



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Instrumentation Engineering Services Ltd.

Building: 296/A (Unit: D1, D2 & E1) & Building: 297 (Ground Floor),

Road: 19/B, New DOHS, Mohakhali, Dhaka-1206.

This is to certify that this

Calibration Laboratory

is accredited in accordance with the international standard
ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : **02.005.15**
Accreditation Date : **25 October 2015**
Date of Issuance : **19 October 2021**
Date of Expiration : **24 October 2024**




Md. Monwarul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

SCOPE OF ACCREDITATION

(For Calibration Laboratory)

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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
Field: Thermal				
1.	Temperature Sensor/Transmitter (RTD/Thermocouple) with/without Indicator and Dry Block Calibrator	IESL CP 01	-40~155°C	0.063°C
			35~660°C	0.078°C
2.	Liquid in Glass Thermometer	IESL CP:20	-10~150°C	0.19°C
3.	Pyrometer/IR Thermometer	IESL CP:96	300~1200°C	1.37°C
4.	Humidity Sensor with Indicator (Dial/Digital)/Thermo Hygrometer, Data Logger	IESL CP 19	5~95%	1.12%
5.	Autoclave, Incubator, Temperature Chamber, Freezer, Refrigerator, Humidity Chamber, Environmental /Climatic Humidity Chamber, Oven, Muffle Furnace	IESL CP:22	-40~140°C (Autoclave, Incubator, Freezer, Refrigerator)	0.08
			-20~70°C (Temperature Chamber, Humidity Chamber, Environmental /Climatic Humidity Chamber)	0.2
			0~1700°C (Oven, Muffle Furnace)	1°C
Field: Mechanical				
6.	Mass Weights	IESL CP 08	1 mg	0.0000091 g
			2 mg	0.000014 g
			5 mg	0.000018 g



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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
			10 mg	0.000014 g
			20 mg	0.000089 g
			50 mg	0.000098 g
			100 mg	0.000089 g
			200 mg	0.000089 g
			500 mg	0.000098 g
			1 g	0.000029 g
			2 g	0.000011 g
			5 g	0.000024 g
			10 g	0.000022 g
			20 g	0.000015 g
			50 g	0.000022 g
			100 g	0.000027 g
			200 g	0.000049 g
			500 g	0.0018 g
			1 kg	0.00096 g
			2 kg	0.0015 g
			5 kg	0.0026 g
			10 kg	0.0035 g
			20 kg	0.0082 g
			50 kg	0.011 g
7.	Balance E1/E2/F1/M1 Class Weight (On sight & lab)	IESL CP: 09	0 to 220g Readability ≥0.01 mg	±0.04mg
			0 to 1.2kg Readability =0.01 g	±0.02g



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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
			0 to 1.2kg Readability ≥1 g	±01.6g
			0 to 100kg Readability ≥1 g	±5.5g
			0 to 500kg Readability ≥1 g	±10.3g
			0 to 2000kg Readability ≥1 g	±20.4g
8.	Volumetric Glassware / Laboratory Ware / Burette Pipette Measuring Cylinder / Volumetric Flask / Beakers / Jars / Other Laboratory Wares	IESL CP: 12	1ml~20ml 200ml 500ml 2000ml 5000ml 20000ml	0.0008ml 0.0039ml 0.0063ml 0.0089ml 0.097ml 1.89ml
9.	Pressure Gauge & Transmitter	IESL CP:02	0~100bar 100~700bar	0.04% 0.03%
10.	Manometer, Differential Pressure Gauge	IESL CP:107	-2500.00~2500.00 pa	7.03pa
11.	Digital/Analogue Vacuum Gauge/ Vacuum Transducer/ Transmitter	IESL CP:108	-.09~0 bar	0.005 bar
12.	Time Measuring Instruments/ Timer/ Stopwatch	IESL CP:13	0~60s 60s~600s 600s~1800s 1800s~3600s 3600s~7200s	0.38s 0.44s 0.71s 0.87s 1.19s




