

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 213
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Accreditation No: LAB 213

Awarded to

Environmental Services Pakistan (ESPAK) Lahore, Pakistan.

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **30-12-2020** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **29-12-2023**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

31-10-2022
Date

SD
Director General

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Testing Laboratory.

Environmental Services Pakistan (ESPAK) Lahore, Pakistan.

Permanent laboratory premises

Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
Water / Waste Water	Environmental Testing	1- Determination of pH	SMWW 4500 H ⁺ B (2017)
		2- Determination of Chemical Oxygen Demand (COD)	SMWW 5220 C, D (2017) Closed Reflux Digestion & Titration/ Photometry
		3- Determination of Total Dissolved Solids	SMWW 2540 C (2017)
		4- Determination of Chlorides (Cl)	SMWW 4500 Cl ⁻ B (2017)
		5- Determination of Hardness (as CaCO ₃)	SMWW 3120B (2017), USEPA 200.7 (1994), USEPA 6010D, ASTM D1976:20 Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) SMWW 2340 B, C (2017) Complexometric Titration
		6- Determination of Alkalinity	SMWW 2320B, USEPA 310.1, ASTM D1067:16 AOAC 920.194-1920 Titration
		7- Determination of Conductivity	SMWW 2510B (2017), USEPA 120.1, ASTM D1125-14 Conductivity Meter

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Sd
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Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
Water / Waste Water	Environmental Testing	8- Determination of Sulphate (SO ₄)	SMWW 4500 SO ₄ ²⁻ C (2017), USEPA 375.3 Gravimetric Method with Ignition of Residue
		9- Determination of Fluoride (F ⁻)	SMWW 4500 F ⁻ C (2017), USEPA 9214, ASTM D1179 Ion Selective Electrode & Meter
		10- Determination of Total Suspended Solids (TSS)	SMWW 2540D (2017), USEPA 160.2, ASTM D5907-13 Gravimetric Method by Filtration of Residue

31-10-2022
Date

Sd
Director