



**ACCREDITATION DOCUMENT**

**F-06/02**  
**Issue Date: 18/08/20**  
**Rev. No: 09**  
**LAB 011**

**Accreditation No: LAB 011**

**Awarded to**

**POF Material Testing Laboratory (PMT Labs),  
Pakistan Ordnance Factories,  
Wah Cantt. 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 **18-04-2005** 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 **10-01-2025**.

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**

17-10-2022

Date

-Sd-

Director General



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### Testing Laboratory.

Accreditation Scope of:

**POF Material Testing Labs.  
(PMTL)**

Permanent laboratory premises:

### Field Testing laboratory:

Materials/Product Tested	Testing Field ( Environmental Testing/Mechanical Testing)	Types of Test / Properties Measured	Reference to standardized Method / Internal Method reference
Plain Carbon Steel	Chemical Testing	1. Carbon content	Combustion method using Strohlein apparatus
		2. Mn content	By per sulphate method (V.A) based on ASTM-E30-56
		3. Sulphur content	By evolution method (V.A) based on ASTM-E30-56
		4. Phosphorus content	By Alkalimetric method (V.A) based on ASTM-E30-56
		5. Silicon content	By Hydrochloric acid method (G.A) based on G.E.F LUNDELL, Ph.D.
Low alloy steel	Chemical Testing	6. Nickle content	By Dimethyle glyoxime method (G.A) based on ASTM-E30-56
		7. Chromium content	By Per managanate method (V.A) based on G.E.F LUNDELL, Ph.D.
Cartridge (70/30) Brass	Chemical Testing	8. Elemental analysis for following elements using optical emission (OBLF) spectrometer: Cu. Pb. Fe. Sn. Ni. Sb. Bi. As. P. Zn.	W.I#: POF/LSD/ML-11/WI-03/01 based on Equipment operation manual supplied by the manufacturer.
Leaded Brass	Chemical Testing	9. Simultaneous analysis for Cu & Pb content.	By electrolytic method (G.A) based on ASTM- E36-45

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		<b>10. Analysis for Pb. content</b>	<b>By electrolytic method (G.A) based on ASTM- E36-45</b>
<b>Metallic materials</b>	<b>Mechanical Testing</b>	<b>11. Tensile test</b>	<b>ASTM-E-8 &amp; E-8M</b>
		<b>12. Hardness</b>	<b>ASTM- E92</b>
<b>Materials/Product Tested</b>	<b>Testing Field ( Environmental Testing/Mechanical Testing)</b>	<b>Types of Test / Properties Measured</b>	<b>Reference to standardized Method / Internal Method reference</b>
<b>Fuel oils, Lube oils, suspensions of solids; liquids that tend to form a surface film under test conditions, drying oils and solvent types waxes</b>	<b>Physical Testing</b>	<b>13. Flash point test (Closed cup)</b>	<b>ASTM – D93-80</b>
<b>Any petroleum Oil</b>	<b>Physical Testing</b>	<b>14. Pour point (of petroleum oils)</b>	<b>ASTM- D97-66</b>
<b>Plain Carbon &amp; Low Alloy Steel</b>	<b>Chemical Testing</b>	<b>15.Elemental analysis for following elements using Optical Emission (LAV M-11) spectrometer:</b> <b>C.</b> <b>Mn.</b> <b>Si.</b> <b>S.</b> <b>P.</b>	<b>W.I#: POF/LSD/PMTL-11/WI-03/05 based on Equipment operation manual supplied by the manufacturer.</b>

17-10-2022  
Date

-Sd-  
Director