Quality And Accreditation Institute

Centre for International Accreditation

Certificate of Accreditation

Reliable Laboratory Testing Services W.L.L

Building No. 364T, Road No.4807, Block No. 948, Lhassay,
Kingdom of Bahrain

has been assessed and accredited in accordance with the Standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing and Calibration Laboratories"

In the field of

Testing

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued compliance with the above standard & any other requirements specified by QAI.

QAI/CIA/TL/2026/0198

Valid from: **06 November 2026**

Valid until: **05 November 2028**

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current certificate and scope of accreditation by visiting our website: www.qai.org.in

Scope of Accreditation

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
1.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	Turbidity	APHA 2130 B/Turbidimeter
2.		Total Alkalinity as $CaCO_3$	APHA 2320 B/ Titrimetric
3.		Bicarbonate	
4.		Hardness	APHA 2340 C (Titrimetric)
5.		Conductivity	APHA 2510 B/Conductivity meter
6.		Total Solids Dried at 103–105°C	APHA 2540 B / Gravimetry
7.		Total Dissolved Solids Dried at 180°C	APHA 2540 C/ Gravimetry
8.		Total Suspended Solids Dried at 103–105°C	APHA 2540 D/ Gravimetry
9.		Fixed Solids	APHA 2540 E /Gravimetry
10.		Volatile Solids Ignited at 550°C	APHA 2540 E/ Gravimetry
11.		Total Solids in Solid and Semisolid Samples	APHA 2540 G/ Gravimetry
12.		Volatile Solids in solid and Semisolid Samples	APHA 2540 G/ Gravimetry

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Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
13.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	Fixed Solids in Solid and Semisolid Samples	APHA 2540 G/ Gravimetry
14.		Temperature	APHA 2550 B / Thermometer
15.		Calcium (Ca)	APHA 3500-Ca B / titrimetric
16.		Iron (Fe)	APHA 3500-Fe B/Spectrophotometry
17.		Magnesium (Mg	APHA 3500-Mg B/Calculation
18.		Chlorine (Residual), Cl_2	APHA 4500-Cl B/ titrimetric
19.			APHA 4500-Cl G/Spectrometry
20.		Chloride (Cl)	APHA 4500-Cl B /Titrimetric
21.		Cyanide (CN)	APHA 4500-CN C & E/Spectrometry
22.		Fluoride (F)	APHA 4500-F B and D/Spectrometry
23.		pH value	APHA 4500-H^+ B/pH Meter
24.		Total Nitrogen (TN)	APHA 4500-N C/Distillation/titrimetric

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
25.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	Kjeldahl Nitrogen (N_{org})	APHA 4500 $N_{(org)}$ B /Distillation/titrimetric
26.		Ammonia Nitrogen (NH_3-N)	Hach 8038/Distillation/Spectrometry
27.			APHA 4500 NH_3-N B & C/Distillation/titrimetric
28.		Nitrite Nitrogen (NO_2-N)	APHA 4500 NO_2^- B / HACH 8507/ Spectrometry
29.			Hach 8153 / Spectrometry
30.		Nitrate Nitrogen (NO_3-N)	APHA 4500 NO3- E/ Hach 8192 Spectrometry
31.			Hach 8171 /Spectrometry
32.		Oxygen (Dissolved)	APHA 4500 O-C
33.			APHA 4500 O-G
34.		Phosphorous (P)	APHA 4500 P – C /Spectrometry
35.			APHA 4500 P- E /Spectrometry
36.		Sulphide (S^{2-})	APHA 4500 S^{2-} F- /titrimetric

