



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 1 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00151	ULR: CC364123000000151F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		

Name of Customer & Address : M/s. N.B. TECHNOLOGIES
56/10,D-2 Block,MIDC Chinchwad Behind Spaco Corburetor Pune-411019,
Through : M/s. A S CALIBRATION SERVICES

CUSTOMER'S REFERENCE : D.C.NO. : -- DATED : 24-07-2023

WORK ORDER NO. : 0020/003 DATE OF RECIEPT : 24-07-2023

ITEM FOR CALIBRATION : VERNIER CALIPER

CONDITION OF ITEM : Satisfactory

CALIBRATION METHOD : To check the linear error of Caliper on entire range & parallelism of external & internal measuring faces as per our Calibration Method No.SL/CM/01

REFERENCE DOCUMENT NO. : IS 16491 Part I

ENVIRONMENTAL CONDITIONS : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

STANDARDS / EQUIPMENT USED FOR CALIBRATION : (Traceable to National/International Standards.)

Name of Equipment	Identification No.	Calibration Certificate No	Calibrated By (NABL Accredited Lab.No.)	Calibration Date	Valid up to
Caliper Checker	MV/S/03	CGIL/2022/1101/G-001	CC-2656	03-11-2022	02-11-2024
Slip Gauge Set	MV/S/08	MVCL/2023/16/00194	CC-2540	16-01-2023	15-01-2025

Uncertainty of Measurement : ± 19 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.

Reviewed and ok
Mukher

CONTD. PAGE 2



CC-3614

Notes:

- This certificate refers to the particulars Item(s) submitted for calibration.
- This certificate shall not be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 2 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00151	ULR: CC364123000000151F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		
DESCRIPTION OF CALIBRATION ITEM:		
Range : 0 - 300 mm L.C. : 0.02 mm	Make : Precise	
Identification No. : NBT/VC/01	Sr. No. :	

CALIBRATION RESULTS

External Measurement		
Ref. Size	Observed Value	Error
0.00	0.00	0.00
8.10	8.10	0.00
26.30	26.30	0.00
51.50	51.50	0.00
81.70	81.70	0.00
111.90	111.90	0.00
150.00	150.00	0.00
200.00	200.00	0.00
300.00	300.00	0.00

Internal Measurement		
Ref. Size	Observed Value	Error
20.00	20.00	0.00
50.00	50.00	0.00
100.00	100.00	0.00
150.00	150.00	0.00
200.00	200.00	0.00
300.00	300.02	0.02
---	---	---
---	---	---
---	---	---

Depth Measurement		
Ref. Size	Observed Value	Error
20.00	20.00	0.00
50.00	50.00	0.00
100.00	100.00	0.00
---	---	---
---	---	---
---	---	---
---	---	---
---	---	---
---	---	---

PARALLELISM OF EXTERNAL MEASURING FACES : 0.006 mm
PARALLELISM OF INTERNAL MEASURING FACES : 0.007 mm

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

Calibrated By



Authorized Signatory
Mr. A. A. Jadhav

SL/CC/VC/01

Rev. No. : 00

- Notes :**
- This certificate refers to the particulars Item(s) submitted for calibration.
 - This certificate shall not to be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
 - The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.



CC-3614

SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 1 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00153	ULR: CC364123000000153F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		

Name of Customer & Address : M/s. N.B. TECHNOLOGIES
56/10,D-2 Block,MIDC Chinchwad Behind Spaco Corburetor Pune-411019,
Through : M/s. A S CALIBRATION SERVICES

CUSTOMER'S REFERENCE : D.C.NO. : -- DATED : 24-07-2023

WORK ORDER NO. : 0020/005 DATE OF RECIEPT : 24-07-2023

ITEM FOR CALIBRATION : **BORE GAUGE**

CONDITION OF ITEM : Satisfactory

CALIBRATION METHOD : To check error & repeatability of transmission of Bore Gauge as per our Calibration Method No.MVCL/CM/09

REFERENCE DOCUMENT NO. : ---

ENVIRONMENTAL CONDITIONS : Temperature : 20 °C (±1 °C) Humidity: 50 ± 10 % Rh

STANDARDS / EQUIPMENT USED FOR CALIBRATION : (Traceable to National/International Standards.)

Name of Equipment	Identification No.	Calibration Certificate No	Calibrated By (NABL Accredited Lab.No.)	Calibration Date	Valid up to
Electronic Dial Calibration Tester	MV/E/03	MVCL/2021/30/06 823	CC-2540	07-09-2021	06-09-2023
Plunger Type Dial Gauge	MV/E/06	MVCL/2021/07/06 346	CC-2540	19-08-2021	18-08-2023

Uncertainty of Measurement : ± 4.3 μm (For Transmission)

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.



CC-3614

CONTD. PAGE 2

Notes :

- This certificate refers to the particulars Item(s) submitted for calibration.



