



Productive Engineers (I) Pvt. Ltd.

(An ISO 9001 : 2015 Certified Company)

DT. 04/04/2026

CALIBRATION CERTIFICATION

This section covers the calibration details of measuring and testing instruments used at the manufacturing facility of Productive Engineers (I) Pvt. Ltd., ensuring accuracy and reliability in all inspection and fabrication processes.

All instruments are calibrated at regular intervals either through in-house calibration or through external agencies, maintaining traceability to relevant standards as per quality and RDSO requirements.

The in-house calibration activities have been carried out by M/s Brilliant Calibration LLP, while outsourced calibration has been undertaken through M/s Size Masters Calibration Services LLP. The calibration services from Size Masters have been executed through TCR Services, for which supporting documentation is available.

The list of instruments includes equipment used for dimensional measurement, welding inspection, coating assessment, environmental monitoring, and other quality control activities. Calibration certificates for all applicable instruments are enclosed herewith as documentary evidence.

For Productive Engineers (I) Pvt Ltd.,


Authorised Signatory



CIN : U74999MH2007PTC168370

Factory : Plot B-31, M.I.D.C., Addl. Ambernath Anand Nagar, Ambernath (E) - 421 506.
E-mail : info@productiveengrs.org, factory.peipl@gmail.com • Web : www.productiveengrs.org



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PRODUCTIVE ENGINEERS (I) PVT LTD

VERNIER CALIPER CERTIFICATE 1



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.: 26/1511	ULR: CC39112600001511F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer

M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date

: LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION OF UUC: VERNIER CALIPER

RANGE : 0 -150 mm
L.C. : 0.02 mm
MAKE : INSIZE
ACCURACY : ERROR=±0.040mm, PARALLELISM=±0.040mm
ID. NO. : VC-01

Condition when received : Satisfactory
Environmental conditions : Temperature: 20±2 °C, Relative Humidity:50%RH±10%RH
Reference of Standard /Cal. Procedure No. : IS 16491:Part 1:2024 / WI-01-02
Place of Calibration : In-Lab
Discipline : Mechanical Calibration (Dimension)

Standard Equipment Used For Calibration:

Sr. No.	Description	Make	Sr.No./ Id. No.	Certificate No.	Date Of Calibration	Due Date	Cal. Agency
1.	Slip Gauge Set	Mikrocheck	BI/SG/01	SCL/24-25/11/064-002	19.11.2024	18.11.2026	SCL Metrology LLP
2.	Caliper Checker	ADITYA	BI/CC/58	CH/25/1510A-01	15.10.2025	14.10.2027	CALIBRATION HOUSE

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

Calibration Results

Standard Reading	Measured Reading On Unit Under Calibration (Avg. of 3 Rdg.)		Error
	External Jaw	Internal Jaw	
0.000	0.000	0.000	0.000/0.000
20.200	20.220	20.240	0.020/0.040
50.400	50.420	50.440	0.020/0.040
80.600	80.620	80.640	0.020/0.040
110.800	110.820	110.840	0.020/0.040
130.000	130.020	130.040	0.020/0.040

Remarks : Parallelism error in external jaws is 0.040mm
Remarks : Parallelism error in external jaws is 0.020mm
Parallelism error in internal jaws is 0.020mm
Error in depth measuring blade is within 0.020mm
Error in step measurement is within 0.020 mm
Uncertainty Of Measurement (At 95.45% C.L.) = ±12.5 µm. With Coverage Factor K=2

Calibrated by:

R.B.V.

(Tech. Asst.)

NOTE:

- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
- This certificate shall not be reproduced except in full without permission of BCLLP.
- This report refers only to particular item(s) submitted for calibration.
- Readings given above are as on received condition of the instrument.

Authorized signatory:

M.D. Chavan

(L. I. / Q.M.)



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M S) 421201
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web : www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

VERNIER CALIPER CERTIFICATE 2



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: Vernier Caliper (Digital Type)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/027	PAGE 1 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002809F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : IS 16491 Part I - 2024 & IS 16491 Part II-2016

Calibration Procedure No. : WI/M/05Rev no:0 dt.22/05/2024

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Depth Micro Checker	R-11-3 / 3195	2025/75033/001	CC-2460	12-07-2025	11-07-2027
Caliper Checker	R-18-2 / 2232	TI/H/CC/009/24	CC-2660	20-08-2024	19-08-2026
Measuring Pin	SMCS/MP/001 / ---	2025/75996/001	CC-2460	06-09-2025	05-09-2027
Master Ring Gauge	SMCS/MSR/01 / G-723	2025/75996/002	CC-2460	06-09-2025	05-09-2027

Uncertainty of Measurement : ± 16 µm

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

Note: 1) Calibration Results are given on Page No.2 onwards.

Vernier Caliper (Digital Type): RANGE : 0 - 150 mm L.C. : 0.01 mm

Make : Insize	Customer ID No. : TCR/COR/VC/01
Sr. No. : 2706221761	LAB ID No. : 76265/027


Mohini Tingre
Calibrated By




Shehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
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CC-2460

CALIBRATION CERTIFICATE



CALIBRATION CERTIFICATE OF: Vernier Caliper (Digital Type)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/027	PAGE 2 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002809F	
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

All readings are in mm

CALIBRATION RESULTS

External Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	19.99	-10
50.00	49.99	-10
100.00	99.99	-10
150.00	149.99	-10

Internal Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	20.00	0
50.00	50.01	10
100.00	100.01	10
150.00	150.01	10

Depth Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	20.01	10
50.00	50.00	0
100.00	100.01	10
150.00	150.01	10

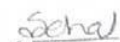
Error due to line contact error : 10 μm

Error due to line crossed knife-edge : 10 μm

x-x-x-x-x- End of certificate -x-x-x-x-x-x


Mohini Tingre
Calibrated By




Snehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

VERNIER CALIPER CERTIFICATE 3



SIZE MASTERS CALIBRATION SERVICES LLP

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CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: Vernier Caliper (Digital Type)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/027	PAGE 1 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002809F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : IS 16491 Part I - 2024 & IS 16491 Part II-2016

Calibration Procedure No. : WI/M/05Rev no:0 dt.22/05/2024

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Depth Micro Checker	R-11-3 / 3195	2025/75033/001	CC-2460	12-07-2025	11-07-2027
Caliper Checker	R-18-2 / 2232	TI/H/CC/009/24	CC-2660	20-08-2024	19-08-2026
Measuring Pin	SMCS/MP/001 / ---	2025/75996/001	CC-2460	06-09-2025	05-09-2027
Master Ring Gauge	SMCS/MSR/01 / G-723	2025/75996/002	CC-2460	06-09-2025	05-09-2027

Uncertainty of Measurement : ± 16 µm

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

Note:1) Calibration Results are given on Page No.2 onwards.

Vernier Caliper (Digital Type): RANGE : 0 - 150 mm L.C. : 0.01 mm

Make : Insize	Customer ID No. : TCR/COR/VC/01
Sr. No. : 2706221761	LAB ID No. : 76265/027

Mohini Tingre
Mohini Tingre
Calibrated By



Shehal Gadekar
Shehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf

FORMAT NO. CLDS-A

PRODUCTIVE ENGINEERS (I) PVT LTD



SIZE MASTERS CALIBRATION SERVICES LLP

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CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: Vernier Caliper (Digital Type)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/027	PAGE 2 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002809F	
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

CALIBRATION RESULTS

All readings are in mm

External Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	19.99	-10
50.00	49.99	-10
100.00	99.99	-10
150.00	149.99	-10

Internal Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	20.00	0
50.00	50.01	10
100.00	100.01	10
150.00	150.01	10

Depth Measurement		
Ref. Size	Observed Value	Error in μm
0.00	0.00	0
20.00	20.01	10
50.00	50.00	0
100.00	100.01	10
150.00	150.01	10

Error due to line contact error : 10 μm

Error due to line crossed knife-edge : 10 μm

x-x-x-x-x-x- End of certificate -x-x-x-x-x-x-

Mohini
Mohini Tingre
Calibrated By



Snehal
Snehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL65-A

PRODUCTIVE ENGINEERS (I) PVT LTD

MICROMETER CERTIFICATE 1



SIZE MASTERS CALIBRATION SERVICES LLP

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CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: EXTERNAL MICROMETER	ISSUE DATE : 12-09-2025	CERTIFICATE NO. 2025/76088/003	PAGE 1 OF 1
DATE OF CALIBRATION: 12-09-2025	NEXT DATE OF CALIBRATION: 11-09-2026 (as per customer request)	ULR: CC246025600002719F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. D.C.NO. : 9248 DATED: 10-09-2025	DATE OF RECEIPT : 11-09-2025 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : IS 2967 1983 (R1998)

Calibration Procedure No. : WI/M/06Rev no:1 dt.10/01/2025

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No. / Sr. No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Micrometer Check Set	R-11-2 / 4695	SG 4021	CC-2102	17-10-2023	17-10-2025
Optical Flat	R-17 / 72376	2023/12/1796	CC-2875	12-12-2023	11-12-2025

Uncertainty of Measurement : ± 6 µm

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

EXTERNAL MICROMETER: RANGE : 0 - 15 mm L.C. : 0.01 mm

Make : Mitutoyo	Customer ID No. : TCR/PIN/01
Sr. No. : ---	LAB ID No. : 76088/003

CALIBRATION RESULTS

A. INSTRUMENTAL ERROR	All readings are in mm								
REFERENCE STD. READINGS	0	2.5	5.1	7.7	10.3	12.9	15		
ERROR in µm	0	1	2	1	1	2	2		

Parallelism of Measuring Faces: 0.002 mm
Flatness of Measuring Face: 0.0003 mm

x-x-x-x-x-x- End of certificate -x-x-x-x-x-x

Abhijeet Patil
Calibrated By




Angha Patil / Snehal Gadekar / Kiran Zanwar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A


PRODUCTIVE ENGINEERS (I) PVT LTD

MICROMETER CERTIFICATE 2



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
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E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com





CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: EXT. MICROMETER (BALL TYPE)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/025	PAGE 1 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002807F	
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : IS 2967 1983

Calibration Procedure No. : WI/M/06 & 60Rev no:1 dt.10/01/2025

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Micrometer Check Set	R-11-2 / 4695	SG 4021	CC-2102	17-10-2023	17-10-2025
Optical Flat	R-17 / 72376	2023/12/1796	CC-2875	12-12-2023	11-12-2025
Electronic Probe with DRO	R-30-2 / 37407936A	2024/70922/001	CC-2460	28-11-2024	27-11-2025

Uncertainty of Measurement : ± 6 µm For Micrometer
± 3.5 µm For Micrometer Stick

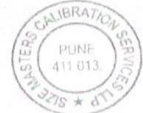
The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

Note:1) Calibration Results are given on Page No.2 onwards.

