

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 175
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Accreditation No: LAB 175

Awarded to

**QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.
Hattar Industrial Estate, Haripur, KPK, 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 **30-05-2019** 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 **29-05-2025**.

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

21-02-2025
Date

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Director General



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Calibration Laboratory.

Accreditation Scope of Accreditation Scope of QARSHI RESEARCH INTERNATIONAL Pvt. Ltd.
Hattar Industrial Estate, Haripur, KPK, Pakistan.

Permanent laboratory premises

Field of measurement: In house			
Measured quantity	Range	*Expanded Uncertainty (\pm)	Technique, Reference Standard, Equipment
Mass (1 mg-20 Kg) F1 and below class weights	1 mg	0.0020 mg	(ABBA Method) TEC-CAL-SCM -02 i) E ₂ & F ₁ Class Standard Weight ii) Microbalance iii) Analytical Balance, iv) Mass Comparator v) Top loading Balance, vi) Platform balance.
	2 mg	0.0020 mg	
	5 mg	0.0020 mg	
	10 mg	0.0020 mg	
	20 mg	0.0020 mg	
	50 mg	0.0020 mg	
	100 mg	0.0040 mg	
	200 mg	0.0040 mg	
	500 mg	0.0060 mg	
	01 g	0.0000080 g	
	02 g	0.000016 g	
	05 g	0.000012 g	
	10 g	0.000014 g	
	20 g	0.000020 g	
	50 g	0.000030 g	
	100 g	0.00010 g	
	200 g	0.00020 g	
500 g to 5000 g	0.0020 g		
10 Kg	0.0000040 Kg		
20 Kg	0.000010 Kg		
Micropipette (10 µL-5000 µL)	10 µL to 50µL	0.010 µL to 0.051 µL	(Gravimetric Method) TEC-CAL-SCM-01 i) E ₂ & F ₁ Class Standard Weight ii) Microbalance iii) Analytical Balance, iv) Top loading Balance, v) Platform balance.
	51 µL to 99µL	0.051 µL to 0.088 µL	
	100 µL to 200µL	0.088 µL to 0.18 µL	
	201 µL to 499µL	0.18 µL to 0.40 µL	
	500 µL to 999µL	0.40 µL to 0.80 µL	
	1000 µL to 2999µL	0.80 µL to 2.3 µL	
	3000 µL to 5000µL	2.3 µL to 3.8 µL	
Glass wares (Cylinders, Beakers, Flasks, Pycnometers, Mccartney Bottles, Pipettes, Burettes) (1 mL-5000 mL)	1 mL-5 L	0.0042 mL-0.29 L	

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Metallic (20 mL-20 L)	20 mL-20 L	0.29 mL-0.29 L	
Plastic (1 mL-20 L)	1 mL-20 L	0.29 mL-0.58 L	
Temperature i) Liquid in Glass ii) Probes (PRT) iii) Probes (Thermocouples) iv) IR Thermometers	i) - 40 °C to 125 °C ii) - 40 °C to 420 °C iii) - 30 °C to 1300°C iv) 30 °C to 550 °C	i) 0.37 °C to 0.62 °C ii) 0.25 °C to 1.4 °C iii) 0.23 °C to 0.57 °C iv) 0.40 °C to 0.50 °C	Comparison Method TEC-CAL-SCM-04 Equipment used i. Heating bath (ISOTECH LIBRA 785 M) ii. DUAL Blocks (Fluke 9011 & 9009) iii. SATURN FURNACE (ISOTECH 877) iv. IR Calibrator (ISOTECH GEMNI (R 550/700)) v. PRT with Readout (FLUKE) vi. S & R Type Thermocouple (FLUKE) vii. Type K J Thermometer (Dwyer TC20)
Pneumatic Pressure (Gauges) (-10-300) Psi	-10 psi to 300 psi	0.11 psi to 0.58 psi	Comparison Method TEC-CAL-SCM -06 (DKD-R61) i. Pneumatic Test pump with reference gauge
Hydraulic Pressure (Gauges) (0-10,000) Psi	0 psi to 10000 psi	0.10 psi to 6.3 psi	Comparison Method TEC-CAL-SCM -06 (DKD-R61) i. Hydraulic Test pump with reference gauge
Temperature and Humidity meters	(10-50) °C (10-90) %	0.90 °C 3.4 % to 4.4 %	Comparison Method TEC-CAL-SCM-11 Michell Temperature and Humidity Calibrator

