



# ENVIRONMENT PROTECTION DEPARTMENT

Government of the Punjab  
National Hockey Stadium, 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.

**Name:** Water Environment Laboratories and Consultancy Services (WELCOS)

**Address:** 29-D, Punjab University Town Phase II Raiwind Road Lahore

**Certificate No.** 169/DD(Lab)/EPA /05/2019


1. This certification is valid for:

- a) Liquid effluents/wastes as per Annexure – A
- b) Drinking water quality as per Annexure – B
- c) Industrial gaseous emissions Annexure – C
- d) Subject to fulfillment of conditions of certificate as per Annexure – D

2. This certification is subject to the conditions laid down in regulation 9 of the National environmental quality Standards (Certification of Environmental Laboratories) Regulations, 1999.

3. This certificate is valid until 21.05.2022 unless earlier suspended or revoked.

**Dated: 22.05.2019**

  
Director General





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## Annexure - A

To Environmental Laboratory Certificate No. 169/DD(Lab)/EPA/05/2019  
in respect of "Certification as an Environmental Laboratory" in favor of Water  
Environment Laboratories and Consultancy Services (WELCOS), 29-D, Punjab  
University Town Phase II Raiwind Road Lahore.

### LIQUID EFFLUENTS/WASTES

No.	Liquid Effluent/Wastes Parameter	Capacity per Month (No. of Samples)
1.	Temperature or Temperature Increase	100
2.	pH value ( $H^+$ )	200
3.	Biochemical Oxygen Demand ( $BOD_5$ ) at $20^\circ C$	20
4.	Chemical Oxygen Demand (COD)	200
5.	Total Suspended Solids (TSS)	100
6.	Total Dissolved Solids (TDS)	200
7.	Oil and Grease	20
8.	Phenolic, Compounds (as Phenol)	20
9.	Chloride (as $Cl^-$ )	200
10.	Fluoride (as $F^-$ )	250
11.	Cyanide(as $CN^-$ ), total	25
12.	Anionic, Detergents (as MBAS)	25
13.	Sulphate ( $SO_4^{2-}$ )	250
14.	Sulphide ( $S^{2-}$ )	200
15.	Ammonia ( $NH_3$ )	25
16.	Cadmium, Chromium (trivalent and hexavalent), Copper, Lead, Nickel, Silver, Total toxic Metals, Mercury, Selenium, Zinc, Barium, Iron, Manganese, Boron, Arsenic,	200 each

Dated: 22.05.2019

  
Director General





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## Annexure - B

To Environmental Laboratory Certificate No. 169/DD(Lab)/EPA/05/2019  
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Environment Laboratories and Consultancy Services (WELCOS), 29-D, Punjab  
University Town Phase II Raiwind Road Lahore.

### DRINKING WATER QUALITY

#### Physical

No.	Drinking water quality parameter	Capacity per month (No. of Samples)
1.	Color, Taste, Odour, Turbidity, Total Hardness (as CaCO <sub>3</sub> ), TDS, pH	250 Each

#### Chemical

No.	Drinking water quality parameter	Capacity per month (No. of Samples)
1.	Aluminium (Al), Antimony (Sb), Barium (Ba), Arsenic (As), Boron (B), Cadmium (Cd), Chromium (Cr), Copper (Cu), Selenium (Se)	200Each
2.	Chloride (Cl)	200

#### Toxic Inorganic/Organic

No.	Drinking water quality parameter	Capacity per month (No. of Samples)
1.	Cyanide (CN)	25
2.	Fluoride (F)	250
3.	Lead (Pb)	200
4.	Manganese (Mn)	200
5.	Nickel (Ni)	200
6.	Nitrate (NO <sub>3</sub> )	250
7.	Nitrite (NO <sub>2</sub> -)	250
8.	Zinc (Zn)	200
9.	Phenolic Compounds (As Phenols)	20
10.	Residual Chlorine	200
11.	Mercury (Hg)	200

*[Signature]*

Director General

Dated: 22.05.2019



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## Annexure - C

To Environmental Laboratory Certificate No. 169/DD(Lab)/EPA/05/2019  
in respect of "Certification as an Environmental Laboratory" in favor of Water  
Environment Laboratories and Consultancy Services (WELCOS), 29-D, Punjab  
University Town Phase II Raiwind Road Lahore.

### INDUSTRIAL GASEOUS EMISSIONS

No.	Industrial Gaseous Emissions parameter	Capacity per month (No. of Samples)
1.	Smoke	50
2.	Sulphur oxide	30
3.	Carbon Monoxide	30
4.	Oxides of Nitrogen	25

Dated: 22.05.2019

Director General





# ENVIRONMENT PROTECTION DEPARTMENT

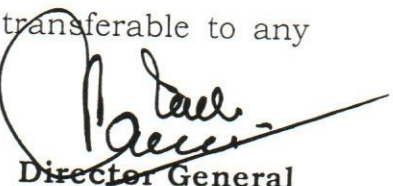
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## Annexure - D Conditions of certification

- (1) The environmental laboratory shall:
  - a. 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;
  - b. Carry out and maintain record of calibration of its equipment and apparatus;
  - c. 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;
  - d. Keep its premises neat and clean at all times;
  - e. 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;
  - f. Retain records of all tests and analyses and measurements conducted by it for a period of three years from the date thereof;
  - g. Take adequate safety measures and precautions against fire hazards and accidents including provision of first-aid facilities;
  - h. Ensure availability in its store of adequate stocks of chemicals, back-up equipment and apparatus, and spare parts;
  - i. Ensure that it fulfills 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;
  - j. 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
  - k. 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. Charge more than the rates as may be fixed from time to time by the provincial agency for specified tests and analysis; or
  - c. Sub-contract any work to any other laboratory.
- (3) Certification of an environmental laboratory shall not be transferable to any other laboratory.

Dated: 22.05.2019

  
Director General