



ENVIRONMENTAL PROTECTION AGENCY
GOVERNMENT OF THE PUNJAB
National Hockey Stadium, Gate No. 08
Gaddafi Stadium Complex, Lahore



Dated: 25/11/2025

CERTIFICATION AS AN ENVIRONMENTAL LABORATORY

In exercise of powers conferred by Clause (k) of subsection (1) of section 6 of Punjab Environmental Protection Act, 1997 (XXXIV of 1997); the provincial Agency is pleased to certify the Laboratory mentioned below as an Environmental Laboratory:

Name: ECO Pak Services PVT. LD.

Address: Central Commercial Plaza No. 28, 2nd Floor Office No 202, Bahria Orchard, Lahore

Certificate No. 217 /Dir (ML&I)/EPA/11/2025

This certificate is valid for following parameters of Punjab Environmental Quality Standards (PEQS):

- | | |
|--|--|
| a) Municipal & Liquid Effluent
as per Annex-A | Temperature, pH, COD, BOD ₅ , TSS, TDS. Oil & Grease, Phenolic Compounds, Cl ⁻ , F ⁻ , SO ₄ ²⁻ , S ²⁻ , NH ₃ , Anionic Detergents, Heavy Metals (Cd, Cr, Cu, Pb, Ni, Ag, Fe, Mn, Zn), Ba, B, CN ⁻ , Cl ₂ |
| b) Drinking Water Quality
as per Annex-B | E.Coli, Thermo Tolerant & Total Coliform, pH, Color, Odor, Taste, Turbidity, Total Hardness as CaCO ₃ , TDS, Phenolic Compounds, (Cl ⁻), F ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , Residual Chlorine, Heavy Metals (Cd, Cr, Cu, Pb, Mn, Hg, Ni, Cr, Zn), CN ⁻ , Al, Ba, B |
| c) Industrial & Gaseous Emission
as per Annex-C | Smoke, PM, SO _x , CO, NO _x , Pb, Cu, Zn |
| d) Ambient Air & Noise
as per Annex - D | SPM, PM 10 & PM2.5, SO ₂ , NO, NO ₂ , CO, O ₃ and Noise |
| e) Biomedical waste and incineration
facility
as per Annex-E | Particulate Matter, Oxides of Nitrogen as NO ₂ |
| f) Vehicular Emissions & Noise
as per Annex-F | Smoke, CO and Noise |

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-G to be complied by Service provider (i.e. Certified Laboratory), Service Receiver (i.e. industrial units).

This Certificate is Valid until 24 .11.2028 unless earlier suspended or revoked.

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Director General
EPA Punjab



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Annex-A

Environmental Laboratory Certificate No. 217/Dir(ML&I)/EPA/11/2025 in respect of "Certification as an Environmental Laboratory" read with conditions as Annex-G in favor of ECO Pak Services PVT. LTD located at Central Commercial Plaza No. 28, 2nd Floor Office No.202 Bahria Orchard, Raiwind Road, Lahore.

Municipal & Liquid Effluent

Sr. No.	Liquid Effluent/Waste Water Parameters	Standard Method/SOP	Test Capacity per Month
1.	Temperature, pH, Chemical Oxygen Demand (COD)	APHA 2550 B, APHA 4500 H ⁺ B, APHA 5220 B & APHA 5220 D	150 each
2.	Biological Oxygen Demand (BOD ₅)	APHA 5210 B	25
3.	Total suspended solids (TSS), Total dissolved solids (TDS)	APHA 2540 D, APHA 2540 C	150 each
4.	Oil & Grease, Phenolic Compounds as Phenols	APHA 5520 B, APHA 5530 D	35 each
5.	Chloride (as Cl ⁻), Fluoride (as F ⁻)	APHA 4500 - Cl- B, APHA 4500 - F- D	100 each
6.	Sulfate (SO ₄ ⁻²), Sulfide (S ⁻²),	APHA 4500 SO ₄ ⁻² E, APHA 4500- S ⁻² F,	80 each
7.	Ammonia (NH ₃)	APHA 4500- NH ₃ C	35
8.	Anionic Detergents	APHA 5540 C	26
9.	Heavy Metals (Cd, Cr, Cu, Pb, Ni, Ag, Fe, Mn, Zn), Barium (Ba), Boron (B)	APHA 3111 B, D	90 each
10.	Cyanide (as CN ⁻), Chlorine (Cl ₂)	APHA 4500 CN- E, APHA 4500-Cl B, G	50 each

The Laboratory (Service Provider) and Service Receiver shall also comply all the conditions laid down in Regulation 9 of the Certification of Environmental Laboratories Regulations 2000, and QA/QC conditions contained in Annex-G.

