



Accreditation Scope

RAK LAB LLC ONE PERSON - BRANCH OF ABU DHABI, NAL 242
Testing Laboratory, (ISO/IEC 17025:2017)

Plot No : 92 , Musaffah M-13 , Abu Dhabi, United Arab Emirates , Abu Dhabi, United Arab Emirates

Issue Date: 08/10/2025
Issue No: 1

Expiry Date: 07/10/2028

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)
Civil engineering	Soil	Standard Penetration Test (SPT)	BS 1377-9:1990 - AMD8264:1995, Cl. 3.3	S
Civil engineering	Rocks	Soil and Rock Sampling	BS 5930:2015 +A1:2020, Sec 4, Cl.25	S
Civil engineering	Rocks	Description of Soil & Rock	BS 5930:2015 +A1:2020, Sec 6, Cl. 33 & 36	P/S
Civil engineering	Rock	Core Recovery (TCR,SCR)	BS 5930:2015 +A1:2020, Sec. 6, Cl 36	P/S
Civil engineering	Rock	Rock Quality Designation (RQD)	BS 5930:2015 +A1:2020, Sec. 6, Cl 36	P/S
Civil engineering	Rock	Unconfined Compressive Strength of Rock Core Specimen	ASTM D7012-23 Method C	P
Civil engineering	Rock	Preparation of Rock Core Specimens	ASTM D4543-19	P

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Civil engineering	Rock	Determination of Water (Moisture) Content of Soil & Rock by Mass	ASTM D2216-19	P
Civil engineering	Rock	Determination of the Point Load Strength Index of Rock	ASTM D5731-16	P
Civil engineering	Ground Water	Ground Water Level Measurement	BS 5930:2015 +A1:2020, Sec 4, Cl.52	S
Civil engineering	Ground Water	Ground Water Monitoring and Sampling	BS 5930:2015 +A1:2020, Sec 4, Cl. 26.4	S
Civil engineering	Soil	Determination of particle size distribution	BS 1377-2:2022, Cl 10 and BS EN ISO 17892-4:2016 Cl. 5.2	P
Civil engineering	Soil	Determination of particle size distribution - Hydrometer method	BS 1377-2:2022, Cl10 and BS EN ISO 17892-4:2016 Cl. 5.3	P
Civil engineering	Soil	Determination of liquid limit, plastic limits & Plasticity Index	BS 1377-2:2022, Cl 5.3 & Cl 6 and BS EN ISO 17892-12:2018+A2:2022, Cl 5.3, Cl 5.5 & Cl 6.5	P
Civil engineering	Soil	Determination of water content	BS 1377-2:2022, Cl 4.1 and BS EN ISO 17892-1:2014+A1:2022	P

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Civil engineering	Reporting	Ground Investigation Reporting	BS 5930:2015 +A1:2020, Sec.10	P
Construction materials and building	Soil	In-Situ Density by Sand Replacement (Large Pouring Cylinder)	BS 1377-9:1990 Amd 8264:1995, Clause 2.2	P
Construction materials and building	Soil	Dry Density-Moisture Content Relationship using 4.5 kg Rammer for Coarse and Medium Gravel Size Particles	BS 1377-2:2022, CI 11.5 & CI 11.6	P
Construction materials and building	Soil	Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D 1556/D1556M : 2024	P
Construction materials and building	Soil	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
Chemical	Soil	Water Soluble Sulphate Content Of Soil	BS 1377-3:2018+A1:2021, CI.7.2, 7.3 & 7.6	P

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Chemical	Soil	Acid Soluble Sulphate Content Of Soil	BS 1377-3:2018+A1:2021 Cl.7.2, 7.9 & 7.6	P
Chemical	Soil	Water Soluble Chloride Content of Soil	BS 1377-3:2018+A1:2021 Cl.9.2	P
Chemical	Soil	Acid Soluble Chloride Content of Soil	BS 1377-3:2018+A1:2021,Cl.9.3	P
Chemical	Soil	pH value of Soil	BS 1377-3:2018+A1:2021,Cl.12	P
Chemical	Ground Water	Sulphate Content of Ground Water	BS 1377-3:2018+A1:2021 Cl.7.2, 7.8 & 7.6	P
Chemical	Ground Water	Chloride Content of Ground Water	BS 1377-3:2018+A1:2021 Cl.9.2	P
Chemical	Ground Water	pH Value Content of Ground Water	BS 1377-3:2018+A1:2021 Cl.12	P
Construction materials and building	Aggregate	Particle Size Distribution (Wet & Dry Sieving)	BS 812-103.1:1985 Amd 6003:1989, Clause 7.2&7.3	P
Construction materials and building	Aggregate	Material Finer Than 75 Microns by Washing	ASTM C117-23	P
Construction materials and building	Aggregate	Particle Size Distribution	BS EN 933-1-2012	P

