



IMPERIAL

ENVIRONMENT RESEARCH LABORATORY

*Reliable Testing
for a Cleaner,
Greener Tomorrow*

COMPANY PROFILE

IMPERIAL ENVIRONMENT
RESEARCH LABORATORY

ENVIRONMENTAL TESTING
FOR A SAFER AND HEALTHIER FUTURE



ENVIRONMENTAL
TESTING



QUALITY
ASSURANCE



REGULATORY
COMPLIANCE



A CLEANER
TOMORROW



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Introduction

Imperial Environment Research Laboratory (IERL) is a professional environmental research, testing, and monitoring organization providing specialized laboratory and field-based environmental services to public and private sector organizations. IERL has expertise in environmental monitoring, laboratory testing, field investigations, environmental assessment, data analysis, and regulatory compliance, with a strong focus on accuracy, reliability, traceability, and quality assurance. Its qualified technical team undertakes environmental sampling, field measurements, laboratory analysis, data interpretation, and technical reporting in accordance with established SOPs, recognized analytical methods, and applicable regulatory requirements.

IERL is equipped with appropriate field monitoring instruments and laboratory facilities, supported by relevant calibration and quality-control documentation to ensure reliable and defensible results. The laboratory's services cover key environmental components, including ambient air quality, noise, water and wastewater quality, soil, and other project-specific parameters. IERL is committed to technical competence, data integrity, transparency, environmental responsibility, and regulatory compliance, providing credible environmental information that supports baseline assessment, environmental management, regulatory reporting, impact evaluation, and sustainable development.

Our Mission

We aim to be the most competitive and the most productive service organization in the world. Our core competencies in inspection, verification, testing and certification are being continuously improved to be best-in-class. They are at the heart of what we are. Our chosen markets will be solely determined by our ability to be the most competitive and to consistently deliver equal service to our customers all over the world.

Our Vision

We strive to be distinguished by our passion, integrity, entrepreneurship, and innovation. We have an innovative spirit as we strive to achieve our vision. These values guide everything we do and serve as the foundation for our organization.

What We Do

- Environment Testing (Ambient Air, Water, Wastewater, Stack & Boiler)
- Food Quality Testing
- Fuel Quality Testing
 - Coal
 - Pet coke
 - Biomass
- Metal Analysis (All type of metal chemical composition analysis.

IMPERIAL ENVIRONMENT & RESEARCH LABORATORY

We Offer

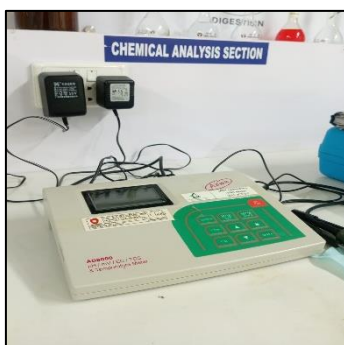
- Effluent/Waste water Testing
- Drinking Water Testing
- Industrial Gaseous Emission
- Motor Vehicle Exhaust & Noise
- Ambient Air Quality Monitoring
- Food & Microbiology
- Coal, Pet Coke Quality Testing
- Bio Fuel Testing
- Sugar Quality Testing
- Oil Quality Testing
- Solid Waste Testing
- Laboratory Training & Research
- Environment Guidance & Advisor



EFFLUENT/WASTEWATER TESTING FACILITIES

Testing of wastewater for early detection of disease, pollutants, and chemicals to proactively protect public health. By sampling and testing wastewater—a combination of household sewage, industrial runoff, and sometimes storm water.

1.Temperature	9.Chloride	17.Chromium	25.Arsenic
2.pH value	10.Fluoride	18.Lead	26.Barium
3.BOD	11.Cyanide	19.Mercury	27.Iron
4.COD	12.Detergents	20.Selenium	28.Manganese
5.TSS	13.Sulphide	21.Nickel	29.Boron
6.TDS	14.Ammonia	22.Silver	30.Chlorine
7.Grease & oil	15.Pesticides	23.Toxic metals	31. Sulphate
8.Phenol	16.Cadmium	24.Zinc	32.Copper



DRINKING WATER TESTING FACILITIES

Clean water is essential for drinking, as well as for use in food and beverage production. Only 3% of water in the world is fresh, but fresh water sources can contain chemical contaminants, like perfluorooctanoic acid (PFAS) and arsenic, as well as microbiological contaminants, and pathogens.

