

Accreditation Scope

Material Lab Testing Services L.L.C (NAL 038)
Testing Laboratory, (ISO/IEC 17025:2017)

Industrial Area, Mussafah M2, Abu Dhabi, UAE

Issue Date: 04-09-2020

Expiry Date: 03-09-2023

Issue No: 06

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)
Physical	Hardened Concrete	Method of normal curing of test specimens (20°C method)	* BS 1881-111 Amd. 9387:1997	P
		Methods for determination of density of hardened concrete	* BS 1881-114 Amd. 6721:1989	
		Method for determination of compressive strength of concrete cubes	* BS 1881-116 AMD. 6720: :1991	
		Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1:2012	
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Compressive strength of test specimens	BS EN 12390-3:2019	
		Density of hardened concrete	BS EN 12390-7:2019	
		Determination of Compressive Strength of Concrete Core	BS EN 12390-3:2019 BS EN 12504-1:2019	
		Determination of Initial Surface Absorption of Concrete	BS 1881-208:1996	
		Water Absorption Test	BS 1881-122:2011	
		Determination of Depth Penetration of Water Under Pressure	BS EN 12390-8:2019	
		Determination of Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202:2019	

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Physical	Soil	Determination of Dry Density Moisture Content Relationship using 4.5 kg Rammer for Coarse & Medium	BS 1377-4:1990, Test 3.5 & 3.6 AMD 13925-2002	P
		In-situ Density by Sand Replacement Method	BS 1377-9:1990, Cl. 2.1 & 2.2 AMD 8264 1995	
		California Bearing Ratio	BS 1377-4, Cl. 7.2 & 7.3 AMD13925-2002	
		Determination of Water (Moisture) Content of soil by mass	* BS 1377-2:1990, Cl. 3 AMD 9027- 1996	
Geotechnical	Soil	Determination of Cone Penetration Test (CPT)	* BS 1377-9:1990, Cl. 3.1 AMD 8264 1995	S
		Determination of Standard Penetration Test (SPT)	* BS 1377-9:1990, Cl. 3.3 AMD 8264 -1995	
		Acid Soluble Chloride Content of Soil	BS 1377-3:2018, Cl.9.3	P
		Acid Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl.7.6 & 7.9	
		Water Soluble Chloride Content of Soil	BS 1377-3:2018, Cl.9.2	
		Water Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl.7.3 &7.6	
	pH of Soil	BS 1377-3:2018, Cl.12.5		
	Water	pH of Ground Water	BS 1377-3:2018, Cl.12.5	
		Sulphate Content of Ground Water	BS 1377-3:2018, Cl.7.6 & 7.8	
		Chloride Content of Ground Water	BS 1377-3:2018, Cl.9.2	

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Geotechnical	Soil	Particle Size Distribution by Sieve Analysis	* BS 1377-2:1990, Cl. 9.2 & 9.3 Amd 9027:1996	P
		Particle Size Distribution by Hydrometer Method	* BS 1377-2:1990, Cl. 9.5 Amd 9027:1996	
		Liquid Limit, Plastic Limit, & Plasticity Index of Soils	* BS 1377-2:1990, Cl. 4.3, 4.4, 5.3 & 5.4 AMD 9027:1996	
		Soil Sampling	BS 5930:2015, Cl. 25	S
	Water	Ground Water Level Measurement	BS 5930:2015 - Section 4	S
		Ground Water Sampling	BS 5930:2015 - Section 4	
	Soil & Rock	Soil & Rock Description	BS 5930:2015 - Section 6	P
	Core	Core Recovery	BS 5930:2015 - Section 6	P
		Rock Quality Designation	BS 5930:2015 - Section 6	
		Unconfined Compressive Strength (UCS)	ASTM D 7012:2014 ^{e1} (Method C)	
		Preparation of Rock Core	ASTM D 4543-19	
		Determination of Water (Moisture) Content of soil and rock by mass	ASTM D 2216-19	
	Reporting	Code of Practice for Site Investigation Geotechnical Reporting	BS 5930:2015 - Section 10	P

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Non Destructive Testing	Concrete	Measurement of Velocity of Ultrasonic Pulses in Concrete	* BS 1881-203:1986 Amd. 6766:1991	S
		Determination of Pull Off Strength	BS 1881-207:1992, Cl. 8	
		Concrete Surface Hardness Test by Rebound Hammer	* BS 1881-202:1986	
		Pull out Test of Anchor	BS 8539-2012, Annex B3	
		Pull out Test of Rebar	BS 1881-207:1992, Cl. 7	
Chemical	Water & Waste Water	Determination of pH	APHA 4500 H:2017 23 rd edition	P
		Total Dissolved Solids	APHA 2540 C:2017 23 rd edition	
		Total Suspended Solids	APHA 2540 D:2017 23 rd edition	
		Silica	Silicomolybdate Hach method 8185 (MLD GMS 054)	
		Nitrogen, Ammonia	Salicylate Hach Method 8155 (MLD GMS 053)	
		Nitrite	Diazotization Hach Method 8507 (MLD GMS 051)	
		Nitrate	Cadmium Reduction Hach Method 8039 (MLD GMS 052)	

