



## ACCREDITATION DOCUMENT

**F-06/02**  
**Issue Date: 10/08/15**  
**Rev. No: 07**  
**LAB 019**

### Accreditation No: LAB 019

Awarded to

**Chemical Testing Laboratory, Microbiology Testing Laboratory  
& Calibration Laboratory of  
PCSIR Laboratories Complex, Peshawar-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 **27-11-2014** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **26-11-2017**.

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

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Date

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Director General

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### Testing Laboratory.

Accreditation Scope of *Chemical Testing Laboratory* of PCSIR Laboratories Complex,  
Peshawar - Pakistan

Permanent laboratory premises

Materials/ Products Tested	Testing field (e.g. environmental testing or mechanical testing) Testing field	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
<b>Water</b>	<b>Chemical Testing Laboratory</b>	1. pH	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. Method No. 4500- H <sup>+</sup> . B
		2. Sodium (Na)	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. 3500 - Na B.
		3. Potassium (K)	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. 3500-K B.
		4. Total Hardness as CaCO <sub>3</sub>	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. 2340.C
		5. Calcium Hardness as CaCO <sub>3</sub>	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. 3500-Ca.B
		6. Total Alkalinity as CaCO <sub>3</sub>	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012, Method No. 2320. B
		7. Chloride (Cl)	<i>Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22<sup>nd</sup> Edition, 2012, Method No. 4500 Cl</i>
		8. Total Dissolved Solids	<i>Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22<sup>nd</sup> Edition, 2012, Method No. 2540 C.</i>
		9. Electrical Conductivity	<i>Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22<sup>nd</sup> Edition, 2012, Method No. 2510 B.</i>

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### Testing Laboratory.

Accreditation Scope of *Microbiology Testing Laboratory* of PCSIR Laboratories Complex,  
Peshawar - Pakistan

Permanent laboratory premises

Materials/ Products Tested	Testing field (e.g. environmental testing or mechanical testing) Testing field	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
<b>Water</b>	<b>Microbiology Testing Laboratory</b>	1. Total Plate Count (TPC)	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012 Method No. 9215 A-B
		2. Total Coliform and Fecal Coliform	Standard Methods for the Examination of water and wastewater, APHA/AWWA/WEF 22 <sup>nd</sup> Edition, 2012 Method No.9221 A-E
<b>Juice</b>	<b>Microbiology Testing Laboratory</b>	3. Total Plate Count (TPC)	Compendium of method for Microbiological examination of food 4th edition, 2001 Edited by Frances Pouch Downes Keith ITO American Public Health Association Washington DC USA.
		4. Total Coliform and Fecal Coliform	Compendium of method for Microbiological examination of food 4th edition, 2001 Edited by Frances Pouch Downes Keith ITO American Public Health Association Washington DC USA.
<b>Milk</b>	<b>Microbiology Testing Laboratory</b>	5. Total Plate Count (TPC)	Compendium of method for Microbiological examination of food 4th edition, 2001 Edited by Frances Pouch Downes Keith ITO American Public Health Association Washington DC USA.
		6. Total Coliform and Fecal Coliform	Compendium of method for Microbiological examination of food 4th edition, 2001 Edited by Frances Pouch Downes Keith ITO American Public Health Association Washington DC USA.

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## Calibration Laboratory.

Accreditation Scope of *Calibration Laboratory* of PCSIR Laboratories Complex,  
Peshawar - Pakistan

Permanent laboratory premises

Measured Quantity	Range	Calibration & Measurement Capability (CMC) expressed as an uncertainty ( $\pm$ )	Brief description of measurement and equipment used
Mass/Weights	Class F2 and Lower classes (10 mg ~ 5kg)	0.02 mg ~ 0.040 g	OIMLRIII-I,2004(E)
Weighing	(10 mg ~ 6 kg)	0.09 mg ~ 0.08 g	OIMLR76-I,2006(E)
Temperature (Liquid In Glass Thermometers)	-20 °C ~ 200 °C	0.12 °C ~ 2 °C	ASTM ,E77-07, 2008(E)
<b>Volume:</b>			
Micropipette	i). 0.5 $\mu$ L ~ 10 $\mu$ L ii). 10 $\mu$ L ~ 100 $\mu$ L iii). 100 $\mu$ L ~ 1000 $\mu$ L	0.13 $\mu$ L ~ 0.14 $\mu$ L 0.20 $\mu$ L ~ 1.67 $\mu$ L 0.76 $\mu$ L ~ 3.66 $\mu$ L	BS EN ISO 8655-6:2002 Analytical Balance, Sartorius Hygrometer Digital, Model HTC-2
Pipettes	i). 1 mL, ii). 2 mL, iii). 5 mL, iv). 10 mL, v). 20 mL, vi). 25 mL	0.00077 mL 0.05778 mL 0.00092 mL 0.00126 mL 0.13 mL 0.12 mL	ASTM ,E542-01,(Reapproved 2007),2008 (E) Analytical Balance, Sartorius Top Loading Balance, Adam Hygrometer Digital, Model HTC-2
Graduated Cylinder	i). 10 mL ii). 25 mL iii). 50 mL iv). 100 mL v). 250 mL vi). 500 mL vii). 1000 mL	0.17 mL 0.31 mL 0.59 mL 0.59 mL 0.59 mL 1.45 mL 2.90 mL	ASTM ,E542-01,(Reapproved 2007),2008 (E) Top Loading Balance, Adam Hygrometer Digital, Model HTC-2
Volumetric Flasks	i) 25 mL ii) 50 mL iii) 100 mL iv. 250 mL v) 500 mL vi) 1000 mL vii) 2000 mL	0.12 mL 0.12 mL 0.12 mL 0.12 mL 0.12 mL 0.12 mL 0.12 mL	ASTM ,E542-01,(Reapproved 2007),2008 (E) Top Loading Balance, Adam Hygrometer Digital, Model HTC-2
Burettes	i) 25 mL ii) 50 mL iii) 100 mL	0.13 mL 0.14 mL 0.17 mL	ASTM ,E542-01,(Reapproved 2007),2008 (E) Top Loading Balance, Adam Hygrometer Digital, Model HTC-2
Beakers	i) 50 mL ii) 100 mL iii) 250 mL iv) 500 mL v) 1000 mL	0.58 mL 1.16 mL 1.53 mL 2.94 mL 5.86 mL	ASTM ,E542-01,(Reapproved 2007),2008 (E) Top Loading Balance, Adam Hygrometer Digital, Model HTC-2

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