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			7200s~36000s	4.32s
			36000s~86400s	7.61s
13.	Counter/Time	IESL CP:30	0~60s	0.48s
			1m~10m	0.64s
			600s~30m	0.81s
			30m~60m	0.97s
			60m~1h:30m	5.19s
			1h:30m~10h	6.32s
			10h~24h	12.61s
14.	RPM Measuring instruments/ tachometer	IESL CP:25	Contact: 0~10000rpm	CMC
			1~10 rpm	1.3 rpm
			10~2000 rpm	2.1 rpm
			2000~10000 rpm	5.4 rpm
			Non-contact: 0~100000 rpm	
			5~10 rpm	0.11 rpm
			10~100 rpm	0.23 rpm
			100~500 rpm	0.45 rpm
			500~1000 rpm	0.92 rpm
			1000~5000 rpm	1.20 rpm
			5000~10000 rpm	4.97 rpm
			10000~60000 rpm	14 rpm
			60000~100000 rpm	23 rpm
15.	RPM and Speed Source	IESL CP:102	Contact: 0~10000 rpm	CMC



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			0~10 rpm	1.7 rpm
			10~2000 rpm	2.9 rpm
			2000~10000 rpm	3.1 rpm
			Non-contact: 0~100000 rpm	
			5~10 rpm	0.45 rpm
			10~100 rpm	0.92 rpm
			100~500 rpm	1.20 rpm
			500~1000 rpm	2.33 rpm
			1000~5000 rpm	4.56 rpm
			5000~10000 rpm	6.32 rpm
			10000~60000 rpm	18.43 rpm
			60000~100000 rpm	26.43 rpm
16.	Torque Wrench	IESL CP 41	50.00 ~ 250 Nm	±0.7 Nm
			300.00 ~ 500.00 Nm	±0.6 Nm
17.	Universal/Tensile/ Compression Testing Machine	IESL CP 94	0 ~ 100000kg / 1000 kN	±0.7%
18.	Force Gauge / Load Cell	IESL CP-43	0 ~ 2000 kg / 2 kN	±0.9%
19.	Liquid Flow Meter	IESL CP 14	0 ~ 450000 lph	±0.67%
20.	Bevel Protector / Digital / Analogue Angle Gauge	IESL CP 93	0 ~ 90 Degree	±0.17°
21.	Sound Level Meter	IESL CP:28	94dB	±0.6 dB
			114dB	±0.6 dB

Field: Dimensional

22.	Measuring Tape	IESL CP 03	Up to 50 mtr	$\pm\{490+(\sqrt{L/1000})\} \mu\text{m}$
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S.N.	Measured quantity Instrument/Gauge	Reference to Method	Measurement range/value	Measurement Capabilities expressed as expanded uncertainty U (k=2)
				Up to 1000mm $\pm\{490 \cdot (\sqrt{L/1000})\} \mu\text{m}$ >1000mm (L is in mm)
23.	Steel Scale	IESL CP 04	Up to 150 cm	$\pm\{490 + (\sqrt{L/1000})\} \mu\text{m}$ (L is in mm)
24.	External Micrometer, Internal Micrometer & Depth Micrometer	IESL CP 05		
	LC-0.001mm		0-600mm	$\pm 1 \mu\text{m}$
	LC-0.01mm		0-600mm	$\pm 7 \mu\text{m}$
25.	Dial / Digimatic Gauge	IESL CP 06		
	LC-0.001mm		0-120mm	$\pm 4 \mu\text{m}$
	LC-0.01mm		0-100mm	$\pm 10 \mu\text{m}$
26.	Vernier Caliper / Digimatic Caliper	IESL CP 07		
	LC-0.01mm		0-600mm	$\pm 12 \mu\text{m}$
	LC-0.01mm		0-600mm	$\pm 18 \mu\text{m}$
	LC-0.02mm		0-600mm	$\pm 25 \mu\text{m}$

