

Identification Number of Accreditation
 NACI/Lab/413
 Initial Accreditation Date and Place: 2013.09.08 -Tehran
 Renewal Date :2019.11.04
 Expiry Date : 2022.11.03

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Accreditation Scope of Behineh Sanjesh Azma Laboratory

1- -Diemension

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Internal Caliper	Up to 200 mm	(2.29+0.01L) μ m, L(mm)
		(200 to 300) mm	(0.11+0.012L) μ m, L(mm)
2	External Caliper	Up to 200 mm	(0.006+0.01L) μ m, L(mm)
		(200 to 500) mm	(0.09+0.013L) μ m, L(mm)
		(500 to 1000) mm	(2.72+0.01L) μ m, L(mm)
3	Depth Gauge Caliper	Up to 100 mm	(3.06+0.01L) μ m, L(mm)
		(100 to 300) mm	(2.3+0.01L) μ m, L(mm)
4	High Gauge Calipers	Up to 100 mm	(3.06+0.01L) μ m, L(mm)
		(100 to 1000) mm	(2.33+0.01L) μ m, L(mm)
5	Internal Micrometer	Up to 100 mm	(2.29+0.01L) μ m, L(mm)
		(100 to 300) mm	(0.11+0.012L) μ m, L(mm)
6	Internal Micrometer With 3 Point Contact	(25 to 55) mm	(1.11+0.01L) μ m, L(mm)
7	External Micrometer	Up to 100 mm	(0.006+0.013L) μ m, L(mm)
		(100 to 1000) mm	(2.72+0.01L) μ m, L(mm)
8	Depth Gauge Caliper	Up to 100 mm	(3.06+0.01L) μ m, L(mm)
		(100 to 300) mm	(2.33+0.01L) μ m, L(mm)
9	Dial gauges	Up to 100 mm	(0.18+0.01L) μ m, L(mm)
10	Lever gauges	Up to 5 mm	(0.18+0.01L) μ m, L(mm)
11	Thickness gauges	Up to 100 mm	(2.29+0.01L) μ m, L(mm)
12	Ultrasonic Thickness gauges	Up to 100 mm	(2.22+0.01L) μ m, L(mm)
13	Coating thickness gauges	Up to 2000 μ m	0.61 μ m
14	Coating thickness foil	Up to 2000 μ m	0.54 μ m
15	Feeler gauges	Up to 3 mm	(0.1+0.01L) μ m, L(mm)

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16	Bevel Protractors	(0 to 360) °		10"
17	Goniometer	(0 to 90) °		10"
18	Applicators	Up to 1500 μ m		3.2 μ m
19	crypto meters	Up to 100 μ m		3.3 μ m
20	Grindometers – Grindopack	Up to 100 μ m		3.2 μ m
21	Cross cut	Up to 30 mm		0.75 μ m 5 "
22	Welding gauges	Up to 200 mm		0.75 μ m , 6"
23	Radius gauges	Up to 25 mm		0.75 μ m
24	Pitch gauges	Up to 25 mm		Angle: 6.1", Length: 0.75 μ m
25	Sieves	0.01 mm to 125 mm		(0.722+0.01L) μ m, L(mm)
26	vicat	length	Up to 100 μ m	0.75 μ m
		mass	Up to 2 kg	8.0 mg
27	LVDT probe (0.1mm division)	Up to 15 mm		(0.09+0.01L) μ m, L(mm)
28	Tapes	Up to 10 m		(3.2+0.26L)mm. L(mm)
29	Rulers	Up to 1 m		(3.2+0.26L)mm. L(mm)
30	Circumeter	Circumference: Up to 2 m Diameter: Up to 640 mm		(3.0+0.01 L)mm. L(mm) 6.1 "
31	Microscope	Up to 10 mm		(0.04+0.01L) μ m, L(mm)
32	profile projector	X=500 mm Y=300 mm		(0.72+0.01L) μ m. L(mm)

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33	Roughness tester Ra	Cut Off: 0.25 , 0.80 , 2.5 Up to 10 μ m		8 % rdg
34	Roughness tester tile Ra	Cut Off: 0.25 , 0.80 , 2.5		9 % rdg
35	level	Up to 200 mm		0.001 mm/m
36	Gloss meter	20°, 60°, 85°		0.84 GU
37	Gloss meter Tile	20°, 60°, 85°		0.8 % rdg
38	Slump	Up to 100 mm		(12.9+0.01L) μ m, L (mm)
		(100 to 600) mm		(26.1+0.01L) μ m, L (mm)
39	Metallic Square	Perpendicularity	Up to 400 mm	2.5 μ m
		flatness		1 μ m
		parallelism		3.2 μ m
40	Impact Test	Length	Up to 1000 mm	(0.05+0.024L) μ m , L (mm)
		Mass	Up to 2 kg	8.0 mg
41	Flakiness & Elongation Gauge Sample Splitters	(10 to 60) mm		(0.05+0.024L) μ m , L (mm)
42	Thread Plug gauges (GO – NO GO)	Up to 100 mm		(0.2+0.01L) μ m, L(mm)
43	Thread Ring gauges (GO- NO GO)	(14 to 100) mm		(1.2+0.014L) μ m, L(mm)
44	Plug gauges (GO – NO GO)	Up to 100 mm		(0.18+0.01L) μ m, L(mm)
		(100 to 200) mm		(0.1+0.013L) μ m, L(mm)
		(200 to 500) mm		(0.4+0.017L) μ m, L(mm)

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45	Ring gauges (GO- NO GO)	(5 to 15) mm	(0.18+0.07L) μ m, L(mm)
		(15 to 100) mm	(1.21+0.01L) μ m, L(mm)
		(100 to 200) mm	(0.16+0.013L) μ m, L(mm)
46	Snap gauges(GO –NO GO)	(10 to 100) mm	(1.21+0.01L) μ m, L(mm)
		(100 to 200) mm	(0.166+0.013L) μ m, L(mm)
47	Canto graph	Up to 300 mm	(0.5+L/100) μ m, L(mm) 0.0055°
48	Gauge block grade 2	Up to 50 mm	0.8 μ m
49	Optical flat grade 2,3	Up to 75 mm	1.3 μ m
50	Optical parallel grade 1, 2	Up to 50 mm	1.3 μ m

2- NDT EQUIPMENT

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Ultrasonic flaw detectors	Up to 300 mm (steel)	(2.85+0.01L) μ m, L(mm)
2	Eddy current detectors	Up to 300 mm (Aluminum)	(2.66+0.022L) μ m, L(mm)
3	Ultrasonic thickness meter	Up to 30 mm (steel)	(0.04+0.014L) μ m, L(mm)

