

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 133
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Accreditation No: LAB 133

Awarded to

Soil & Water Testing Laboratory for Research. Rawalpindi. 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 **14-03-2018** 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 **13-03-2021**.

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

07-02-2020
Date

_____ Sd _____
Director General

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Testing Laboratory.

**Accreditation Scope of Soil & Water Testing Laboratory for Research
Rawalpindi. 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
Fertilizer Macronutrients	Chemical Testing	Total Nitrogen in solid/liquid fertilizer	Official Methods of Analysis of AOAC International, 20 th Edition, 2016. Method No. 2.4.05 (AOAC Official Method 978.02), Fertilizers Chapter 2 Page 14-15.
		Ammonical Nitrogen in solid/liquid fertilizer	
		Nitrate Nitrogen in solid/liquid fertilizer	
		Total Phosphate in solid/liquid fertilizer	Pakistan standard for Single Super Phosphate (2 nd edition) PS: 67-1996. PSQCA. Karachi Vogel's Text book of quantitative chemical analysis 6 th edition, Pearson education, India
Total Potassium in solid/liquid fertilizer	Richards. L. A. 1954. Diagnosis and improvement of saline and alkali soils. USDA, Agric., Handbook 60, Washington, D.C.		
Fertilizer Micronutrients		Zinc (Zn) in solid/liquid/ mixed fertilizer	Official Methods of Analysis of AOAC International, , 20 th Edition, 2016. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Fertilizer Micronutrients	Chemical Testing	Copper (Cu) in solid/liquid/ mixed fertilizer	Official Methods of Analysis of AOAC International, 20 th Edition, 2016. Method No. 2.6.01 (AOAC Official Method

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			965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
		Ferrous (Fe) in solid/liquid/ mixed fertilizer	Official Methods of Analysis of AOAC International, 20 th Edition, 2016. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
		Manganese (Mn) in solid/liquid/ mixed fertilizer	Official Methods of Analysis of AOAC International, 20 th Edition, 2016. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
		Boron (B) in solid/liquid/ mixed fertilizer	Official Methods of Analysis of AOAC International, 20 th Edition, 2016. Method No. 2.6.04 (AOAC Official Method 982.01), Fertilizers Chapter 2, Subchapter 6, Page 28.
		Chelated (Zn, Cu, Fe & Mn) in solid/liquid fertilizer	Vogel's Textbook of quantitative chemical Analysis, Sixth Edition. J Mendham, R C Denney, J D Barnes, M J K Thomas Official Methods of Analysis of AOAC International, 20 th Edition, 2016, Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Page 29-30

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