- The certified laboratory will ensure the implementation of the standards for prohibition of dilution by mixing of freshwater to bring the effluent within the PEQS and the same may be calculated by water consumption per unit production. The concentration of pollutant will be corrected accordingly.
- The certified lab will also ensure the representativeness of the sample of the industry reported upon.

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Annex-B

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Drinking Water Quality

Sr. No	Drinking Water Quality Parameter	Standard Method/SOP	Test Capacity per month
1.	E.Coli, Thermo tolerant Coliform, Total Coliform	APHA 9221F, D, E	100 each
2.	Color, Taste, Odour, Turbidity, Total Hardness (as CaCO ₃)	APHA 2120 C, APHA 2160 B, APHA 2150 B, APHA 2130 B, APHA 2340 C	100 each
3.	Total Dissolved Solids (TDS), pH	APHA 2540 C, APHA 4500 H+ B	150 each
4.	Chloride (Cl ⁻)	APHA 4500 - Cl- B	100
5.	Residual Chlorine	APHA 4500-Cl B, APHA 4500-Cl G	50
6.	Cyanide (CN), Phenolic Compounds (as Phenols)	APHA 4500-CN- E, APHA 5530 B, C, D	35
7.	Fluoride (F ⁻), Nitrate (NO ₃ ⁻), Nitrite (NO ₂ ⁻)	APHA 4500 - F- D, APHA 4500 - NO ₃ - E, APHA 4500 - NO ₂ - B	100 each
8.	Aluminum (Al), Barium (Ba), Boron (B)	APHA 3111 D	80 each
9.	Heavy metals (Cd, Cr, Cu, Pb, Mn, Hg, Ni, Cr, Zn)	APHA 3111 B	80 each

The Laboratory (Service Provider) and Service Receiver shall also comply all the conditions laid down in Regulation 9 of the Certification of Environmental Laboratories Regulations 2000, and QA/QC conditions contained in Annex-G.

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Annex-C

Environmental Laboratory Certificate No. 217/Dir(ML&D)/EPA/11/2025 in respect of "Certification as an Environmental Laboratory" read with conditions as Annex-G in favor of ECO Pak Services PVT. LTD located at Central Commercial Plaza No. 28, 2nd Floor Office No.202 Bahria Orchard, Raiwind Road, Lahore.

Industrial & Gaseous Emissions

Sr. No	Industrial & Gaseous Emission parameter	Standard Method/Equipment Name	Tests Capacity Per Month
1.	Smoke	Ringlemann Scale	25-30
2.	Particulate Matter	USEPA Method 5 & 17/ ISO kinetic	25-30
3.	Sulphur Oxides	ISO kinetic	25-30
4.	Carbon monoxide (CO)	USEPA CTM-34	25-30
5.	Oxides of Nitrogen (NO _x)	USEPA CTM-34	25-30
6.	Lead, Copper, Zinc	USEPA Method-29/Isokinetic	25-30 each

The Laboratory (Service Provider) and service Receiver shall also comply all the conditions laid down in Regulation 9 of the Certification of Environmental Laboratories Regulations 2000, and QA/QC conditions contained in Annex-G.

- Maximum limit is subject to availability of multiple emissions sources at single site and vice versa.
- The laboratory shall ensure the testing of CO₂ & O₂ during the testing of other parameters of emission sources. The dilution factor may be calculated and corrected concentrations of the pollutants will be reported as prescribed by the Agency.
- The permit of Lab for tests & monitoring from the reciprocating engines compression turbines, boilers and process heaters under CTM-34 shall be limited to natural gas and oil (Diesel & Petrol) fired system having dry pollution control system subject to fulfillment of sampling procedure and calibration verification check, repeatability checks as per CTM-34.
- Lab shall also ensure establishment of calibration check/verification facility for gases and particulate (Isokinetic PM) Assembly in accordance with Method and shall keep its record both in hard and soft form of every performed test.

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Annex-D

Environmental Laboratory Certificate No. 217 /Dir(ML&I)/EPA/11/2025 in respect of "Certification as an Environmental Laboratory" read with conditions as Annex-G in favor of ECO Pak Services PVT. LTD located at Central Commercial Plaza No. 28, 2nd Floor Office No.202 Bahria Orchard, Raiwind Road, Lahore.