3-Temperature

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Liquid in glass, filled system, bimetallic thermometer	(-80 to -40)°C	0.28 °C
		(-40 to 20)°C	0.29 °C
		(20 to 250)°C	0.30 °C

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2	Resistance thermometers		(-80 to -40) °C	0.28 °C
			(-40 to 20) °C	0.29 °C
			(20 to 200) °C	0.30 °C
			(200 to 500) °C	1.2 °C
			(500 to 600) °C	1.9 °C
3	Thermocouples		(-80 to -40) °C	0.28 °C
			(-40 to 20) °C	0.29 °C
			(20 to 200) °C	0.30 °C
			(500 to 600)°C	1.8 °C
			(600 to 1100)°C	2.3 °C
			(1100 to 1200)°C	2.8 °C
4	Non-contact thermometers		(50 to 100)°C	0.8 °C
			(100 to 200)°C	1.6 °C
			(200 to 500)°C	2.8 °C
5	Soldering iron		(100 to 500)°C	2.4 °C
6	Autoclaves	Temperature	(50 to 140) °C	0.35 °C
		Pressure	Up to 4 bar	0.2 %FS
7	Furnace & bath calibrator		(-80 to 200) °C	0.27 °C
			(200 to 500)°C	0.51 °C
			(500 to 600)°C	1.6 °C
8	Industrial Furnace, oven, incubator, bain-marie		(-80 to 20)°C	0.30 °C
			(20 to 200)°C	0.31 °C
			(200 to 500)°C	0.92 °C
			(500 to 1100)°C	2.3 °C
			(1100 to 1200)°C	2.8 °C
9	refrigerator- freezer		(-80 to 10)°C	0.27 °C

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10	Environmental thermometers	$(-30 \text{ to } 70)^{\circ}\text{C}$	0.3°C
11	Thermocouple indicators and calibrators	PT1000	$(-200 \text{ to } 400)^{\circ}\text{C}$ 0.9°C
		PT500	$(-200 \text{ to } 850)^{\circ}\text{C}$ 1.3°C
		PT100	$(-200 \text{ to } 850)^{\circ}\text{C}$ 1.6°C
		PT50	$(-200 \text{ to } 850)^{\circ}\text{C}$ 1.5°C
		D-100	$(-200 \text{ to } 645)^{\circ}\text{C}$ 1.0°C
		NI-100	$(-80 \text{ to } 260)^{\circ}\text{C}$ 0.9°C
		NI-120	$(-60 \text{ to } 260)^{\circ}\text{C}$ 0.9°C
		TC TYPE "J"	$(-210 \text{ to } 1200)^{\circ}\text{C}$ 1.1°C
		TC TYPE "K"	$(-270 \text{ to } -200)^{\circ}\text{C}$ 2.0°C
			$(-200 \text{ to } -1370)^{\circ}\text{C}$ 1.4°C
		TC TYPE "T"	$(-270 \text{ to } -180)^{\circ}\text{C}$ 1.7°C
			$(-180 \text{ to } -70)^{\circ}\text{C}$ 1.4°C
			$(-70 \text{ to } 400)^{\circ}\text{C}$ 1.0°C
		TC TYPE "U"	$(-200 \text{ to } -100)^{\circ}\text{C}$ 1.7°C
			$(-100 \text{ to } 600)^{\circ}\text{C}$ 1.0°C
		TC TYPE "L"	$(-200 \text{ to } 900)^{\circ}\text{C}$ 0.9°C
		TC TYPE "R"	$(-50 \text{ to } 0)^{\circ}\text{C}$ 2.5°C
			$(0 \text{ to } 300)^{\circ}\text{C}$ 2.3°C
			$(300 \text{ to } 1769)^{\circ}\text{C}$ 1.7°C
		TC TYPE "S"	$(-50 \text{ to } 0)^{\circ}\text{C}$ 2.3°C
			$(0 \text{ to } 100)^{\circ}\text{C}$ 2.2°C
			$(100 \text{ to } 1760)^{\circ}\text{C}$ 1.8°C
		TC TYPE "E"	$(-270 \text{ to } -150)^{\circ}\text{C}$ 1.9°C
			$-150 \text{ to } 1000^{\circ}\text{C}$ 1.4°C

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11	Thermocouple indicators and calibrators	TC TYPE "N"	-270 to -20°C	1.4°C
			-20 to -1300°C	1.2°C
		TC TYPE "B"	50 to 500°C	2.9°C
			50 to 1200°C	2.6°C
			1200 to 1820°C	2.8°C

4-Humidity

4-Humidity			
No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration (±)
1	Humidity meter	(20 to 30) %RH	1.2 %RH
		(30 to 50) %RH	1.1 %RH
		(50 to 95) %RH	1.5 % RH
2	Humidity chambers	(10 to 99) % RH	0.9 %RH

5-Mass

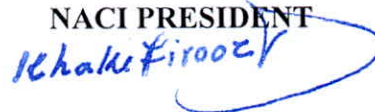
No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Weight Class F1		1 mg	0.0085 (mg)
			2 mg	0.0084 (mg)
			5 mg	0.0083 (mg)
			10 mg	0.0082 (mg)
			20 mg	0.0082 (mg)
			50 mg	0.0083 (mg)
			100 mg	0.0084 (mg)
			200 mg	0.0085 (mg)


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No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Weight Class F1	500 mg	0.0088 (mg)
		1 g	0.0089 (mg)
		2 g	0.0097 (mg)
		5 g	0.013 (mg)
		10 g	0.021 (mg)
		20 g	0.036 (mg)
		50 g	0.017 (mg)
		100 g	0.084 (mg)
		200 g	0.34 (mg)
		500 g	1.16 (mg)
		1 kg	0.0083 (g)
		2 kg	0.0088 (g)
		5 kg	0.011 (g)
		10 kg	0.085 (g)
		20 kg	0.089 (g)
		30 kg	0.091 (g)
2	Balances	1 mg to 1 g	(0.000004m+ 0.004) mg, m(mg)
		1 g to 5 g	(0.0007m+ 6.5) μ g, m(g)
		5g to 100 g	(0.0005m+ 7.45) μ g, m(g)
		100 g to 200 g	(0.0003m+183.6) μ g, m(g)
		200 g to 500 g	(0.00001m+0.1) mg, m(g)
		500 g to 1 kg	(0.0008m+0.0004) g, m(g)
		1 kg to 5 kg	(0.00007m+0.002) g, m(g)
		5 kg to 10 kg	(0.001m+0.003) g, m(kg)
		10 kg to 20 kg	(0.0004m+0.02) g, m(kg)
3	Bascule	20 kg to 50 kg	(0.002m+0.072) g, m(kg)
		Up to 5000 kg	(0.015m+0.65) g, m(kg)

