se), silica (SiO ₂), silver (Ag), sodium (Na), strontium (Sr), tin (Sn), vanadium (V), zinc (Zn), titanium (Ti), thallium (Tl)
SMEWW (APHA) 2320	Alkalinity (method B)
SMEWW (APHA) 2340	Hardness (method C)
SMEWW (APHA) 2510	Conductivity
SMEWW (APHA) 2540	Solids (methods C and D)
SMEWW (APHA) 3500-Ca	Calcium (method B)
SMEWW (APHA) 3500-Mg	Magnesium (method B)
SMEWW (APHA) 4500-Cl	Chlorine (method B)
SMEWW (APHA) 4500-Cl ⁻ B	Chloride
SMEWW (APHA) 4500-F ⁻	Fluoride
SMEWW (APHA) 4500-H ⁺	pH value
SMEWW (APHA) 4500-NH ₃	Nitrogen (ammonia)
SMEWW (APHA) 4500-O ₂	Oxygen (dissolved) (method C)
SMEWW (APHA) 4500-SO ₄ ²⁻	Sulphate
SMEWW (APHA) 5210	Biochemical oxygen demand (BOD) (method B)
SMEWW (APHA) 5220	Chemical oxygen demand (COD)
Microbiology	
APHA 10200F	Enumeration of Phytoplanktons (Algae)
Bacteriological Analytical Manual (BAM):	Chapter 3, Aerobic plate count Chapter 5, Detection and enumeration of salmonella Chapter 9, Detection and enumeration of vibrio cholera and vibrio

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	parahaemolyticus Chapter 12, Detection and enumeration staphylococcus aureus Chapter 14, Detection and enumeration bacillus cereus Chapter 16, Enumeration of clostridium perfringens
CCFRA 1.1.1	Standard plate count (total viable count)
CCFRA 2.1.1	Enumeration of yeasts and moulds
CCFRA 2.2.1	Enumeration of coliforms: colony count technique
CCFRA 2.2.4	Enumeration of presumptive coliforms: membrane filtration technique
CCFRA 2.3.1	Enumeration of enterobacteriaceae: colony count technique
CCFRA 2.4.2	Enumeration of presumptive escherichia coli (E. coli): alternative colony count technique using chromogenic medium without membranes
CCFRA 2.5.2	Enumeration of pseudomonas aeruginosa: colony count technique
CCFRA 3.1.2	Detection and enumeration of salmonella: cultural method
CCFRA 3.2.3	Detection of listeria monocytogenes and other listeria species: cultural method using two enrichment stages.
CCFRA 3.2.4	Detection of listeria monocytogenes and other listeria species: cultural method using two enrichment stages one 48 hour enrichment stage
CCFRA 3.5.1	Enumeration of staphylococcus aureus: (coagulase positive staphylococci): colony count technique using baird-parker agar medium
CCFRA 3.6.1	Enumeration of clostridium perfringens: colony count technique
CCFRA 3.7.1	Enumeration of presumptive bacillus cereus: colony count technique
CCFRA 3.8.1	Detection of vibrio cholerae and Vibrio parahaemolyticus
CCFRA 3.9.1:2003	Detection and enumeration of Legionella spp in water: culture technique
ISO 11731 :2017	Legionella Analysis
MICRO-002-OMN	Microbiological air monitoring
MICRO-003-OMN	Swab analysis
SMEWW (APHA) 9213	Recreational waters (method B)-swimming pools 1) Heterotrophic plate count 2) Test for total coliforms 3) Test for fecal coliforms 4) Test for staphylococci or staphylococcus aureus 5) Test for pseudomonas aeruginosa 6) Test for streptococci or enterococci
SMEWW (APHA) 9215	Heterotrophic plate count (methods B & C) 1) Pour plate method 2) Spread plate method
SMEWW (APHA) 9221	Multiple-tube fermentation technique for members of the coliform group (method F)-escherichia coli procedure
SMEWW (APHA) 9222	Membrane filter technique for member of the coliform group (methods B, D and G)