EXT. MICROMETER (BALL TYPE): RANGE : 0 - 50 mm L.C. : 0.01 mm

Make : YUZUKI	Customer ID No. : TCR/MEC/MM/50-1
Sr. No. : 160445362	LAB ID No. : 76265/025

Mohini Tingre
Mohini Tingre
Calibrated By



Suehal Gadekar
Suehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf

PRODUCTIVE ENGINEERS (I) PVT LTD



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
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E-mail : kiranzanwar@yahoo.com / smescalibration@gmail.com



CC-2460

CALIBRATION CERTIFICATE



CALIBRATION CERTIFICATE OF: EXT. MICROMETER (BALL TYPE)	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/025	PAGE 2 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002807F	
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

CALIBRATION RESULTS

All readings are in mm

REFERENCE STD. READINGS	25	27.5	30.1	32.7	35.3	37.9	40	42.6	45.2	47.8	50
ERROR in μm	1	1	2	1	1	1	2	2	2	1	2

B. Actual length of micrometer setting standard

Sr. No.	Nominal Length (mm)	Error in μm
1	25.000	2.0

Specified Accuracies as per I S. 2967 (1983) :- Clause No. 4.2 & 4.3

Measuring Range of Micrometer (mm)	0 - 50	50 - 100	100 - 150	150 - 200	200 - 250	250 - 300	300 - 350	350 - 400	400 - 450	450 - 500
Tolerance on zero setting (μm)	± 2	± 3	± 4	± 5	± 6	± 7	± 8	± 9	± 10	± 11
Tolerance on Parallelism of measuring faces (μm)	2	3	4	5	6	7	8	9	10	11
Error of measurement (μm)	± 4	± 5	± 6	± 7	± 8	± 9	± 10	± 11	± 12	± 13

C. ZERO SETTING ERROR

Sr. No.	Measuring Range	Error in μm
1	25.0	1.0

x-x-x-x-x-x- End of certificate -x-x-x-x-x-x-

Mohini Tingre
Mohini Tingre
Calibrated By



Snehal
Snehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

MICROMETER CERTIFICATE 3



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1531	ULR:CC39112600001531F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : **M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.**
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No. & Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION OF UUC : MICROMETER

RANGE : 75 - 100 mm
L.C. : 0.01 mm
MAKE : SMIEC
ACCURACY : ERROR=±0.004mm, PARALLELISM=±0.002mm
SR. NO./ID. NO. : **A088**
Condition when received : Satisfactory
Environmental conditions : Temperature : 20±2 °C ,Relative Humidity:50%RH±10%RH
Reference of Standard /Cal. Procedure No. : IS 2967:2019 / WI-01-01
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Slip Gauge Set	Mikrocheck	BI/SG/01	SCL/24-25/11/064-002	19.11.2024	18.11.2026	SCL Metrology LLP
2.	Mic check set	Mikrocheck	BI/SG/02	SCL/24-25/11/064-001	19.11.2024	18.11.2026	SCL Metrology LLP

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULTS

All Dimensions are in mm

STANDARD DIMN.	MEASURED READING ON UNIT UNDER CAL. (avg. of 3 rdg.)	ERROR
77.500	77.500	0.000
80.100	80.100	0.000
82.700	82.700	0.000
85.300	85.300	0.000
87.900	87.901	0.001
90.000	90.001	0.001
92.600	92.601	0.001
95.200	95.201	0.001
97.800	97.801	0.001
100.000	100.002	0.002

Parallelism Error In Measuring Faces Is Within 0.001 mm
Uncertainty Of Measurement (AT 95.45% C.L.) = ± 2.2 µm. With coverage factor k=2

Calibrated by:

R.B.V. (Tech. Asst.)

Authorized signatory:

M.D. Chavan (L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



PRODUCTIVE ENGINEERS (I) PVT LTD

CLAMP METER CERTIFICATE



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1530	ULR:CC39112600001530F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 3

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION OF UUC : CLAMP METER

RANGE : 1000V
MAKE : METRIX
MODEL : METRIX 2250 T
I.D. NO./SRNO. : CM-01

Condition When Received : Satisfactory
Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.
Reference of Standard /Cal. Procedure No. : Euramet cg-15 Version 3.0 (2015)/WI-04-07
Place Of Calibration : In-Lab
Discipline : Electro-Technical Calibration (AC & DC)

STANDARD EQUIPMENT USED FOR CALIBRATION:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 MULTIFUNCTION CALIBRATOR WITH CURRENT COIL	ZEAL	201402601/BI/MFC/82 BI/CC/83	11/08 (2025-2026)	03.11.2025 TO 04.11.2025	02.11.2026	ZEAL
2.	DECADE RESISTANCE BOX	ZEAL	201403602/BI/DRB/84	11/12 (2025-2026)	04.11.2025	03.11.2026	ZEAL

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULTS

Cal. Point/Range	Std. Reading	UUC Reading	Deviation	Expanded Uncertainty
DC VOLTAGE				
V	V	V	V	%
4	0.40000	0.400	0.000	0.12
	2.0000	2.002	0.002	0.12
	3.6000	3.606	0.006	0.12
40	4.0000	3.97	-0.03	0.12
	20.000	19.94	-0.06	0.12
	36.000	35.91	-0.09	0.12
400	40.000	40.4	0.4	0.12
	200.00	199.4	-0.6	0.12
	360.00	360.7	0.7	0.12
1000	100.00	98	-2	0.12
	500.00	499	-1	0.12
	900.00	897	-3	0.16
AC VOLTAGE				
4	0.40000	0.404	0.004	0.30
	2.0000	2.006	0.006	0.30
	3.6000	3.593	-0.007	0.30

Calibrated By
N.P.Pate
Tech. Asst.

Authorised By:
V.N.Avhad
T.M.

FR-01-05-0 dtd.14.08.2024



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO. :26/1530	ULR:CC391126000001530F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 2	No. Of Pages 3

AC VOLTAGE				
40	4.0000	4.01	0.01	0.30
	20.000	20.06	0.06	0.30
	36.000	36.10	0.10	0.30
400	40.000	39.7	-0.3	0.30
	200.00	200.5	0.5	0.30
	360.00	360.9	0.9	0.30
750	75.00	74	-1	0.30
	375.00	376	1	0.30
	675.00	673	-2	0.22

RESISTANCE				
Ω	Ω	Ω	Ω	%
400	40	39.7	-0.3	0.12
	200	200.5	0.5	0.12
	360	359.6	-0.4	0.12
$K\Omega$	$K\Omega$	$K\Omega$	$K\Omega$	%
4	0.4	0.400	0.000	1.36
	2.0	2.004	0.004	1.36
	3.6	3.595	-0.005	1.36
40	4	4.02	0.02	1.36
	20	20.05	0.05	1.36
	36	36.07	0.07	1.36
400	40	39.9	-0.1	1.36
	200	199.5	-0.5	1.36
	360	359.2	-0.8	1.36
$M\Omega$	$M\Omega$	$M\Omega$	$M\Omega$	%
4	0.4	0.397	-0.003	0.58
	2.0	2.005	0.005	0.58
	3.6	3.609	0.009	0.58
40	4	4.04	0.04	0.58
	20	20.07	0.07	1.82
	36	35.94	-0.06	1.82

Calibrated By
N.P.Pate
Tech. Asst.

Authorised By:
V.N.Avhad
T.M.

FR-01-05-0 dtd.14.08.2024



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1530	ULR:CC391126000001530F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 3	No. Of Pages 3

Cal. Point/Range	I/P Current By Master	Calculated Reading	Reading On UUC	Deviation	Expanded Uncertainty
AC CURRENT (50 Hz) (Current to coil ratio 1:100)					
A	A	A	A	A	%
40	0.040	4	4.02	0.02	2.02
	0.200	20	20.05	0.05	2.02
	0.360	36	36.07	0.07	2.02
400	0.4000	40	40.1	0.1	2.02
	2.0000	200	200.5	0.5	2.02
	3.6000	360	359.4	-0.6	2.02
1000	1.0000	100	99	-1	2.02
	5.0000	500	502	2	2.02
	9.0000	900	899	-1	2.02

Uncertainty of measurement at 95.45%C.L. with coverage factor $k=2$

Calibrated by:
N. P. Pate
(Tech. Asst.)

Authorized signatory:
V. N. Avhad
(L. I./T.M.)

Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.