Even after the treatment process, residual chemicals and contaminants in drinking water can exceed safe and legal levels. Municipalities, private water treatment stations, and food and beverage production facilities must regularly test their water supply to ensure chemical and microbiological contaminant levels are kept at or below compliance levels set by regulatory agencies.

IERL DRINKING WATER TEST AS PER SEPA GUIDLINE

1. Coliform	9. Chloride	17. Chromium	25. Arsenic
2. Colour	10. Fluoride	18. Lead	26. Barium
3. Taste	11. Cyanide	19. Mercury	27. Iron
4. Odour	12. Detergents	20. Selenium	28. Manganese
5. Turbidity	13. Sulphide	21. Nickel	29. Boron
6. pH	14. Ammonia	22. Silver	30. Chlorine
7. Oil & grease	15. Pesticides	23. Toxic metals	31. Sulphate
8. Phenol	16. Cadmium	24. Zinc	32. Copper



INDUSTRIAL GASEOUS EMISSION

The industrial sector is considered one of the fastest-growing sources of greenhouse gases, due to the excessive consumption of energy required to cope with the growing production of energy exhaustive products. The statistical process monitoring (SPM) can be an effective tool for monitoring and controlling carbon emissions from industries.

Industrial pollutants (such as Sulphur oxides, nitrogen oxides, ammonium, particulates, methane, mercury, and other heavy metals) released by industrial plants into the air, water, and soil, threatening human health and the environment.

Following Test are available at IERL.

TEST PARAMETERS AS PER SEPA GUIDLINES

S.no	Paramaeter	Source of Emission
1.	Smoke	Smoke opacity not to exceed.
2.	Particulate Matter ¹	(a) Boilers and Furnaces I. Oil Fired II. Coal Fired III. Cement Kilns. (b) Grinding, Crushing, Clinker cokers and related processes, metallurgical processes, converters, blast furnaces furnaces and cupolas.
3.	Hydrogen Chloride ²	Any
4.	Chlorine ²	Any
5.	Hydrogen Fluoride ²	Any
6.	Hydrogen Sulphide ²	Any
7.	Sulphur Oxides	Sulfuric Acid / Sulfuric Acid Plants.
8.	Carbon Monoxide ⁴	Any



MOTOR VEHICLE EXHAUST & NOISE

Vehicle pollutants are hazardous to our health and contain greenhouse gases that contribute to climate change. Combustion of gasoline and diesel creates harmful by products include nitrogen dioxide, carbon monoxide, hydrocarbons, benzene, and formaldehyde.

VEHICLE INSPECTION AND VERIFICATION

For vehicle imports IERL offers a complete solution package. Our highly trained experts provide a customised service to our customers, including:

- Vehicle Emission Testing
- Safety and emissions inspections

IERL VEHICLE EXHAUST & NOISE AS OF SEPA

1. Carbon Monoxide	ND Infra-Red method	Max 6 %
2. Smoke	Ringlemann scale	Max 40 %
3. Noise	Sound Meter	Max 85 db(A)



AMBIENT AIR MONITORING

Ambient air monitoring is the systematic, long-term assessment of pollutant levels by measuring the quantity and types of certain pollutants in the surrounding air.

AMBIENT AIR MONITORING

Ambient air monitoring is an integral part of an effective air quality management system. Reasons to collect such data include to:

- Assess the extent of pollution;
- Provide air pollution data to the stakeholders in a timely manner;
- Support implementation of air quality goals or standards;
- Evaluate the effectiveness of emissions control strategies;
- Provide data for the evaluation of air quality models; and
- Support research (e.g., long-term studies of the health effects of air pollution).