Scanned with OKEN Scanner



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018

☎ : 9370631501 / 9834618345

✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 2 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00153	ULR: CC36412300000153F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		
DESCRIPTION OF CALIBRATION ITEM:		
Range : 50 - 160 mm	Make : YAMAYO	
Identification No. : NBT/BG/01	Sr. No. :	

CALIBRATION RESULTS

All readings are in mm

A) MEASUREMENT OF ACCURACY IN FORWARD & BACKWARD DIRECTIONS :

DIAL READINGS	FORWARD DIRECTION	REVERSE DIRECTION
0	0.0000	0.0000
0.1	-0.0003	-0.0003
0.2	-0.0005	-0.0006
0.3	-0.0006	-0.0008
0.4	-0.0009	-0.0009
0.5	-0.0012	-0.0014
0.6	-0.0013	-0.0016
0.7	-0.0018	-0.0020
0.8	-0.0020	-0.0019
0.9	-0.0022	-0.0022
1	-0.0023	-0.0023

B) RETRACE ERROR : 0.3 μ m C) REPEATABILITY : 1.0 μ m

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

Calibrated By



CC-3614

Authorized Signatory
Mr. A. A. Jadhav

SL/CC/BG/01

Rev. No. : 00

Notes :

- This certificate refers to the particulars Item(s) submitted for calibration.
- This certificate shall not to be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.
- Please review this certificate before use of Instrument/Equipment.



Scanned with OKEN Scanner



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 1 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00150	ULR: CC364123000000150F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		

Name of Customer & Address : M/s. N.B. TECHNOLOGIES
56/10,D-2 Block,MIDC Chinchwad Behind Spaco Corburetor Pune-411019,
Through : M/s. A S CALIBRATION SERVICE!

CUSTOMER'S REFERENCE : D.C.NO. : -- DATED : 24-07-2023

WORK ORDER NO. : 0020/002 DATE OF RECIEPT : 24-07-2023

ITEM FOR CALIBRATION : **EXTERNAL MICROMETER**

CONDITION OF ITEM : Satisfactory

CALIBRATION METHOD : To check the Parallelism of measuring faces & Traverse of Micrometer & actual size of setting stick as per our Calibration Method No.MVCL/CM/04

REFERENCE DOCUMENT NO. : IS 2967 1983

ENVIRONMENTAL CONDITIONS : Temperature : 20 °C (±1 °C) Humidity : 50 ± 10 % Rh

STANDARDS / EQUIPMENT USED FOR CALIBRATION : (Traceable to National/International Standards.)

Name of Equipment	Identification No.	Calibration Certificate No	Calibrated By (NABL Accredited Lab.No.)	Calibration Date	Valid up to
Long Slip Gauge set	170012	SSG 3175	CC-2102	24-11-2021	23-11-2023
Comparator	MV/E/32 & 12	MVCL/2023/43/02 641	CC-2540	02-05-2023	01-05-2025
Slip Gauge Set	MV/S/08	MVCL/2023/16/00 194	CC-2540	16-01-2023	15-01-2025

Uncertainty of Measurement : ± 4 μm
± 2 μm (For Micrometer Setting Rod)

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.



CC-3614

CONTD. PAGE 2

Notes : 1) Particulars Item(s) submitted for calibration.



Scanned with OKEN Scanner



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 2 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00150	ULR: CC364123000000150F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		
DESCRIPTION OF CALIBRATION ITEM:		
Range : 100 - 125 mm L.C. : 0.01 mm	Make : Mitutoyo	
Identification No. : NBT/MM/01	Sr. No. :	

CALIBRATION RESULTS

A. INSTRUMENTAL ERROR

All readings are in mm

Sr. No.	Reference Size	Observed Reading	Observed Error
1	100.000	100.000	0.000
2	102.500	102.501	-0.001
3	105.100	105.102	-0.002
4	107.700	107.701	-0.001
5	110.300	110.302	-0.002
6	112.900	112.902	-0.002
7	115.000	115.002	-0.002
8	117.600	117.601	-0.001
9	120.200	120.201	-0.001
10	122.800	122.802	-0.002
11	125.000	125.002	-0.002

B. ACTUAL LENGTH OF MICROMETER SETTING STANDARD

Sr. No.	Nominal Length	Obs. Size	Parallelism
1	100.000	100.0020	0.0005

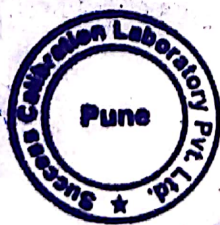
Parallelism of Measuring Faces: 0.002 mm

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

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

Calibrated By



CC-3614

Authorized Signatory
Mr. A. A. Jadhav

SL/CC/EM/01

Rev. No. : 00

Reviewed & OK
Mutan

Notes:

- This certificate refers to the particulars Item(s) submitted for calibration.
- This certificate shall not be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions.



SUCCESS

CALIBRATION LABORATORY PVT. LTD.