- This certificate shall not be reproduced except in full without permission of BCLLP.
- This report refers only to particular item(s) submitted for calibration.
- Readings given above are as on received condition of an instrument.
- Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

MEASURING TAPE CERTIFICATE 1



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460

CALIBRATION CERTIFICATE



CALIBRATION CERTIFICATE OF: MEASURING TAPE	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/030	PAGE 1 OF 2
DATE OF CALIBRATION: 20-09-2025	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002812F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. D.C.NO. : 9181 DATED: 17-09-2025	DATE OF RECEIPT : 19-09-2025 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : IS 1269 Part II 1997

Calibration Procedure No. : WI/M/45Rev no:0 dt.22/05/2024

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Scale & Tape Calibration Machine	E-9-1 / 054	OM/45/240025	CC-2751	07-10-2024	06-10-2025

Uncertainty of Measurement : ± 118 µm sqrt(L) in micron, Where L is in m
The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.
Note:1) Calibration Results are given on Page No.2 onwards.

MEASURING TAPE: RANGE : 0 - 10000 mm L.C. : 1 mm

Make : Freemans	Customer ID No. : TCR/MT/03
Sr. No. : ---	LAB ID No. : 76265/030

Mohini Tingre
Mohini Tingre
Calibrated By



Snehal Gadekar
Snehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF:	ISSUE DATE : 20-09-2025	CERTIFICATE NO. 2025/76265/030	PAGE 2 OF 2
MEASURING TAPE	NEXT DATE OF CALIBRATION: 19-09-2026 (as per customer request)	ULR: CC246025600002812F	DISCIPLINE: MECHANICAL
DATE OF CALIBRATION: 20-09-2025	DATE OF RECEIPT : 19-09-2025	GROUP: DIMENSION	
CUSTOMER'S REF. D.C.NO. : 9181	CONDITION OF ITEM : Satisfactory	(BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	
DATED: 17-09-2025			

CALIBRATION RESULTS

All readings are in mm

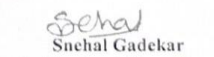
Sr. No.	UUC READINGS IN mm	OBSERVED LENGTH IN mm
1	40.0	40.000
2	41.0	40.941
3	42.0	41.928
4	80.00	79.950
5	90.00	90.096
6	100.00	100.158
7	200.00	200.042
8	500.00	499.965
9	1000.00	999.834
10	2000.00	1999.985
11	3000.00	2999.915
12	4000.00	3999.611
13	5000.00	4999.467
14	6000.00	5999.249
15	7000.00	6999.257
16	8000.00	7999.310
17	9000.00	8999.438
18	10000.00	9999.159

Specified Accuracies as per I.S. 1269 (1997) :- Clause No. 8.1 & 8.2

- Class I - Maximum permissible error = $\pm (0.1+0.1 L)$ mm
 - Class II - Maximum permissible error = $\pm (0.3+0.2 L)$ mm
 - Class III - Maximum permissible error = $\pm (0.6+0.4 L)$ mm
- Where L is in metres & the maximum permissible error for measures in service is equal to twice the maximum permissible error at the time of initial verification as specified in point no. 1, 2 & 3 respectively.
- x-x-x-x-x-x- End of certificate -x-x-x-x-x-x


Mohini Tingre
Calibrated By




Snehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

MEASURING TAPE CERTIFICATE 2



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1523	ULR:CC39112600001523F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification of U.U.C. : MEASURING TAPE

Range : 0-3 mtr
Resolution : 1 mm
Make : FREEMANS
Accuracy : ± 1 mm
Sr.No./Id. No. : MT-01

Condition when received : Satisfactory
Environmental conditions : Temperature: 20 ± 2 °C, Relative Humidity: 50%RH \pm 10%RH
Reference of Standard /Cal. Procedure No. : IS 1269 : Part II : 1997 (Reaff.2024)/ WI-01-23-0
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/0402/ 1-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	Digital Caliper	Mitutoyo	BI/VC/87	SCL/25-26/04/164-002	22.04.2025	21.04.2026	SCL Metrology LLP CC-4074

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

Set on Unit Under Calibration	Measured reading on Master (avg of 3 rdgs.)	Error
0	000.000	0.000
500	500.100	0.100
1000	1000.140	0.140
2000	2000.150	0.150
3000	3000.160	0.160

Uncertainty of Measurement (at 95.45%C.L.)= ± 290 μ m/m with coverage factor $k=2$

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of the instrument.
5. Calibration certificate issued is for scientific and industrial purpose only.
However, if used for commercial trading, additional recognition/approval shall be compiled as required by Dept. of Legal Metrology, regulatory bodies etc.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

MEASURING TAPE CERTIFICATE 3



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1525	ULR:CC391126000001525F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification of U.U.C. : MEASURING TAPE

Range : 0-5 mtr
Resolution : 1 mm
Make : FREEMANS
Accuracy : ± 1 mm
Sr.No./Id. No. : MT-02

Condition when received : Satisfactory
Environmental conditions : Temperature: 20 ± 2 °C, Relative Humidity: 50%RH ± 10 %RH
Reference of Standard /Cal. Procedure No. : IS 1269 : Part II : 1997 (Reaff.2024)/ WI-01-23-0
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/0402/ I-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	Digital Caliper	Mitutoyo	BI/VC/87	SCL/25-26/04/164-002	22.04.2025	21.04.2026	SCL Metrology LLP CC-4074

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

Set on Unit Under Calibration	Measured reading on Master (avg of 3 rdgs.)	Error
0	000.000	0.000
500	500.079	0.079
1000	1000.134	0.134
2000	2000.159	0.159
3000	3000.187	0.187
4000	4000.210	0.210
5000	5000.275	0.275

Uncertainty of Measurement (at 95.45%C.L.)= ± 290 μ m/m with coverage factor k=2

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.
 - Calibration certificate issued is for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/approval shall be complied as required by Dept. of Legal Metrology, regulatory bodies etc.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

MEASURING TAPE CERTIFICATE 4



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1526	ULR:CC39112600001526F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification of U.U.C. : **MEASURING TAPE**

Range : 0-5 mtr
Resolution : 1 mm
Make : MARKER
Accuracy : ± 1 mm
Sr.No./Id. No. : **MT-03**
Condition when received : Satisfactory
Environmental conditions : Temperature: 20 ± 2 °C, Relative Humidity: $50\%RH \pm 10\%RH$
Reference of Standard /Cal. Procedure No. : IS 1269 : Part II : 1997 (Reaff.2024)/ WI-01-23-0
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/0402/ I-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	Digital Caliper	Mitutoyo	BI/VC/87	SCL/25-26/04/164-002	22.04.2025	21.04.2026	SCL Metrology LLP CC-4074

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

Set on Unit Under Calibration	Measured reading on Master (avg of 3 rdgs.)	Error
0	000.000	0.000
500	500.059	0.059
1000	1000.121	0.121
2000	2000.148	0.148
3000	3000.169	0.169
4000	4000.227	0.227
5000	5000.260	0.260

Uncertainty of Measurement (at 95.45%C.L.) = $\pm 290 \mu\text{m/m}$ with coverage factor $k=2$

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE:**
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.
 - Calibration certificate issued is for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/approval shall be complied as required by Dept. of Legal Metrology, regulatory bodies etc.



FR-01-01-0 dtd.14.08.2024

---End of Certificate---



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurji Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

MEASURING TAPE CERTIFICATE 5



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1527	ULR:CC39112600001527F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification of U.U.C. : MEASURING TAPE

Range : 0-15 mtr
Resolution : 1 mm
Make : FREEMANS
Accuracy : ± 1 mm
Sr.No./Id. No. : MT-04
Condition when received : Satisfactory
Environmental conditions : Temperature: 20±2 °C, Relative Humidity: 50%RH±10%RH
Reference of Standard /Cal. Procedure No. : IS 1269 : Part II : 1997 (Reaff.2024)/ WI-01-23-0
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/0402/ I-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	Digital Caliper	Mitutoyo	BI/VC/87	SCL/25-26/04/164-002	22.04.2025	21.04.2026	SCL Metrology LLP CC-4074

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

Nominal value on uuc mm	Measured value on Ref. mm (avg. of 3 rdg.)	Error mm	Nominal value on uuc mm	Measured value on Ref. mm (avg. of 3 rdg.)	Error mm
0	000.000	0.000	8000	8000.257	0.257
500	500.050	0.074	9000	9000.275	0.275
1000	1000.121	0.121	10000	10000.346	0.346
2000	2000.137	0.137	11000	11000.376	0.376
3000	3000.150	0.150	12000	12000.389	0.389
4000	4000.170	0.170	13000	13000.400	0.400
5000	5000.198	0.198	14000	14000.460	0.460
6000	6000.216	0.216	15000	15000.480	0.480
7000	7000.236	0.236			

Uncertainty of Measurement (at 95.45%C.L.)=± 290 µm/m with coverage factor k=2

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.
 - Calibration certificate issued is for scientific and Industrial purpose only. However, if used for commercial trading, additional recognition/approval shall be compiled as required by Dept. of Legal Metrology, regulatory bodies etc.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

TRY SQUARE CERTIFICATE



brilliant calibration LLP

Certificate of Calibration

CERTIFICATE NO.: 26/2798	DATE OF ISSUE : 27.03.2026
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)
	Page. No. 1
	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION : **RIGHT ANGLE**
RANGE : 8 X 6 mm
L. C. : 1 mm
MAKE : METRO
ID. NO. / SR. NO. : RA-01

CONDITION WHEN RECEIVED : SATISFACTORY
ENVIRONMENTAL CONDITIONS : TEMPERATURE : 20±2 °C,, HUMIDITY : 40-60 %

Standard Equipment Used For Calibration:

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Angle Gauge Set	GGI	BI/AG/14	AG/25/2628	17.12.2025	17.12.2027	Mikronix CC-4534
2.	VIDEO MEASURING MACHINE	SIPCON	2830/BI/VM/86	CH/24/2104 A-01	21.04.2024	20.04.2026	CALIBRATION HOUSE

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULTS

MAXIMUM DEVIATION FOUND 90°,4' FOR INNER SIDE OF THE BLADE
90°,4' FOR OUTERSIDE OF THE BLADE

UNCERTAINTY OF MEASUREMENT (AT 95.45% C.L.) = ±1 MIN. With coverage factor k=2

Calibrated by:

R.B.V

(Tech. Asst.)

