



GOVERNMENT OF THE PUNJAB
ENVIRONMENTAL PROTECTION AGENCY
National Hockey Stadium, Gate No. 10
Ferozpur Road, Lahore



CERTIFICATION AS AN ENVIRONMENTAL LABORATORY

In exercise of power conferred by clause (k) of sub section (1) of section 6 of the Punjab Environmental Protection Act 1997 (XXXIV of 1997), the Provincial Agency is pleased to certify the laboratory mentioned below as an Environmental Laboratory, for conducting tests & Analysis.

Name: -Global ECO Lab .

Address: -2nd and 3rd Floors 4-5 Commercial Area, Main Cavalry Ground, Lahore Cantt .

Certificate No. 179/DD(Lab)/EPA/2022 1-6-2022

1. This certification is valid as described below subject to fulfillment to the conditions of certification placed at **Annex-E**.
 - (a) Municipal & Liquid effluents as per **Annexure-A**.
 - (b) Drinking Water Quality as per **Annexure-B**.
 - (c) Motor Vehicle Exhaust and Noise for In Use Vehicles registered before 01.07.2012 (For Diesel vehicle) & 01.07.2009 (for Petrol Vehicle) as per **Annexure-C**.
 - (d) Ambient Noise as per **Annexure-D**.
2. This certification is subject to the conditions laid down in regulation 9 of the Certification of Environmental Laboratories Regulations, 2000 and QA/QC conditions contained in **Annex-E**.
3. This certificate is valid until 30.05.2025 unless earlier suspended or revoked.

Dated: 01/06/2022

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1. The Deputy Director (Labs) shall personally ensure timely monitoring & compliance



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ANNEXURE-A



Environmental Laboratory dispatch no. / Certificate no. 179 /DD(Lab)/EPA/2022 in respect of "Certification as an Environmental Laboratory" read with conditions at Annex-E in favor of Global ECO Lab, 2nd and 3rd Floors 4-5 Commercial Area, Main Cavalry Ground, Lahore Cantt.

Municipal & Liquid Industrial Effluents

No.	Liquid Effluent/Waste Parameters	Equivalent /Standard Method / SOP	Capacity per Month (No. of Samples)
1.	Temperature	APHA 2550 -B	156
2.	pH Value (H ⁺)	APHA 4500 H ⁺ B	300
3.	Biochemical Oxygen Demand (BODs) at 20°C	APHA 5210 D/ HACH 10099	20
4.	Chemical Oxygen Demand (COD)	APHA 5220 D/HACH 8000	50
5.	Chloride (as Cl ⁻), Fluoride (F ⁻)	APHA 4500 - Cl ⁻ C/HACH 8206, APHA 4500 - F ⁻ D/ HACH 8209	50 of each
6.	Total Suspended Solids(TSS), Total Dissolved Solids /TDS)	APHA 2540 D, APHA 2540 C	50 of each
7.	Cyanide (as CN ⁻) total, Chlorine (Cl ₂)	APHA 4500-CN ⁻ E/HACH 8207 HACH 8167	30 of each
8.	Anionic Detergents (as MBAS)	APHA 5540 C/HACH 8028	20
9.	Oil and Grease, Phenolic Compounds (as Phenol)	APHA 5520 B HACH 8047	20 of each
10.	Sulphide (S ²⁻), Ammonia (NH ₃), Sulphate (SO ₄ ²⁻)	APHA 4500- S ²⁻ /HACH 8131, APHA 4500-NH ₃ C/HACH 8038 , APHA 4500 - SO ₄ ²⁻ E/HACH 8051	50 of each
11.	Cadmium (Cd) Chromium (Cr) (trivalent and hexavalent), Copper (Cu), Lead (Pb), Mercury (Hg), Selenium (Se), Nickel, (Ni), Silver (Ag), Total Toxic Metals, Zinc (Zn), Arsenic (As), Barium (Ba), Iron (Fe), Manganese (Mn), Boron (B)	APHA 3113 B, APHA 3113 D, HACH 8015 (Boron)	100 of each Metal

Dated: 01/06/2022

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Director General

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ANNEXURE-B

Environmental Laboratory dispatch no. / Certificate no. 179 /DD(Lab)/EPA/2022 in respect of "Certification as an Environmental Laboratory" read with conditions at Annex-E in favor of Global ECO Lab, 2nd and 3rd Floors 4-5 Commercial Area, Main Cavalry Ground, Lahore Cantt.

