

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 035
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Accreditation No: LAB 035

Awarded to

**PAKISTAN INSTITUTE OF TECHNOLOGY FOR MINERALS &
ADVANCED ENGINEERING MATERIALS (PITMAEM),
Pakistan Council of Scientific & Industrial Research (PCSIR)
Laboratories 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 17025:2005**.

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

04-10-2019

Date

Director General

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 035
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Testing Laboratory.

Accreditation scope of **Pakistan Institute of Technology for Minerals & Advanced Engineering Materials (PITMAEM)**, 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. Metallography Laboratory.			
Metallic materials	Material Characterization	Standard Guide for Preparation of Metallographic Specimens	ASTM E 3:2017
		Standard Practice For Micro-etching Metals And Alloys	ASTM E 407:2015
		Standard Test Method For Macroetching Metals And Alloys	ASTM E 340:2015
		To Determining Average Grain Size	ASTM E 112:2013
		The Measurement of Metal And Oxide Coating Thickness by Microscopical Examination of a Cross Section.	ASTM B 487:2013
		The Evaluating of Microstructure of Graphite	ASTM A 247:2019

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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
2. Optical Emission Spectrometer Laboratory			
Metallic Materials	Material Characterization	The Optical Emission Vacuum Spectrometric Analysis of Carbon and Low Alloy Steel	ASTM E 415:2017
		The Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by Point to Plane Excitation Technique	ASTM E 1086:2014
		The Analysis of Manganese Steel using Atomic Emission Spectrometry	ASTM E 2209:2013
		The Analysis of Cast Iron using Optical Emission Spectrometry	ASTM E 1999:2018
		The Optical Emission Spectrometric Analysis of Aluminum and Aluminum Alloys by the Argon Atmosphere Point to Plane, Unipolar Self-Initiating Capacitor Discharge	ASTM E 1251:17a
		Practice for Sampling Steel and Iron for Determination of Chemical Composition	ASTM E 1806:2018
3. Mechanical Laboratory			
Metallic Materials	Mechanical Testing	The Tension testing of deformed steel bars	ASTM A 370:2018
	Mechanical Testing	The Rockwell hardness of Metallic Materials	ASTM E 18:2019

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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
4. Composite Material Testing Laboratory			
Liquid Petroleum Gas (LPG) Composite Material Cylinder	Mechanical Testing	Pressure Cylinder Test	EVS –EN 14427:2014
		Burst Test	
		Torque Test	
		Leak Test	ISO 11119-3
		Pressure Proof Test	ISO 11119-3:2013(E)
		Drop Test	ISO 11119-3:2013(E)
		Flawed Cylinder Test	ISO 11119-3:2013(E)
		Exposure to Elevated Temperature at Test Pressure	EVS-EN 14427:2014

04-10-2019
Date

Director