Schedule of Accreditation

for Calibration Laboratory According to ISO/IEC 17025

Issued To

Calibration Laboratory

Trust Egypt for Quality Systems (TEQ)

24 Mahmoud Hob Allah Street, Nasr City, Cairo Governorate, Egypt

Schedule No.:041701 B **1st Accreditation Date: July 10, 2017** **Issue No. (05): July 10, 2025** **Revision No. (01): July 16, 2026** **Valid to: July 09, 2029**

Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Dimensions (Permanent)				
Calibration of Calipers	Up to 300 mm ≥ 300 mm to 600 mm	7.0 µm 8.0 µm	**ES 313-1:2018**	**Set of Gauge Block (5 Pcs)** S/N.: 170084 **Set of Gauge Block (26 Pcs)** S/N.: 170061 **Setting Rings** S/N.: 0212228059 & 2206228025
Calibration of External Micrometer	Up to 150 mm	1.7 µm	**ES 163:2015**	**Set of Gauge Block (10 Pcs)** S/N.: 10190016 **Set of Gauge Block (26 Pcs)** S/N.: 170061
Calibration of Dial / Digital Gauge	Up to 30 mm	1.4 µm	**ISO 463:2006**	**Set of Gauge Block (26 Pcs)** S/N.: 170061

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Pressure& Vacuum (Permanent & On-Site)				
Calibration of Vacuum Pressure Gauge	-0.95 bar to 0 bar	2.8 mbar	**DKD-R6-1-2014**	**Digital Pressure Calibrator** **S/N.:** 3309514 **Pressure Module S.N.:** 3794229 **Digital Pressure gauge** **S/N.:** 4471114
Calibration of Pneumatic Pressure Gauge	Up to 20 bar >20 bar to 100 bar	2.9 mbar 14 mbar	**DKD-R6-1-2014**	**Digital Pressure Calibrator** **S/N.:** 3309514 **Pressure Module S.N.:** 10280325 **S.N.:** 3794229 **Digital Pressure gauge** **S/N.:**4471114 & 10305719
Calibration of Hydraulic Pressure Gauge	Up to700 bar >700 bar to 1000 bar	0.1 bar 0.26 bar	**DKD-R6-1-2014**	**Reference Hydraulic Pressure Gauge** **S/N.:** 3405045 & 10285257
Calibration of Differential Pressure Gauge	-200 Pa to 1000 Pa	0.01 hPa	**DKD-R6-1-2014**	**Digital Differential Pressure Gauge** **S/N.:** 222700011/207 **S/N.:** C232718953

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Volume (Permanent)				
Calibration of Volumetric Apparatus (One Mark)	0.1 mL to 10 mL	5.0 µL	**SOP TEQ-V1 based on ISO 4787 - 2021**	**Electronic Balance** S/N T1004168 **Electronic Balance** S/N 1117031616 **Electronic Balance** S/N 1119503850 **Electronic Balance** S/N 14578086 **Electronic Balance** S/N 14906459
	> 10 mL to 100 mL	9.0 µL		
	> 100 mL to 500 mL	0.07 mL		
	> 500 mL to 5000 mL	0.36 mL		
Calibration of Volumetric Apparatus (Graduated)	0.1 mL to 10 mL	9.0 µL		
	> 10 mL to 100 mL	0.01 mL		
	> 100 mL to 500 mL	2.9 mL		
	> 500 mL to 5000 mL	5.8 mL		
Calibration of Piston-operated Volumetric Apparatus	0.5 µL to 10 µL	0.07 µL	**SOP TEQ-V2 based on ISO 8655-6 -2022**	**Electronic Balance** S/N T1004168 **Electronic Balance** S/N 1119503850 **Electronic Balance** S/N 14578086
	> 10 µL to 100 µL	0.17 µL		
	> 100 µL to 1000 µL	0.70 µL		
	> 1 mL to 10 mL	5.2 µL		
	> 10 mL to 200 mL	18 µL		

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Balance (On-Site)				
Calibration of Balances and Weighing Instruments	Up to 22 g	10 µg	**OIML R76-1:2006**	**Set of Masses :** (1 mg:1 kg) - E1 **S/N.**: 4190116 (1 mg:1 kg) - E2 **S/N.**: 1130116 (1 mg:1 kg) – F1 **S/N.**: 78903 **Individual Masses :** (2 kg) - F1 **S/N.**: B606075952 (5 kg) - F1 **S/N.**: B605074431 (10 kg) - E2 **S/N.**: 1090116 (10 kg) – F1 **S/N.**: 210311 (10 kg) – F1 **S/N.**: 95126 (20 kg) - E2 **S/N.**: B605075413 (20 kg) - F1 **S/N.** : 210321 (20 kg) - F1 **S/N.** : 78881 5 * 10 Kg - M1–Code: MV1001:MV1005 50 * 20 Kg – M1–Code: MV2001:MV2050
	>22 g to 220 g	30 µg		
	>220 g to 1000 g	0.24 mg		
	>1 kg to 10 kg	4.0 mg		
	>10 kg to 32 kg	0.01 g		
	>32 kg to 100 kg	2.0 g		
	>100 kg to300 kg	10 g		
	>300 kg to 2000 kg	0.10 kg		