DRINKING WATER QUALITY

No	Drinking Water Quality Parameters	Equivalent /Standard Method / SOP	Capacity per Month (No. of Samples)
Bacteria Test			
1.	E. Coli, Total Coliform	APHA 9221 C	30 of each test
Physical			
2.	Colour, pH	HACH 8000 APHA 4500 H+ B	100 of each test
3.	Taste, Odour, Turbidity, Total Hardness (as CaCO ₃), TDS	APHA 2160 B, APHA 2150 B, APHA 2130 B, APHA 2340 C/HACH 8213, APHA 2540 C	100 of each test
Essential Inorganic			
4.	Aluminum (Al), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Selenium (Se), Zinc (Zn), Total Toxic Metals	APHA 3113 B	150 of each metal
5.	Chloride (Cl ⁻)	APHA 4500-Cl ⁻ C/HACH 8206	50
Toxic Inorganic			
6.	Cyanide (CN ⁻), Fluoride (F ⁻), Nitrate (NO ₃ ⁻), Nitrite (NO ₂ ⁻), Residual Chlorine	APHA 4500-CN ⁻ E/HACH 8207, APHA 4500-F ⁻ D/HACH 8209, APHA 4500-NO ₃ ⁻ B/HACH 8039, APHA 4500-NO ₂ ⁻ B/HACH 8507, APHA 4500-Cl ⁻ B, APHA 4500-Cl ⁻ G	50 tests of each, 30 for CN ⁻ , 50 for Cl ₂
Organic			
7.	Phenolic Compounds (As Phenols)	HACH 8047	30

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ANNEXURE-C

Environmental Laboratory dispatch no. / certificate no. 179/DD(Lab)/EPA/2022 in respect of "Certification as an Environmental Laboratory" read with conditions at Annex-E in favor of Global ECO Lab, 2nd and 3rd Floors 4-5 Commercial Area, Main Cavalry Ground, Lahore Cantt.

MOTOR VEHICLE EXHAUST AND NOISE for IN USE VEHICLES REGISTERED BEFORE 01.07.2012 (For Diesel vehicle) & 01.07.2009 (for Petrol Vehicle)

No	MOTOR VEHICLE EXHAUST AND NOISE	Standard Method / Equipment Name	Capacity per Month (No. of Samples)
1	Noise	Noise Meter with Leq Function	30
2	Smoke Opacity	Ringelmann Scale	30

The lab shall also fulfill following QA/QC conditions imposed under regulation 9(c) along with conditions contained with Annex-E:-

- The Lab shall ensure calibration of noise calibrator.

Dated : 01/06/2022


Director General
For
Lahore
DD (Lab)



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ANNEXURE-D

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AMBIENT NOISE

No	Ambient Noise	Standard Method / Equipment Name	Capacity per Month (No. of Samples)
1	Ambient Noise	Noise Meter with Leq calculation Method	60

The lab shall also fulfill following QA/QC conditions imposed under regulation 9(c) along with conditions contained with Annex-E:-

- The Lab shall be bound to ensure compliance of mandatory requirements of QA/QC like Traceable and repeatable calibrations checks and verification as mentioned in the operating manual / USEPA protocol for permitted ambient testing. The quarterly calibration & annual performance shall be duly validated by EPA Lab, Lahore.

Dated: 01 / 06 / 2022

Z. Jafri
Director General
For
Said
DD(Lab)



ANNEXURE-E

Environmental Laboratory Certificate No 179 /DD(Lab)/EPA/ 2022 in respect of "Certification as an Environmental Laboratory" in favor of Global ECO Lab, 2nd and 3rd Floors 4-5 Commercial Area, Main Cavalry Ground, Lahore Cantt.

CONDITIONS OF CERTIFICATION

(1) The environmental laboratory shall:

- a. Comply with all relevant provisions of the Act and rules and regulations;
- b. carry out all tests and analyses, measurements, experimental studies and investigations with due diligence and in accordance with such guidelines, procedures and methods as may be stipulated by the Provincial Agency;
- c. carry out and maintain record of calibration of its equipment and apparatus;
- d. follow the quality control and quality assurance procedures established by the Provincial Agency and participate in performance, system audits, quality control and quality assurance programs organized by the Provincial Agency or a Provincial Agency;
- e. keep its premises neat and clean at all times;
- f. allow any member of the Committee or any officer of the Provincial Agency, duly authorized in this behalf, to enter and inspect equipment and apparatus used in conducting tests and analyses and the reports and records in respect thereof;
- g. retain records of all tests and analyses and measurements conducted by it for a period of three years from the date thereof;
- h. take adequate safety measures and precautions against fire hazards and accidents including provision of first-aid facilities;
- i. ensure availability in its store of adequate stocks of chemicals, back-up equipment and apparatus, and spare parts;

