



**Laboratory Name:** CE GROUP S.A.R.L  
Pierre Gemayel Street, Najem Bldg Ground Floor.  
Baachrieh, Jdeideh Beirut – Lebanon



**Accreditation Standard** ISO/IEC 17025:2017 **Accreditation Number:** ACL690-24 Annex:1/6

No	Discipline / Group	Quantity Measured/ Instrument	Range	* Calibration Measurement Capability (±)	Remarks
1	Electro-Technical-Alternating Current (< 1 GHZ) (Source)	AC Current @10Hz to 10 kHz	29 mA to 11 A	0.06%	
			11 A to 50 A	0.09%	
			50 A to 150 A	0.1%	
			150 A to 500 A	0.2%	
			500 A to 2000 A	0.3%	
2	Electro-Technical-Direct Current (Source)	DC Current	0 A to 11 A	0.01%	
			11 A to 50 A	0.05%	
			50 A to 150 A	0.1%	
			150 A to 500 A	0.2%	
			500 A to 2000 A	0.3%	
3	Electro-Technical-Alternating Current (< 1 GHZ) (Source)	AC Voltage @10 Hz to 500 kHz	1 mV to 50 V	0.015%	Using <b>Fluke 5500a</b> multifunction calibrator with 20 Turn coil for clamp meters
			50 V to 250 V	0.02%	
			250V to 1020 V	0.03%	
4	Electro-Technical-Direct Current (Source)	DC Voltage	1 mV to 50 V	20ppm	
			50 V to 250 V	30ppm	
			250V to 1020 V	50ppm	
5	Electro-Technical-Alternating Current (< 1 GHZ) (Source)	AC Resistance @1kHz	0 to 50 M Ohm	0.005%	
			50 M Ohm TO 100 M Ohm	0.009%	
			100 M Ohm to 999 M Ohm	0.010%	
6	Electro-Technical-Direct Current (Source)	DC Resistance	0 to 50 M Ohm	0.005%	
			50 M Ohm TO 100 M Ohm	0.009%	
			100 M Ohm to 999 M Ohm	0.010%	
7	Electro-Technical-Alternating Current (< 1 GHZ) (Source)	Capacitance @1kHz	0.33 nF to 1.1 mF	0.25%	
8	Electro-Technical-Alternating Current (< 1 GHZ) (Source)	Inductance @1kHz	100 µH to 10 H	0.25%	



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No	Discipline / Group	Quantity Measured/ Instrument	Range/Class	* Calibration Measurement Capability ( $\pm$ )	Remarks
9	Pressure Calibration	Pressure	-1 Bar to 50.00 Bar	0.05%	Using Reference pressure Gauge <b>GE Druck DPI104</b> & Pressure Pumps <b>HPX 0-700Bar</b>
			50.00 Bar to 100.00 Bar	0.10%	
			100.00 Bar to 200.00 Bar	0.15%	
			200.00 Bar to 350.00 Bar	0.20%	
10	Temperature Calibration	Temperature	-20 °C to 0.00 °C	0.2% or $\pm 0.3^{\circ}\text{C}$	Using Temperature Dry Bath <b>Sansel Tcal1501/30</b> & Reference Thermocouple <b>Fluke 51 ii &amp; Fluke 80pk-26</b>
			0.0 °C to +150.00 °C	0.1% or $\pm 0.2^{\circ}\text{C}$	
			+150.00 °C to +300.00 °C	0.2% or $\pm 0.3^{\circ}\text{C}$	
			+300.00 °C to +550.00 °C	0.3% or $\pm 0.4^{\circ}\text{C}$	
11	Humidity Calibration	Humidity	5% to 25%	0.2%RH	Using Humidity Chamber <b>Sansel Hcal 1104U</b> & Reference Thermohygrometer Exttech RH390
			25% to 95%	0.3%RH	



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No	Discipline / Group	Quantity Measured/ Instrument	Range/Class	* Calibration Measurement Capability ( $\pm$ )	Remarks
12	Balance/Mass Calibration	Mass	1mg-20mg /E1	0.0003mg	Using Reference set of weights <b>E1 &amp; E2</b> from 1mg to 50kg & <b>F2 &amp; M1</b> Set of weights up to 10 Tons for industrial Balance
			50mg-500mg /E1	0.004mg-0.008mg	
			1g-200g /E1	0.010mg-0.10mg	
			500g-5kg /E1	0.25mg-2.5mg	
			5kg-20kg /E2	8.0mg-30.0mg	
			20kg-50kg /E2	30.0mg-80.0mg	
			50kg-100kg /F2	800.0mg-1.6g	
			200kg-500kg /F2	3.0g-8.0g	
			500kg-1,000kg /F2	8.0g-16.0g	
			1,000kg-2,000kg /M1	50.0g-100.0g	
			2,000kg-5,000kg /M1	100.0g-250.0g	
			5,000kg-8,000kg /M1	250.0g-750.0g	
8,000kg-10,000kg /M1	750.0g-1,000.0g				
13	Force Laboratory Calibration	Force	30 tf	0.5%	Load Cell Proving Ring, Force Gauge, Tension Gauge, Belt Tension, Hanging Scale
			0 ~ 1500 Nm	0.2Nm	Hand Torque Tools Torque Wrench, Torque Gun, Screwdriver
			0 ~ 1500 Nm	0.2Nm	Torque Meter/Calibrator
			0 to 100 shore hardness index	1000ppm	Hardness Durometer
			0 ~ 10 tf	0.5%	Adhesion Tester
			0 ~ 100 scale	0.2%	Elmendorf Tearing
14	Force Field Service Calibration	Force	980N-980KN UP TO 10,000KGF	0.3N	Compress/tensile