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Measured Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Mass (Permanent)				
Calibration of Mass	1 mg to 20 mg	1.3 µg	**OIML R111:2004/ Amendment : 2025**	**Set of Masses :** (1 mg:1 kg) - E1 – S/N.: 4190116 (1 mg:1 kg) - E2 - S/N.: 1130116 (1 mg:1 kg) – F1 - S/N.: 78903 **Individual Masses :** (2 kg) - E2 - S/N.: B606075950 (2 kg) - F1 - S/N.: B606075952 (5 kg) - E1 - S/N.: 4230116 (5 kg) - F1 - S/N.: B605074431 (10 kg) - E2 - S/N.: 1090116 (10 kg) – F1 - S/N.: 210311 (10 kg) – F1 - S/N.: 95126 (20 kg) - E2- S/N.: B605075413 (20 kg) - F1- S/N. : 210321 (20 kg) - F1 - S/N. : 78881 **Balances and Mass Comparators:** S/N.: T1004168 & S/N.:1117031616 & S/N.:1119503850 & S/N.: 14578086 & S/N.: 14906459 and S/N.: 14906963
	50 mg to 200 mg	2.0 µg		
	500 mg	2.5 µg		
	1 g	3.2 µg		
	2 g to 5 g	5.0 µg		
	10 g to 20 g	8.0 µg		
	50 g	13 µg		
	100 g	19 µg		
	200 g	32 µg		
	500 g to 1000 g	0.13 mg		
	2 kg	1.0 mg		
	5 kg	1.3 mg		
	10 kg	2.5 mg		
	20 kg	9.0 mg		

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Measured Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Temperature (Permanent & On-Site)				
Calibration of temperature system (Sensors with indicator)	-40 °C to < -25°C > -25°C to to 150°C > 150°C to 650 °C > 650 °C to 900 °C > 900 °C to 1200 °C	0.26 °C 0.06 °C 0.26 °C 0.61 °C 1.6 °C	**SOP TEQ – TC1 based on Euramet cg-08/Ver. 3.1 (02/2020)**	**Platinum Resistance Thermometer, S/N.**: 4059 **Thermocouples types K, N, S and Pt100** **S/N.**: WU00021233 &WNW0216330 &1.330 & T00101 **Portable Calibration Furnace & Well** **S/N.**: B63595 & B63672 **Climatic Chamber S/N.**: SH18WS68
Calibration of Liquid in Glass Thermometer	-25°C to 300 °C	0.09 °C	**SOP TEQ-TG1. In-house method by comparison**	**Platinum Resistance Thermometer,** S.N.: 4059 **Pt100, S/N.**: T00101 **Field Metrology Baths** **S/N.**: B63672, 06032547081
Calibration of Temperature Indicators and Simulator (mv)	-200 °C to 1200 °C	0.20 °C	**SOP TEQ – TS1 based on Euramet cg-11/Ver. 2.0 (03/2011)**	**Temperature Indicator & Simulator** **S/N:**. 2958089
Calibration of Temperature Indicators and Simulator (Ohm)	-200 °C to 660 °C	0.30 °C		

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Measured Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Temperature (Permanent & On-Site)				
Calibration of Block / Well Calibrator	-40 °C to ≤ 150°C >150°C to 650 °C > 650 °C to 900 °C > 900°C to 1200 °C	0.06 °C 0.20 °C 0.60 °C 1.5 °C	**SOP TEQ – TBC based on Euramet cg-13/Ver. 4.0 (09/2017)**	**Platinum Resistance Thermometer** S/N.: 4059 **Thermocouples types K, N, S and Pt100** S/N.: WU00021233 &WNW0216330 &1.330 & T00101
Calibration of temperature sensor at working point for closed volumes (freezer, refrigerator)	-80 °C to 10 °C	0.20 °C	**SOP TEQ – TCV based on Euramet cg-20/Ver. 5.0 (09/2017)**	**Platinum Resistance Thermometer** S/N.: 4059 **Thermocouples types K, N, S and Pt100** S/N.: WU00021233 &WNW0216330 &1.330 & T00101&T02403&T02405 **Data loggers with sensor** S/N.: T1:T10 **Digital Thermo-hygrometer** S/N.: 5210237 & 36402180
Calibration of temperature sensor at working point for closed volumes (incubator, baths, autoclave)	-40°C to 160 °C	0.20 °C		
Calibration of a temperature sensor at working point for closed volumes (Oven, muffles, chambers, baths	25 °C to ≤ 160 °C > 160°C to 650 °C > 650°C to 900 °C > 900°C to 1200 °C	0.20 °C 0.40 °C 0.70 °C 1.6 °C		
Calibration of temperature sensor and Humidity at working point for closed volumes (Chamber)	-40°C to 160 °C (20 to 90) %RH	0.20 °C 1.8 % RH		