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No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
7	Liquid column manometers	Up to 1000 mmHg	0.07 % FS
8	barometer	(67 to 760) mmHg	0.2 % rdg

7-Hardness

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Hardness Force (ROCKWELL, BRINELL, VICKERS), Direct Method	Up to 3000 kg.f	0.1 % rdg
2	Indenter	Diameter: Up to 13 mm Angle :136 ° ,120 °	0.002 mm 15 "
3	Rockwell hardness Machine-Indirect Method	(45 to 88) HRA (20 to 100) HRB (20 to 70) HRC	0.8 HRA 1.0 HRB 0.6 HRC
	Rockwell hardness block		
4	Brinell hardness Machine-Indirect Method	(200 to 390) HB 2.5/187.5 (90 to 205) HB 2.5/62.5	0.5 % rdg
	Brinell hardness block		
5	Vickers hardness Machine-Indirect Method	(170 to770) HV30 (470 to 700) HV100	0.5 % rdg
6	Vickers hardness block		
7	Direct hardness test shore A (reference plate)	Up to 100 Shore A	0.1 Shore A

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8-Torque

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Torque meters	Up to 10 N.m	0.06 % of load
		(10 to 100) N.m	0.07 % of load
		(100 to 1300) N.m	0.8 % of load
		(1300 to 2500) N.m	0.7 % of load
2	Torque testers	Up to 1500 N.m	0.04 % F.S

9- Pneumatic Torque meters

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Pneumatic Torque meters	Up to 2500 N.m	0.7 % of load

10- Force

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Load cell	Tension	Up to 2450 N	0.41 % rdg
			(2450 to 4900) N	0.22 % rdg
			(0.5 to 5) t	0.13 % rdg
			(5 to 10) t	0.36 % rdg
		Compression	Up to 2450 N	0.42 % rdg
			(2450 to 4900) N	0.26 % rdg
			(0.5 to 5) t	0.16 % rdg
			(5 to 10) t	0.35 % rdg
			(10 to 50) t	1.0 % rdg

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2	Tensile Machines	Force	Tension	Up to 2450 N	0.21 % rdg
				(2450 to 4900) N	0.21 % rdg
				(0.5 to 5) t	0.32 % rdg
				(5 to 10) t	0.41 % rdg
				(10 to 50) t	0.41 % rdg
			Compression	Up to 2450 N	0.23 % rdg
				(2450 to 4900) N	0.25 % rdg
				(0.5 to 5) t	0.33 % rdg
				(5 to 10) t	0.40 % rdg
				(10 to 50) t	1.1 % rdg
		Speed	(50 to 200) t	0.65 % rdg	
			Up to 10 mm/min	(0.0009V+0.0004) mm/min, V in mm/min	
			(10 to 500) mm/min	(0.0008V+0.0527) mm/min, V in mm/min	
Displacement	Up to 300 mm	(0.0118d+0.0056) mm, d(m)			
	(300 to 500) mm/min	(0.00002d+0.003) mm, d(m)			
3	Hardness testing of rubber and plastic (spring force)			Shore A&D	6 g

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11- Bell Prover

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Calibration bell prover	Up to 200 L	0.71 %rdg
		200 L to 400 L	0.36 %rdg
		400 L to 600 L	0.26 %rdg

12- Gas Flow meter

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Gas Flow meter	0.01 ml/min to 300 ml/min	1 % rdg
		300 ml/min to 4000 L/min	

13- Liquid Flow Meter

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Liquid Flow Meter (Geravimetry method)	0.5000 ml/min to 25.0000 ml/min	1 % rdg
		25.0000 ml/min to 10 L/min	0.5 % rdg
		10 L/min to 30 L/min	0.6 % rdg
		30 L/min to 100 L/min	0.7 % rdg
		100 L/min to 3000 L/min	1 % rdg
2	Liquid flow meters measurement	Up to 5000 L/min	1 % rdg

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14- Liquid Level

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Liquid level	Up to 10 m	0.8 mm

15- Volume

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Burettes	(10 to 100) ml	(1.3 to 13) μ l
2	Pipettes	(0.1 to 100) ml	(0.02 to 13) μ l
3	Graduated Cylinders	(5 to 2000) ml	(0.6 to 250) μ l
4	Dispenser	(1 to 100) ml	(0.01 to 13) μ l
5	Syringe	(1 to 100) μ l	(0.01 to 0.05) μ l
6	Micro Pipettes & sampler	(1 to 1000) μ l	(0.01 to 0.05) μ l
7	Balloons	(5 to 5000) ml	(0.6 to 250) μ l
8	Pycnometer	(5 to 100) ml	(0.6 to 13) μ l
9	Measuring Cup containers	(1 to 20) L	(0.2 to 4) μ l

16- Gas Analyzer

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Gas Analyzer	CH ₄	300 ppm
		Co	300 ppm
		Co ₂	99.999 %vol 300 ppm
			5 % rdg 5 % rdg 2.3 % vol 3.5 ppm

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No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Gas Analyzer	NOX	1000 ppm
		O ₂	20.9 % mol
		N ₂	99.999 % mol
		H ₂ S	50.9 & 65.3 %mol
		CO	(Up to 12) %
		CO ₂	(Up to 4) %
		HC	(Up to 1200) ppm

17-Chemistry

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	pH meter	(Up to 14) pH	0.01 pH
		(-400 to +400) mV	0.005 % rdg
2	pH measurement	(Up to 14) pH	0.02 pH
3	Titration potentiometer	(Up to 14) pH	0.01 pH
		(-500 to +500) mV	0.005 % rdg
		(0.1 to 10) ml	(0.02 to 13) μ l
4	Conductivity meter	(5 to 100) μ s/cm	1 % rdg
		(100 to 2000) μ s/cm	0.5 % rdg
		(2000 to 20000) μ s/cm	0.4 % rdg
5	Refractometer	(1.33 to 1.52) n.D	0.00015 n.D
		(Up to 70) % Brix	0.5 % Brix
6	Salt meter	(Up to 20)% rdg	0.1 % rdg


