



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.

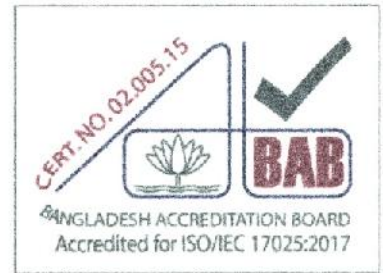
This is to certify that this

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	1-5 mg	0.01 mg
			10 mg	0.02 mg


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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)
			20 mg	0.03 mg
			50 mg	0.04 mg
			100 mg	0.05 mg
			200 mg	0.06 mg
			500 mg	0.08 mg
			1 g	0.10 mg
			2 g	0.12 mg
			5 g	0.16 mg
			10 g	0.20 mg
			20 g	0.25 mg
			50 g	0.30 mg
			100 g	0.50 mg
			200 g	1.00 mg
			500 g	2.5 mg
			1 kg	5.00 mg
			2 kg	10.00 mg
			5 kg	25.00mg
			10 kg	50.00 mg
			20 kg	100.00 mg
7.	Balance E1/E2/F1/M1 Class Weight (On sight & lab)	IESL CP: 09	0 to 220g Readability ≥0.01 mg	0.2mg
			0 to 1.2kg Readability =0.01 g	0.02g
			0 to 1.2kg Readability	01.6g



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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)
			≥1 g	
			0 to 100kg Readability ≥1 g	5.5g
			0 to 500kg Readability ≥5 g	10.3g
			0 to 2000kg Readability ≥5g	20.3g
8.	Volumetric Glassware / Laboratory Ware / Burette Pipette Measuring Cylinder / Volumetric Flask / Beakers / Jars / Other Laboratory Wares	IESL CP: 12	1ml~20ml	0.0008ml
			200ml	0.0039ml
			500ml	0.0063ml
			2000ml	0.0089ml
			5000ml	0.097ml
			20000ml	1.89ml
9.	Pressure Gauge & Transmitter	IESL CP:02	0~100bar	0.04%
			100~700bar	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	1~60s	0.40s
			60s~600s	0.50s
			600s~1800s	1.00s
			1800s~3600s	1.50s
			3600s~86400s	23.00s



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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)		
13.	Counter/Time	IESL CP:30	1~60s	0.40s		
			60s~600s	0.50s		
			600s~1800s	1.00s		
			1800s~3600s	1.50s		
			3600s~86400s	23.00s		
14.	Contact RPM and Speed Source	IESL CP:102	10-20 rpm	1.5 rpm		
			20-2000 rpm	2.5 rpm		
			2000-20000 rpm	6.0 rpm		
	Noncontact RPM and Speed Source		10-20 rpm	1.5 rpm		
			20-2000 rpm	2.5 rpm		
			2000-20000 rpm	6.0 rpm		
			20000-40000 rpm	15.0 rpm		
			40000-100000 rpm	25.0 rpm		
	15.		Contact RPM Measuring Instruments/Tachometer and Speed Source	IESL CP:25	10-20 rpm	1.5 rpm
					20-2000 rpm	2.5 rpm
		2000-20000 rpm	6.0 rpm			
Noncontact RPM Measuring Instruments/Tachometer and Speed Source		10-20 rpm	1.5 rpm			
		20-2000 rpm	2.5 rpm			
		2000-20000 rpm	6.0 rpm			
		20000-40000 rpm	15.0 rpm			
		40000-100000 rpm	25.0 rpm			
16.		Torque Wrench	IESL CP 41		50.00 ~ 250 Nm	±0.7 Nm


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			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°

Field: Dimensional

21.	Measuring Tape	IESL CP 03	Up to 50m	{500(√L/1000)} μm (L is in mm)
22.	Steel Scale	IESL CP 04	Up to 150 cm	{500(√L/1000)} μm (L is in mm)
23.	External Micrometer, Internal Micrometer & Depth Micrometer	IESL CP 05	Up to 100mm For L.C 0.001mm For L.C 0.01mm	1 μm 7μm
24.	Dial / Digimatic Gauge	IESL CP 06	Up to 100mm For L.C 0.001mm For L.C 0.002mm For L.C 0.01mm	4μm 6μm 10μm
25.	Vernier Caliper / Digimatic Caliper	IESL CP 07	Up to 300mm For L.C 0.01mm Up to 600mm For L.C 0.01mm For L.C 0.02mm	12μm 18μm 25μm


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Field: Mechanical					
26.	Sound Level Meter	IESL CP:28	94dB	±0.6 dB	
			114dB	±0.6 dB	
Field: Optical					
27.	Light Meter	IESL CP:24	Up to 16000 Lux	4.1%	
28.	Lux Calibration	IESL CP:104	Up to 16000 Lux	4.1%	
Field: Electro-technical					
29.	AC/DC Current Measure	IESL CP 15	AC Current		
			Range @ Frequency		
			29 ~ 330 µA	10 Hz ~ 1 kHz	0.2 µA
			330 µA ~ 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 µA		0.010 µA
			330 µA ~ 3 mA		0.00031 mA


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			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)	
			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 kΩ	0.00073 kΩ
			10 kΩ	0.0080 kΩ
			60 kΩ	0.0058 kΩ
			100 kΩ	0.000092 kΩ
			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	IESL CP 18	AC Voltage	



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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)
	source		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	
			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	10Hz to 500 kHz 0.0070 V


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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)
			0.05 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
			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	


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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 ~ 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	3 Hz ~10 kHz
			100 mA ~ 1 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
			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 M Ω	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



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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)	
37.	RTD temperature indicator/controller Source	IESL CP 59	Types of RTD	Range (°C)	0.098 °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 Source	IESL CP 60	Types of Thermocouples	Range (°C)	0.89 °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			
39.	Capacitance source	IESL CP 62	1 nF	0.002 nF	
			100 nF	2.2 nF	



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			1 μ F		0.0074 μ F
			10 μ F		0.0074 μ F
			100 μ F		0.0074 μ F
40.	Capacitance Measure	IESL CP 63	3.5 μ F		0.002 μ F
			10 μ F		0.032 μ F
			100 μ F		0.12 μ F
			500 μ F		1.23 μ F
			995 μ F		5.23 μ F
41.	RTD temperature indicator/controller measure	IESL CP 88	Types of RTD	No. of Wires	Range (°C)
			Pt100 (385)		-200 to 800
			Pt100 (3926)		-200 to 630
			Ni120 (672)	2 wires/	-80 to 260
			Pt200 (385)	3 wires/	-200 to 630
			Pt500 (385)	4 wires	-200 to 630
			Pt1000 (385)		-200 to 630
			Cu10 (427)		-100 to 260
					0.0076 °C
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
					0.59 °C


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			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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