Office No. 6, 1st Floor, Sukhwani Fortunes,
Morwadi, Pimpri, Pune - 411 018
☎ : 9370631501 / 9834618345
✉ : sclabpune@gmail.com

CALIBRATION CERTIFICATE

PAGE NO. 1 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00152	ULR: CC364123000000152F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		

Name of Customer & Address : M/s. N.B. TECHNOLOGIES
56/10,D-2 Block,MIDC Chinchwad Behind Spaco Corburetor Pune-411019,
Through : M/s. A S CALIBRATION SERVICES

CUSTOMER'S REFERENCE : D.C.NO. : -- DATED : 24-07-2023

WORK ORDER NO. : 0020/004 DATE OF RECIEPT : 24-07-2023

ITEM FOR CALIBRATION : **DEPTH VERNIER CALIPER**

CONDITION OF ITEM : Satisfactory

CALIBRATION METHOD : To check the Parallelism of measuring faces & linear error of measurement as per our Calibration Method No.MVCL/CM/03

REFERENCE DOCUMENT NO. : IS 4213-1991

ENVIRONMENTAL CONDITIONS : Temperature : 20 °C (±1 °C) Humidity: 50 ± 10 % Rh

STANDARDS / EQUIPMENT USED FOR CALIBRATION : (Traceable to National/International Standards.)

Name of Equipment	Identification No.	Calibration Certificate No	Calibrated By (NABL Accredited Lab.No.)	Calibration Date	Valid up to
Granite Surface plate	MV/E/04	MVCL/2022/22/04 386	CC-2540	18-06-2022	17-06-2024
Caliper Checker	MV/S/03	CGIL/2022/1101/ G-001	CC-2656	03-11-2022	02-11-2024
Length Bar	MV/S/04,05,06	LB 3433	CC-2102	08-08-2022	08-08-2024
Slip Gauge Set	MV/S/08	MVCL/2023/16/00 194	CC-2540	16-01-2023	15-01-2025

Uncertainty of Measurement : ± 18 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.



CC-3614

CONTD. PAGE 2

Notes :

- This certificate refers to the particulars Item(s) submitted for calibration.
- This certificate shall not to be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.
- Please review this certificate before use of Instrument/Equipment.





CALIBRATION CERTIFICATE

PAGE NO. 2 OF 2

CALIBRATION CERTIFICATE NO.	SL/2023/00152	ULR: CC364123000000152F
DATE OF ISSUING OF CERTIFICATE 24-07-2023	DATE OF CALIBRATION 24-07-2023	NEXT CALIBRATION DUE ON 23-07-2024 (as per customer request)
DISCIPLINE: MECHANICAL GROUP: DIMENSION (BASIC-MEASURING INSTRUMENT, GAUGES ETC.)		
DESCRIPTION OF CALIBRATION ITEM:		
Range : 0 - 200 mm L.C. : 0.02 mm	Make : Yamayo	
Identification No. : NBT/DV/01	Sr. No. :	

CALIBRATION RESULTS

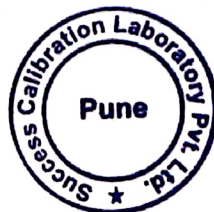
(All readings are in mm)


Measured Length(mm)	Observed Length(mm)	Error(mm)
0.00	0.00	0.00
8.10	8.10	0.00
26.30	26.30	0.00
51.50	51.50	0.00
81.70	81.70	0.00
111.90	111.90	0.00
150.00	150.00	0.00
200.00	200.00	0.00

PARALLELISM OF MEASURING FACES: 0.003 mm

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


Calibrated By



Reviewed & OK
Mutar

Authorized Signatory
Mr. A. A. Jadhav

SL/CC/DV/01

Rev. No. : 00

Notes :

- This certificate refers to the particulars Item(s) submitted for calibration.
- This certificate shall not to be reproduced, except in full, unless written permission for a publication of an approved abstract has been obtained from the Quality Manager Lab. Success Calibration Laboratory Pvt Ltd, Pimpri, Pune.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.
- Please review this certificate before use of Instrument/Equipment.



CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.