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Environment. Health protection. Safety	Indoor Air Quality	Total Suspended Particulate Matter (TSPM)	BS EN 481:1993 BS 6069-3.5:1993	S
Environment. Health protection. Safety	Indoor Air Quality	Respirable Suspended Particulate Matter PM 10, 2.5 & 1 (RSPM) / 0-10 µg/m ³	BS EN 12341:1999 BS EN 481:1993 BS EN 6069-3.5:1993	S
Environment. Health protection. Safety	Indoor Air Quality	Nitrogen Dioxide (NO ₂) / 0-100 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Sulphur Dioxide (SO ₂) / 0-20 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Volatile Organic Compound (VOC) / 0-100 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Methane (CH ₄) / 0-100 %	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Ammonia (NH ₃) / 0-50 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Carbon monoxide (CO) / 0-50 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S

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Environment. Health protection. Safety	Indoor Air Quality	Carbon Dioxide (CO ₂) / 0- 5000 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Hydrogen Sulphide (H ₂ S) / 0-50 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Oxygen (O ₂) / 0-25 %	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Ozone(O ₃) / 0-100 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Temperature/ -40 to 85°C	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Relative Humidity / 0-100%	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Indoor Air Quality	Formaldehyde (HCHO) / 0- 10 ppm	BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Total Suspended Particulate Matter (TSPM)	USEPA-e CFR: Title 40:Part 50:Sep 2012	S

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Environment. Health protection. Safety	Outdoor Air Quality	Respirable Suspended Particulate Matter (RSPM -PM 10) / 0 -10µg/m3	USEPA-e CFR: Title 40:Part 50:Sep 2012	S
Environment. Health protection. Safety	Outdoor Air Quality	Sulphur Dioxide (SO ₂) / 0- 20 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Nitrogen Dioxide (NO ₂) / 0-100 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Volatile Organic Compound (VOC) / 0-100 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Ozone (O ₃) / 0-100 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Ammonia (NH ₃) / 0- 50 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Carbon monoxide (CO) / 0-50 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S

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Environment. Health protection. Safety	Outdoor Air Quality	Carbon Dioxide (CO ₂) / 0- 5000 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Methane (CH ₄) / 0-100 %	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Oxygen(O ₂) / 0-25 %	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Outdoor Air Quality	Formaldehyde (HCHO) / 0-10 ppm	BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015	S
Environment. Health protection. Safety	Noise	Occupational Noise levels/0 - 140 dBA	ISO 1996-2:2017	S
Environment. Health protection. Safety	Noise	Personal Noise exposure / 0 - 140 dBA	ISO 9612:2009	S

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Environment. Health protection. Safety	Personal Dust Monitoring/ Exposure	Personal dust exposure - Respirable Suspended Particulate Matter (RSPM) / 0 - 10µg/m3	MDHS 14/3:2000	S
Environment. Health protection. Safety	Flue Gas	Carbon Monoxide (CO) / 0-3000 ppm	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999	S
Environment. Health protection. Safety	Flue Gas	Oxides of Nitrogen (NOx) / 0-1000 ppm	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999	S
Environment. Health protection. Safety	Flue Gas	Oxygen (O2) / 0-21 %	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999	S
Environment. Health protection. Safety	Flue Gas	Carbon Dioxide (CO2) / 0- 30 %	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999	S
Environment. Health protection. Safety	Flue Gas	Temperature / 0 – 1000 °C	USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017	S
Environment. Health protection. Safety	Flue Gas	Hydrogen Sulphide (H2S) / 0-500 ppm	USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017	S

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Environment. Health protection. Safety	Flue Gas	Hydro carbons (CxHy) / 0-5000 ppm	USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017	S
Environment. Health protection. Safety	Flue Gas	Sulphur Dioxide (SO ₂) / 0-1000 ppm	USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017	S
Environment. Health protection. Safety	Illuminance	Illuminance- Lux / 0 - 200000 Lux	BS EN 12464-1:2021	S
Environment. Health protection. Safety	Stack Emissions	Total Suspended Particles (TSP)	USEPA EMC Method 17: Sep 2017	S
Environment. Health protection. Safety	Stack Emissions	Moisture	US EPA EMC Method 4: Aug 2017	S
Environment. Health protection. Safety	Stack Emissions	Carbon Dioxide (CO ₂) / 0- 30 %	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep 1999	S
Environment. Health protection. Safety	Stack Emissions	Carbon Monoxide (CO) / 0-3000 ppm	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep 1999	S
Environment. Health protection. Safety	Stack Emissions	Oxides of Nitrogen (NOX) / 0-1000 ppm	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep 1999	S

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Environment. Health protection. Safety	Stack Emissions	Temperature / 1000°C	USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017	S
END				

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