National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BMT LABORATORIES LLP, UNIT 10 & 20, EXTENSION- I, BUILDING- I, RAJPRABHA UDYOG NAGAR, GOLANI NAKA, VILLAGE WALIV, VASAI EAST, VASAI, PALGHAR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 1 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indentor (Diameter)	Using Video Measuring Machine By Comparison Method	1.586 mm to 6.35 mm	8.50 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute)	Using Angle Gauge Set by Comparison Method	0° - 90°- 0°	3.08 arc minute
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using LMM and Master Dial Gauge by Comparison Method	0 to 1 mm	3.28 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.02 mm & coarser)	Using Caliper Checker & Long Gauge Block Set by Comparison Method	0 to 1000 mm	64.30 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 2 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers- Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	16.6 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm)	Using Gauge Block, Long Gauge Block, Surface Plate by comparison method	0 to 300 mm	14.2 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer (L.C.: 0.001 mm)	Using slip Gauge Set, Long Gauge Blocks & Surface Plate	0 to 300 mm	10.9 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set By Comaprison Method	0 to 100 mm	20.32 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Lever Type (L.C.: 0.002 mm)	Using LMM by Comparison Method	0 to 0.2 mm	1.91 µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 3 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.001 mm)	Using LMM by Comparison Method	0 to 25 mm	2.04 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.001 mm)	Using LMM by Comparison Method	0 to 50 mm	2.29 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extension Rod (Internal Micrometer)	Using LMM By Comparison Method	63 mm to 350 mm	8.22 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Gauge Block Set By Comparison Method	0 to 100 mm	24.42 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set, Long Gauge Block Set By Comparison Method	100 mm to 300 mm	34.15 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 4 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set & Long Gauge Block Set By Comaprison Method	300 mm to 500 mm	34.15 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Slip Gauge Set & Long Gauge Block Set By Comparison Method	500 mm to 700 mm	34.93 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Digital / Analog (L.C.: 0.01 mm & Coarser)	Using Slip Gauge, Gauge Block Set By Comaprison Method	700 mm to 1000 mm	35.30 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using LMM by Comparison Method	0.02 mm to 2 mm	1.95 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm)	Using Caliper Checker, Gauge Block Set, Long Gauge Block Set & Surface Plate By Comparison Method	0 to 600 mm	16.16 µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 5 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection Jig & Fixture (Angle)	Using Video Measuring Machine By Comparison Method	10 ° to 61 °	26.56 arc sec
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection Jig & Fixture (Diameter)	Using Video Measuring Machine By Comparison Method	4 mm to 74 mm	7.35 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection Jig & Fixture (Length)	Using Video Measuring Machine By Comparison Method	5 mm to 245 mm	12.76 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using LMM By Comparison Method	0.5 mm to 10 mm	3.2 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	119.9 sqrt (L) µm , where L in meter

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 6 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 0.1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50 m	165.4 sqrt(L) µm, where L in meter
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (Internal Micrometer)(L.C.: 0.01 mm)	Using Electronic Probe & Comparator Stand By Comparison Method	50 mm to 63 mm	2.90 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using LMM 600 & Long Gauge Block Set By Comparison Method	200 mm to 400 mm	3.66 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using LMM & Long Gauge Block By Comparison Method	25 mm to 200 mm	2.96 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using LMM & Long Gauge block Set By Comparison Method	400 mm to 500 mm	4.71 µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 7 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using LMM 600 & Long Gauge Block Set By Comparison Method	500 mm to 575 mm	5.09 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge (Effective Diameter)	Using LMM, OD Master & Thread Measuring Wire By Comparison Method	100 mm to 136 mm	2.5 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge (Effective Diameter)	Using LMM, OD Master, Thread Measuring Wire By Comparison Method	3 mm to 100 mm	2.3 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using LMM & OD Master By Comparison Method	100 mm to 125 mm	2.56 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width GAuge	Using LMM & OD MAster By Comparison Method	3 mm to 100 mm	1.84 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 8 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM & Master Ring Gauge By Comparison Method	100 mm to 125 mm	2.13 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	USing LMM & Master Ring Gauge By Compariosn Method	3 mm to 100 mm	1.84 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Video Measuring Machine By Comparison Method	0.25 mm to 40 mm	26.13 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge By Comparison Method	100 mm to 300 mm	3.52 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using LMM & Master Ring Gauge By Comparison Method	3 mm to 100 mm	1.82 µm