Ambient Air Quality & Noise

Sr. No.	Ambient Air Parameter	Standard Method/Equipment	Capacity Per Month
1.	Suspended Particulate Matter (SPM), Respirable Particulate Matter PM ₁₀ & PM _{2.5}	High volume sampler, Beta Ray Absorption Method	25 sites each
2.	Sulfur Dioxide (SO ₂)	UV Fluorescence	25 sites
3.	Oxide of Nitrogen as NO and NO ₂	Chemiluminescence (CLD)	25 sites each
4.	Carbon Monoxide (CO)	Non-dispersive infrared (NDIR)	25 sites
5.	Ozone O ₃	Ultraviolet (UV) absorption	25 sites
6.	Lead (Pb)	High volume sampling-Atomic Absorption	25 sites
Noise			
7.	Noise (Residential, Commercial, Industrial Areas and Silence Zone)	Noise Meter with Leq. Function	100

The Laboratory (Service Provider) and service Receiver shall also comply all the conditions laid down in Regulation 9 of the Certification of Environmental Laboratories Regulations 2000, and QA/QC conditions contained in Annex-G.

- The capacity for continuous single site monitoring up to one month, may be recommended up to 30 monitoring of 24 hours per month and otherwise 25 sites or less. Moreover, the calibration arrangement shall be ensured all the time.
- The lab shall be bound to ensure compliance of mandatory requirements of QA/QC like traceable and repeatable calibrations checks & verification as mentioned in the manufacturer's operating manual/USEPA protocol for permitted Ambient testing. The quarterly calibration & annual performance shall be duly validated by EPA Laboratory Officer not below the rank of Research Officer (RO).
- The air quality monitoring station (AQMS) will be installed at the industrial premises on the site representative of maximum ground level pollutant's concentration.

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Annex-E

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Biomedical waste and Incineration Facility

Sr. No.	Liquid Effluent/Waste Water Parameters	Standard Method/SOP	Test Capacity per Month
1.	Particulate Matter	USEPA-05 &17/Isokinetic	6
2.	Oxides of Nitrogen as NO ₂	Chemiluminescence/USEPA Method 7e	6

The Laboratory (Service Provider) and Service Receiver shall also comply all the conditions laid down in Regulation 9 of the Certification of Environmental Laboratories Regulations 2000, and QA/QC conditions contained in Annex-G.

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Annex-F

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Motor Vehicle Exhaust and Noise for In Use Vehicles

Sr. No.	Motor Vehicle Exhaust Parameters	Standard Method/Equipment	No. of recommended booths	Capacity Per booth per day
1.	Smoke	Ringlemann Scale	01	50
2.	Carbon Monoxide (CO)	NDIR		50
3.	Noise dB(A)	Noise Meter with Leq. Function		50

In addition to the QA/QC conditions imposed in this certificate, the lab shall ensure:

- Availability of backup equipment to avoid public inconvenience by testing disruption.
- Maintaining the calibration & verification record of equipment (CO analyzer, noise meter) in hard and soft form in compliance with standard method like OIML R-99 class (0) or equivalent.
- Uploading daily vehicle testing data on ETS portal.
- Printing of ETS stickers with valid security codes from authorized vendors.
- Dedicated staff at each ETS booth.
- Share booth location with EPA. However, EPA reserves the right to allocate or reassign locations as deemed appropriate.

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Annex-G

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CONDITIONS OF CERTIFICATION

1. The Environmental Laboratory shall

- a) Conduct tests, analyses, and measurements per Provisional Agency guidelines.
- b) Maintain calibration records for its equipment and apparatus.
- c) Follow QA/QC procedures and participate in audits and quality programs organized by Provincial Agency.
- d) Keep its premises clean.
- e) Allow EPA for inspections of equipment, reports, and records.
- f) Retain test records for three years from the date thereof.
- g) Implement safety measures, including fire hazard precautions and first aid.
- h) Maintain adequate stocks of chemicals, backup equipment, and spare parts.
- i) Ensure compliance with regulation 5, using equivalent or better replacements for staff and equipment.
- j) Display its certification and fee list prominently in its premises.
- k) Submit an annual report listing all environmental tests and analyses

2. An environmental laboratory shall not, without the prior permission, in writing, of the Provisional 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 Provisional Agency;
- b) sub-contract any work to any other laboratory.
- c) Use EPA logo for lab test reports.