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	Method B-standard total coliform membrane filter procedure Method D-fecal coliform membrane filter procedure method G-MF partition procedure (E. coli)
SOP Micro-019 OMN	Detection and enumeration of fecal streptococci
Thermal	
ASTM C518	Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
ASTM D2584	Test Method for Ignition Loss of Cured Reinforced Resins
Environmental	
BS 667	Light monitoring [direct instrument method-lux meter]: Lux level/ Illumination
ISO 9613-2	Noise monitoring [direct instrument method] Sound level dB(A) / dB(C)
ISO 21501-4	Indoor air quality [direct instrument method]: Particulate Matter (Mass mode) [PM 1, PM 2.5, PM 4, PM 7 & PM 10, TSPM] Particulate Matter (Count Mode) 0.05µm, 1.0µm, 5.0µm & 10µm
SOP WL -IP-EE-01	[Direct Instrument Method] Determination of hydrocarbons (CxHy) and hydrogen sulphide (H2S)
TESTO 350	Flue gas monitoring
USEPA 1	Determination of ambient temperature and flue gas temperature
USEPA 3A	Determination of oxygen (O2), carbon dioxide (CO2)
USEPA 6C	Determination of sulphur dioxide (SO2)
USEPA 7E	Determination of nitrogen oxides (NOx)
USEPA 10	Determination of carbon monoxide (CO)
Lubricating Oil	
Visual Examination	Appearance
ASTM D92	Flash Point Open Cup (°C)
ASTM D93	Flash Point (Closed Cup) °C
ASTM D95	Water Content by Distillation
ASTM D130	Corrosiveness to Copper by Copper strip test (Copper tip Classification)
ASTM D445	Kinematic Viscosity@40 °C
ASTM D445	Kinematic Viscosity@100 °C
ASTM D482	Ash Content
ASTM D893	Insolubles (Pentane and Toluene)
ASTM D974	Total Acid Number by Color indicator Titration
ASTM D1500	Colour (ASTM Colour Scale)
ASTM D2270	Viscosity Index
ASTM D3828	Flash Point Small Scale Closed Cup (°C)

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ASTM D5185	Wear Metals by ICP
ASTM D6304	Water content by Coulometric Karl Fischer Titration
ISO 4406	Particle count
Transformer Oil	
Visual Examination	Appearance
ASTM D92	Flash Point (Open Cup) °C
ASTM D93	Flash Point (Closed Cup) °C
ASTM D97	Pour Point °C
ASTM D445	Kinematic Viscosity@40 °C
ASTM D924	Dielectric Dissipation Factor (Power Factor), Resistivity
ASTM D971	Interfacial Tension
ASTM D974	Total Acid Number and Base Number by Color indicator Titration
ASTM D1500	Color (ASTM Color Scale)
ASTM D1533	Water Content
ASTM D1816	Dielectric Break Down(BDV)
ASTM D2500	Cloud Point °C
ASTM D3612 C	Dissolved Gas Analysis (DGA)
ASTM D4294	Sulphur Content by EDXRF
ASTM D6786	Particle Count
IEC 60156	Dielectric Break Down (BDV)
IEC 60247	Dielectric Dissipation Factor (Power Factor), Resistivity
IEC 60970	Particle Count
NAS 1638	Particle Count (NAS Code)
Diesel	
Visual Examination	Appearance
ASTM D86	Distillation of petroleum products at Atmospheric Pressure
ASTM D93	Flash Point (Closed Cup) °C
ASTM D95	Water Content by Distillation
ASTM D445	Kinematic Viscosity@40 °C
ASTM D1298	Density and Relative Density by Hydrometer method
ASTM D1500	Colour (ASTM Colour Scale)
ASTM D4294	Sulphur Content by EDXRF
Bitumen and Bituminous Emulsion	

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ASTM D5	Test Method for Penetration of Bituminous Materials
ASTM D6	Loss on Heating
ASTM D36/D36M	Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
ASTM D70	Density of Semisolid Bituminous material
ASTM D92	Flash Point (Open Cup) °C
ASTM D95	Water Content by Distillation
ASTM D113	Ductility of Bituminous material
ASTM D1754	Thin Film Oven Test
ASTM D2042	Solubility of Asphalt materials in Trichloroethylene
ASTM D3143	Flash Point (Tag Open Cup) °C
Cosmetics: Hair Shampoo	
GSO 395	Determination of pH Value
GSO 395	Determination of Non-Volatile Alcohol Soluble Matter
GSO/ISO 672	Determination of Moisture and Volatile Matter
Cosmetics: Toilet Soap	
GSO 1098	Determination of Water insoluble Matters content.
GSO 1098	Determination of Ethanol insoluble Matters content.
GSO 2018	Determination of Chlorides
GSO/ISO 684	Determination of Total Free alkali
Cosmetics: Hand Wash	
GSO 1098	Determination of Water insoluble Matters content.
GSO 1098	Determination of Ethanol insoluble Matters content
GSO 2018	Determination of Chlorides
Cosmetics: Hair Cream	
GSO 1155	Determination of pH Value
GSO 1155	Determination of Water Content
Cosmetics: Shaving Cream	
GSO 1098	Determination of Ethanol insoluble Matters content.
GSO 1116	Determination of Water insoluble Matter content.
GSO/ISO 672	Determination of Moisture and Volatile Matter
Cosmetics: Skin Cream	
GSO 1153	Determination of pH Value
GSO 1153	Determination of Water Content

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Food	
AOAC 920.87	Protein content
AOAC 922.06	Fat content
AOAC 923.03	Ash content
AOAC 925.10	Moisture content
AOAC 937.09	Sodium chloride
Other	
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D2563	Standard Practice for Classifying Visual Defects in Glass-Reinforced Plastic Laminate Parts