

**MATERIALS ENGINEERING DIRECTORATE**  
**LIST OF APPROVED INDEPENDENT CALIBRATION LABORATORIES**  
**as of 31<sup>st</sup> May 2022**

	Name of Laboratory	Approval Given for Calibration Services on	TCR No.	TCR Issue Date	Valid Until
1	Al Hoty Analytical Services – Calibration Department (Bahrain)	Dimensional – calipers, gauges, micrometers, dial indicators and test sieve Mechanical – pressure gauges, pressure switches, pressure valves, pressure transmitter, pressure calibrators, pressure relief valve, low pressure (pneumatic), absolute pressure (pneumatic), vacuum gauges, vacuum calibrators, vacuum switches, vacuum transmitters, weights, weighing balances, weighbridge, volume, torque wrench, torque screw driver, torque dial gauge, compression force, dynamometer, sound level meter, tachometer, and rotational speed Thermal – Measure (thermocouples and RTD), Generate (thermocouples and RTD), temperature indicator with sensor, temperature gauges, thermometer, temperature bath, dry block, thermal imager, pyrometer, chiller, autoclave, freezer, refrigerator, incubators, ovens, chamber, furnaces, and humidity measure Electrical – Measure (AC/DC voltage, AC/DC high voltage, AC/DC current, DC resistance, capacitance) and Generate (AC/DC voltage, AC/DC current, AC/DC power, DC resistance, capacitance, phase) Time and Frequency – Measure/Generate, Stop Watch Chemical – pH meter	4574/2022	08/02/2022	08/02/2023

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2	International Laboratory Services - Calibration Section (Bahrain)	Dimensional – micrometers, calipers, height gauges, dial indicator / gauge, plain plug gauge, dial thickness gauge, bore gauge (mechanism check only), feeler gauge, pin gauge, bevel protector, combination set, dial calibration tester and test sieve Electrical – AC/DC voltage (source and measure), AC/DC current (source, simulate and measure), resistance (source and measure), capacitance (source and measure), and electrical temperature simulation (thermocouple and RTDs) Time and Frequency – frequency (source and measure), stopwatches and timers Amount of Substance – ph meters and conductivity meters (excluding probe) Temperature – thermocouples, digital thermometers, resistance thermometer, liquid in glass thermometers (partial immersion only), ovens, incubators, mechanical (dial) thermometers and muffle furnaces) Mass and Related Quantities – mass pieces, mass balances and scales, volumetric glassware, hydraulic pressure gauges and compression	4291/2021	11/07/2021	11/07/2022

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3	RICI Co. W.L.L. (Bahrain)	Dimensional – calipers, plunger type indicators, outside micrometers, height gauges, depth gauges, snap gauges, thickness gauge, protractors and angle gauges Mechanical – compression, balances, pressure gauges, pressure transmitter, pressure chart recorder, vacuum gauges, safety relief valve, torque wrench and hardness testing machines Thermal – ovens, thermometers, RTD, water baths, furnaces, autoclaves, incubators, hot plates, freezers/refrigerators, temperature transmitter and temperature recorder Electrical – holiday detector, DC voltage, DC current, AC voltage, AC current, resistance, electrical calibration of thermocouples and RTD Acoustics & Vibrations – sound level meter and vibration meter Nuclear – nuclear density gauges Chemical – multi gas detectors	4607/2022	08/03/2022	08/03/2023

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4	Universal Laboratories W.L.L - Calibration Section (Bahrain)	Dimensional – micrometers, Vernier calipers, height gauges and dial gauges Mechanical – standard weights (classes F1, F2 and M), analytical balances, digital balances, platform balances, pressure gauges, switches, recorders, vacuum gauges, torque wrenches, force compression machines, tensile machines, volume pipettes, burettes, flasks, rotation - tachometer, centrifuge, stirrer, rotating equipment and sound level meter Thermal – digital and glass type thermometers, oven, incubator, water bath, temperature calibrators, temperature transmitters, chiller, freezer, hotplate, thermocyclers and relative humidity Electrical – Generate (AC/DC voltage, AC/DC current, resistance and capacitance), Measure (AC/DC voltage, AC/DC current, resistance, capacitance), High Voltage Measure (HV tester, cable test set), RCD tester, Loop Generate (loop tester), Insulation Generate (insulation tester) and thermocouples (simulated temperature generate and measure) Chemical - conductivity meter, pH meter, TDS meter and spectrophotometer	4453/2021	01/12/2021	01/12/2022

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5	CATIIS W.L.L. (Bahrain)	<p>Dimensional – Vernier caliper, micrometers, height gauge and dial indicators</p> <p>Mechanical – pressure and vacuum gauge/indicator, transmitter with or without indicator, recorder, switch, standard weights, weighing balance, compression testing machine, micropipette / syringes/ pipette and burette, glass wares-volumetric cylinder, beaker, flask, etc.</p> <p>Thermal – indicator of oven/incubator/water bath/ temperature sources &amp; calibrator /chiller/freezer, digital thermometers, temperature sensor, transmitter (RTD/thermocouple), relative humidity meter</p> <p>Electrical – Generate (AC/DC voltage, AC/DC current, DC resistance, capacitance, simulated temperature thermocouples) and Measure (AC/DC voltage, AC/DC current, DC resistance, simulated temperature thermocouples)</p> <p>Time and Frequency – frequency (Generate)</p> <p>Chemical – pH meter and conductivity meter</p>			<b>Renewal Under Process</b>