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Field of measurement: On-Site			
Measured quantity	Range	*Expanded Uncertainty (±)	Technique, Reference Standard, Equipment
Weighing (Balances) (2 mg-120 Kg)	2 mg to 100 mg 101 mg to 500 mg 501 mg to 50 g 51 g to 200 g 201 g to 5000 g 5001g to 120 Kg	0.0060 mg 0.0060 mg to 0.010 mg 0.010 mg to 0.000032 g 0.000032 g to 0.00020 g 0.00020 g to 0.010 g 0.010 g to 0.010 Kg	(ABBA Method) TEC-CAL-SCM -05 <ul style="list-style-type: none"> i. F₁ Class Standard Weight ii. E₂ Class Standard Weight
Temperature i) Probes (PRT) ii) Probes (Thermocouples) iii) IR Thermometers iv)Cooling & Heat Generating Sources	i) – 30 °C to 420 °C ii) - 30°C to 670 °C iii) 30 °C to 550 °C iv)-80 °C to 1100 °C -196 °C to 1450 °C (Simulated value)	i) 0.26 °C to 1.4 °C ii) 0.32 °C to 0.94 °C iii) 0.40 °C to 0.50 °C iv) 0.69 °C to 0.95 °C	Comparison Method TEC-CAL-SCM-04 TEC-CAL-SCM-05 Equipment used <ul style="list-style-type: none"> i. DUAL Blocks (Fluke 9011& 9009) ii. IR Calibrator (ISOTECH GEMNI R 550/700) iii. PRT with Readout (FLUKE) iv.S& R Type Thermocouple (FLUKE) v.Type K .J Thermometer (Dwyer TC20) vi.Temperature Recorder (Fluke 2638A) vii. Digital Thermometer with probe (Testo 735) viii. High Temperature & pressure data logger (MADGETECH PRT Temp140)
Volume Onsite i)Micropipette ii)Glassware iii)Metallic iv)Plastic	i)10 µL to 5000 µL ii)1 mL to 5 L iii)20 mL to 20 L iv)1 mL to 20 L	i) 0.20 µL to 9.2 µL ii)0.10 mL to 0.29 L iii)0.29 mL to 0.29 L iv)0.29 mL to 0.58 L	TEC-CAL-SCM-07

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pH Meter	(4, 7 & 10) pH	0.020 pH to 0.031 pH	TEC-CAL-SCM-09 NIST Traceable pH buffers sachets. APHA, AWWA, WEF (4-95)
Conductivity Meter	84 $\mu\text{s/cm}$ 1413 $\mu\text{s/cm}$	0.87 $\mu\text{s/cm}$ 6.4 $\mu\text{s/cm}$	TEC-CAL-SCM-08 NIST Traceable Conductivity standard solution sachets. APHA, AWWA, WEF (2-56)
Machine RPM	(10—14500) RPM	(0.58---1) RPM	Comparison Method TEC-CAL-SCM-12 Digital Tachometer (Fluke 931)

* **Expanded Uncertainty:**

Expanded Uncertainty is the measurement uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. This measurement uncertainty is a value for which the laboratory has been accredited using the procedure that was the subject of assessment. In certificates issued under its accreditation scope an accredited laboratory is not permitted to quote an uncertainty that is smaller than the published uncertainty for respective ranges as given above.

21-02-2025
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Director