NOTE: 1. The calibration results reported in this certificate are valid at the time of & the stated condition of measurements.

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- This report refers only to particular item(s) submitted for calibration.
- Readings given above are as on received condition of an instrument.

--End of certificate--

Authorized signatory:

M.D Chavan

(L.I / Q.M)



PRODUCTIVE ENGINEERS (I) PVT LTD

SPIRIT LEVEL CERTIFICATE



brilliant calibration LLP

Certificate of Calibration

CERTIFICATE NO.:26/2797	NEXT DUE DATE 24.03.2027 (Customer decided)	DATE OF ISSUE : 27.03.2026	Page. No. 1	No. Of Pages 1
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Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION OF UUC: SPIRIT LEVEL METER

RANGE : 45 mm
L.C. : ----
MAKE : FREEMANS
I.D. NO./SR. NO. : SL-01

CONDITION WHEN RECEIVED : SATISFACTORY
ENVIRONMENTAL CONDITIONS : TEMPERATURE : 20±2 °C,HUMIDITY : 50±10% R.H.
REFERENCE OF STANDARD : IS - 5706-1993, 1632-1993

STANDARD EQUIPMENT USED FOR CALIBRATION:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL.AGENCY
1.	SLIP GAUGE SET	MIKROCHECK	BI/SG/01	SCL/24-25/11/064-002	19.11.2024	18.11.2026	SCL Metrology LLP

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULTS

STANDARD DIMN.	MEASURED DIMN. UNDER CAL.	
	+VE DIRECTION	-VE DIRECTION
0.02	0.026	0.026
0.04	0.045	0.045
0.06	0.060	0.060
0.08	0.087	0.087
0.10	0.105	0.105
0.12	0.127	0.127

UNCERTAINTY OF MEASUREMENT AT 95.45% C.L. = ± 10 µm With coverage factor k=2

Calibrated by:
R.B.V
(Tech. Asst.)

Authorized signatory:
M.D Chavan
(L.I / Q.M)

- NOTE: 1.The calibration results reported in this certificate are valid at the time of & the stated condition of measurements.
2. This certificate should not be reproduced without prior permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of an instrument.
--End of certificate--



PRODUCTIVE ENGINEERS (I) PVT LTD

WELD GAUGE CERTIFICATE



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1514	ULR:CC39112600001514F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification Of U.U.C. : Fillet Welding Gauge
Range : 0 To 60° & 0 To 35 mm
MAKE : KRISTEEL
Resolution : 2° & 1 mm
Sr. No./Id. No. : WG-01

Condition When Received : Satisfactory
Environmental Conditions : Temperature: 20±2 °C, Relative Humidity: 50%Rh ±10%Rh
Reference Of Standard /Cal. Procedure No. : -/ WI-01-47-0
Place Of Calibration : In-Lab
Discipline : Mechanical Calibration (Dimension)

Standard Equipment Used For Calibration :

Sr. No.	Description	Make	Sr. No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	Cal. Agency
1.	Vision Measuring M/C	Sipcon	BI/VM/86	CH/24/2104A-01	21.04.2024	20.04.2026	Calibration House

All the measurements performed are traceable to National/Int. standards through NABL accredited cal. Lab.

Calibration Results

Standard Dimensions On UUC	Measured reading On Master (avg. of 3 rdgs.)	Error	Standard Dimensions On UUC	Measured reading On Master (avg. of 3 rdgs.)	Error
5 mm	5.05 mm	0.05 mm	10°	10° 15'	15'
10 mm	10.1 mm	0.10 mm	20°	20° 15'	15'
15 mm	15.1 mm	0.10 mm	30°	30° 20'	20'
20 mm	20.1 mm	0.10 mm	40°	40° 20'	20'
25 mm	25.1 mm	0.10 mm	50°	50° 22'	22'
			60°	60° 25'	25'

Uncertainty of Measurement (at 95.45%C.L.) = ± 10 µm with coverage factor k=2
Uncertainty of Measurement (at 95.45%C.L.) = ± 20 min with coverage factor k=2

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of the instrument.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

SURFACE ROUGHNESS TESTER CERTIFICATE 1



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013, (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smescalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: SURFACE ROUGHNESS TESTER	DATE OF ISSUE: 14/02/2026	CERTIFICATE NO. 2026/78650/001	PAGE 1 OF 2
DATE OF CALIBRATION: 14/02/2026	NEXT DATE OF CALIBRATION: 13/02/2027 (to be decided by user)	ULR: CC246026700000012 F	
CUSTOMER'S REF. By Letter	DATE OF RECEIPT: 12/02/2026	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM: SATISFACTORY	GROUP: DIMENSION (PRECISION INSTRUMENTS)	

CUSTOMER: **M/s. TCR ENGINEERING SERVICES PVT. LTD**
Plot no: EL-182, TTC Indel. Area. Mahape, Navi Mumbai

CALIBRATION PROCEDURE: LAB PROCEDURE W1 87

REF. DOCUMENT USED : Comparison Method

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY:

- a) Surface Roughness Specimen (ID No: SMCS/SRM/003, SR NO: 347841305) Traceable to National Standards through NABL LAB vide CC-2716, Certificate No. CC2716-24-0-00001832F cal on 15/10/2024 & valid upto 14/10/2026.
- b) Surface Roughness Specimen (ID No: SMCS/SRM/002, SR NO: 112/1534) Traceable to National Standards through NABL LAB vide CC-2716, Certificate No. CC2716-24-0-00001831F cal on 15/10/2024 & valid upto 14/10/2026.
- c) Surface Roughness Specimen (ID No: SMCS/SRM/004, SR NO: 317) Traceable to National Standards through NABL LAB vide CC-2082, Certificate No. P/73/240015 cal on 21/09/2024 & valid upto 21/09/2026.

UNCERTAINTY OF MEASUREMENT: ± 7.9 %.

The uncertainty stated is the Expanded uncertainty of Measurement obtained by Multiplying the standard uncertainty by coverage factor K=2 corresponds to confidence level of 95.45%

SURFACE ROUGHNESS TESTER

(ALL DIMENSIONS ARE IN μm)

CUSTOMER CODE: ---	MAKE: Time
SR.NO.: 00000106630006	LAB I.D: 78650/001
TYPE : PORTABLE	



Mohini Tingre
Mohini Tingre
Calibrated By



Shehal Gadekar
Shehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekd Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460

CALIBRATION CERTIFICATE



CALIBRATION CERTIFICATE OF: SURFACE ROUGHNESS TESTER	DATE OF ISSUE: 14/02/2026	CERTIFICATE NO. 2026/78650/001	PAGE 2 OF 2
DATE OF CALIBRATION: 14/02/2026	NEXT DATE OF CALIBRATION: 13/02/2027 (to be decided by user)	ULR: CC246026700000012 F	
CUSTOMER'S REF. By Letter	DATE OF RECEIPT: 12/02/2026	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM: SATISFACTORY	GROUP: DIMENSION (PRECISION INSTRUMENTS)	

1. CONDITION OF CALIBRATION :

Description	Settings
Cutoff Length	0.8 mm
Measuring Speed	0.2mm/s
Measured Profile / Filter	Gaussian
Evaluation Length	4.00 mm

CALIBRATION RESULTS:

REFERENCE VALUE (Ra) in μm	OBSERVED VALUE in μm
0.6010	0.610

2. CONDITION OF CALIBRATION :

Description	Settings
Cutoff Length	2.5 mm
Measuring Speed	0.2mm/s
Measured Profile / Filter	Gaussian
Evaluation Length	12.5 mm

CALIBRATION RESULTS:

REFERENCE VALUE (Ra) in μm	OBSERVED VALUE in μm
2.998	3.006
5.970	5.982

-----X-----



Mohini Tingre
Mohini Tingre
Calibrated By




Shehal
Shehal Gadekar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A


PRODUCTIVE ENGINEERS (I) PVT LTD

SURFACE ROUGHNESS TESTER CERTIFICATE 2



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: SURFACE ROUGHNESS SPECIMEN	DATE OF ISSUE: 14/02/2026	CERTIFICATE NO. 2026/78650/002	PAGE 1 OF 1
DATE OF CALIBRATION: 14/02/2026	NEXT DATE OF CALIBRATION: 13/02/2027 (to be decided by user)	ULR: CC246026700000013 F	
CUSTOMER'S REF. By Letter	DATE OF RECEIPT: 12/02/2026	DISCIPLINE: MECHANICAL	
	CONDITION OF ITEM: SATISFACTORY	GROUP: DIMENSION (PRECISION INSTRUMENTS)	

CUSTOMER: M/s. TCR ENGINEERING SERVICES PVT. LTD
Plot no: EL-182, TTC Indel, Area. Mahape, Navi Mumbai

CALIBRATION PROCEDURE: LAB PROCEDURE WI 88

REF. DOCUMENT USED : IS 3073-1967

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY:

a) Surface Roughness Tester (Sr. No. No: 000261306) Traceable to National Standards through NABL LAB vide CC-2460, Certificate No. 2025/76652/001 cal. on 17/10/2025 & valid up to 16/10/2027.