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No	Discipline / Group	Quantity Measured/ Instrument	Range/Class	* Calibration Measurement Capability (±)	Remarks
15	Volumetric	Volume (ml)	0.5...2000 mL	0.1%	Dispenser / Digital Burette
			0.5...2000 mL	0.1%	POVA – Pipette / Micropipette
			0.5...2000 mL	0.1%	Graduated Pipette
			0.5...2000 mL	0.1%	Graduated Pipette
		%	0% - 50% 1.333 – 1.420	0.5%	Refractometer: Sucrose Mass Fraction Refractive Index
		Volume (ml)	0 ~ 2000 ml	0.1%	Beaker, Pitcher
100 ~ 2000 ml	0.1%		Dispenser		
16	Time And Frequency	Time and Frequency	60 ~ 40000 rpm	0.5%	Tachometer calibration
		Time	3 ~ 100 cm/sec	0/GPS	Stopwatch max 1/100s
			0 ~ 24H	0/GPS	Timer max 1/100s (Relay/count up/count down)
17	Dimension Laboratory	Dimension	0 ~ 250 mm 0 ~ 4 inch	0.01mm	Gauge Blocks
			0 ~ 300 mm 0 ~ 600 mm 0 ~ 1000 mm	0.01mm	Precision Caliper
			0 ~ 300 mm	0.01mm	Depth Micrometer /Gauge
			0 ~ 150 mm 0 ~ 300 mm 0 ~ 300 mm	0.01mm	External Micrometer
			0 ~ 500 mm	0.01mm	Internal Micrometer



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**Accreditation Standard** ISO/IEC 17025:2017 **Accreditation Number:** ACL690-24 Annex:5/6

<b>ISO TRACEABLE</b>					
<b>No</b>	<b>Discipline / Group</b>	<b>Quantity Measured/ Instrument</b>	<b>Range/Class</b>	<b>* Calibration Measurement Capability (±)</b>	<b>Remarks</b>
17	Dimension Laboratory	Dimension	0 ~ 50 mm	0.01mm	Micrometer Head & Calibration Tester Minimum resolution 0.1µm
			0 ~ 20 mm	0.01mm	Dial Thickness Gauge
			0 ~ 100 mm	0.01mm	Dial Gauge
			0.14 ~ 1 mm	0.01mm	Dial Test Indicator
			0 ~ 400 mm	0.01mm	Square, L-Square
			0 ~ 180 °	0.01mm	Angle (Angle Block, Protractor)
			0 ~ 180 °	0.01mm	Angle (Angle Block, Protractor)
			0 ~ 2000 µm	0.01mm	Electrical Comparator / MU checker
			0.01 ~ 3 mm	0.01mm	Feeler Gauge
18	Air Velocity Calibration	Velocity	0 ~ 50 m/s	0.2%	Anemometer
19	pH Calibration	pH	Ph 0~14	0.1%	pH-meter
20	Conductivity	Conductivity	0.05 ~ 12,880 µS/cm	0.2%	Conductivity meter
21	Photometric	Lux	0 ~ 400,000 Lux	1%	Photometric calibration
		Wave length	198 to 1100 nm	± 1.5nm	Spectrophotometry
			198 to 1100 nm	± 1.5nm	Spectrocolorimetry
22	Acoustic	Sound	Up to 140dB	0.5 dB	Sound level meter



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**Accreditation Standard** ISO/IEC 17025:2017 **Accreditation Number:** ACL690-24 Annex:6/6

ISO TRACEABLE					
No	Discipline / Group	Quantity Measured/ Instrument	Range/Class	* Calibration Measurement Capability (±)	Remarks
23	Moisture	Moisture	5 ~ 31% MC	0.2%	Moisture meter
24	Flow	Flow	0 ~ 200 L/min	1%	Flowmeter, Rotameter ~ Liquid Flowrate, Totalizer calibration
25			DN25-DN50...DN700	1%	Ultrasonic Flowmeter ~ Liquid Pipe size up to 400" inch diameter calibration
26	Dissolved Oxygen	DO	0 ~ 7.5 mg/L	0.2%	Dissolved oxygen meter calibration
27	Gloss Meter	Gloss	20°, 60°, 85°	0.2%	Gloss meter calibration
28	Gas	nitrogen (N2)	100 %	1%	Gas detector calibration
		oxygen (O2)	20.9 %	1%	
		Carbon dioxide (CO2)	10 % or 100 000 ppm	1%	
		methane (CH4)	0.1 % or 1000 ppm	1%	
29	Vibration	Velocity Acceleration	Up to 30 mms-1 Up to 30 ms-2	0.2%	Vibration meter calibration