Phone: +91 20 46301700 Mob.+91 9960162504

Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

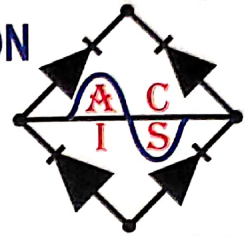
ULR Number	: CC300923000002580F	Page No.	: 1 of 1					
Certificate No.	: ACIS/2023/07/24/005	Next Calibration Due On	: 23-Jul-2024					
Date of Calibration	: 24-Jul-2023	Service Request No.	: 2023-07-24-A					
1. CUSTOMER DETAILS		Date of Receipt	: 24-Jul-2023					
N. B. Technologies		Date of Certificate Issue	: 26-Jul-2023					
56/10, D-2 Block, MIDC Chinchwad,		Customer's Order or	: --					
Behind Spaco Corburetor, Pune - 411019.		Challan Number & Date	: --					
		ACIS ID Number	: --					
2. ENVIRONMENTAL CONDITIONS		3. CALIBRATION METHOD						
Mean Ambient Temp.	: 27.4 °C	Work Instruction No.	: ACIS-WI-M-01					
Mean Relative Humidity	: 55 %Rh	Reference Standard	: DKD R-6-1 : 03/2014.					
Location of calibration	: On Site	Discipline / Parameter	: Mechanical / Pressure					
4. DESCRIPTION OF UUC								
Name	: Pressure Gauge	Range	: 0 to 100 kg/cm ²					
ID. No.	: NBT/PG/01	Resolution	: 5 kg/cm ²					
Make	: Wika	Working Range	: --					
Model	: --	Specified Accuracy	: ± 2 % FS					
Type	: Analog	Sr. No.	: --					
Condition of Item	: Ok	Location / Department	: --					
5. DETAILS OF STANDARD USED FOR CALIBRATION								
Name	: Digital Pressure Gauge							
Make/I.D No.	: V.E. / ACIS-EQP-013							
Certificate No.	: VIS/22-23/T-969							
Certified By	: V.I.S. Vadodara. CC-2695.							
Calibration Validity	: 18-Oct-2023.							
Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.								
6. CALIBRATION RESULTS								
Set Value On UUC P (ind)	Measured Value on Standard			Mean Value Miw $\frac{((M1+M3)/2+M2)}{2}$	Deviation Dp = P(ind)- Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
20	19.49	19.42	19.46	19.45	0.55	-0.03	-0.07	2.61
40	39.53	39.55	39.56	39.55	0.45	0.03	0.02	2.61
60	59.34	59.33	59.36	59.34	0.66	0.02	-0.01	2.61
100	99.85	99.83	99.89	99.85	0.15	0.04	-0.02	2.61
Remark :								
Note: The value Measure above is mean of 5 readings.								
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95 % for normal distribution.								
Note : This certificate is issued subject to conditions stated overleaf.								
:- End of Certificate :-								
Calibrated By	Reviewed for					Approved By		
						Mr. Sainath Rawte Technical Manager		
Mr. Ashish Muley Calibration Engineer								

ACIS/F-55/0



ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CC-3009

CALIBRATION CERTIFICATE

ULR Number : CC300923000002581F	Page No. : 1 of 1
Certificate No. : ACIS/2023/07/24/006	Next Calibration Due On : 23-Jul-2024
Date of Calibration : 24-Jul-2023	Service Request No. : 2023-07-24-A
1. CUSTOMER DETAILS :	Date of Receipt : 24-Jul-2023
N. B. Technologies	Date of Certificate Issue : 26-Jul-2023
56/10, D-2 Block, MIDC Chinchwad,	Customer's Order or
Behind Spaco Corburetor, Pune - 411019.	Challan Number & Date : --
	ACIS ID Number : --

2. ENVIRONMENTAL CONDITIONS	3. CALIBRATION METHOD
Mean Ambient Temp. : 27.7 °C	Work Instruction No. : ACIS-WI-M-01
Mean Relative Humidity : 50 %Rh	Reference Standard : DKD R-6-1 : 03/2014.
Location of calibration : On Site	Discipline / Parameter : Mechanical / Pressure

4. DESCRIPTION OF UUC	
Name : Pressure Gauge	Range : 0 to 40 kg/cm ²
ID. No. : NBT/PG/02	Resolution : 2 kg/cm ²
Make : Wika	Working Range : --
Model : --	Specified Accuracy : ± 2 % FS
Type : Analog	Sr. No. : --
Condition of Item : Ok	Location / Department : --

5. DETAILS OF STANDARD USED FOR CALIBRATION
Name : Digital Pressure Gauge
Make/I.D No. : V.E. / ACIS-EQP-012
Certificate No. : VIS/22-23/T-968
Certified By : V.I.S. Vadodara. CC-2695.
Calibration Validity : 18-Oct-2023.
Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS								
Set Value On UUC P (ind)	Measured Value on Standard			Mean Value Miw $\frac{((M1+M3)/2+M2)}{2}$	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
10	10.25	10.27	10.28	10.27	-0.27	0.03	0.02	1.02
20	20.36	20.38	20.41	20.38	-0.38	0.05	0.02	1.02
30	30.42	30.43	30.46	30.44	-0.44	0.04	0.01	1.02
40	40.53	40.52	40.55	40.53	-0.53	0.02	-0.01	1.02

Remark :
Note: The value Measure above is mean of 5 readings.
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95 % for normal distribution.
Note : This certificate is issued subject to conditions stated overleaf.

:- End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer

Reviewed & ok
Mutan



Approved By

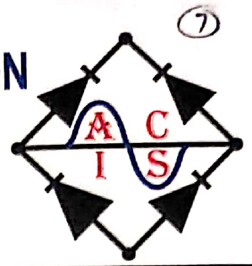
Mr. Sainath Rawte
Technical Manager

ACIS/F-55/0



ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number : CC300923000002582F	Page No. : 1 of 1
Certificate No. : ACIS/2023/07/24/007	Next Calibration Due On : 23-Jul-2024
Date of Calibration : 24-Jul-2023	Service Request No. : 2023-07-24-A
1. CUSTOMER DETAILS :	Date of Receipt : 24-Jul-2023
N. B. Technologies	Date of Certificate Issue : 26-Jul-2023
56/10, D-2 Block, MIDC Chinchwad,	Customer's Order or
Behind Spaco Corburetor, Pune - 411019.	Challan Number & Date
	ACIS ID Number