UNCERTAINTY OF MEASUREMENT: ±8.6%

The uncertainty stated is the Expanded uncertainty of Measurement obtained by Multiplying the standard uncertainty by coverage factor K=2 corresponds to confidence level of 95.45%

ENVIRONMENTAL CONDITIONS: 20°C ± 1°C

SURFACE ROUGHNESS SPECIMEN

(ALL DIMENSIONS ARE IN μm)

CUSTOMER CODE:- ---	MAKE: Mitutoyo
SR.NO. 363441706	LAB I.D: 78650/002

RESULTS: Ra Value (Measurement Point = 5 point)

SR. NO.	Ra = 2.97 μm
1	2.978
2	2.968
3	2.990
4	2.985
5	2.998
Avg.	2.984

1
2
3
4
5

Mohini Tingre
Mohini Tingre
Calibrated By



Shehal
Shehal Gadekar
Authorised Signatory



Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

COATING THICKNESS GAUGE CERTIFICATE 1

SM

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE OF: COATING THICKNESS GAUGE	ISSUE DATE : 11-03-2026	CERTIFICATE NO. 2026/79130/001	PAGE 1 OF 1
DATE OF CALIBRATION: 11-03-2026	NEXT DATE OF CALIBRATION: 10-03-2027 (as per customer request)	ULR: CC246026600001374F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. D.C.NO. : By Hand DATED: 11-03-2026	DATE OF RECEIPT : 11-03-2026 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : ---

Calibration Procedure No. : WI/M/46Rev no 0 dt.22/05/2024

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & IT'S TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No. / Sr. No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Foils	R-29 / --	2025/76188/001	CC-2460	17-09-2025	16-09-2026

Uncertainty of Measurement : ± 2.5 µm

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

COATING THICKNESS GAUGE: RANGE : 0 - 1500 µm L.C. : 1 µm

Make : DEFELSKO	Customer ID No. : TCR/MET/EQP/16
Sr. No. : 288985	LAB ID No. : 79130/001


CALIBRATION RESULTS

All values are in µm

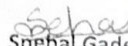
Sr. No.	REFERENCE SIZE IN µm	OBSERVED SIZE IN µm	OBSERVED ERROR IN µm
1	10.3	13	+2.7
2	24.5	27	+2.5
3	49.9	51	+1.1
4	127.9	131	+3.1
5	252.1	255	+2.9
6	493.6	498	+4.4
7	521.9	525	+3.1
8	744.2	749	+4.8

Remark : Above results are average of 3 reading

x-x-x-x-x- End of certificate -x-x-x-x-x


Abhijeet Patil
Calibrated By




Snehal Gadekar
Authorised Signatory



PRODUCTIVE ENGINEERS (I) PVT LTD

COATING THICKNESS GAUGE CERTIFICATE 2



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1532	ULR:CC391126000001532F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : **M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.**
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : **COATING THICKNESS GAUGE**
RANGE : 0 TO 1250µm
L.C. : 0.1 µm (0-99.9 µm), 1 µm (OVER 100 µm)
MAKE : METRIX
SR.NO./I.D.NO.: **N714873**

Condition when received : Satisfactory
Environmental conditions : Temperature:20±2 °C, Relative Humidity:50%RH ±10%RH
Reference of Standard /Cal. Procedure No. : -- / WI-01-20
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Coatings Folls	Yuyutsu	BI/TF/72	CAL/25/CC/757-1	16.11.2025	15.11.2026	Nashik Engineering Cluster

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULTS

All Dimensions are in µm

Standard Reading	Reading on UUC (avg.of 3 rdgs.)	Error
25	25.0	0.0
51	51.0	0.0
126	125.9	-0.1
251	251.1	0.1
502	502.1	0.1
715	715.1	0.1
920	920.2	0.2
1250	1250.2	0.2

Uncertainty of Measurement (at 95.45%C.L.)=± 1.43µm with coverage factor k=2

Calibrated by:

R.B.V.
(Tech. Asst.)

Authorized signatory:

M.D. Chavan
(L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakuril Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

TEMPERATURE GAUGE CERTIFICATE



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smcscalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

1. CUSTOMER NAME		Page 11 of 1		
TCR ENGINEERING SERVICES PVT LTD		Certificate No.	:- 2025/76276/25	
LAB : VKB House EC-182, TTC Industrial Area, MIDC		ULR No.	:- CC246025100001108F	
Electronic Zone , Mahape, Navi Mumbai 400710		DISCIPLINE	:- Thermal	
		Group	:- Temperature	
		Date of Issue	:- 22-9-25	
2. General Details				
Environment Condition	Temp 25 ± 4 °C	Date of Calibration	:- 16-9-25	
	Humidity 40 to 60 % RH	Next Calibration Due On	:- 15-9-26	
Location of calibration	In-Lab/At Customer Site	W.I. No.	:- T-01	
Condition of Item	OK	Reference I.S.	:- ASTM E 220-13/Euromet cg-8	
3. Details of Test Instrument				
Name	Temp Controller With Sensor	Range	:- Amb. to 1200° C	
Make/Model	SELEC/TC 303	Least Count	:- 1° C	
ID.No.	TCR/COR/MOC/1	Location	:- MOISTURE COATING UNIT	
Sr.No.			WITH HEATING FURNACE CONTROLLER (CORROSION LAB)	
4. Detail of equipment used for calibration & Its Traceability				
Name	R Type Thermocouple with indicator			
Make/Sr.No./I.D No.	Tempsens/22195 (SMCS/TS/(R Type)-01)			
Certificate No.	TL/024/1063.3.1			
Metrological Traceability	Traceable to national/international standards Through Tempsens Calibration NABL Lab Cert No. CC			
	2840			
Calibration Validity	06-Oct-25			
5. Calibration Results				
Cal.Points	UUC Reading	Reference Standard Reading	Error	(±) Expanded Uncertainty
Unit:°C	Unit:°C	Unit:°C	Unit:°C	Unit:°C
250	250	249.47	0.53	0.88
400	400	399.23	0.77	0.95
600	600	598.51	1.49	1.78
800	800	798.19	1.81	1.88
1200	1200	1197.88	2.12	2.15
The reported expanded uncertainty is stated as a standard uncertainty multiplied by a coverage confidence level. factor k = 2 at ±95%				
Note:				
1) UUC stands for Unit Under Calibration.				
2) This certificate refers only to the particular item submitted for calibration				
3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "SIZE MASTERS CALIBRATION SERVICES LLP, Pune".				
4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.				
5) As Found ; As Left				

x-x-x-x-x END OF CERTIFICATE x-x-x-x-x

Ajay Jagtap
Calibrated By



Ajay Jagtap / Kiran Zanwar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

HUMIDITY METER CERTIFICATE 1



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smscalibration@gmail.com



CC-2460



CALIBRATION CERTIFICATE

1. CUSTOMER NAME		Page No. 1 of 1		
M/s. TCR ENGINEERING SERVICES PVT LTD.		Certificate No.	2025/76265/009	
Plot No. EL-182, MIDC - TTC, Electronic Zone, Behind Nelco, Mahape, Navi Mumbai - 400710.		ULR No.	CC246025100001140F	
		DISCIPLINE	Thermal	
		Group	Specific Heat & Humidity	
		Date of issue	22-Sep-25	
2. General Details				
Environment Condition	Temp 25 ± 4 °C	Date of Calibration	20-Sep-25	
	Humidity 40 to 60 % RH	Next Calibration Due On	19-Sep-26	
Calibration Performed at	In Lab/At-Customer-Site	Date of Receipt	19-Sep-25	
Condition of Item	OK	W.I. No.	T-06	
Customer Reference	DC NO. 9181 DTD 17/09/2025			
3. Details of Test Instrument				
Name	Thermohygrometer	Range	-10 to 50 °C / 20 to 99 % RH	
Make/Model	HTC/103 CTH	Resolution	0.1 °C / 1 % RH	
ID.No.	TCR/THM/COR/01	Accuracy	±1 °C / 5 % RH	
Sr.No.	-----	Location	Not Mentioned	
4. Detail of equipment used for calibration & Its Traceability				
Name	Thermohygrometer			
Make/Sr. No./I.D No.	Rotronics/5181972/ 20281629 (SMCS/DHG/02)			
Certificate No.	TSC/24-25/7202-1			
Metrological Traceability	Traceable To National / International Standards Through Transcal, Bengaluru NABL Lab Cert No : CC-2231			
Calibration Validity	21-Jul-25			
5. Calibration Results				
Range of UUC	UUC Reading	Reference Standard Reading	Error	(±) Expanded Uncertainty
	Unit:°C	Unit:°C	Unit:°C	Unit:°C
Temperature @ 50 % RH	20.3	19.94	0.36	0.5
	30.2	29.93	0.27	0.5
	40.2	39.85	0.35	0.5
	50.1	49.77	0.33	0.6
		Unit:% RH	Unit:% RH	Unit:% RH
Humidity @ 25°C	20	19.46	0.54	1.7
	40	38.81	1.19	1.7
	60	58.59	1.41	1.8
	90	88.34	1.66	1.8
The reported expanded uncertainty is stated as a standard uncertainty multiplied by a coverage confidence level. factor k = 2 at ±95%				
Note:				
1) UUC stands for Unit Under Calibration				
2) This certificate refers only to the particular item submitted for calibration				
3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "SIZE MASTERS CALIBRATION SERVICES LLP, Pune".				
4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.				
5) As Found ; As Left				

