Accreditation Scope

Element Materials Technology ME Limited Abu Dhabi, NAL 058

Testing Laboratory, (ISO/IEC 17025:2017)

Plot 25 Umm Al Nar (Sas Al Nakhl), Abu Dhabi, UAE

Issue Date: 20.09.2022 **Expiry Date: 24-12-2024**

Issue No: 09

Laboratory accredited locations:

P1: Umm Al Nar (Sas Al Nakhl), Abu Dhabi.

P2: Taweelah B Power & Water Production Plant, Abu Dhabi.

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	Stack emissions	Total Particulate Matter - Sampling and monitoring 0-1000 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 5:2020	P1 - S
	Stack emissions	PAHs - Sampling 0 - 1 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021	P1 - S
	Stack emissions	Dioxins, Furans and PCB- Sampling 0-1 ng/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 23:2017	P1 - S
	Stack emissions	Heavy metals- As, Be, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Mo, Se, V, Zn- Sampling 0-5 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 29:2017	P1 - S
	Stack emissions	Hydrogen Chloride- Sampling 0-1000 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 26A:2020	P1 - S
	Stack emissions	Hydrogen Fluoride- Sampling 0-200 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 13B: 2017 and US EPA 26A:2020	P1 - S
	Stack emissions	Hydrogen Sulphide- Sampling 0-740 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 11:2017	P1 - S

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Environmental	Stack emissions	Hydrogen cyanide- Sampling 0-10 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA OTM 29, March 2011	P1 - S
	Stack emissions	Ammonia- Sampling 0-2000 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA CTM 27:1997	P1 - S
	Stack emissions	Sulphur dioxide (Wet Chemistry)-Sampling 0-2000 mg/m^3	In-house method- EMT-M-OP-SA-MD003 Issue 8, 6 Dec 2021 based on US EPA Method 6:2017	P1 - S
	Stack emissions	Sulphur dioxide - Sampling and monitoring 0-3000 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 8, 31 Mar 21 based on US EPA Method 6C:2017	P1 - S
	Stack emissions	Carbon Monoxide- Sampling and monitoring 0-5000 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 8, 31 Mar 21 based on US EPA Method 10:2017	P1 - S
	Stack emissions	Carbon dioxide- Sampling and monitoring 0-20%	In-house method-EMT-M-OP-SA-MD001 Issue 8, 31 Mar 21 based on US EPA Method 3A:2017	P1 - S
	Stack emissions	Oxides of Nitrogen (as NO_2)- Sampling and monitoring 0-2500 ppm	In-house method- EMT-M-OP-SA-MD001 Issue 8, 31 Mar 21 based on US EPA Method 7E:2018	P1 - S

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Environmental	Stack emissions	Oxygen - Sampling and monitoring 0-25%	In-house method-EMT-M-OP-SA-MD001 Issue 8, 31 Mar 21 based on US EPA Method 3A:2017	P1 - S
	Stack emissions	VOCs - Sampling and monitoring 0-10,000ppm	In-house method EMT-M-OP-SA-MD002 Issue 5, 29 Oct 2018 based on US EPA Method 25A:2017 using onsite FID instrument	P1 & S
	Stack emissions	Sulphur Dioxide, Carbon monoxide, Oxides of Nitrogen (as NO_2), Oxygen CO - 0 - 10000 ppm - Sampling and monitoring SO_2 - 0 - 5000ppm NO_x - 0 - 3000 ppm O_2 - 0 - 25 %	In-house method- EMT-M-OP-SA-MD022 Issue 3, 29 Oct 2018, based on EMC Conditional Test Method (CTM 30):1997	P1 & S
	Ambient Air Quality/Ambient Environnent	Carbon monoxide, Nitric oxide, Oxides of Nitrogen (NO/NO_2), Sulphur Dioxide, Ozone - Sampling and monitoring SO_2 - 0 - 200 ppb CO - 0 - 5 ppm NO_x - 0 - 2 ppm O_3 - 0 - 200 ppb	In-house method- EMT-M-OP-AA-MD002 Issue 3, 29 Oct 2018, Using AQMesh Analyzer - Sampling and monitoring	P1 & S

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Environmental	Ambient Air Quality / Ambient Atmosphere	TSP, PM1, PM2.5, PM10- Sampling and monitoring 0-6000 ug/m^3	In-house method- EMT-M-OP-AA-MD003 Issue 5, 25 Oct 2020, Using Turnkey Nephelometric analyzers (Osiris & Topas)	P1 & S
	Ambient Environment/ Workplace	Noise - Sampling and monitoring	In-house method- EMT-M-OP-NO-MD001 Issue 6, 21 Mar 21 Using Sound level meter	P1 & S
Chemical	Drinking water	pH	APHA/AWWA 4500-$^{+}$B; in-house method EMT-M-OP-TWL-MD301 (issue 3, dated: 04Aug 2021)	P2 - S
		Alkalinity	APHA/AWWA 2320B; in-house method EMT-M-OP-TWL-MD210 (issue 2, dated: 04Aug 2021)	
		Calcium and Calcium hardness	APHA/AWWA 3500-Ca B; in-house method EMT-M-OP-TWL-MD211A (issue 2, dated: 04Aug 2021)	
		Electrical Conductivity	APHA/AWWA 2510; in-house method EMT-M-OP-TWL-MD201 (issue 3, dated: 04Aug 2021)	
		Turbidity	APHA/AWWA 2130A; in-house method EMT-M-OP-TWL-MD203 (issue 2, dated: 04Aug 2021)	

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Chemical	Drinking water	Residual chlorine	APHA/AWWA 4500-Cl; in-house method EMT-M-OP-TWL-MD206 (issue 2, dated: 04Aug 2021)	P2 - S
		Total hardness	APHA/AWWA 2340C; in-house method EMT-M-OP-TWL-MD211 (issue 2, dated: 04Aug 2021)	
END				

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