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No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration (±)
7	Hydrometer		(0.600 to 1.400) g/cm ³	0.00035 g/cm ³
			(1.400 to 1.850) g/cm ³	0.00065 g/cm ³
8	Alcoholmeter		(Up to 100%) Vol	0.1 % Vol
9	Turbidity meter		(0.1 to 4000) NTU	(0.03 to 10) NTU
10	Ford cup	Dimension	(1 to 8) mm	2 μm
		Volume	(45 to 100) ml	20 μl
		viscosity	(3 to 500) cst	0.35 % rdg
11	Rotary viscometer		(Up to 13000) Cst (Up to 100) rpm	0.35 % rdg 0.05 %rdg +1 dig
12	Capillary viscometer		(3 to 500) c.st	0.5 % rdg
13	Karl fisher reagent		(0.1 to 20)% Vol	(0.002 to 0.1) % Vol
14	Chlorine meter		(20 to 30) mg/lit	0.2 % rdg
15	Polari meter		(0 to 100) ° Z	0.4 % rdg
16	BOD meter		(Up to 400) ppm	9 % rdg
17	COD meter		(Up to 1000) ppm	1 % rdg
18	DO meter		(Up to 20) mg/lit	0.1 mg/Lit
			(Up to 100)%	0.3 % rdg
19	Butyrometer		(Up to 90)%	0.02 % rdg
20	TOC Analyzer		(Up to 100) ppb	0.5 ppb rdg

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18-Chemical Test

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Viscosity	(3 to 15) Cst (15 to 100) Cst (100 to 500) Cst	0.001 cst 0.005 cst 0.009 cst
2	Conductivity	(5 to 2000) $\mu\text{S}/\text{cm}$	0.5 %rdg
3	Density	(0.600 to 1.400) g/cm^3 (1.400 to 1.850) g/cm^3	0.00035 g/cm^3 0.00065 g/cm^3

19-Chromatography & spectroscopy

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Performance accuracy of Gas Chromatography (GC)	Flow	(0.5 to 500) ml/min
		Temperature	(25 to 300) $^{\circ}\text{C}$
		Determine the accuracy of detector performance	(Up to 10^7) pA.s
2	Spectrophotometer	Wave length	(190 to 750) nm
		UV absorption	(Up to 2) A
3	Performance accuracy of High Performance Liquid Chromatography (HPLC)	Flow	(0.1 to 20) ml/min
		Temperature	(10 to 60) $^{\circ}\text{C}$
		Determine the accuracy of detector performance (Wave length)	(200 & 700) nm
		Determine the accuracy of detector performance (Absorption)	(Up to 1.5) AU
		Determine the accuracy of gradient performance	(Up to 100)%
		Determine the accuracy of injection performance	(5 to 500) $\mu\text{g}/\text{ml}$

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No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
4	Performance accuracy of infrared Spectrophotometer(FT- IR)	(Up to 4000) cm^{-1}	0.1 cm^{-1}
5	Flame photometer	Na,K: Up to 50 ppm	0.3 % rdg

20-Chemical & Microbial & HVAC Systems

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Positive air pressure test	(Up to 10) hpa	0.12 % rdg
2	The maximum temperature	(0 to 80) $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$
3	Sound level test	(Up to 120) dB	0.4 dB
4	Particle counting test	(0.3 to 5) $\mu\text{m}/\text{m}^2$	0.1 $\mu\text{m}/\text{m}^2$
5	Filter velocity test	(Up to 20) m/s	0.11 m/s
6	Light meter test	(Up to 2000) Lux	3.5 % rdg + 3.5 Lux
7	Air flow variation test	(2 to 12) m/s	0.11 m/s
8	Hygrometry test	(10 to 95) %RH	1.5 %RH
9	Vibration test	(0.5 to 199.9) mm/s	1 %rdg
10	UV	(Up to 7000) $\mu\text{w}/\text{cm}^2$	1.8 %rdg

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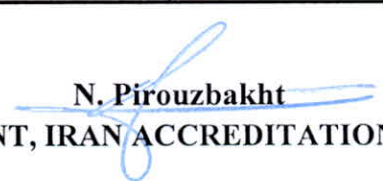
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21-Particle Counter

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Particle size & count in air	(Up to 25.00) μm	1 % rdg
2	Particle size & count in liquids	(Up to 25.00) μm	1 % rdg

22-Garage Equipment

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Wheel Balancer	Unbalancing Value	(Up to 100) g
		Ring Width	(100 to 300) mm
		Ring Diameter	(225 to 400) mm
		Distance	(Up to 300) mm
2	Gas Analyzer	CO	(Up to 12) %
		CO ₂	(Up to 4) %
		HC	(Up to 1200) ppm
		NO _x	(Up to 1000) ppm
		O ₂	(Up to 21) %
3	Air Conditioning Service	Dynamometer	(Up to 18000) gf
		Pressure Gauge	(-1 to 30) bar
		Volumeter	(Up to 100) ml
4	Wheel Alignment	Camber Angle	(-30 to 30) °
		Toe Angle	(-50 to 50) mm


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23-Anemometer

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Anemometer	Up to 25 m/s	0.11 m/s

24-Light Meter

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
1	Lux meter	Up to 9000 lux	3.5% rdg
2	UV light meter	Up to 7000 $\mu\text{W}/\text{cm}^2$	1.8 %rdg

25-Vibration

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Vibration	Acceleration	Up to 100 m/s^2 10 to 1280 Hz	1.1 %rdg
		Speed	Up to 100 mm/s 10 to 1280 Hz	
		Displacement	Up to 2000 μm 10 to 1280 Hz	

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26-Optic &b LASER

No.	Quantity, Measuring Instrument, Material Measure			Range	Capability Measurement and Calibration ($\pm$)
1	<u>surveying</u>	Teodolit	Horizontal Vertical	(0 to 360) $^{\circ}$	30 sec of arc
2	Optical level			---	30 sec of arc
3	Meter laser			(0 to 17) m (0 to 360) $^{\circ}$	1.6 mm 30"
4	Laser level			(0 to 360) $^{\circ}$	0.01 mm/m

27-Impact test (direct &indirect)