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Environmental	Ambient Air Monitoring	Total Suspended Particulate Matter (TSPM)	SOP-ENVT-010 based on US EPA-40 CFR, Part 50, Appendix -B (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	P / S
		Respirable Particulate Matter (RSPM)	SOP-ENVT-010 based on US EPA-40 CFR, Part 50, Appendix -J (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Non Respirable Particulate Matter (NRSPM)	SOP-ENVT-010 based on US EPA-40 CFR, Part 50, Appendix -B (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Sulphur Dioxide (SO ₂)	SOP-ENVT-009 based on US EPA –40 CFR 50 Appendix. A-2:2016 (Pararosaniline Method)	
		Nitrogen Dioxide (NO ₂)	SOP-ENVT-007 based on US EPA – Designated Equivalent Method No. EQN-1277-026:2003	
		Carbon Monoxide (CO)	SOP-ENVT-018 based on 40 CFR 50 Appendix C	S
		Carbon Dioxide (CO ₂)	SOP-ENVT-018 based on 40 CFR 50 Appendix C	

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Environmental	Ambient Air Monitoring	Ozone (O ₃)	SOP-ENVT-008 based on CBCP India, Vol. No. 1 (NAAQMS/36/2012-13)	P / S
		Ammonia (NH ₃)	SOP-ENVT-016 based on NIOSH 6015, CBCP India Vol. No.1	
	Indoor Air Monitoring	Particulate Matter µm size (PM0.3, PM0.5, PM1.0, PM2.5, PM5.0, PM10, TSP) in Indoor air	SOP-ENVT-013 based on ISO 14644-1:2015 (Issued on 15/08/2019, Rev no: 01)	S
		Sulphur Dioxide (SO ₂)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Nitrogen Dioxide (NO ₂)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Carbon Monoxide (CO)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Carbon Dioxide (CO ₂)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Oxygen (O ₂)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Ozone (O ₃)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Ammonia (NH ₃)	SOP-ENVT-013 based on ISO 14644-8:2013	
Hydrogen sulfide (H ₂ S)	SOP-ENVT-013 based on ISO 14644-8:2013			

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Environmental	Indoor Air Monitoring	Total VOC	SOP-ENVT-013 based on ISO 14644-8:2013	S
		Formaldehyde (HCHO)	SOP-ENVT-013 based on ISO 14644-8:2013	
		Temperature	SOP-ENVT-013 based on ISO 14644-8:2013	
		Humidity	SOP-ENVT-013 based on ISO 14644-8:2013	
	Microbial	Bio aerosol Sampling for Total Bacteria Count, Yeast & Mold Count	SOP-ENVT-012 based on NIOSH 800:1998 & ISO 16000-18:2011 Sampling Procedure only (Issued on 25/03/2019, Rev no: 01, 17/07/2019)	S
	Stack Monitoring	Determination of Stack Gas Velocity & Volumetric Flow Rate	SOP-ENVT-015 based on US EPA 1&2:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	S
		Determination of stack gas Moisture	SOP-ENVT-015 based on US EPA 4:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Determination of stack gas Pressure & Temperature	SOP-ENVT-015 based on US EPA 1&2:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	

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Environmental	Stack Monitoring	Determination of Particulate matter (TSP) Emission from stationary sources	SOP-ENVT-015 based on US EPA 17:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	P / S
		Determination of Sulphur Dioxide (SO ₂)	SOP-ENVT-014 based on US EPA-Method 6C: 2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	S
		Determination of Nitrogen Dioxide (NO ₂)	SOP-ENVT-014 based on US EPA-Method 7E :2018 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Determination of Oxygen (O ₂)	SOP-ENVT-014 based on US EPA-Method 3C :2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Determination of Carbon Dioxide (CO ₂)	SOP-ENVT-014 based on US EPA-Method 3C:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Determination of Carbon Monoxide (CO)	SOP-ENVT-014 based on US EPA-Method 10:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	
		Determination of Hydrocarbons	SOP-ENVT-014 based on US EPA-Method 3C: 2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	

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Physical	Noise Level	Acoustics-Description, measurement & assessment of Environmental Noise Part2: Determination of Environmental Noise levels	SOP-ENVT-004 based on ISO 1996-2:2017 (Issued on 25/03/2019, Rev no: 01, 15/08/2019)	S
		Acoustics- Determination of Occupational Noise Exposure	SOP-ENVT-004 based on ISO 1996-2:2017 (Issued on 25/03/2019, Rev no: 01, 15/08/2019)	
	Light Intensity	Illumination Level	SOP-ENVT-003 based on BS 667:2005(confirmed 2011), AS/NZS 1680.2.4:2017 (Issued on 25/03/2019, Rev no: 01, 15/08/2019)	S
	Heat stress	Determination of Heat Stress at work place	SOP-ENVT-002 based on OSHA Technical Manual 2017 Chapter 4, BS EN ISO 7243:2017 (Issued on 25/03/2019, Rev no: 02, 22/07/2020)	S
Geophysical	Rocks & Soil	Multichannel Analysis of Surface Waves (MASW)	In-house Method (ML GMS-0166)	S
		Seismic Cross Hole Testing	ASTM D4428:2014	
		Seismic Down Hole Testing	ASTM D7400:2017	
END				

* Standard is Superseded & Replaced