X-X-X-X END OF CERTIFICATE X-X-X-X

Sachin Chavan
Calibrated By



Kiran Zanwar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

HUMIDITY METER CERTIFICATE 2



SIZE MASTERS CALIBRATION SERVICES LLP

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smcscalibration@gmail.com



CC-2460

CALIBRATION CERTIFICATE



1. CUSTOMER NAME		Page No. 1 of 1		
M/s. TCR ENGINEERING SERVICES PVT LTD.		Certificate No.	2025/76265/006	
Plot No. EL-182, MIDC - TTC, Electronic Zone, Behind Nelco, Mahape, Navi Mumbai - 400710.		ULR No.	CC246025100001137F	
		DISCIPLINE	Thermal	
		Group	Specific Heat & Humidity	
		Date of Issue	22-Sep-25	
2. General Details				
Environment Condition	Temp 25 ± 4 °C	Date of Calibration	20-Sep-25	
	Humidity 40 to 60 % RH	Next Calibration Due On	19-Sep-26	
Calibration Performed at	In Lab/At-Customer-Site	Date of Receipt	19-Sep-25	
Condition of Item	OK	W.I. No.	T-06	
Customer Reference	DC NO. 9181 DTD 17/09/2025			
3. Details of Test Instrument				
Name	Thermohygrometer	Range	-10 to 50 °C / 20 to 99 % RH	
Make/Model	HTC/HTC-1	Resolution	0.1 °C / 1 % RH	
ID.No.	TCR/THM/MEC/01	Accuracy	±1 °C / 5 % RH	
Sr.No.		Location	Not Mentioned	
4. Detail of equipment used for calibration & Its Traceability				
Name	Thermohygrometer			
Make/Sr.No./I.D No.	Rotronics/5181972/ 20281629 (SMCS/DHG/02)			
Certificate No.	TSC/24-25/7202-1			
Metrological Traceability	Traceable To National / International Standards Through Transcal, Bengaluru NABL Lab Cert No : CC-2231			
Calibration Validity	21-Jul-25			
5. Calibration Results				
Range of UUC	UUC Reading	Reference Standard Reading	Error	(±) Expanded Uncertainty
	Unit: °C	Unit: °C	Unit: °C	Unit: °C
Temperature @ 50 % RH	20.1	19.98	0.12	0.5
	30.3	29.93	0.37	0.5
	40.2	39.85	0.35	0.5
	50.2	49.77	0.43	0.5
		Unit: % RH	Unit: % RH	Unit: % RH
Humidity @ 25 °C	20	19.21	0.79	1.7
	40	38.87	1.13	1.7
	60	58.79	1.21	1.8
	90	88.22	1.78	1.8

The reported expanded uncertainty is stated as a standard uncertainty multiplied by a coverage confidence level.
factor $k = 2$ at $\pm 95\%$

Note:

- 1) UUC stands for Unit Under Calibration.
- 2) This certificate refers only to the particular item submitted for calibration
- 3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "SIZE MASTERS CALIBRATION SERVICES LLP, Pune".
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 5) As Found ; As Left

Sachin Chavan
Calibrated By

X-X-X-X-X END OF CERTIFICATE X-X-X-X-X



Kiran Zanwar
Authorised Signatory

Note : This certificate is issued subject to conditions stated overleaf.

FORMAT NO. CL05-A

PRODUCTIVE ENGINEERS (I) PVT LTD

ULTRASONIC THICKNESS GAUGE

CERTIFICATE1



ELECTRONIC & ENGINEERING CO. (I) PVT LTD.

CALIBRATION CERTIFICATE

CERTIFICATE NO: 120125256

THIS IS TO CERTIFY THAT, ULTRASONIC THICKNESS GAUGE.

MODEL : ETM-2

SR.NO. : D426JYA

HAS BEEN CALIBRATED AND TESTED TO THE REQUIREMENTS OF THE EQUIPMENT SPECIFICATIONS. IT'S PERFORMANCE CHARACTERISTIC ARE AS UNDER.

CALIBRATION BLOCK USED, MODEL: SB-10

SR.NO. :AAD810

CALIBRATION PROBE USED, MODEL: P-81

SR.NO. :625GAG

NOMINAL THICKNESS OF THE BLOCK, MM	READING ON GAUGE , MM	VARIANCE , MM (TOLERANCE \pm 0.1 MM)
2.0	1.90	0.1
3.0	3.0	0.0
4.0	4.0	0.0
5.	5.0	0.0
6.0	6.0	0.0
7.0	7.10	0.1
8.0	8.0	0.0
9.0	9.0	0.0
10.0	9.90	0.1

ALL MEASURING TOOLS USED FOR TESTING ARE CALIBRATED AND TRACEABLE TO NATIONAL ARE INTERNATIONAL STANDARD. THE QUALITY MANAGEMENT SYSTEM AT ELECTRONIC & ENGINEERING CO. (I) P. LTD. IS CERTIFIED ACCORDING TO ISO 9001:2015.

DATE : 24/01/2026

VALID UPTO : 23/01/2027

SIGNED :

NAME OF INSPECTOR

PREETI SING



ELECTRONIC & ENGINEERING CO. (I) P. LTD.

EEC House C-7, Dalia Industrial Estate, Off New Link Road, Opp. Laxmi Indl. Estate, Andheri (West), Mumbai - 400 053. INDIA

Tel Nos: +91-22-6150 3800

Email: ndtsales@eecindia.com, Website: www.eecindia.com



PRODUCTIVE ENGINEERS (I) PVT LTD

ULTRASONIC THICKNESS GAUGE CERTIFICATE

2



Works : D-191, M.I.D.C Sirwane, Post Nerul, Navi Mumbai- 400706 (INDIA).
 Phone : 20876240-41 • Fax : 20876242 • E-mail : info@eastwestndt.com • Website : www.eastwestndt.com



CALIBRATION CERTIFICATE

Calibration No : EC/24-25/3782	Date : 17-04-2025
Gauge Model : CYGNUS-4+ MODEL M5-SG	Gauge Sr.No. : 26599
Probe : 2.25 MHz Ø 13 mm (S2C)	Probe Sr.No. : 262155A
Step Wedge : 5-25 MM-CS	Sr No. : 3E/CS//5-25MM/N-84

Customer: TCR Engineering Services Pvt Ltd

Note

This Ultrasonic Thickness Gauge has been calibrated against set of structural carbon steel test blocks complying to EN10025-2:2004 and heat treated in accordance with BS EN15137:2007 and calibrated at CALI Laboratory - Certificate No. CALI-2108001-09 DT 16-12-2024 Due 15-12-2025 having their master instruments traceable to NPL, Delhi.

CALIBRATION RESULT

Resolution Setting	Temperature	Velocity of Sound
0.05 mm	24°C	5920

Standard Block Sr No	Block Thickness (mm)	Measured Thickness (mm)	Acceptance Limits(mm)	Result (Pass/Fail)
3E/CS/10-50mm/E-09	10.00	10.02	±0.05	Pass
	20.00	20.01	±0.05	Pass
	30.00	30.00	±0.05	Pass
	40.00	40.03	±0.05	Pass
	50.00	50.05	±0.05	Pass

Through Coat Test:	Pass
--------------------	------

Measurement Uncertainty 0.05mm

Calibration Due Date	Calibrated By
16.04.2026	SANTOSH KOTKAR

For EASTWEST ENGINEERING AND ELECTRONICS PVT.LTD.



Authorized Signatory



PRODUCTIVE ENGINEERS (I) PVT LTD

MOTHER OVEN TEMPERATURE CALIBRATION



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1531	ULR:CC39112600001531F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION OF U.U.C. : DIG. TEMP. CONTROLLER WITH SENSOR (MOTHER OVEN)

RANGE : 50 - 400 °C
L.C. : 1°C
MAKE : ARCOW
ACCURACY : ±2°C
I.D.NO. : OVEN-01

Condition when received : Satisfactory
Environmental condition : Temperature : 25±4 °C, Relative Humidity: 30-75 % R.H.
Cal. Procedure No. : IS 2848 : 2023(IEC 60751: 2022), ASTM E1137/E1137M-08 (Dec 10, 2014), DKD-R 5-1 2023-11 / WI-02-24

Place Of Calibration : At-Site
Discipline : Thermal Calibration (Temperature)
Source Used : 1) Ultra Cool Dry Block Furnace(-100°C to Ambient°C)
2) Dry Block Furnace(-10°C to 100°C)
3) Dry Block Furnace (50 to 600 °C)

Standard Equipment Used For Calibration :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	Cal. Agency
1.	Digital Temp. Calibrator with 4 wire RTD Temp. Sensor	Beamex/ Tempens	BI/BMC/95/ BI/TS/118	NI2025/05/ 0013	05.05.2025	04.05.2026	Nishtronics Instrumentation

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULTS

CALIBRATION POINTS IN (°C)	MEASURED TEMP.ON UUC (Unit under calibration) (°C)	MEASURED TEMP.ON REF. STANDARD (°C)	ERROR (°C)	UNCERTAINTY (°C)
50	50	50.2	-0.2	±1.3
100	100	100.4	-0.4	
200	200	200.6	-0.6	
300	300	300.7	-0.7	
400	400	400.9	-0.9	

Uncertainty of measurement at 95.45%C.L. with coverage factor $k=2$

Calibrated by:
R. V. Chavan. *Chavan*
(L. I.)

Authorised by:
V. N. Avhad. *Avhad*
(T. M.)

Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.