AMBIENT AIR TESTING PARAMETERS

1. SO ₂	2. NO	3. NO ₂	4. O ₃
5. SPM	6. PM ₁₀	7. PM _{2.5}	8. CO
9. Lead			



Food Microbiological Testing Services

At IER Lab, we understand that the risk of microbiological contamination is a constant challenge for many businesses within the food supply chain. From our state-of-the-art laboratory facilities, our microbiologists use the latest methods to accurately test for the full range of potentially harmful food-borne micro-organisms, including pathogens like Salmonella, E.coli and Listeria, along with spoilage organisms such as Yeasts and Molds.

Tests Parameters of Sugar Quality as per ICUMSA

Taste	Coliforms
Smell	Salmonella
Color of the solution	Yeast and Mould
Moisture Content	Sulphur Dioxide (SO ₂)
Conductivity ash	Arsenic(As)
Polarization	Lead (Pb)
Invert Sugar Content	Copper (Cu)



Fuel Quality Testing (Biofuel, Coal & Pet coke)

Accurate and best practice methodologies must be employed in the analysis of energy materials and minerals at any stage of their production and distribution chain. Impartial and independent analysis plays a crucial role in ensuring the smooth functioning of the global Fuel Products. At IERL, we understand this importance and provide a comprehensive range of analytical testing & sampling services.

Tests:

Total Moisture	Total Sulfur
Ash Content	Gross Calorific Value
Volatile Matter	Net Calorific Value
Fixed Carbon	

SOLID WASTE TESTING

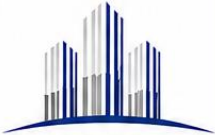
Element in a program designed to evaluate the physical and chemical properties of a solid waste is the plan for sampling the waste. It is understandable that analytical studies, with their sophisticated instrumentation and high cost, are often perceived as the dominant element in a waste characterization program. Yet, despite that sophistication and high cost, analytical data generated by a scientifically defective sampling plan have limited utility, particularly in the case of regulatory proceedings.

WASTE MANAGEMENT

The evaluation of static and dynamic properties of MSW is a prerequisite for the performance of any type of meaningful landfill stability calculations, but also in many aspects of landfill design, operation and post-closure development. Field testing techniques can provide valuable data on the in-situ behaviour of MSW properties under the specific conditions of the testing configuration. However, the constitutive behaviour of MSW can only be studied in depth by systematic laboratory testing under carefully controlled confining stresses, and composition of waste samples.



Our Major Clients

 <p>Nourishing Lives, Hearts & Communities</p>	 <p>Sindh Irrigation And Drainage Authority</p>	 <p>engrofertilizers</p>	 <p>TÜMAŞ TÜRK MÜHENDİSLİK MÜŞAVİRLİK VE MÜTEAHHİTLİK A.Ş. TÜMAŞ TURKISH ENGINEERING CONSULTING & CONTRACTING CO</p>
 <p>PAKISTAN OIL MILLS (PVT) LTD.</p>	 <p>THE WORLD BANK</p>	 <p>GOVERNMENT OF SINDH</p>	 <p>PAK-CHINA STEEL</p>
 <p>PLATINUM STEEL STRENGTH GUARANTEED</p>	 <p>NEXTAR CHEMPHARMA SOLUTIONS</p>	 <p>LARRI SUGAR MILLS LTD.</p>	 <p>HSM</p>
 <p>RAFIPUR SUGAR MILLS</p>	 <p>ALLIANCE SUGAR MILLS LIMITED</p>	 <p>FARAN SUGAR MILLS LTD.</p>	 <p>ARMY WELFARE TRUST</p>
 <p>PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION</p>	 <p>NATIONAL DEVELOPMENT (SUGAR MILLS) LIMITED</p>	 <p>MATIARI SUGAR MILLS LTD.</p>	 <p>CSCEC</p>



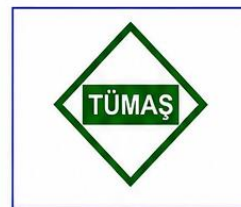
EBM
NOURISHING LIVES,
HEARTS & COMMUNITIES



SINDH IRRIGATION AND
DRAINAGE AUTHORITY



ENGRO FERTILIZERS



TÜMAŞ TÜRK MÜHENDİSLİK
MÜŞAVİRLİK VE MÜTEAHHİTLİK A.Ş.
TÜMAŞ TURKISH ENGINEERING
CONSULTING & CONTRACTING CO



PAKISTAN OIL MILLS
(PVT) LTD.