No.	Quantity, Measuring Instrument, Material Measure		Range	Capability Measurement and Calibration ($\pm$)
1	Charpy impact machine indirect method		< 40 J > 40 J	4 % rdg
2	Impact machine direct method (charpy-izod)	Impact speed	(Up to 7) m/s	0.06 m/s
		Position center of precussion	(Up to 1000) mm	1.2 mm
		Angle if fall(α) & angle of rise(β)	$\alpha > 100^{\circ}$ $\beta < 160^{\circ}$	0.006 $^{\circ}$
		Absorbed energy	(Up to 750) J	0.04 %rdg


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28- Electric

No.	Quantity, Measuring Instrument, Material Measure	Range		Capability Measurement and Calibration ($\pm$)
1	DC Voltage Generation	(0.000 to 320.000) mV		0.007% + 4.84 μ V
		(0.32001 to 3.20000) V		0.007% + 47.88 μ V
		(3.2001 to 32.0000) V		0.008% + 484 μ V
		(32.001 to 320.000) V		0.008% + 5.21 mV
		(320.01 to 1050.00) V		0.007% + 23.75 mV
		1050.0 V to 5 kV		(2%)
2	AC Voltage Generation	(0.000 to 10.000) mV	10 Hz to 3 kHz	0.05% + 443 μ V
			(3 to 10) kHz	0.05% + 591 μ V
			(10 to 30) kHz	0.07% + 1109 μ V
			(30 to 50) kHz	0.10% + 2.22 mV
			(50 to 100) kHz	0.23% + 5.91 mV
		(10.001 to 32.000) mV	10 Hz to 3 kHz	0.05% + 111 μ V
			(3 to 10) kHz	0.05% + 148 μ V
			(10 to 30) kHz	0.07% + 277 μ V
			(30 to 50) kHz	0.10% + 554 μ V
			(50 to 100) kHz	0.23% + 1.48 mV
		(32.001 to 320.000) mV	10 Hz to 3 kHz	0.05% + 22.2 μ V
			(3 to 10) kHz	0.05% + 29.6 μ V
			(10 to 30) kHz	0.07% + 55.4 μ V
			(30 to 50) kHz	0.10% + 110.9 μ V
			(50 to 100) kHz	0.23% + 296 mV
		(0.3200 to 3.2000) V	10 HZ to 3 kHz	0.05% + 222 μ V
			(3 to 10) kHz	0.05% + 296 μ V
			(10 to 30) kHz	0.07% + 554 μ V
			(30 to 50) kHz	0.10% + 1109 μ V
			(50 to 100) kHz	0.23 % + 2.96 mV

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2	AC Voltage Generation	(3.2001 to 32.0000) V	10 Hz to 3 kHz	0.05 % + 2.22 mV
			(3 to 10) kHz	0.07 % +2.96 mV
			(10 to 30) kHz	0.09 % +5.5 mV
			(30 to 50) kHz	0.17 % + 11.1 mV
			(50 to 100) kHz	0.70 % +37.0 mV
		(32.001 to 105.000) V	10 Hz to 3 kHz	0.05 % + 7.3 mV
			(3 to 10) kHz	0.07 % +9.7 mV
			(10 to 30) kHz	0.09 % +18.3 mV
			(30 to 50) kHz	0.17 % + 36.4 mV
			(50 to 100) kHz	0.40 % +121 mV
		(105.001 to 320.000) V	40 Hz to 100 Hz	0.06 % + 22.2 mV
			100 Hz to 1 kHz	0.06 % + 22.2 mV
			(1 to 3) kHz	0.09 % + 22.2 mV
			(3 to 10) kHz	0.09 % + 37.0 mV
			(10 to 20) kHz	0.14 % +55.4 mV
			(20 to 30) kHz	0.17 % +73.9 mV
		(320.01 to 800.0) V	(10 to 20) Hz	0.14 % +55.4 mV
			(20 to 30) Hz	0.17 % +73.9 mV
			40 Hz to 100 Hz	0.06 % + 73.0 mV
			100 Hz to 1 kHz	0.06 % + 73.0 mV
			(1 to 3) kHz	0.09 % + 73.0 mV
			(3 to 10) kHz	0.09 % + 121 mV
			(10 to 20) kHz	0.14 % +183 mV
			(20 to 30) kHz	0.17 % +243 mV

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2	AC Voltage Generation		(800.01 to 1050.00) V	40 Hz to 100 Hz	0.06 % + 146 mV
				100 Hz to 1 kHz	0.06 % +146 mV
				(1 to 3) kHz	0.09 % +146 mV
				(3 to 10) kHz	0.09 % + 243 mV
				(10 to 20) kHz	0.14 % +364 mV
3	DC Current Generation		(0.000 to 320.000) μ A		0.016 % + 12.71 nA
			(0.32001 to 3.200000) mA		0.016 % + 96 nA
			(3.2001 to 32.0000) mA		0.016 % + 1041 nA
			(32.001 to 320.000) mA		0.018 % + 11.1 μ A
			(0.32001 to 3.20000) A		0.069 % + 136 μ A
			(3.2001 to 10.5000) A		0.064 % + 1087 μ A
			(10.5001 to 20.0000) A		0.064 % + 5.2 mA
	DC Current Generation	10 Turn Coil	(3.2001 to 32.0000) A		0.069 % + 1.36 mA
			(32.001 to 105.000) A		0.064 % + 10.9 mA
			(105.001 to 200.000) A		0.064 % + 52 mA
		50 Turn Coil	(16.001 to 160.000) A		0.069 % + 7 mA
			(160.01 to 525.00) A		0.064 % + 55 mA
			(525.01 to 1000.00) A		0.064 % + 260 mA
4	AC Current Generation		(0.000 to 32.000) μ A	10 Hz to 3 kHz	0.08 % +1039 nA
				(3 to 10) kHz	0.12 % + 2.1 μ A
				(10 to 20) kHz	0.23 % + 6.9 μ A
				(20 to 30) kHz	0.29 % + 10.4 μ A
			(32.001 to 320.000) μ A	10 Hz to 3 kHz	0.08 % +346 nA
				(3 to 10) kHz	0.12 % + 693 nA
				(10 to 20) kHz	0.23 % + 2.3 μ A
				(20 to 30) kHz	0.29 % + 3.5 μ A