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- j. ensure that it fulfils the criteria laid down in regulation 5 at all times, and that if at any stage any equipment, apparatus or staff is required to be replaced, the replacement equipment, apparatus or replacement staff is of equivalent, or better, specifications, or qualifications and experience, respectively;
- k. display the certificate issued to it under regulation 8 and a list of its fees for various tests and analyses and measurements, at a prominent place in its premises; and
- l. submit to the Provincial Agency an annual report including a list of all tests and analyses conducted by it relating to the environment.
- (2) An environmental laboratory shall not, without the prior permission, in writing of the Provincial Agency:**
- a. Shift its location or remove any equipment or apparatus from its premises but the equipment or apparatus requiring repair or maintenance outside the premises may be removed for this purpose for a specific period under intimation to the Provincial Agency;
- b. Sub-contract any work to any other laboratory.
- (3) Certification of an environmental laboratory shall not be transferable to any other laboratory.**
- (4) The Environment Laboratory Shall:-**
- a. Ensure treatment of wastewater and air emission to bring within PEQS limits. EPA shall timely and randomly regulate the compliance of PEQS.
- b. EPA testing rates are prepared on the basis of fulfillment of complete QA/QC protocol and on no profit & no loss basis. Therefore, the Laboratory shall not charge less rates than the approved and notified rates of EPA for testing. The charging of less rates will be taken as compromise on QA/QC which is tantamount to the violation of Regulations 9(1)(b)(d). The Labs shall maintain complete traceability of its business against each and every test in the form of P.O, Invoice and shall be bound to submit the same to EPA Lab, Lahore on monthly basis.

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- c. Lab shall ensure compliance to regular supply or generation of reagent water to meet reagent water grade of Type-I & Type-II in accordance with latest ASTM Standards.
- d. Laboratory is certified for conducting tests and analysis under section 6(k) of PEPA 1997. The sampling will be conducted under Environment Sampling Rules, 2001. The sampling of wastewater will be validated by authorize officer of EPA which include Inspectors, RAs, ROs, ADs & DDs of EPA. The field tests of wastewater like pH, Temperature, etc will only be validated by EPA Lab representative not below the rank of RA. Similarly, the sampling, tests and analysis of ambient air monitoring, stack emission monitoring shall be validated only by EPA Lab representative not below the rank of RA. Validated results may be used in base line study of EIA / IEE, SMART Rules, 2000, industrial periodic reporting under conditions of EIA /IEE. The reports, tests analysis conducted by Labs shall not be utilized for any other regulatory purposes.
- e. The sampling / monitoring person of certified laboratory shall not be below the rank of Assistant /Deputy Analyst.
- f. The tests and analysis of every tests shall be submitted by the Lab to EPA Lab Lahore. The EPA Lab, Lahore may verify reported tests and analysis which may include re-testing of preserved sample or re-sampling & then re-testing, etc.
- g. Laboratories will be bound to keep their auditable five years testing record and record backup of ICP, AAS, Spectrophotometer, stack emission equipment, ambient air Lab, dead stock items, soft record saved into instrument memory, etc and same will be audited by EPA Laboratory / advisory committee.
- h. Laboratory will maintain auditable record of procurement of spares and consumable for 5 years which will be checked / audited by EPA Lab / Advisory Committee.

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- i. The Lab shall only conduct tests and analysis under the scope of certification. No tests reports will be issued against those notified PEQS for which scope of certificate is not certified. Out of scope testing & reporting will be taken as serious violation of regulations and agency will suspend / revoke the certificate.
- j. Lab shall submit original analysis reports of all parameters to EPA Punjab in 1st week of each month along with a certificate on letter head that capacity per month/number of samples of different parameters conducted by the lab is within the limits approved by EPA.
- k. Pictorial evidences of visits/sample collected for analysis shall be prepared with GPS map camera (App on Google play) and shall be made part of each analysis report (backside of report) to determine location, Latitude, Longitude, date and time of sampling for verification by EPA.
- l. Lab shall be liable for compliance of Regulations 03,05,10,12 and 14 of Certification of Environmental Laboratories Regulations, 2000.
- m. This certification shall be treated as null and void if all or any of the conditions is/are not complies with.
- n. This certification can be withdrawn at any time without any prior notice if deemed necessary in the public/national interest.

Dated: 01/04/2022

Z. J. J. J.
Director General

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