THE WORLD BANK



GOVERNMENT OF SINDH



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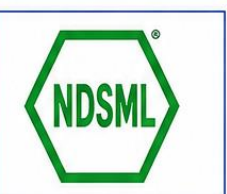
FARAN SUGAR
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PAKISTAN INDUSTRIAL
DEVELOPMENT CORPORATION



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(SUGAR MILLS) LIMITED

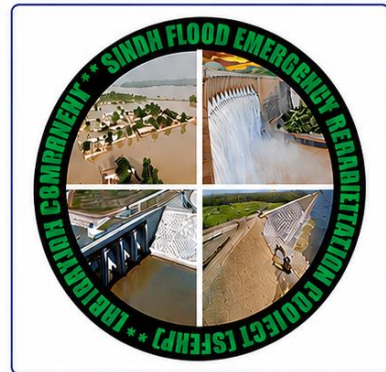


MATIARI SUGAR
MILLS LTD.

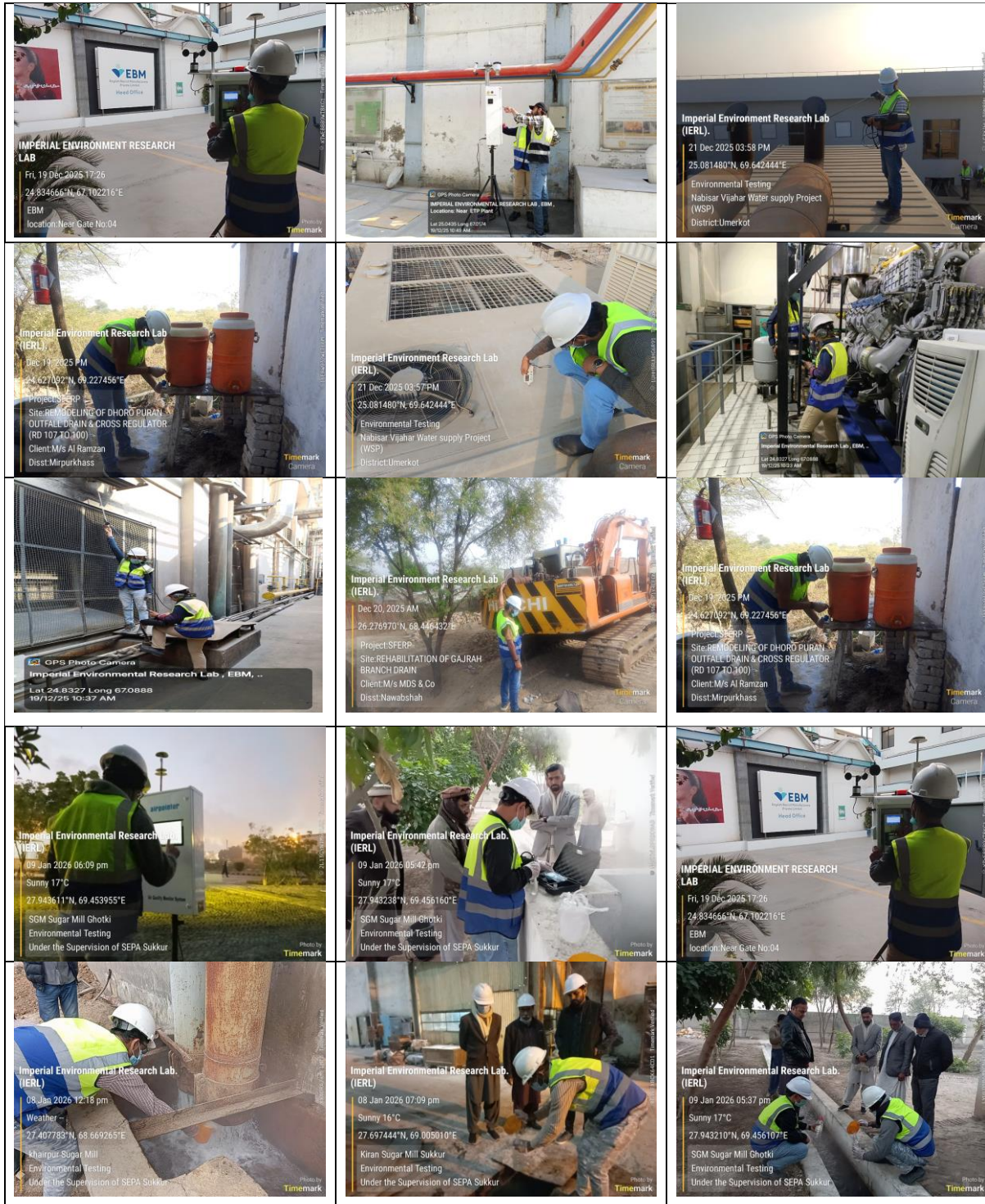


CSEEC

World Bank & ADB Funded Projects



FIED MONITORING



Certificate of Sindh Environment Protection Agency



Reference No. SEPA/ *Row/Lab/Drop/L-4/31/06/202*

SINDH ENVIRONMENTAL PROTECTION AGENCY GOVERNMENT OF SINDH

Plot # ST-21, Sector-3,
Korangi Industria Area, Karachi
Ph: 021-35065950, 35065958, 35065532
E mail : sepa.sindh.gov.pk

RENEWAL OF CERTIFICATE AS AN ENVIRONMENTAL LABORATORY

In exercise of power conferred by clause (k) of sub section (1) of section 6 of the Sindh Environmental Protection Act-2014, Environmental Protection Agency Sindh is pleased to certify the Laboratory mention below as an Environmental Laboratory.

Name: **M/S IMPERIAL ENVIRONMENTAL RESEARCH LABORATORY KARACHI.**
Address: 302-A, 3rd floor Al-Rahman center, Plot # A-31, Block 7, K.E. H.S.U, Shahrah-e-faisal Karachi.
Certificate: EPA/Lab/Certificate-01/31/2022

1. This Certificate is Conditional and Valid for testing of Parameter as per facilities mentioned in application:

- Liquid effluent/ waste water
- Portable Water
- Noise level
- Gaseous Emission
- Ambient Air Quality

2. This Certificate is Subject to Condition laid down in regulation 9 of the Sindh Environmental Quality Standards (Certification of Environmental Laboratories) Regulation, 2014.

3. This Certificate is valid for two (2) years w.e.f. 13-01-2025 to 12-01-2027 unless earlier suspended or revoked.

Dated of issue: 13/01/2025


Deputy Director (Lab)
SEPA, Karachi

Always Remember...Reuse, Reduce & Recycle



This is to certify that the Quality Management System of

Imperial Environmental Research Laboratory

Suit #712, 7th Floor, Anum Blessing, Block 7/8, K.C.H.S.U, Main Shahrah-e-Faisal,
Karachi - Pakistan

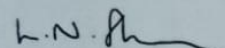
applicable to

**Environmental Monitoring, Testing, Coal Testing, Food Testing,
Environmental Compliance Services, Environmental Trainings**

has been assessed and registered by NQA against the provisions of

BS EN ISO 9001 : 2015

This registration is subject to the company maintaining a quality management system,
to the above standard, which will be monitored by NQA.


Managing Director

Certificate No: 120959
Issue Date: 30 October 2023
Reissued: 30 March 2026
Valid Until: 29 October 2026
EAC Code: 34



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CONTACT US

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Work time: 9:00 am - 6:00 pm (Mon-Sat)