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4	AC Current Generation		(0.32001 to 3.20000) mA	10 Hz to 3 kHz	0.08 % +346 nA
				(3 to 10) kHz	0.12 % + 693 nA
				(10 to 20) kHz	0.23 % + 2 μA
				(20 to 30) kHz	0.29 % + 3 μA
			(3.2 to 32.0000) mA	10 Hz to 3 kHz	0.08 % +4 μA
				(3 to 10) kHz	0.12 % + 7 μA
				(10 to 20) kHz	0.23 % + 14.8 μA
				(20 to 30) kHz	0.29 % + 25.9 μA
			(32.001 to 320.000) mA	10 Hz to 3 kHz	0.09 % +37.0 μA
				(3 to 10) kHz	0.12 % + 55.4 μA
				(10 to 20) kHz	0.23 % + 73.9 μA
				(20 to 30) kHz	0.29 % + 110.9 μA
	(0.32001 to 3.20000)A	10 Hz to 3 kHz	0.12 % + 554 μA		
		(3 to 10) kHz	0.29 % + 2.96 mA		
		(3.2001 to 10.5000)A	10 Hz to 3 kHz	0.23 % + 3.5 mA	
			(3 to 10) kHz	0.58 % + 11.5 mA	
AC Current Generation	10 Turn Coil	(3.2001 to 32.0000)A	(10 to 100) Hz	0.23 % + 6.4 mA	
			(100 to 440) Hz	0.90 % + 31 mA	
	50 Turn Coil	(32.001 to 200.000)A	(10 to 100) Hz	0.24 % + 104 mA	
			(100 to 440) Hz	0.77 % + 0.29 A	
		(160.01 to 1000.00)A	(10 to 100) Hz	0.23 % + 32 mA	
			(100 to 440) Hz	0.24 % + 0.52 A	
5	Resistance Generation		(0.0000 to 40.0000) Ω		0.029 % + 11.5 mΩ
			(40.001 to 400.000) Ω		0.023 % + 23.1 mΩ
			(0.40001 to 4.00000) kΩ		0.017 % + 92.6 mΩ
			(4.0001 to 40.0000) kΩ		0.023 % + 926 mΩ

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5	Resistance Generation	(40.001 to 400.000) k Ω		0.023 % + 9.3 Ω
		(0.40001 to 4.00000) M Ω		0.058 % + 116 Ω
		(4.0001 to 40.0000) M Ω		0.173 % + 2.3 k Ω
6	Decade Resistance Gen.	0.01 Ω to 11.1111 k Ω		0.012 % rdg
7	Insulation Resistance Generation	(100.0 to 299.9) k Ω		0.12 % + 0.058 k Ω
		(0.300 to 2.999) M Ω		0.12 % + 0.001 M Ω
		(3.000 to 29.99) M Ω		0.35 % + 0.006 M Ω
		(30.00 to 299.9) M Ω		0.58 % + 0.058 M Ω
		300.0 M Ω to 2.000 G Ω		1.55 % + 1.15 M Ω
8	Conductance Generation	(2.5000 to 25.0000) nS		0.462 % + 0.0001 nS
		(25.001 to 250.000) nS		0.231 % + 0.0006 nS
		0.25001 nS to 2.50000 μ S		0.139 % + 0.00001 μ S
		(2.5001 to 25.0000) μ S		0.058 % + 0.00006 μ S
		(25.001 to 250.000) μ S		0.058 % + 0.0006 μ S
		(0.25001 to 2.50000) mS		0.046 % + 0.006 mS
9	Thermocouple Temperature Simulation	Type B	(500.0 to 800.0) $^{\circ}$ C	0.64 $^{\circ}$ C
			(800.0 to 1000.0) $^{\circ}$ C	0.48 $^{\circ}$ C
			(1000.0 to 1400.0) $^{\circ}$ C	0.40 $^{\circ}$ C
			(1400.0 to 1820.0) $^{\circ}$ C	0.43 $^{\circ}$ C
		Type C	(0.0 to 600.0) $^{\circ}$ C	0.34 $^{\circ}$ C
			(600.0 to 1000.0) $^{\circ}$ C	0.32 $^{\circ}$ C
			(1000.0 to 1800.0) $^{\circ}$ C	0.47 $^{\circ}$ C
			(1800.0 to 2320.0) $^{\circ}$ C	0.48 $^{\circ}$ C

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9	Thermocouple Temperature Simulation	Type E	(-250.0 to -200.0) °C	0.52 °C
			(-200.0 to -100.0) °C	0.26 °C
			(-100.0 to 100.0) °C	0.20 °C
			(100.0 to 1000.0) °C	0.25 °C
		Type J	(-210.0 to -100.0) °C	0.29 °C
			(-100.0 to 800.0) °C	0.23 °C
			(800.0 to 1000.0) °C	0.25 °C
			(1000.0 to 1200.0) °C	0.27 °C
		Type K	(-250.0 to -200.0) °C	0.66 °C
			(-200.0 to -100.0) °C	0.32 °C
			(-100.0 to 100.0) °C	0.23 °C
			(100.0 to 600.0) °C	0.27 °C
			(600.0 to 1372.0) °C	0.32 °C
		Type L	(-200.0 to -50.0) °C	0.32 °C
			(-50.0 to 200.0) °C	0.23 °C
			(200.0 to 700.0) °C	0.27 °C
			(700.0 to 900.0) °C	0.32 °C
		Type N	(-200.0 to -100.0) °C	0.39 °C
			(-100.0 to 900.0) °C	0.27 °C
			(900.0 to 1100.0) °C	0.26 °C
			(1100.0 to 1300.0) °C	0.28 °C
		Type R	(0.0 to 100.0) °C	0.60 °C
			(100.0 to 200.0) °C	0.47 °C
			(200.0 to 1600.0) °C	0.41 °C
			(1600.0 to 1767.0) °C	0.33 °C

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Accreditation Scope of Behineh Sanjesh Azma Laboratory

No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
9	Thermocouple Temperature Simulation	Type S	(0.0 to 200.0) °C
			(200.0 to 1000.0) °C
			(1000.0 to 1400.0) °C
			(1400.0 to 1767.0) °C
		Type T	(-250.0 to -200.0) °C
			(-200.0 to -100.0) °C
			(-100.0 to 0.0) °C
			(0.0 to 400.0) °C
10	DC Current Measurement With:	Direct Method	Up to 200 μ A
			200 μ A to 2 mA
			(2 to 20) mA
			(20 to 200) mA
			200 mA to 2 A
		Indirect Method	Up to 1000 A
		Clamp Meter	Up to 1500 A