- This certificate shall not be reproduced except in full without permission of BCLLP.
- This report refers only to particular item(s) submitted for calibration.
- Readings given above are as on received condition of an instrument.
- Measured output is average of 5 readings.
- The Actual reading on reference standard refers to corrected value due to calibration error from traceability.
- Above Calibration done is meant for scientific & industrial Purpose only.



FR-01-04-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakuril Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

STEEL SCALE CERTIFICATE 1



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1529	ULR:CC391126000001529F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification Of Uuc : **Steel Scale**
Range : 0 - 1000mm
L.C. : 1 mm
Make : AJANTA
Accuracy : ±1 mm
I.D. NO. : **SS-02**

Condition when received : Satisfactory
Environmental conditions : Temperature: 20±2 °C, Relative Humidity:50%RH±10%RH
Reference of Standard /Cal. Procedure No. : IS 1481:2024/ WI-01-24
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :							
Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/04 02/ 1-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	DIAL INDICATOR	Mitutoyo	BI/DG/05	CC3895250000 00206F	17.06.2025	16.06.2026	NECL

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

All Dimensions are in mm		
Set on Unit Under Calibration	Measured reading on Master (avg of 3 rdgs.)	Error
000	000.000	0.000
100	100.048	0.048
200	200.073	0.073
300	300.139	0.139
400	400.184	0.184
500	500.210	0.210
600	600.249	0.249
800	800.271	0.271
1000	1000.310	0.310

Uncertainty of Measurement (at 95.45%C.L.)=± 145µm with coverage factor k=2

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.
 - Calibration certificate issued is for scientific and industrial purpose only.
- However, if used for commercial trading, additional recognition/approval shall be complied as required by Dept. of Legal Metrology, regulatory bodies etc.



FR-01-01-0 dtd.14.08.2024

--End of Certificate--



PRODUCTIVE ENGINEERS (I) PVT LTD

STEEL SCALE CERTIFICATE 2



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1528	ULR:CC39112600001528F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

Description & Identification Of Uuc : **Steel Scale**
Range : 0 - 600mm
L.C. : 1 mm
Make : KHYATI
Accuracy : ±1 mm
I.D. NO. : SS-01

Condition when received : Satisfactory
Environmental conditions : Temperature: 20±2 °C, Relative Humidity:50%RH±10%RH
Reference of Standard /Cal. Procedure No. : IS 1481:2024/ WI-01-24
Place of Calibration : In-Lab
Discipline : Mechanical Calibration(Dimension)

STANDARD EQUIPMENT USED FOR CALIBRATION :

Sr. No.	Description	Make	Sr.No. / Id. No.	Certificate No.	Date Of Calibration	Due Date	CAL AGENCY
1.	Tape & Scale Calibration system	OCTAGON	036 / BI/TS/88	CGIL/2025/04 02/ I-001	02.04.2025	01.04.2026	CALIBER GAUGES
2.	DIAL INDICATOR	Mitutoyo	BI/DG/05	CC3895250000 00206F	17.06.2025	16.06.2026	NECL

All the measurements performed are traceable to National/Int. standards through NABL accredited cal.lab

CALIBRATION RESULT

All Dimensions are in mm

Set on Unit Under Calibration	Measured reading on Master (avg of 3 rdgs.)	Error
000	000.000	0.000
100	100.040	0.040
200	200.120	0.120
300	300.160	0.160
400	400.200	0.200
500	500.330	0.330
600	600.360	0.360

Uncertainty of Measurement (at 95.45%C.L.)=± 145µm with coverage factor k=2

Calibrated by:
R.B.V.
(Tech. Asst.)

Authorized signatory:
M.D. Chavan
(L. I. / Q.M.)

- NOTE:
- The calibration results reported in this report are valid at the time of & the stated condition of measurements.
 - This certificate shall not be reproduced except in full without permission of BCLLP.
 - This report refers only to particular item(s) submitted for calibration.
 - Readings given above are as on received condition of the instrument.
 - Calibration certificate issued is for scientific and industrial purpose only. However, if used for commercial trading, additional recognition/approval shall be complied as required by Dept. of Legal Metrology, regulatory bodies etc.



--End of Certificate--

FR-01-01-0 dtd.14.08.2024



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

SAW WELDING MACHINE CERTIFICATE 1



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1517	ULR:CC39112600001517F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer

: M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date

: LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION

: VOLTAGE/ CURRENT MEASUREMENT
(DIGITAL SAW WELDING MACHINE)

RANGE : 0-1000 A/1A
0-44V/0.1V
MAKE : AOTAI
MODEL NO : ASAW 1000II
SR.NO : J15053930001
ACCURACY : ± 2% OF FSD
I.D.NO. : WM-03

Condition When Received
Environmental Conditions
Reference of Standard /Cal. Procedure No.
Place Of Calibration
Discipline

: Satisfactory
: Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.
: IS-13875-1993/WI-04-05/WI-04-01-0(Rev.0)
: At-Site
: Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

Sr. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT

Sr.No.	STANDARD CURRENT ADC	READING ON UUC ADC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	000	00.0	0.00	1.3%
2.	101.74	100	-1.74	0.17	1.3%
3.	202.15	200	-2.15	0.22	1.3%
4.	302.25	300	-2.25	0.23	1.3%
5.	402.45	400	-2.45	0.24	1.3%
6.	503.52	500	-3.52	0.35	1.3%
7.	903.87	900	-3.87	0.39	1.3%

Sr. No.	Standard Current Vdc	Reading On UUC Vdc	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0	0.0	0.00	0.12%
2.	10.08	10.00	-0.08	0.18	0.12%
3.	20.18	20.00	-0.18	0.41	0.12%
4.	30.27	30.00	-0.27	0.61	0.12%
5.	44.35	44.00	-0.35	0.80	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

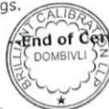
Calibrated by:
N. P. Pate
(Tech. Asst.)

Authorized signatory:
V. N. Avhad
(L. I./T.M.)

- Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of an instrument.
5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

SAW WELDING MACHINE CERTIFICATE 2



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1516	ULR:CC391126000001516F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : VOLTAGE/ CURRENT MEASUREMENT
(DIGITAL SAW WELDING MACHINE)

RANGE : 0-1000 A/1A
0-44V/0.1V.
MAKE : AOTAI
ACCURACY : ± 2% OF FSD
I.D.NO. : WM-02

Condition When Received : Satisfactory
Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.
Reference of Standard /Cal. Procedure No. : IS-13875-1993/WI-04-05/WI-04-01-0(Rev.0)
Place Of Calibration : At-Site
Discipline : Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT
AMMETER

Sr.No.	STANDARD CURRENT ADC	READING ON UUC) ADC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	000	00.0	0.00	1.3%
2.	101.34	100	-1.34	0.13	1.3%
3.	202.21	200	-2.21	0.22	1.3%
4.	302.29	300	-2.29	0.23	1.3%
5.	402.39	400	-2.39	0.24	1.3%
6.	503.26	500	-3.26	0.33	1.3%
7.	903.46	900	-3.46	0.35	1.3%

Voltmeter

Sr. No.	Standard Current Vdc	Reading On UUC Vdc	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0	0.0	0.00	0.12%
2.	10.11	10.00	-0.11	0.25	0.12%
3.	20.25	20.00	-0.25	0.57	0.12%
4.	30.29	30.00	-0.29	0.66	0.12%
5.	44.38	44.00	-0.38	0.86	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

Calibrated by:
N. P. Pate
(Tech. Asst.)

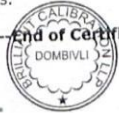
Authorized signatory:
V. N. Avhad
(L. I./T.M.)

- Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of an instrument.
5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

---End of Certificate---



PRODUCTIVE ENGINEERS (I) PVT LTD

SAW WELDING MACHINE CERTIFICATE 3



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1515	ULR:CC39112600001515F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : VOLTAGE/ CURRENT MEASUREMENT
(DIGITAL SAW WELDING MACHINE)

RANGE : 0-1000 A/1A
0-44V/0.1V

MAKE : AOTAI

ACCURACY : ± 2% OF FSD

I.D.NO. : WM-01

Condition When Received : Satisfactory

Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.

Reference of Standard /Cal. Procedure No. : IS-13875-1993/WI-04-05/WI-04-01-0(Rev.0)

Place Of Calibration : At-Site

Discipline : Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT
AMMETER

Sr.No.	STANDARD CURRENT ADC	READING ON UUC ADC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	000	00.0	0.00	1.3%
2.	101.27	100	-1.27	0.13	1.3%
3.	202.46	200	-2.46	0.25	1.3%
4.	302.19	300	-2.19	0.22	1.3%
5.	402.49	400	-2.49	0.25	1.3%
6.	503.57	500	-3.57	0.36	1.3%
7.	903.87	900	-3.87	0.39	1.3%

Sr. No.	Standard Current Vdc	Reading On UUC Vdc	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0	0.0	0.00	0.12%
2.	10.09	10.00	-0.09	0.20	0.12%
3.	20.16	20.00	-0.16	0.36	0.12%
4.	30.24	30.00	-0.24	0.55	0.12%
5.	44.36	44.00	-0.36	0.82	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

Calibrated by:
N. P. Pate
(Tech. Asst.)

Authorized signatory:
V. N. Avhad
(L. I./T.M.)
(L. I./T.M.)

- Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of an instrument.
5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

---End of Certificate---



Plot No. B-57, Phase-I, Mido Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.

PRODUCTIVE ENGINEERS (I) PVT LTD

CO2 WELDING MACHINE CAERTIFICATE 1



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1518	ULR:CC391126000001518F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : VOLTAGE/ CURRENT MEASUREMENT
(Co2 WELDING MACHINE)

RANGE : 0-500 A/1A
0-40V/0.1V

MAKE : WARPP

ACCURACY : ± 2% OF FSD

I.D.NO. : WM-4

Condition When Received : Satisfactory

Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.