Field: Optical

27.	Light Meter	IESL CP:24	Up to 16000 Lux	$\pm 4.1\%$
28.	Lux Calibration	IESL CP:104	Up to 16000 Lux	$\pm 4.1\%$

Field: Electro-technical

29.	AC/DC Current	IESL CP 15	AC Current	
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	Measure		Range	@ Frequency
			29 ~ 330 μ A	10 Hz ~ 1 kHz 0.2 μ A
			330 μ A ~ 3 mA	10 Hz ~ 1 kHz 0.00063 mA
			3 mA ~ 33 mA	10 Hz ~ 1 kHz 0.017 mA
			33 mA ~ 330 mA	10 Hz ~ 1 kHz 0.13 mA
			330 mA ~ 3 A	10 Hz ~ 440 Hz 0.0016 A
			3 A ~ 20 A	10 Hz ~ 1 kHz 0.0098 A
			20 A ~ 100 A (Using 50 turn coil)	10 Hz ~ 1 kHz 0.061 A
			100 A ~ 990 A (Using 50 turn coil)	50 Hz 0.073 A
			DC Current	
			29 ~ 330 μ A	0.010 μ A
			330 μ A ~ 3 mA	0.00031 mA
			3 mA ~ 33 mA	0.0017 mA
			33 mA ~ 330 mA	0.0098 mA
			330 mA ~ 20 A	0.061 A
			20 A ~ 100 A (Using 50 turn coil)	0.061 A
			100 A ~ 990 A (Using 50 turn coil)	0.08 A
30.	Resistance Measure	IESL CP 16	1 Ω	0.00061 Ω
			10 Ω	0.0061 Ω
			100 Ω	0.062 Ω
			1 k Ω	0.00073 k Ω
			10 k Ω	0.0080 k Ω
			60 k Ω	0.0058 k Ω
			100 k Ω	0.000092 k Ω



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			300 kΩ	0.00023 kΩ
			500 kΩ	0.00049 kΩ
			800 kΩ	0.00092 kΩ
			2 MΩ	0.000024 MΩ
			10 MΩ	0.000013 MΩ
			100MΩ	0.000134 MΩ
31.	Frequency Measure	IESL CP 17	20 Hz	0.0084 Hz
			50 Hz	0.0092 Hz
			500 Hz	0.58 Hz
			1000 Hz	0.58 Hz
			10 kHz	0.0058 KHz
			50 kHz	0.0097 KHz
32.	AC/DC Voltage source	IESL CP 18	AC Voltage	
			Range @ Frequency	
			10 mV	0.00013 V
			50 mV	0.00015 V
			100 mV	0.00017 V
			1 V	0.00035 V
			10 V	0.00062 V
			15 V	0.00064 V
			100 V	0.0085 V
			200 V	0.068 V
			400 V	0.075 V
			750 V	0.079 V
			DC Voltage	



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			0.01 V	0.00012 V
			0.05 V	0.00012 V
			0.10 V	0.00012 V
			2 V	0.00030 V
			10 V	0.00064 V
			15 V	0.00064 V
			100 V	0.0082 V
			200 V	0.061 V
			400 V	0.061 V
			800 V	0.061 V
			990 V	0.061 V
33.	AC/DC Voltage measure	IESL CP 52	AC Voltage	
			0.01 V	0.0070 V
			0.05 V	0.014 V
			0.1 V	0.059 V
			1 V	0.00063 V
			2 V	0.00063 V
			20 V	0.0063 V
			220 V	0.0063 V
			300 V	0.063 V
			50 V	0.063 V
			100 V	0.062 V
			200 V	0.063 V
			400 V	0.073 V
			800 V	0.61 V