2. ENVIRONMENTAL CONDITIONS	3. CALIBRATION METHOD
Mean Ambient Temp. : 27.9 °C	Work Instruction No. : ACIS-WI-M-01
Mean Relative Humidity : 53 %Rh	Reference Standard : DKD R-6-1 : 03/2014.
Location of calibration : On Site	Discipline / Parameter : Mechanical / Pressure

4. DESCRIPTION OF UUC	
Name : Pressure Gauge	Range : 0 to 210 kg/cm ²
ID. No. : NBT/PG/03	Resolution : 10 kg/cm ²
Make : Wika	Working Range : --
Model : --	Specified Accuracy : ± 2 % FS
Type : Analog	Sr. No. : --
Condition of Item : Ok	Location / Department : --

5. DETAILS OF STANDARD USED FOR CALIBRATION
Name : Digital Pressure Gauge
Make/I.D No. : V.E. / ACIS-EQP-013
Certificate No. : VIS/22-23/T-969
Certified By : V.I.S. Vadodara. CC-2695.
Calibration Validity : 18-Oct-2023.
Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS								
Set Value On UUC P (ind)	Measured Value on Standard			Mean Value Miw ((M1+M3)/2+M2)/2	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--
50	50.52	50.53	50.55	50.53	-0.53	0.03	0.01	5.11
100	100.64	100.66	100.67	100.66	-0.66	0.03	0.02	5.11
200	200.73	200.75	200.76	200.75	-0.75	0.03	0.02	5.11
210	210.81	210.80	210.82	210.81	-0.81	0.01	-0.01	5.11

Remark :
Note: The value Measure above is mean of 5 readings.
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95 % for normal distribution.
Note : This certificate is issued subject to conditions stated overleaf.

-: End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer

Reviewed & ok
Adnan



Approved By

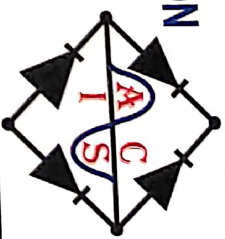
Mr. Sainath Rawte
Technical Manager



CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034, Maharashtra, India.
Phone: +91 20 46301700 Mob. +91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number : CC300923000002583F Page No. : 1 of 1
 Certificate No. : ACIS/2023/07/24/008 Next Calibration Due On : 23-Jul-2024
 Date of Calibration : 24-Jul-2023 Service Request No. : 2023-07-24-A
 Date of Receipt : 24-Jul-2023
 Date of Certificate Issue : 26-Jul-2023
 Customer's Order or Challan Number & Date : --
 ACIS ID Number : --

2. ENVIRONMENTAL CONDITIONS
 Mean Ambient Temp. : 27.5 °C Work Instruction No. : ACIS-WI-M-01
 Mean Relative Humidity : 51 %Rh Reference Standard : DKD R-6-1 : 03/2014.
 Location of calibration : On Site Discipline / Parameter : Mechanical / Pressure

4. DESCRIPTION OF UUC
 Name : Pressure Gauge Range : 0 to 210 kg/cm²
 ID. No. : NBT/PG/04 Resolution : 5 kg/cm²
 Make : Wika Working Range : ± 2 % FS
 Model : -- Specified Accuracy : --
 Type : Analog Sr. No. : --
 Condition of Item : Ok Location / Department : --

5. DETAILS OF STANDARD USED FOR CALIBRATION
 Name : Digital Pressure Gauge
 Make/I.D No. : V.E. / ACIS-EQP-013
 Certificate No. : V/S/22-23/T-969
 Certified By : V.I.S. Vadodara. CC-2695.
 Calibration Validity : 18-Oct-2023.
 Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS								
Set Value On UUC P (ind)	Measured Value on Standard			Mean Value M _w = (M1+M3)/2+M2 /2	Deviation D _p = P(ind)-M _w	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
50	50.44	50.46	50.48	50.46	-0.46	0.04	0.02	2.60
100	100.52	100.54	100.55	100.54	-0.54	0.03	0.02	2.60
200	150.63	150.62	150.62	150.62	49.38	-0.01	-0.01	2.60
210	210.74	210.73	210.76	210.74	-0.74	0.02	-0.01	2.60

Remark :
 Note: The value Measure above is mean of 5 readings.
 The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95 % for normal distribution.
 Note: This certificate is issued subject to conditions stated overleaf.
 :: End of Certificate ::

Calibrated By :
 Mr. Ashish Muley
 Calibration Engineer
 Approved By :
 Mr. Sainath Rawte
 Technical Manager
 ACIS/F-55/0





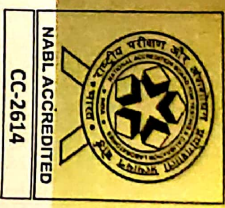
AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



CALIBRATION LAB

NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017



NABL ACCREDITED
CC-2614

CALIBRATION CERTIFICATE

1. CUSTOMER
:-
NBT INNOVATIVE INDIA PVT LTD,
Plot No.67/112, D3 Block, MIDC, Chinchwad,
Pune-41 1019 (Through- Autotech)
Ambient Temp. :- (23 ± 1.5)°C
RH :- 40 to 60 %RH
Location of calibration :- IN LAB
Condition of Item :- OK

