National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	YOUNG ENGG. & CALIBRATION SERVICES PVT. LTD., 24/710, AIRPORT WIRELESS ROAD, BHIMPUR, BHUBANESWAR, KHURDA, ODISHA , INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2080	Page No. :	1 / 9
Validity	28/03/2019 to 27/03/2021	Last Amended on	-

S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper L.C.: 0.01 mm	0 to 300 mm	12.0µm	Using Gauge Block Set by comparison method
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.:0.0001 mm	0 to 1600 µm	3.2µm	Using Foil by comparison method
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dail/Digimatic Caliper L.C. 0.01 mm	Above 300 mm to 600 mm	14.0µm	Using Gauge Block Set by comparison method
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge L.C.:0.01 mm	0 to 300 mm	11.1µm	Using Gauge Block Set by comparison method
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.: 0.001 mm	0 to 300 mm	5.0µm	Using Gauge Block Set by comparison method
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digimatic Thickness Gauge L.C.: 0.01 mm	0 to 25 mm	2.5µm	Using Gauge Block Set by comparison method

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Height & Gap)	10 mm to 100 mm	20µm	Using Digital caliper, Digimatic External Micrometer by comparison method
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge (Pin Dia)	1 mm to 6 mm	5.0µm	Using Digimatic Micrometer by comparison method
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	0 to 100 mm	1.8µm	Using Gauge Block Set by comparison menthod
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Above 100 mm to 300 mm	5.1µm	Using Gauge Block Set by comparison method
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	0.02 mm to 1 mm	2.3µm	Using Digimatic Micrometer by comparison method
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Film Applicator	0 to 1 mm	2.3µm	Using Electronic Comparator by comparison method

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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flaikeness Gauge	1 mm to 100 mm	20.0µm	Using Digimatic Vernier by comparison method
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	0.01 mm to 2 mm	2.3µm	Using Digimatic Micrometer by comparison method
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	0.001 mm to 1.2 mm	2.3µm	Using Electronic Comparator by comparison method
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C.: 0.01mm	0 to 300 mm	12.0µm	Using Gauge Block Set by comparison method
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C.:0.001 mm	50 mm to 350 mm	7.6µm	Using Gauge Block & Electronic Comparator by comparison method
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper	0 to 25 mm	57.8µm	Using Gauge Block Set by comparison method

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19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	5 mm to 275 mm	4.5µm	Using Gauge Block & Electronic Comparator by comparison method
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	5 mm to 125 mm	36.5µm	Using Caliper by comparison method
21	MECHANICAL-VOLUME	Auto Pipette / Micro Pipette / Micro Syringe / Dispenser	10 µl to 1000 µl	0.18µl	Using Electronic Balance
22	MECHANICAL-VOLUME	Burette / Pipette	1 ml to 100 ml	0.35µl	Using Standard Weight & Electronic Balance
23	MECHANICAL-VOLUME	Content Type Volumetric Measure	1 ml to 100 ml	0.7µl	Using Standard Weight & Electronic Balance
24	MECHANICAL-VOLUME	Content Type Volumetric Measure	Above 100 ml to 2000 ml	13.5µl	Using Standard Weight & Electronic Balance
25	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability 0.5g	0 kg to 5 kg	5.73g	Using Standard Weight (M1 Class)
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability: 10g	Above 30 kg to 100 kg	40g	Using Standard Weight (M1 Class)
27	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability:5g	Above 5 kg to 30 kg	7.6g	Using Standard Weight (M1 Class)
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 10 mg	0 g to 220 g	0.3mg	Using Standard Weight (F1 Class)

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, readability 10mg	Above 220 g to 3 kg	19.5mg	Using Standard Weight (F1 Class)
30	MECHANICAL-WEIGHTS	Using Standard Weight (F2 Class)	5 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
31	MECHANICAL-WEIGHTS	Weight (F2 Class)	5 g	0.011mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
32	MECHANICAL-WEIGHTS	Weights (F2 Class)	1 g	0.011mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
33	MECHANICAL-WEIGHTS	Weights (F2 Class)	1 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
34	MECHANICAL-WEIGHTS	Weights (F2 Class)	10 g	0.023mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
35	MECHANICAL-WEIGHTS	Weights (F2 Class)	10 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
36	MECHANICAL-WEIGHTS	Weights (F2 Class)	100 g	0.22mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.1 mg by substituation menthod as per OIML R-111
37	MECHANICAL-WEIGHTS	Weights (F2 Class)	100 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
38	MECHANICAL-WEIGHTS	Weights (F2 Class)	2 g	0.011mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
39	MECHANICAL-WEIGHTS	Weights (F2 Class)	2 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
40	MECHANICAL-WEIGHTS	Weights (F2 Class)	20 g	0.041mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
41	MECHANICAL-WEIGHTS	Weights (F2 Class)	20 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
42	MECHANICAL-WEIGHTS	Weights (F2 Class)	200 g	0.382mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.1 mg by substituation menthod as per OIML R-111
43	MECHANICAL-WEIGHTS	Weights (F2 Class)	200 mg	0.011mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
44	MECHANICAL-WEIGHTS	Weights (F2 Class)	50 g	0.047mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
45	MECHANICAL-WEIGHTS	Weights (F2 Class)	50 mg	0.010mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
46	MECHANICAL-WEIGHTS	Weights (F2 Class)	500 mg	0.011mg	Using Standard Weight (F1 Class)and Weighing balace with readability 0.01 mg by substituation menthod as per OIML R-111
47	MECHANICAL-WEIGHTS	Weights (M2 Class)	1000 g	12.3mg	Using Standard Weight (M1 Class) and Weighing balace with readability 10 mg by substituation menthod as per OIML R-111
48	MECHANICAL-WEIGHTS	Weights (M2 Class)	2000 g	13.5mg	Using Standard Weight (M1 Class) and Weighing balace with readability 10 mg by substituation menthod as per OIML R-111
49	MECHANICAL-WEIGHTS	Weights (M2 Class)	500 g	12.2mg	Using Standard Weight (M1 Class) and Weighing balace with readability 10 mg by substituation menthod as per OIML R-111

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S.No	Discipline / Group	Quantity Measured/ Instrument	Range / Frequency	* Calibration Measurement Capability(±)	Remarks
Site Facility					
1	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability : 5 g	Above 5 kg to 30 kg	7.6g	Using Standard Weight (M1 Class)
2	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability: 0.5 g	0 kg to 5 kg	5.73g	Using Standard Weight (M1 Class)
3	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance Readability: 10g	Above 30 kg to 100 kg	40g	Using Standard Weight (M1 Class)
4	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 10 mg	0 g to 220 g	0.3mg	Using Standard Weight (F1 Class)
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance Readability: 10 mg	Above 220 g to 3 kg	19.5mg	Using Standard Weight (F1 Class)