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11	AC Current Measurement With:	200 μ A	(20 to 50) Hz
			(50 to 200) Hz
			200 Hz to 1 kHz
		2 mA	(20 to 50) Hz
			(50 to 200) Hz
			200 Hz to 1 kHz
			(1 to 10) kHz
			(10 to 30) kHz
			(30 to 50) kHz
			(50 to 100) kHz
		20 mA	(20 to 50) Hz
			(50 to 200) Hz
			200 Hz to 1 kHz
			(1 to 10) kHz
			(10 to 30) kHz
			(30 to 50) kHz
			(50 to 100) kHz
		200 mA	(20 to 50) Hz
			(50 to 200) Hz
			200 Hz to 1 kHz
			(1 to 10) kHz
			(10 to 30) kHz
			(30 to 50) kHz
			(50 to 100) kHz
		2 A	(20 to 50) Hz
			(50 to 200) Hz
			200 Hz to 1 kHz
			1 to 10 kHz

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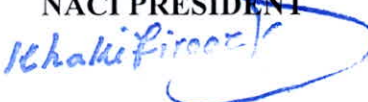
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No.	Quantity, Measuring Instrument, Material Measure		Range		Capability Measurement and Calibration ($\pm$)
11	AC Current Measurement With:	Direct Method	2 A	1 to 10 kHz	0.52 % + 0.35 mA
				(10 to 30) kHz	1.73 % + 0.35 mA
		Indirect Method	Up to 1000 A	(30 to 50) kHz	4.62 % + 0.35 mA
		Clamp Meter	Up to 1500 A	50/60 Hz	0.58 % rdg
12	AC Voltage Measurement	200 mV		(1 to 10) Hz	0.10 % + 0.03 mV
				(10 to 50) Hz	0.07 % + 0.03 mV
				(50 to 100) Hz	0.04 % + 0.03 mV
				(0.1 to 2) kHz	0.03 % + 0.02 mV
				(2 to 10) kHz	0.02 % + 0.02 mV
				(10 to 30) kHz	0.03 % + 0.02 mV
				(30 to 50) kHz	0.06 % + 0.02 mV
				(50 to 100) kHz	0.35 % + 0.03 mV
				(100 to 200) kHz	0.87 % + 0.06 mV
				(0.2 to 1) MHz	2.31 % + 0.23 mV
				(1 to 2) MHz	5.77 % + 0.46 mV
		200 V		(1 to 10) Hz	0.1 % + 34.64 mV
				(10 to 50) Hz	0.06 % + 34.64 mV
				(50 to 100) Hz	0.03 % + 34.64 mV
				(0.1 to 2) kHz	0.03 % + 34.64 mV
				(2 to 10) kHz	0.05 % + 34.64 mV
				(10 to 30) kHz	0.06 % + 34.64 mV
				(30 to 50) kHz	0.08 % + 34.64 mV

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No.	Quantity, Measuring Instrument, Material Measure	Range		Capability Measurement and Calibration ($\pm$)
12	AC Voltage Measurement	200 V	(50 to 100) kHz	0.35 % + 34.64 mV
			(100 to 200) kHz	0.87 % + 57.74 mV
			(0.2 to 1) MHz	4.62 % + 0.46 V
		750 V	(1 to 10) Hz	0.15 % + 0.13 V
			(10 to 50) Hz	0.10 % + 0.13 V
			(50 to 100) Hz	0.06 % + 0.13 V
			(0.1 to 2) kHz	0.06 % + 0.13 V
			(2 to 10) kHz	0.07 % + 0.13 V
			(10 to 30) kHz	0.09 % + 0.13 V
			(30 to 50) kHz	0.12 % + 0.13 V
			(50 to 100) kHz	0.58 % + 0.13 V
	AC Voltage Measurement with H.V. Probe	(1 to 28) kV	(50 to 60) kHz	5.77 %rdg
13	DC Voltage Measurement	Up to 200 mV		0.0022 % + 2.08 μ V
		200 mV to 2 V		0.0012 % + 2.08 μ V
		(2 to 20) V		0.0012 % + 3.46 μ V
		(20 to 200) V		0.0025 % + 0.46 μ V
		(200 to 1000) V		0.0025 % + 0.46 μ V
	DC Voltage Measurement with H.V. Probe	(1 to 20) kV		1.15 %rdg
		(20 to 40) kV		1.73 %rdg
14	Resistance Measurement indirect Method	50 $\mu\Omega$ to 10 m Ω		1.23 % + 3 $\mu\Omega$

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14	Resistance Measurement	20 Ω	0.002 % + 0.14 m Ω
		200 Ω	0.002 % + 0.92 m Ω
		2 k Ω	0.002 % + 0.92 m Ω
		20 k Ω	0.002 % + 92.38 m Ω
		200 k Ω	0.002 % + 0.21 m Ω
		2 M Ω	0.002 % + 1.15 m Ω
		20 M Ω	0.002 % + 13.86 m Ω
		200 M Ω	0.002 % + 0.69 m Ω
		1 G Ω	0.002 % + 17.32 m Ω
15	Insulation resistance Measurement	Up to 500 G Ω	2.4 %rdg
16	Capacitance Generation	(0.5000 to 4.0000) nF	0.35 % + 17.32 pF
		(4.0001 to 40.000) nF	0.35 % + 34.65 pF
		(40.001 to 400.00) nF	0.35 % + 184.84 pF
		(400.01 to 4.0000) μ F	0.46 % + 1.85 nF
		(4.0001 to 40.000) μ F	0.58 % + 18.48 nF
		(40.001 to 400.00) μ F	0.58 % + 184.75 nF
		(400.01 μ F to 4.0000) mF	0.58 % + 1.85 μ F
		(4.0001 to 40.000) mF	1.15 % + 69.28 μ F
17	Capacitance Measurement	(100/120)Hz 1 pF to 99999 μ F	0.12 %rdg
		1 kHz 0.1 pF to 99999 μ F	
		10 kHz 0.01 pF to 99999 μ F	
18	Inductance Generation	Up to 999 mH	2.3 % +0.6 μ H
		(1 to 10) H	2.0 %rdg
19	Inductance Measurement	(100/120)Hz 1 μ H to 99999 H	0.12 %rdg
		1 kHz 0.1 μ H to 99999 H	
		10 kHz 0.01 μ H to 99999 H	