Page No. :- 1 of 1
Date of Issue :- 5-Oct-23
Date of Receipt :- 4-Oct-23
Service Request No. :- ACS/CAL/23-24/1145
Certificate No. :- ACS/1145/CM 23/230006
Date of Calibration :- 4-Oct-23
Next Calibration Due On :- 3-Oct-24
Calibration method No. :- ACS/CM 23
ULR No :- CC261423000018398F
Discipline :- Mechanical Calibration
Parameter :- Pressure (By Comparison Method)

2. Description of Item

Name	Pressure Gauge	Range	0 to 400	kg/cm ²
ID. No.	:- NBT/PG/08	Resolution	:- 20	kg/cm ²
Make	:- Wika	Specified Accuracy	:- N.A.	
Type	:- Analog	Location	:- --	
Lot No.	:- --			

3. Detail of Equipment used for calibration

Name/Range :- Dig. Pressure Gauge
Make/I. D No. :- Keller/ACS-EQP-03
Certificate No. :- CC/PR/0225/22-23
Certified By :- IDEMI
Calibration Validity :- 31-Oct-23

4. I.S Standard :- DKD R6-1

5. Calibration Results

Cal Point on UUC P(act)	Reading on Master Equipment			Mean Value Miw ((M1+M3)/2+ M2)/2	Deviation (Miw-P(act))	Repeatability (M3-M1)	Hysteresis (M2-M1)	Expanded Uncertainty ±
	M1	M2	M3					
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.55
50	50.2	50.0	50.2	50.1	0.1	0.0	0.2	11.56
100	100.2	100.2	100.4	100.3	0.3	0.2	0.0	11.56
150	150.4	150.4	150.6	150.5	0.4	0.2	0.0	11.56
200	200.6	200.6	200.8	200.7	0.7	0.2	0.0	11.56
250	250.8	250.8	251.0	250.9	0.8	0.2	0.0	11.56
300	301.2	301.2	301.2	301.2	1.2	0.0	0.0	11.55
350	351.4	351.6	351.4	351.5	1.5	0.0	0.2	11.56
400	401.6	401.8	401.6	401.7	1.7	0.0	0.2	11.56

The reported uncertainty is the expanded uncertainty. In measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95% for normal distribution

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 "Autocal Systems Pune".
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 5) Calibration point were selected as per customer specifications.
- 6) No decision rule applicable.

Calibrated By: *Ganesh*
Calibrator Engineer
(Mr. Ganesh Varangane)



End of Certificate

Approved By: *Sandip Bagade*
Technical Manager
(Mr. Sandip Bagade)

Reviewed by
of

Format No. : ACS-RFT-29

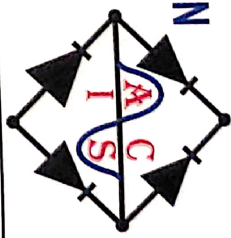
Revision No. : 00

Issue Date 15.06.2019



ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034, Maharashtra, India.
Phone: +91 20 46301700 Mob. +91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number	: CC300923000002584F	Page No.	: 1 of 2
Certificate No.	: ACIS/2023/07/24/009	Next Calibration Due On	: 23-Jul-2024
Date of Calibration	: 24-Jul-2023	Service Request No.	: 2023-07-24-A
1. CUSTOMER DETAILS		Date of Receipt	: 24-Jul-2023
N. B. Technologies		Date of Certificate Issue	: 26-Jul-2023
56/10, D-2 Block, MIDC Chinchwad,		Customer's Order or	: -
Behind Spaco Corpuretor, Pune - 411019.		Challan Number & Date	: -
		ACIS ID Number	: -

2. ENVIRONMENTAL CONDITIONS		3. CALIBRATION METHOD	
Mean Ambient Temp.	: 26.5 °C	Work Instruction No.	: ACIS-WI-M-01 & 02
Mean Relative Humidity	: 53 %Rh	Reference Standard	: DKD R-6-1 : 03/2014.
Location of calibration	: On Site	Discipline / Parameter	: Mechanical / Pressure

4. DESCRIPTION OF UUC		Range	: -1 to 1.5 kg/cm ²
Name	: Compound Gauge	Resolution	: 0.05 kg/cm ²
ID. No.	: NBT/PG/05	Working Range	: -
Make	: Wilka	Specified Accuracy	: ± 1 % FS
Model	: ---	Sr. No.	: -
Type	: Analog	Location / Department	: -
Condition of Item	: OK		

5. DETAILS OF STANDARD USED FOR CALIBRATION		Digital Pressure Gauge
Name	: Digital Vacuum Gauge	V.E. / ACIS-EQP-011
Make/ID No.	: Politech / ACIS-EQP-010	VIS/22-23/T-967
Certificate No.	: VIS/22-23/O-966	V.I.S. Vadodara. CC-2695.
Certified By	: V.I.S. Vadodara. CC-2695.	18-Oct-2023.
Calibration Validity	: 18-Oct-2023.	

Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS								
Vacuum								
Set Value	Measured Value on Standard			Mean Value	Deviation	Repeatability 'b'	Hysteresis	Expanded
On UUC	M1	M2	M3	$M_{iw} = \frac{(M1+M2+M3)}{3}$	$Dp = P(i)nd - M_{iw}$	$b = (M3-M1)$	$h = (M2-M1)$	Uncertainty (±)
P (ind)	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
-0.5	-0.5042	-0.5044	-0.5046	-0.5044	0.0044	-0.0004	-0.0002	0.053
-0.8	-0.5053	-0.5052	-0.5051	-0.5052	-0.2948	0.0002	0.0001	0.053

7. CALIBRATION RESULTS								
Pressure								
Set Value	Measured Value on Standard			Mean Value	Deviation	Repeatability 'b'	Hysteresis	Expanded
On UUC	M1	M2	M3	$M_{iw} = \frac{(M1+M2+M3)}{3}$	$Dp = P(i)nd - M_{iw}$	$b = (M3-M1)$	$h = (M2-M1)$	Uncertainty (±)
P (ind)	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-
0.2	0.2065	0.2067	0.2069	0.2067	-0.0067	0.0004	0.0002	0.07
0.4	0.4075	0.4076	0.4078	0.4076	-0.0076	0.0003	0.0001	0.07
0.6	0.6082	0.6084	0.6086	0.6084	-0.0084	0.0004	0.0002	0.07
1.5	1.5092	1.5091	1.5093	1.5092	-0.0092	0.0001	-0.0001	0.07





CC-3009

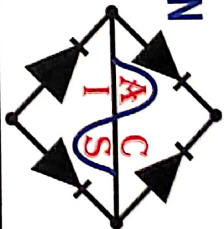
ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,

Kasarwadi, Pune-411034, Maharashtra, India.

Phone: +91 20 46301700 Mob. +91 9960162504

Email: service.acis@gmail.com Website: www.accutechlab.com



Certificate No.

: ACIS/2023/07/24/009

Page No.

: 2 of 2

Remark :

The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95 % for normal distribution.

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

:- End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer



Approved By

Mr. Sajnath Rawte
Technical Manager

ACIS/F-55/0

Reviewed & OK
Nutani



S A ELECTRONIC

PRIVATE LIMITED

Plot no. T-165/3/11, Priyadarshani Mahila
Swayamrojgar Indl. prem. co-op. soc. Ltd,
M.I.D.C Bhosari, Pune-411026
Tel : +91-20-27111581/2/3
Mail : sales@saelectro.com
Visit at :www.saelectro.com

CERT. NO.: SA/005/24-25

CALIBRATION CERTIFICATE

NAME OF THE CUSTOMER : M/S. NBT INNOVATIVE INDIA PVT.LTD
EQUIPMENT PARTICULARS : PRESSURE TRANSMITTER
RANGE : 0 - 400 BAR
MAKE : WIKA
MODEL NO : S-10
ACCURACY : +/- 0.25% BFSL
DATE OF CALIBRATION : 26/04/2024 DUE ON: 25/04/2025
STANDARDS USED FOR CALIBRATION:

INSTRUMENTS SERIAL NO. / MODEL NO.	CERTIFICATE NO.	TRACEABILITY TO	VALIDITY
11012C2G/S-10/0 TO 600 BAR	WP23/900 DT.14/07/2023	WIKI INST. INDIA PVT. LTD, PUNE	13/07/2024
C1504201 / PC-UC-45B	ARAI/CAL/2307/1253	ARAI, PUNE	13/07/2024

AMBIANT TEMP. : 26 °C

HUMIDITY: 65%

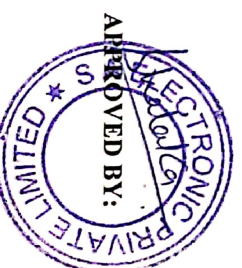
OBSERVATIONS :

Sr. No	Range	Standard Input in mA	Observed output in mA)	
	0 TO 400 BAR	0.00 (4.00)	100.0 (8.00)	200.0 (12.00)
	1101LV9M	4.00	8.00	12.03
	110MCFV	4.00	7.98	12.00
				15.96
				16.04
				20.00

Remark: 1) All measurement standards used for Calibration are Traceable to National Standards.
2) The Instrument is calibrated and the error is under acceptable limit.

CALIBRATED BY: *[Signature]*
PO.NO.: NBT/PC/124/PI-2323 ; DT: 26/04/2024

APPROVED BY:





AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023			ULR :CC261423000018396F		
Certificate No	Date of Receipt	Date of Calibration	Next Date of Calibration	Page	No. of Pages
ACS/1145/CM 04/230004	04-10-2023	04-10-2023	03-10-2024	1	2

Name of Customer & Address : NBT INNOVATIVE INDIA PVT LTD.
 Plot No.67/12,D3 Block,MIDC,Chinchwad,
 Pune-411019 (Through- Autotech)

Purchase Order No.	Date	Challan No.	Date	Work Order No	Condition of Item
Nil	Nil	AS/DC/23-24/39	04-10-2023	ACS/CAL/23-24/1145	OK

Gauge For Calibration : Vernier Caliper
 Make : Yamayo
 Range : 0 to 300 mm
 L.C. : 0.01 mm
 Identification No. : --
 Sr.No. : 03425
 Lab ID No. : ACS/CAL/23-24/1145/004
 Calibration Procedure No. : CM 01
 Reference Document No. : Comparison Method Based on IS 3651 (Part I - 1982 & Part II - 1985)
 Calibration Procedure : To obtain Instrumental Error of measurement at number of points in total Range by comparison of Indicated Value with Reference Step Gauge .

