



ACCREDITATION CERTIFICATE

LB-TEST-157

Emirates International Accreditation Centre

has accredited

DUBAI ELECTRICITY AND WATER AUTHORITY PJSC

DEWA CENTRAL LABORATORY

Jabel Ali Power Station Complex | Dubai | United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 08/06/2023 to 30/05/2026

Initial Accreditation Date: 01/06/2017




Amina Ahmed Mohammed
CHIEF EXECUTIVE OFFICER
APPROVAL



Accreditation Scope

Environmental Testing

LB-TEST-157

Dubai Electricity and Water Authority PJSC

DEWA Central Laboratory

Jabel Ali Power Station Complex

Dubai | United Arab Emirates

Issue no.: 07

Date: 08-06-2023

Valid to: 30-05-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Potable water	pH	APHA 4500 H+B
		Conductivity	APHA 2510 B
		Total dissolved solids (TDS)	APHA 2510 B (Calculation)
		Turbidity	APHA 2130 B
		Anions Br (≥ 0.05 mg/l) Cl (≥ 5 mg/l) SO ₄ (≥ 1 mg/l) F (≥ 0.05 mg/l) NO ₃ (≥ 0.05 mg/l)	APHA 4110 B
		Cations Ca (≥ 2 mg/l) Mg (≥ 0.5 mg/l) Na (≥ 5 mg/l) K (≥ 0.25 mg/l)	ASTM D6919

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Potable water	Alkalinity as CaCO ₃	APHA 2320B
		Determination of Metals by ICP MS Chromium, Nickel, Manganese, Aluminium, Lead, Cadmium, Copper, Zinc, Iron & Boron concentrations in water (Indium/Yttrium as internal standard)	APHA 3125 B
		Calcium Hardness & Total Hardness	ASTM D6919 (Calculation)
		Bicarbonate Alkalinity as HCO ₃ mg/L	APHA 2320 B
		Carbonate Alkalinity as CaCO ₃ mg/L	APHA 2320 B
		Free Carbon dioxide CO ₂ mg/L	APHA 4500 CO2D

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Potable water	Chloroform mg/L	USEPA 524.2
		Bromodichloromethane (BDCM) mg/L	USEPA 524.2
		Dibromochloromethane (DBCM) mg/L	USEPA 524.2
		Bromoform mg/L	USEPA 524.2
		Total THM	WHO Method
	Treated Sewage	Boron as B mg/L	US EPA 200.8
		Aluminium as Al mg/L	US EPA 200.8
		Chromium as Cr mg/L	US EPA 200.8
		Manganese as Mn mg/L	US EPA 200.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical Testing	Treated Sewage	Iron as Fe mg/L	US EPA 200.8
		Nickel as Ni mg/L	US EPA 200.8
		Copper as Cu mg/L	US EPA 200.8
		Zinc as Zn mg/L	US EPA 200.8
		Cadmium as Cd mg/L	US EPA 200.8
		Lead as Pb mg/L	US EPA 200.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Potable Water	Detection of Total Coliforms / 100ml	APHA 9223B 24 ^h Edition
		Detection of E. coli / 100ml	APHA 9223B 24 ^h Edition

Accreditation History		
Issue no.	Details	Date
07	Renewal of the accreditation and extension in scope	01-06-2023
06	Certificate validity was extended for 6 months from 01-06-2023 up to 30-11-2023	01-06-2023
05	Reissued due to a change in the laboratory's name (was formerly known as Dubai Electricity and Water Authority)	30-06-2022
04	Renewal accreditation from EIAC	22-11-2020
03	Extension in scope and first issuance under the name of EIAC (which was formerly known as DAC)	25/12/2019
02	Extension in scope	14-08-2018
01	Grant accreditation from Bubai Accreditation Center 'DAC'	01-06-2017

Accreditation Scope

Petroleum Petrochemical Testing

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in-service) Diesel fuel	Kinematic viscosity (40 °C , 100 °C)	ASTM D445
	Turbine Oil (in-service), Hydraulic oil (in-service)	Standard Practice for Calculating Viscosity Index from Kinematic Viscosity at 40°C and 100°C Viscosity Index	ASTM D2270 Calculation
	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in-service) Diesel fuel	Acid Number Method A	ASTM D664

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum & Petrochemical	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in-service)	Water Lubricating Oils by Coulometric Karl Fischer Titration	ASTM 6304
	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in-service) Diesel Fuel	Kinematic viscosity (40 °C, 100 °C) using Anton Parr Stabinger Automatic Viscometer SVM 3001.	ASTM D7042
	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in- service) Diesel fuel	Determination of Flash point	ASTM D93
Petroleum Products Testing	Turbine oil (in-service), Hydraulic oil (in-service), Transformer oil (in- service) Diesel fuel	Determination of Color	ASTM D1500

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum Products Testing	Petroleum Products	Determination of Density, Relative Density, and API Gravity of Liquids by Digital Density Meter at 15 °C	ASTM D4052
		Determination of Total Sulfur in Light Hydrocarbons, Spark ignition engine fuel ,oil by ultraviolet fluorescence	ASTM D5453
		Measurement of Lubricant Generated Insoluble Color Bodies in In-Service Turbine Oils using Membrane Patch Colorimetry	ASTM D7843

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum Products Testing	Petroleum Products	Determination of the particulate contamination level of a liquid sample by automatic particle counting using the light-extinction principle and coding the level of contamination by solid particles according to ISO 4406	ASTM D7647, and ISO 4406

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Type of Activity	Test Materials/Products	Test Name	Test Method
Petroleum Products Testing	Petroleum Products	Determination of Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration	ASTM D2896

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