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			996 V	0.61 V
			DC Voltage	
			0.01 V	0.0000064 V
			0.05 V	0.0000065 V
			0.1 V	0.0000064 V
			2 V	0.000021 V
			20 V	0.00018 V
			300 V	0.0063 V
			400 V	0.061 V
			800 V	0.61 V
			995 V	0.61 V
34.	AC/DC current source	IESL CP 53	AC Current	
			Range @ Frequency	
			0 ~ 100 μ A	0.16 μ A
			100 μ A ~ 1 mA	0.0017 mA
			1 mA ~ 10 mA	0.016 mA
			10 mA ~ 100 mA	0.16 mA
			100 mA ~ 1 A	0.0016 A
			1 A ~ 3 A	0.023 A
			3 A ~ 10 A	0.026 A
			DC Current	
			0 ~ 100 μ A	0.012 μ A
			100 μ A ~ 1 mA	0.011 mA
			1 mA ~ 10 mA	0.57 mA
			10 mA ~ 100 mA	0.63 A



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			100 mA ~ 1 A		0.00076 A
			1 A ~ 3 A		0.0095 A
			3 A ~ 22 A		0.075 A
35.	Resistance source	IESL CP 54	100 Ω		0.019 Ω
			1k Ω		0.0016 Ω
			100k Ω		0.015 Ω
			1M Ω		0.019 Ω
			100 MΩ		0.94 Ω
36.	Frequency Source	IESL CP 55	5 Hz		0.014 Hz
			50 Hz		0.060 Hz
			500 Hz		0.060 Hz
			1 kHz		0.0058 kHz
			10 kHz		0.024 kHz
37.	RTD temperature indicator/controller Source	IESL CP 59	Types of RTD	No. of Wires	Range (°C)
			Pt100 (385)		-200 to 800
			Pt100 (3926)		-200 to 630
			Ni120 (672)		-80 to 260
			Pt200 (385)	2 wires/	-200 to 630
			Pt500 (385)	3 wires/	-200 to 630
			Pt1000 (385)	4 wires	-200 to 630
			Cu10 (427)		-100 to 260
			Pt100 (3916)		-200 to 630
38.	Thermocouple Temperature indicator/controller	IESL CP 60	Types of Thermocouples		Range (°C)
			B		600~1820
					0.89°C



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	Source	C	0~2316	
		E	-250~1000	
		J	-210~1200	
		K	-200~1372	
		T	-350~400	
		L	-200~900	
		N	-200~1300	
		R	0~1767	
		S	0~1767	
		T	-250~400	
		U	-200~600	
39.	Capacitance source	IESL CP 62	1 nF	0.002 nF
			100 nF	2.2 nF
			1 μF	0.0074 μF
			10 μF	0.0074 μF
			100 μF	0.0074 μF
40.	Capacitance Measure	IESL CP 63	3.5 μF	0.002 μF
			10 μF	0.032 μF
			100 μF	0.12 μF
			500 μF	1.23 μF
			995 μF	5.23 μF
41.	RTD temperature indicator/controller measure	IESL CP 88	Types of RTD	No. of Wires
			Pt100 (385)	2 wires/
			Pt100 (3926)	3 wires/
			Ni120 (672)	4 wires
				Range (°C)
				-200 to 800
				-200 to 630
				-80 to 260
				0.0076°C



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			Pt200 (385)	-200 to 630
			Pt500 (385)	-200 to 630
			Pt1000 (385)	-200 to 630
			Cu10 (427)	-100 to 260
42.	Thermocouple Temperature indicator/controller measure	IESL CP 89	Types of Thermocouples	Range (°C)
			B	600~1820
			C	0~2316
			E	-250~1000
			J	-210~1200
			K	-200~1372
			T	-350~400
			L	-200~900
			N	-200~1300
			R	0~1767
			S	0~1767
			T	-250~400
			U	-200~600
43.	Insulation Resistance Tester	IESL CP 81	5 MΩ ~ 200 MΩ	2.88%
			500 MΩ	3.95%
			1 GΩ	3.98%
			10 GΩ	4.07%
			100 GΩ	10.21%
44.	Earth Tester	IESL CP 82	1 mΩ ~ 1000 Ω	0.73 %

End



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