Reference of Standard /Cal. Procedure No. : IS-13875-1993/WI-04-05/WI-04-01-0(R.V.0)

Place Of Calibration : At-Site

Discipline : Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT
AMMETER

Sr.No.	STANDARD CURRENT	READING ON ADC	UUC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	00.0		00.0	0.00	1.3%
2.	101.16	100.00		-1.16	0.23	1.3%
3.	202.29	200.00		-2.29	0.46	1.3%
4.	403.67	400.00		-3.67	0.73	1.3%
5.	504.74	500.00		-4.74	0.95	1.3%

Voltmeter

Sr. No.	Standard Current Vdc	Reading On Vdc	UUC	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0		0.00	0.00	0.12%
2.	10.11	10.00		-0.11	0.27	0.12%
3.	20.23	20.00		-0.23	0.58	0.12%
4.	30.32	30.00		-0.32	0.80	0.12%
5.	40.39	40.00		-0.39	0.98	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

Calibrated by:
N. P. Pate
(Tech. Asst.)

Authorized signatory:
V. N. Avhad
(L. I./T.M.)

- Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
2. This certificate shall not be reproduced except in full without permission of BCLLP.
3. This report refers only to particular item(s) submitted for calibration.
4. Readings given above are as on received condition of an instrument.
5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

--End of Certificate--



PRODUCTIVE ENGINEERS (I) PVT LTD

CO2 WELDING MACHINE CAERTIFICATE 2



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1519	ULR:CC39112600001519F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : **VOLTAGE/ CURRENT MEASUREMENT**
(Co2 WELDING MACHINE)

RANGE : 0-500 A/1A
0-39V/0.1V

MAKE : AOTAI

ACCURACY : ± 2% OF FSD

I.D.NO. : WM-05

Condition When Received : Satisfactory

Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.

Reference of Standard /Cal. Procedure No. : IS-13875-1993/WI-04-05/WI-04-01-0(Rcv.0)

Place Of Calibration : At-Site

Discipline : Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT
AMMETER

Sr.No.	STANDARD CURRENT ADC	READING ON UUC ADC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	00.0	00.0	0.00	1.3%
2.	101.11	100.00	-1.11	0.22	1.3%
3.	202.23	200.00	-2.23	0.45	1.3%
4.	403.47	400.00	-3.47	0.69	1.3%
5.	504.58	500.00	-4.58	0.92	1.3%

Voltmeter

Sr. No.	Standard Current Vdc	Reading On UUC Vdc	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0	0.0	0.00	0.12%
2.	10.13	10.0	-0.13	0.33	0.12%
3.	20.18	20.0	-0.18	0.46	0.12%
4.	30.24	30.0	-0.24	0.62	0.12%
5.	39.29	39.0	-0.29	0.74	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

Calibrated by:
N. P. Pate
(Tech. Asst.)

Authorized signatory:
V. N. Avhad
(L. I./T.M.)

- Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.
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4. Readings given above are as on received condition of an Instrument.
5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

--End of Certificate--



PRODUCTIVE ENGINEERS (I) PVT LTD

CO2 WELDING MACHINE CAERTIFICATE 3



brilliant calibration LLP

Certificate of Calibration



CC-3911

CERTIFICATE NO.:26/1520	ULR:CC39112600001520F	DATE OF ISSUE : 27.03.2026	
DATE OF CALIBRATION 25.03.2026	NEXT DUE DATE 24.03.2027 (Customer decided)	Page. No. 1	No. Of Pages 1

Customer : M/S. PRODUCTIVE ENGINEERS (I) PVT.LTD.
PLOT NO.B-31, ADDL.AMBERNATH, ANAND NAGAR,
AMBERNATH (E), OPP.OLD ASB INTERNATIONAL.

Challan No.& Date : LETTER dtd. 25.03.2026 Srf no. 26/03-147 dtd.25.03.2026

DESCRIPTION & IDENTIFICATION : **VOLTAGE/ CURRENT MEASUREMENT
(Co2 WELDING MACHINE)**

RANGE : 0-500 A/1A
0-40V/0.1V

MAKE : WARPP

ACCURACY : ± 2% OF FSD

I.D.NO. : WM-06

Condition When Received : Satisfactory
Environmental Conditions : Temperature : 25±4°C, Relative Humidity:30 To 75 % R.H.
Reference of Standard /Cal. Procedure No. : IS-13875-1993/WI-04-05/WI-04-01-0(Rev.0)
Place Of Calibration : At-Site
Discipline : Electro-Technical Calibration (DC)

Standard Equipment Used For Calibration:

SR. NO.	DESCRIPTION	MAKE	SR.NO. / I.D. NO.	CERT. NO.	DATE OF CAL.	DUE DATE	CAL. AGENCY
1.	5.5 Multifunction Calibrator With Current Coil	Zeal	201402601/BI/MFC/82 BI/CC/83	11/08(2025-2026)	03.11.2025 To 04.11.2025	02.11.2026	Zeal

All the measurements performed are traceable to National /Int. standards through NABL accredited cal.lab.

CALIBRATION RESULT

AMMETER

Sr.No.	STANDARD CURRENT ADC	READING ON UUC) ADC	ERROR ADC	ERROR %	Expanded Uncertainty
1.	00.00	00.0	00.0	0.00	1.3%
2.	101.16	100.00	-1.16	0.23	1.3%
3.	202.25	200.00	-2.25	0.45	1.3%
4.	403.57	400.00	-3.57	0.71	1.3%
5.	504.62	500.00	-4.62	0.92	1.3%

Voltmeter

Sr. No.	Standard Current Vdc	Reading On UUC Vdc	Error Vdc	Error %	Expanded Uncertainty
1.	00.00	00.0	0.00	0.00	0.12%
2.	10.16	10.00	-0.16	0.40	0.12%
3.	20.26	20.00	-0.26	0.65	0.12%
4.	30.33	30.00	-0.33	0.82	0.12%
5.	40.38	40.00	-0.38	0.95	0.12%

Uncertainty of measurement at 95.45%C.L.with coverage factor k=2

Calibrated by:

N. P. Pate
(Tech. Asst.)

Authorized signatory:

V. N. Avhad
(L. I./T.M.)

Note: 1. The calibration results reported in this report are valid at the time of & the stated condition of measurements.

2. This certificate shall not be reproduced except in full without permission of BCLLP.

3. This report refers only to particular item(s) submitted for calibration.

4. Readings given above are as on received condition of an instrument.

5. Measured output is average of 5 readings.



FR-01-05-0 dtd.14.08.2024

--End of Certificate--



Plot No. B-57, Phase-I, Midc Dombivli, Khambalpada-Thakurli Road, Behind Matoshri Hotel, Dombivli (East), Dist. Thane(M.S) 421201.
Mob. : 9987075513 / 7718022043 / 7506740104 / 7506740106 | E : brilliant_cal@yahoo.co.in | Web:www.brilliantcalibration.com

PRODUCTIVE ENGINEERS (I) PVT LTD

FOILS CERTIFICATE

SM

Final Plot No. 123, Lane No. 10, Ramtekdi Industrial Estate, Hadapsar,
Pune - 411 013. (INDIA) Tel. : +91 9890644445, 8237644445
E-mail : kiranzanwar@yahoo.com / smescalibration@gmail.com



CC-2460

CALIBRATION CERTIFICATE



CALIBRATION CERTIFICATE OF: FOILS	ISSUE DATE : 11-03-2026	CERTIFICATE NO. 2026/79130/002	PAGE 1 OF 1
DATE OF CALIBRATION: 11-03-2026	NEXT DATE OF CALIBRATION: 10-03-2027 (as per customer request)	ULR: CC246026600001375F	DISCIPLINE: MECHANICAL
CUSTOMER'S REF. : D.C.NO. : By Hand DATED: 11-03-2026	DATE OF RECEIPT : 11-03-2026 CONDITION OF ITEM : Satisfactory	GROUP: DIMENSION (BASIC MEASURING INSTRUMENT, GAUGES ETC.)	

Name of Customer & Address : M/s. TCR ENGINEERING SERVICES PVT. LTD.
VKB HOUSE, EL-182, MIDC-TTC ELECTRONIC ZONE, BEHIND NELCO,
MAHAPE, NAVI MUMBAI-400710., MUMBAI

Reference Document No. : by comparison method

Calibration Procedure No. : WI/M/08Rev no.1 dt 10/01/2025

Environmental Conditions : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

EQUIPMENT USED FOR CALIBRATION & ITS TRACEABILITY :
Used standards are traceable to National / International Standards (Direct / through NABL Accredited Lab)

Name of Equipment	Identification No. / Sr. No.	Calibration Certificate No	Traceability With	Calibration Date	Valid up to
Electronic Probe with DRO	R-30-2 / 37407936A	2025/77244/001	CC-2460	26-11-2025	25-11-2026

Uncertainty of Measurement : ± 2 μm

The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$ corresponds to confidence level of 95.45%.

FOILS: SIZE : 23,52,128,262,518 μm

Make : DEFELSKO	Customer ID No. : TCR/MET/EQP/16
Sr. No. : ----	LAB ID No. : 79130/002

CALIBRATION RESULTS

All values are in μm

Sr. No.	Etched Size in μm	Actual Thickness in μm
1	23	24.9
2	52	53.6
3	128	130.1
4	262	263.7
5	518	519.4

Remark : Above results are average of 3 reading

x-x-x-x-x- End of certificate -x-x-x-x-x-



Patil
Abhijeet Patil
Calibrated By

Snehal
Snehal Gadekar
Authorised Signatory