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 9 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using VMM by Comparison Method	0.1 mm to 15 mm	15.13 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve- Aperture Size	Using VMM by Comparison Method	0.032 mm to 3.5 mm	5.74 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve-Aperture Size	Using Digital Vernier Caliper By Comparison Method	3.5 mm to 125 mm	35.8 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using Electronic Probe By Comparison Method	0.01 mm to 1.76 mm	2.08 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using VMM by Comparison Method	0 ° to 60 °	14.47 sec

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 10 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge(Pitch-Linear)	Using VMM by Comparison Method	0.17 mm to 7 mm	5.68 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge/ Wear Check Ring Gauge (For Effective Diameter)	Using LMM & Master Ring Gauge By Comparison Method	3 mm to 100 mm	2.07 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge (Angle)	Using VMM by Comparison Method	45 ° to 90 °	17.32 arc minute
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge(Linear) (L.C.: 1 mm)	Using VMM by Comparison Method	0 to 50 mm	360.95 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using VMM by Comparison Method	0.2 mm to 10 mm	8.53 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 11 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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50	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT Probe (L.C. 0.00001 mm)	Using Gauge Block Set & Comparator Stand By Comparison Method	0 to 25 mm	1.61 µm
51	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT Probe (L.C. 0.0001 mm)	Using LMM By Comparison Method	0 to 25 mm	1.86 µm
52	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using LMM & Long Gauge Block By Comparison Method	100 mm to 200 mm	2.5 µm
53	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using LMM 600 & Long Gauge Block By Comparison Method	200 mm to 300 mm	3.4 µm
54	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using LMM 600 Long Gauge Block By Comparison Method	300 mm to 400 mm	3.9 µm
55	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar/Long Gauge Block	Using LMM 600 & Long Gauge Block By Comparison Method	400 mm to 500 mm	4.6 µm
56	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator(L.C: 0.001mm)	Using Gauge Block Set & Long Gauge Block Set by Comparison Method	0 mm to 1000 mm	16.53 µm

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 12 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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57	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog & Digital)	Using Digital Pressure Gauge with Hydraulic pressure comparator by Comparison Method as per DKD- R 6-1	0 bar to 700 bar	0.82 bar
58	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauge (Analog & Digital)	Using Digital Pressure Gauge with Pneumatic Pressure Comparator by Comparison Method as per DKD-R 6-1	0 bar to 40 bar	0.059 bar
59	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Vaccum Gauge (Digital / Analog)	Using Digital Vacuum Gauge with Pneumatic Vacuum comparator by Comparison Method as per DKD-R 6-1	(-)0.85 bar to 0 bar	0.0068 bar

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-4081 **Page No** 13 of 13

Validity 18/10/2024 to 17/10/2028 **Last Amended on** -

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Site Facility					
1	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Measuring Pin & Digital Caliper / Glass Scale	10 X to 100 X	0.4 %
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator (L.C: 0.001mm)	Using Gauge Block Set & Long Gauge Block By Comparison Method	0 mm to 1000 mm	16.53 µm
3	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Analog & Digital)	Using Digital Pressure Gauge with Hydraulic pressure comparator by Comparison Method as per DKD- R 6-1	0 bar to 700 bar	0.82 bar
4	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauge (Analog & Digital)	Using Digital Pressure Gauge with Pneumatic Pressure Comparator by Comparison Method as per DKD-R 6-1	0 bar to 40 bar	0.059 bar
5	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Vaccum Gauge (Digital / Analog)	Using Digital Vacuum Gauge with Pneumatic Vacuum comparator by Comparison Method as per DKD-R 6-1	(-)0.85 bar to 0 bar	0.0068 bar

*** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.**