3. Certification of an environmental laboratory shall not be transferable to any other laboratory.

4. The Environmental Laboratory shall comply following conditions in the light of regulation 3, 9(1)(d), 12;



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- a) The lab shall conduct testing of certified priority parameters for any specific industry to be reported upon.
- b) Labs must only conduct tests within their certified scope; violations may lead to certificate suspension/revocation.
- c) The Environmental Samples Rule, 2001 for sampling, testing & reporting shall not be applicable on Private Certified Laboratory.
- d) The Technical & Scientific Staff of Certified Laboratory will collect sample on request of Service Receiver under Regulation 3(a). The sampling/monitoring staff of certified laboratory shall not be below the rank of Assistant/Deputy Analyst.
- e) The collected sample under Regulation 3(a) shall be preserved in right container as per protocol prescribed with relevant Standard Method & the quality control check of sample under Regulation 9(1)(d) during its collection & preservation.
- f) GPS Map Camera (Google Play) must be used for pictorial evidence in reports, showing location, date, and time for EPA verification.
- g) If a factory/individual provides the sample under Regulation 3(a) to the certified laboratory for analysis, the "Remarks" column should be omitted from the test report.
- h) Ensure treatment of waste water and air emission of the Laboratory (if any) to comply PEQS limits.
- i) Lab shall ensure compliance to regular supply or generation of reagent water to meet reagent grade water of Type-I & Type-II in accordance with latest ASTM standard.
- j) The Certified Laboratory shall submit EMRs through the Certified Labs Portal on official website of EP&CCD. EMRs shall be accessible to the Director ML&I, Director P&C, Director EIA, Incharge Strategy and Analysis Wing and concerned DD Field / DD Lab via their personalized logins.
- j) The testing report issued by the lab on the format of Schedule VI under Regulation 12 will exhibit the following disclaimer on the top of the page:
"Report Limitation: This report is not valid for Court cases, Environment Protection Orders, Compliance Report for Operational Phase Approvals, or any regulatory action under Punjab Environmental Protection (Smog Prevention and Control) Rules, 2023 etc."
- k) The tests reports may be used for non- punitive actions such as baseline study EIA/IEE, Self-monitoring & reporting, Industrial periodic reporting under conditions of EIA/IEE.
- l) The report of Certified Laboratory is not applicable for punitive actions and in such cases reports of EPA official Laboratory shall only be applicable for punitive actions as well as regulatory and compliance purposes.
- m) For assurance of quality of Environmental Monitoring Reports (EMRs), the Director ML&I shall ensure Site Monitoring Reports (SMRs) through the concerned EPA Laboratory against 2% of EMRs duly submitted by each certified private laboratory, on monthly basis.
- n) Where major discrepancies (> 30%) are found between the EMR and SMR of the same unit, the Director ML&I shall constitute a joint team comprising of the concerned Certified



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- Laboratory and any of the EPA Laboratory for conducting sampling within seven days and subsequent analysis. Both the said laboratories shall submit their respective reports to the Director ML&I through EPA's notified EMR/SMR submission guidelines within ten days after sampling for further necessary action.
- o) In addition to above, at least one sample of known concentration will be sent by Director ML&I to each certified laboratory for proficiency test on monthly basis. The threshold for accepted variation in proficiency test shall be +10%.
 - p) The Director ML&I shall submit analysis report of certified laboratories based on their performance regarding point No. (o) and (q) to the Director General with concrete recommendations on quarterly basis.
 - q) Laboratories will be bound to keep their auditable five years testing record backup of ICP, AAS, Spectrophotometer, Stack emission equipment, ambient air lab, dead stock items, soft record saved into instruments memory etc.
 - r) The lab will maintain suitable record of procurement of spares and consumables for five years which will be checked accordingly.
 - s) The lab shall comply to EPA-Notified Rates issued vide Notification No. 1011/LS/f-227/LAB dated 09-09-2013) for minimum testing charges.
 - t) Private laboratories may file complaints with the Director General, EPA if a service receiver (industrial unit) awards a contract to the EPA-certified lab at rates lower than the notified rates. If a complaint is lodged, the service receiver must provide additional information to the EPA.
 - u) The lab having its own calibration facility may extend its services to the other certified lab;
 - v) The compliance of EPA rates shall be applicable on service provider as well as service receiver.
 - w) The Certified Laboratory is not impartial third party because its revenue is dependent on Service Receiver.
 - x) In case of conflict of interest, the certified lab shall hire service of another certified Laboratory.
 - y) The violation of conditions of certificate will lead to legal proceedings under Regulation 14 of Regulation ibid.
 - z) Any other previously imposed conditions / instructions shall be null & void.

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