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
37.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	Silica (SiO_2)	APHA 4500 SiO_2 C / Spectrometry
38.			APHA 4500 SiO_2 D/ Spectrometry
39.		Sulphate (SO_4)	APHA 4500 SO_4 C Gravimetry
40.		Sulphate (SO_4)	APHA 4500 SO_4 -E/ Spectrometry
41.		Biochemical Oxygen Demand (BOD)	APHA 5210 B /Titrimetric
42.			APHA 5210 D /Respirometry
43.		Chemical Oxygen Demand (COD)	APHA 5220 C /Titrimetric
44.			APHA 5220 D /Spectrometry
45.		Total Organic Carbon (TOC)	APHA 5310 B/Total Carbon Analyzer
46.		Oil and grease	APHA 5520 B Gravimetry
47.		Hydrocarbons	APHA 5520 B and F-Gravimetry
48.		Phenols	APHA 5530 C and D/ Spectrometry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
49.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	Nitrogen, total kjeldahl (Nessler method)	HACH 8075-Distillation/Spectrometry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Residues and Contaminants in Water		
1.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	**Estimation of Following Elements:** Aluminium (Al) Arsenic (As) Antimony (Sb) Barium (Ba) Beryllium (Be) Boron (B) Calcium (Ca) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn) Mercury (Hg) Nickel (Ni) Phosphorus (P)0 Potassium (K) Molybdenum (Mo) Selenium (Se) Silicon (Si)	APHA 3125 B / ICPMS

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Residues and Contaminants in Water		
		Silver (Ag) Sodium (Na) Strontium (Sr) Thallium (TI) Vanadium (V) Zinc (Zn)	
2.	Construction water, drinking water, Ground water, Industrial water, Irrigation water, Packaged Drinking water, Packaged Natural Mineral Water, Water for Recreational Activities, Surface water, Swimming pool water, water from purifiers, Water for Boiler feed, Reagent Grade water, water for pharmaceutical purpose, Water for Reuse (Flushing, Landscape, Horticulture, Fire Fighting)	**Estimation of Following Elements:** Aluminium (Al) Arsenic (As) Antimony (Sb) Barium (Ba) Beryllium (Be) Boron (B) Calcium (Ca) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Lead (Pb) Lithium (Li) Magnesium (Mg) Manganese (Mn)	USEPA 200.8/ ICPMS

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Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Residues and Contaminants in Water		
		Mercury (Hg) Nickel (Ni) Phosphorus (P)0 Potassium (K) Molybdenum (Mo) Selenium (Se) Silicon (Si) Silver (Ag) Sodium (Na) Strontium (Sr) Thallium (TI) Vanadium (V) Zinc (Zn)	