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No.	Quantity, Measuring Instrument, Material Measure	Range	Capability Measurement and Calibration ($\pm$)
20	Frequency Generation	0.500 HZ to 320.000 Hz	0.0029 % + 0.58 mHz
		(0.3200 to 1.00000) kHz	0.0029 % + 5.77 mHz
		(1.00001 to 3.20000) kHz	0.0029 % + 5.77 mHz
		(3.2000 to 32.0000) kHz	0.0029 % + 0.06 mHz
		(32.0 to 320.000) kHz	0.0029 % + 0.58 mHz
		(0.32 to 3.20000) MHz	0.0029 % + 5.77 mHz
		(3.200 to 10.0000) MHz	0.0029 % + 0.06 mHz
		(10.00000 to 100.00000) MHz	0.004 kHz
		(100.00000 to 1000.0000) MHz	0.04 kHz
21	Frequency Measurement	DC to 3 GHz	0.36 Hz
22	Chronometer / Timer	10 ms and above	0.8 ms
23	Time Measurement	10 ms and above	0.8 ms
24	Rotation Measurement with Photo Method	(0.5 to 1000) rpm	0.05 %rdg +1 dig
		(1000 to 100000) rpm	
25	Rotation Measurement with Contact Method	Up to 1000 rpm	0.05 %rdg +1 dig
		(1000 to 6000) rpm	
26	Photo Tachometer	Up to 100000 rpm	0.06 rpm
27	Contact Tachometer	Up to 1000 rpm	0.06 rpm
		(1000 to 6000) rpm	0.6 rpm
28	Sound Level Meter	94 dB	0.7 dB
		114 dB	
		124 dB	
29	Sound Level Measurement	(30 to 130) dB	0.1 dB
30	Electronic Phase Degree Generation	(0 to 90) °	(10 to 65) HZ
			(65 to 500) HZ

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No.	Quantity, Measuring Instrument, Material Measure	Range		Capability Measurement and Calibration ($\pm$)
31	AC Power Generation	Voltage	(33 to 1020) V	$U_{power} = \sqrt{U_{voltage}^2 + U_{current}^2 + U_{Fadder}^2}$
		Current	3.3 mA to 550 A	
		Phase	(0 to 90) °	
32	DC Power Generation	33 mV to 1020 V	(3.3 to 329.99) mA	0.05 %rdg
			(0.33 to 0.8999) A	0.09 %rdg
			(0.9 to 2.1999) A	0.07 %rdg
			(2.2 to 4.4999) A	0.14 %rdg
			(4.5 to 11) A	0.10 %rdg
			(11A to 550) A	0.10 %rdg
33	Oscilloscope	Square Wave	10.000 mV to 60.000 V	0.1 % Output
		Sine Wave (Frequency response & BW)	50 kHz to 250 MHz	0.25 ppm
		Time Marker	40 ns to 5 s/div	100 ppm
		Edge Function (Rise and Fall Time)	40 ns to 10 ms	<12 ns
34	AC Power Measurement (3 Phase)	(0 to 1000) V 50/60 Hz		0.24 %rdg +0.12 V
35	Active AC power Measurement	1000 V, 4 A		1.2 %rdg+0.0003 W
		1000 V, 40 A		1.2 %rdg+0.003 W
		1000 V, 150 A		1.2 %rdg+0.01 W
		1000 V, 1500 A		1.2 %rdg+0.1 W
36	Power factor	(0 to 1)		0.03

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29-Medicine Calibrator

No.	Quantity, Measuring Instrument, Material Measure	Range		Capability Measurement and Calibration ($\pm$)
1	Patient simulator	Resistance	20 Ω	0.002 % + 0.14 m Ω
			200 Ω	0.002 % + 0.92 m Ω
			2 k Ω	0.001 % + 0.92 m Ω
		Frequency	DC to 200 HZ	0.36 HZ
		Temperature	(0 to 100) $^{\circ}\text{C}$	0.23 $^{\circ}\text{C}$
		Voltage	Up to 200 mV	0.0022 % + 2.08 μV
2	Noninvasive blood pressure	Up to 300 mmHg		0.1 % F.S
3	Defibrillator	Resistance	20 Ω	0.002 % + 0.14 m Ω
			200 Ω	0.002 % + 0.92 m Ω
			2 k Ω	0.001 % + 0.92 m Ω
			20 k Ω	0.001 % + 92.38 m Ω
		Frequency	DC to 200 Hz	0.36 HZ
		Voltage	Up to 200 mV	0.0022 % + 2.08 μV
		Wave	200 to 2000 V _{P-P}	3 % rdg
			Pulse Width	50 ppm
	Electro surgical analyzer	Resistance	(0.0000 to 40.0000) Ω	0.029 % + 11.5 m Ω
			(40.001 to 400.000) Ω	0.023 % + 23.1 m Ω
			(0.40001 to 4.00000) k Ω	0.017 % + 92.6 m Ω
			(4.0001 to 40.0000) k Ω	0.023 % + 926 m Ω
		Electric Power AC PF=1	(33 to 1020) V	$U_{\text{power}} = \sqrt{U_{\text{voltage}}^2 + U_{\text{current}}^2 + U_{\text{resistor}}^2}$
			3.3 mA to 550 A	

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No.	Quantity, Measuring Instrument, Material Measure	Range		Capability Measurement and Calibration ($\pm$)
4	Electro surgical analyzer	AC Current (50HZ)	200 μ A	0.40 % + 0.035 μ A
			2 mA	0.35 % + 0.35 μ A
			20 mA	0.35 % + 3.46 μ A
			200 mA	0.35 % + 34.6 μ A
			2 A	0.40 % + 0.35 mA
5	Electrical safety	AC Voltage (50HZ)	(0.000 to 10.000) mV	0.05 % + 443 μ V
			(10.001 to 32.00) mV	0.05 % + 111 μ V
			(32.001 to 320.000) mV	0.05 % + 22.2 μ V
			(0.3200 to 3.20000) V	0.05 % + 222 μ V
			(3.2001 to 32.0000) V	0.05 % + 2.23 mV
			(32.001 to 105.000) V	0.05 % + 7.3 mV
			(105.001 to 320.000) V	0.06 % + 22.2 mV
		Resistance	(0.0000 to 40.0000) Ω	0.029 % + 11.5 m Ω
		DC Current	Up to 200 μ A	0.04 % + 5.77 nA
			200 μ A to 2 mA	0.04 % + 0.05 μ A
			(2 to 20) mA	0.04 % + 0.46 μ A
		AC Current (50HZ)	200 μ A	0.40 % + 0.035 μ A
			2 mA	0.35 % + 0.35 μ A
			20 mA	0.35 % + 3.46 μ A
6	UV measurement in Photo-therapy Tester	Up to 100 μ W/cm ²		4.1 % F.S
7	Infusion analyzer	(0.5 to 1000) ml/h		0.08 % rdg


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