

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 035
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Accreditation No: LAB 035

Awarded to

Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), 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

11-03-2021
Date

Sd
Director General

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Testing Laboratory.

Accreditation scope of Pakistan Institute of Technology for Minerals and 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	Test Method for Preparation of Metallographic Specimens	ASTM E 3:2017
		Test Method for Micro-etching Metals and Alloys	ASTM E 407:2015
		Test Method for Macroetching Metals and Alloys	ASTM E 340:2015 SASO GSO ISO17639
		Test Method for Determining Average Grain Size	ASTM E 112:2013
		Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section.	ASTM B 487:2013
		Test Method for Evaluating the Microstructure of Graphite	ASTM A 247:2019
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			

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Metallic Materials	Material Characterization	Optical Emission Vacuum Spectrometric Analysis of Carbon and Low Alloy Steel	ASTM E 415:2017 SASO ISO 4978
		Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by Point to Plane Excitation Technique	ASTM E 1086:2014
		Analysis of Manganese Steel using Atomic Emission Spectrometry	ASTM E 2209:2013
		Analysis of Cast Iron using Optical Emission Spectrometry	ASTM E 1999:2018
		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	Test Method for Tension testing of deformed steel bars	ASTM A 370:2018
	Mechanical Testing	Test Method for Rockwell hardness of Metallic Materials	ASTM E 18:2019
4. Composite Material Testing Laboratory			
Liquid Petroleum Gas (LPG) Composite Material Cylinder	Mechanical Testing and Environmental Testing	Pressure Cyclic Test	EVS –EN 14427:2014
		Burst Test	
		Torque Test	
		Leak Test	ISO 11119-3

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		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

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Director