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Temperature (Permanent & On-Site)				
Calibration of Temperature and Humidity Devices (Permanent)	-40 °C to 150°C	0.40 °C	**SOP TEQ – TH based on ES1001-2023**	**SPRT** S/N.: 4059 **PT100** S/N.: T00101 **Climatic Chamber** S/N.: SH18WS68
	20% R.H to 90 % R.H	1.5 % R.H		**Digital Thermo-hygrometer** S/N: 5210237 & 36402180 **Climatic Chamber** S/N.: SH18WS68
	20 °C to 70°C 20% R.H to 90 % R.H	0.40 °C 1.5 % R.H		**Platinum Resistance Thermometer** S/N.: 4059 **Pt100** S.N.: T00101 **Digital Thermo-hygrometer** S/N.: 5210237 & 36402180 **Climatic Chamber** S/N.: SH18WS68

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Accelerometer (Permanent & On-Site)				
Calibration of rotational speed devices (rpm) (Mechanical – Photo type – Tachometer)	Up to 500 rpm	0.08 rpm	**SOP TEQ-R1 based on the Reference Manufacturer Manual**	**Stroboscope** S/N.: 33930022 **Tachometer** S/N.: 2025501
	500 rpm to 1000 rpm	0.10 rpm		
	1000 rpm to 100000 rpm	0.82 rpm		

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Time				
Calibration of Stopwatch & Timer	Up to 24 hr	0.19 sec/24 hr	**SOP TEQ-T1 based on NIST Guide (SP- 960-12)**	**Digital Stopwatch** S/N: 507Q05R
Spectrophotometer (Permanent & On-Site)				
Calibration of UV/Vis Spectrophotometers	200 nm to 900 nm 0.1 Abs to 2.5 Abs	0.31 nm 0.008 Abs	**SOP TEQ - SP based on ASTM-E275-8-2022**	**Hellma Filters Set** S/N.: E3604 & E1230 & E2047&E0340

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Conductivity / TDS Meter (Permanent & On-Site)				
Calibration of Conductivity Devices	0 µS/cm to 20000 µS/cm	1.0 %	**SOP TEQ-Cond based on ASTM D1125-14-2023**	**Standard Solutions:** 83 µS/cm , 1413 µS/cm , 12.88 mS/cm, 20 mS/cm **Digital Multiparameter Conductivity, and TDS Meter** S/N.: 6279665
Total Dissolved Solids "TDS" Meter	0 mg/L to 15000 mg/L	1.3 %		
pH Meter (Permanent & On-Site)				
Calibration of pH Meter	4.00 7.00 10.00	0.02	**SOP TEQ-pH based on ISO 10523-2008.**	**Standard buffer solution:** pH 4, pH 7, pH 10

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Measurand Quantity	Range	Uncertainty Described in Calibration & Measurement Capability*	Brief Description of Measurement and Equipment Used	
Force (On Site)				
Calibration of Universal Testing Machine	60 N to 680 kN	0.13 %	**ISO 7500-1:2018**	**Load Cell** S/N.: 822008718/002820CX

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Material / Products Tested	Types of Tests / Properties Measured / Range of Measurements	Standard Specification / Techniques Used	Brief Description of Measurement and Equipment Used
General Products/Workpieces (Permanent)	Dimensions Measurement / Diameter (up to 300 mm), Length (up to 5000 mm)	SOP TEQ – DM based on NPL Guide.	**Digital Micrometer** S/N: 2509172338 **Digital Caliper** S/N:1303191320 **Ruler & Tape tester:** S/N: 6928640319822 &LT2105 &LT2106
Pressure Safety/Relief Valves (Permanent)	Testing of Operational Hydrilc Pressure up to 1200 bar	ISO 4126-1:2013	**Digital Pressure Calibrator** S/N.: 3309514 & 10280325 **Digital Pressure gauge** S/N.:4471114 &103305719 **Reference Hydraulic Pressure Gauge** S/N.: 3405045 & 10285257
Water/liquid Sample	Determination of pH (up to 14 pH) Determination of Conductivity (up to 20 mS/cm) Determination of Total Dissolved Solids (TDS) (up to 12000 mg/L)	SOP TEQ – WM based on ISO 10523-2008 & ASTM D 1125-14-2023.	**Digital Multiparameter Meter pH, Conductivity, and TDS Meter** S/N.: 6279665

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