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
1.	Municipal Solid wastes, soil/Sediments, used/waste oil, waste water (Effluents /Sewage), Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Turbidity	APHA 2130 B /Turbidimeter
2.		Total Alkalinity	APHA 2320 B/ Titrimetric
3.		Bicarbonate	APHA 2320 B/ Titrimetric
4.		Hardness	APHA 2340 C (Titrimetric)
5.		Conductivity	APHA 2510 B/Conductivity meter
6.		Total Solids	APHA 2540 B/ Gravimetry
7.		Total Dissolved Solids	APHA 2540 C / Gravimetry
8.		Total Suspended Solids	APHA 2540 D / Gravimetry
9.		Fixed Solids	APHA 2540 E / Gravimetry
10.		Volatile Solids	
11.		Total Solids in Solid and Semisolid Samples	APHA 2540 G/ Gravimetry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
12.	Municipal Solid wastes, soil/Sediments, used/waste oil, waste water (Effluents /Sewage), Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Volatile Solids in Solid and Semisolid Samples	APHA 2540 G/ Gravimetry
13.		Fixed Solids in Solid and Semisolid Samples	APHA 2540 G/ Gravimetry
14.		Temperature	APHA 2550 B / Thermometer
15.		Calcium (Ca)	APHA 3500-Ca B / titrimetric
16.		Iron (Fe)	APHA 3500-Fe B/Spectrophotometry
17.		Magnesium (Mg)	APHA 3500-Mg B/Calculation
18.		Chlorine (Residual), Cl_2	APHA 4500-Cl B/titrimetric
19.		Chlorine (Residual), Cl_2	APHA 4500-Cl G / Spectrometry
20.		Chloride (Cl)	APHA 4500-Cl B /Titrimetric
21.		Cyanide (CN)	APHA 4500-CN C&E /Spectrometry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
22.	Municipal Solid wastes, soil/Sediments, used/waste oil, waste water (Effluents /Sewage), Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Fluoride (F)	APHA 4500-F B and D /Spectrometry
23.		pH value	APHA 4500-H^+ B/pH Meter
24.		Total Nitrogen (TN)	APHA 4500-N C /Distillation/Spectrometry
25.		Kjeldahl Nitrogen (N_{Org})	APHA 4500 $N_{(org)}$ B /Distillation/titrimetric
26.		Ammonia Nitrogen (NH_3-N)	Hach 8038 /Distillation/Spectrometry
27.		Ammonia Nitrogen (NH_3-N)	APHA 4500 NH_3-N B & C/Distillation/titrimetric
28.		Nitrite Nitrogen (NO_2-N)	APHA 4500 NO_2^- B / HACH 8507/ Spectrometry
29.		Nitrate Nitrogen (NO_3-N)	APHA 4500 NO3- E/ Hach 8192/ Spectrometry
30.			Hach 8171/Spectrometry
31.		Oxygen (Dissolved)	APHA 4500 O-C
32.			APHA 4500 O-G
33.		Phosphorus (P)	APHA 4500 P – C /Spectrometry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
34.	Municipal Solid wastes, soil/Sediments, used/waste oil, waste water (Effluents /Sewage), Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)		APHA 4500 P- E /Spectrometry
35.		Sulphide (S^{2-})	APHA 4500 S^{2-} F- /Titrimetric
36.		Silica (SiO_2)	APHA 4500 SiO_2 C / Spectrometry
37.			APHA 4500 SiO_2 D/ Spectrometry
38.		Sulphate (SO_4)	APHA 4500 SO_4 C Gravimetry
39.		Sulphate (SO_4)	APHA 4500 SO_4- E/ Gravimetry
40.		Biochemical Oxygen Demand (BOD)	APHA 5210 B /Titrimetric
41.			APHA 5210 D /Respirometry
42.		Chemical Oxygen Demand (COD)	APHA 5220 C /Titrimetric
43.			APHA 5220 D /Spectrometry
44.		Total Organic Carbon (TOC)	APHA 5310 B/Total Carbon Analyzer
45.		Oil and grease	APHA 5520 B /Gravimetry
46.		Hydrocarbons	APHA 5520 B & F /Gravimetry

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
47.	Municipal Solid wastes, soil/Sediments, used/waste oil, waste water (Effluents /Sewage), Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)	Phenols	APHA 5530 C & D/ Spectrometry
48.		Nitrogen, total kjeldahl (Nessler method)	HACH 8075-Distillation/Spectrometry
49.		pH in Soil & Waste	US EPA Method 9045D/pH Meter
50.		n-Hexane Extractable Material (Hem) For Sludge, Sediment, And Solid Samples	USEPA Method 9071B/Gravimetry
51.		Toxicity characteristic leaching procedure (TCLP) - Extraction & analysis of metals: Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	US EPA Method 1311/USEPA Method 6020B/ICPMS

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Fertilizers		
1.	Bio-Fertilizer	Moisture	AOAC 967.03/Gravimetry
2.		Acid Insoluble Ash	AOAC 955.03/ Gravimetry
3.		Water-Holding Capacity	AOAC 973.08/Gravimetry
4.		Ash	AOAC 967.04/Ignition & Gravimetry
5.		pH	AOAC 973.04/pH Meter
6.		Organic Matter	AOAC 967.05/Ignition & Gravimetry
7.		Electrical Conductivity	BS EN 13038/ Conductivity meter

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Petroleum and Products		
1.	Petroleum & Petroleum Products	Standard test method for flash point and fire points by Cleveland open cup tester	ASTM D92/Open Cup Flash point tester
2.		Standard test methods for flash point by Penskly-Martens closed cup tester	ASTM D93/Closed Cup Flash point tester
3.		Standard test method for kinematic viscosity of transparent and opaque liquids (and calculation of dynamic viscosity @ 40°C)	ASTM D445/Viscosity Bath & Viscometer
4.		Standard test method for kinematic viscosity of transparent and opaque liquids (and calculation of dynamic viscosity @ 100°C)	ASTM D445/Viscosity Bath & Viscometer
5.		Standard test method for acid number of petroleum products by potentiometric titration	ASTM D664 /Potentiometric Titration
6.		Standard test method for determination of water in liquid petroleum products by Karl Fischer reagent	ASTM D1533/Karl Fischer Titrator
7.		Standard practice for calculating viscosity index from kinematic viscosity at 40 °C and 100 °C	ASTM D2270/Calculation

