

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 037
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Accreditation No: LAB 037

Awarded to

Glass & Ceramics Research Centre (GCRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Labs. Complex. Lahore 54600, 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 **24-08-2006** 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 **16-06-2022**.

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

13-03.2021
Date

Sd
Director General

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Testing Laboratory.

Accreditation scope of Glass & Ceramics Research Centre (GCRC), Pakistan Council of Scientific & Industrial Research (PCSIR) Laboratories Complex, Lahore 54600, 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
1. Cement & Limestone Testing Laboratory			
Cement	Physiochemical Testing	Determination of Loss on ignition (LOI)	ASTM C114-18
		Determination of Silica (SiO ₂)	
		Determination of Alumina (Al ₂ O ₃)	
		Determination of Iron oxide (Fe ₂ O ₃)	
		Determination of Lime (CaO)	
		Determination of Magnesia (MgO)	
		Determination of Soda (Na ₂ O)	
		Determination of Potash (K ₂ O)	
		Determination of Sulphur trioxide (SO ₃)	
		Determination of Acid Insoluble Residue (IR)	
		Sieve Analysis of Cement	
	Phases	Tricalcium Silicate (C3S)	ASTM C 150-20
		Dicalcium Silicate (C2S)	
		Tricalcium Aluminate (C3A)	
Tetracalcium Aluminoferrite (C ₄ AF)			
Limestone	Chemical Testing	Determination of Loss on ignition (LOI)	ASTM C 25-11
		Determination of Silica (SiO ₂)	
		Determination of Alumina (Al ₂ O ₃)	
		Determination of Iron oxide (Fe ₂ O ₃)	
		Determination of Lime (CaO)	
		Determination of Magnesia (MgO)	
		Determination of Soda (Na ₂ O)	ASTM C 114-18
		Determination of Potash (K ₂ O)	

11-03-2021

Date

Sd

Director