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Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Petroleum and Products		
8.	Petroleum & Petroleum Products	Standard test method for determination of water in petroleum products, lubricating oils, and additives by coulometric Karl Fischer titration	ASTM D6304 A/ Karl Fischer Titrator

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Chemical Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Atmospheric Pollution		
1.	Ambient Noise Levels (including Indoor)	Noise level Monitoring	ISO 1996-1 / Sound level Meter
2.			ISO 1996-2/ Sound level Meter
3.	Stack Emission Monitoring	Oxygen (O_2)	USEPA CTM 034/Electrochemical
4.		Carbon Monoxide (CO)	USEPA CTM-034/Electrochemical
5.		Carbon Dioxide (CO_2)	USEPA CTM-034/IR Sensor
6.		Nitrous Oxide (NO)	USEPA CTM-034/Electrochemical
7.		Hydrogen Sulphide (H_2S)	USEPA CTM-034/Electrochemical
8.		Nitrogen Dioxide (NO_2)	Automatic Calculation by Machine
9.		Oxides of Nitrogen (NOX)	
10.		Sulphur Dioxide (SO_2)	USEPA CTM-034/Electrochemical
11.		Hydrocarbons (HC)	USEPA CTM-034/ IR Sensor
12.		Temperature	Thermometer Sensor

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Biological Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Water		
1.	Water for drinking purpose, Water for irrigation purpose, Distilled/Demineralized Water, Drinking Water, Ground Water/Surface Water, Packaged drinking water, Packaged Natural Mineral Water, Water for Construction Purpose, Water for Industrial purpose, Water for Medicinal purposes, Water for Processed Food Industry, Water for Swimming Pool and Spas, Water for Boiler Feed, Reagent Grade Water, Water for Pharmaceutical purpose, Water for Reuse Purpose (Flushing, Landscape/Horticulture, Fire Fighting) and others	Enumeration of Escherichia coli and coliform bacteria	ISO 9308-1: 2014
2.		Heterotrophic plate Count @ 22°C	APHA 9215 B
3.		Heterotrophic plate count @ 37°C	
4.		Enumeration of culturable micro-organisms	ISO 6222

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Biological Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Food and Agricultural Products		
1.	Cereals and Cereal Products including Bakery products, Edible Ices, including sorbet (Ice candy), Bakery & Confectionary Products, Eggs & Egg Products, Fruits and Vegetables and their products including Nuts, Raisins and Seeds, Spices, Herbs, Condiments and other related products, Honey and other Bee products, Meat & Meat products, including Poultry, Poultry & Poultry products, Starch & Starch products Sugar, Jaggery and other sweetening agents, Sweets, Snacks and Savory products and others	Aerobic plate count	BAM Method, chapter-3
2.		Enumeration of Total Coliforms	BAM Method, chapter-4
3.		Enumeration of Escherichia Coli	
4.		Enumeration of Fecal Coliform	
5.		Yeasts & Molds	BAM Method, chapter-18
6.		Total Plate count	ISO 4833-2: 2013
7.		Detection and enumeration of Enterobacteriaceae	ISO 21528-2: 2017

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Biological Testing			
Sl. No.	**Product(s)/Material of Test**	**Specific Tests Performed**	**Test Method**
	Pollution and Environment		
1.	Effluents/Waste Water, Soil, Solid waste & Others	Heterotrophic plate count 22°C	APHA 9215 B
2.		Heterotrophic plate Count 37°C	
3.		Total coliforms	APHA 9222 B
4.	Swabs	Total Plate Counts in surface and hand swabs	ISO 18593 / ISO 4833-2
5.		Fungi (Yeast and Molds) in surface and hand swabs	ISO 18593 / BAM Chapter-18
6.	Air	Total plate counts	ISO 16000-18 & BAM Chapter-3
7.		Fungi (Yeast and Molds)	ISO 16000-17 & ISO 16000-18