Equipment & Master Used for Calibration : Used Standards are traceable to National / International Standards (Direct / through NABL Accredited Lab.)

Equipment & Master Used for Calibration	Identification No.	Sr.No.	Calibration Certificate No	Calibration Date	Valid up to	Traceability With
Caliper Checker	ACS-R 01-01	2517	OM/49/220013	07.09.2022	07.09.2024	NABL Lab No CC 2751
Grade 0 Gauge Blocks M 46	ACS-R 03-01	3410	2022/06/3989	30.06.2022	30.06.2024	NABL Lab No CC 2875

Environmental Condition : 20 ± 1 °C.
 50 ± 20 %RH.

Uncertainty of Measurement : ± 16.0 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%.

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



Reviewed & OK
Natar



AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal,
Mass, Volume, Weights, Mapping, Acoustics & All Types of
Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023			ULR : CC261423000018396F	
Certificate No	Date of Calibration	Lab ID No	Page	No. of Pages
ACS/1145/CM 04/230004	04-10-2023	ACS/CAL/23-24/1145/004	2	2

Vernier Caliper

Make Yamayo Identification No. -- Sr. No. 03425
 Range 0 to 300 mm L.C. 0.01 mm

Mechanical Calibration : Dimension (Measuring Instruments)

Calibration Results

External Measurement			Internal Measurement			Depth Measurement		
Measured Length	Observed Length	Error	Measured Length	Observed Length	Error	Measured Depth	Observed Depth	Error
0.00	0.00	0.00	20.00	20.00	0.00	20.00	20.00	0.00
20.00	20.00	0.00	50.00	50.00	0.00	50.00	50.00	0.00
20.01	20.01	0.00	100.00	100.00	0.00	100.00	100.00	0.00
20.50	20.50	0.00	150.00	150.00	0.00	---	---	---
21.00	21.00	0.00	200.00	200.00	0.00	---	---	---
50.00	50.00	0.00	250.00	250.01	0.01	---	---	---
100.00	100.01	0.01	300.00	300.01	0.01	---	---	---
200.00	200.01	0.01	---	---	---	---	---	---
300.00	300.02	0.02	---	---	---	---	---	---

Parallelism of External Measuring Faces :- 0.002 mm

Parallelism of Internal Measuring Faces :- 0.001 mm

Remark : Decision rule not applicable.

End of Certificate



Calibrated By
Ganesh
 Calibration Engineer
 (Mr. Ganesh Varangane)

Approved By
Sandip Bagade
 Technical Manager
 (Mr. Sandip Bagade)

Format No: ACS/RFT/29

Revision No:00

Issue Date : 15.06.2019

83/526, Near D. Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.

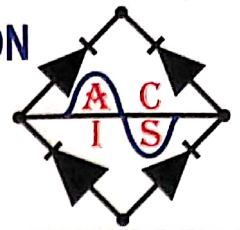
☎ 09763305799 📠 09881856653 / Office : 09763305299 📧 autocalsystemsflow@amail.com



CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number : CC300923000002576F	Page No. : 1 of 2							
Certificate No. : ACIS/2023/07/24/001	Next Calibration Due On : 23-Jul-2024							
Date of Calibration : 24-Jul-2023	Service Request No. : 2023-07-24-A							
1. CUSTOMER DETAILS : N. B. Technologies 56/10, D-2 Block, MIDC Chinchwad, Behind Spaco Corburetor, Pune - 411019.	Date of Receipt : 24-Jul-2023 Date of Certificate Issue : 26-Jul-2023 Customer's Order or Challan Number & Date : -- ACIS ID Number : --							
2. ENVIRONMENTAL CONDITIONS Mean Ambient Temp. : 25.7 °C Mean Relative Humidity : 55 %Rh Location of calibration : On Site	3. CALIBRATION METHOD Work Instruction No. : ACIS-WI-M-03 Reference Standard : DKD R-6-1 : 03/2014. Discipline / Parameter : Mechanical / Pressure							
4. DESCRIPTION OF UUC Name : Pressure Transmitter ID. No. : NBT/PT/01 Make : Wika Model : -- Out Put : 4 to 20 mA DC Condition of Item : Ok	Range : 0 to 400 bar Resolution : -- Working Range : -- Specified Accuracy : ± 0.25 % FS Sr. No. : -- Location / Department : --							
5. DETAILS OF STANDARD USED FOR CALIBRATION Name : Digital Pressure Gauge Make/I.D No. : V.E. / ACIS-EQP-013 Certificate No. : VIS/22-23/T-969 Certified By : V.I.S. Vadodara. CC-2695. Calibration Validity : 18-Oct-2023. Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.								
6. CALIBRATION RESULTS Actual Output of UUC								
Set Value On Std. P (ind)	Reading Of UUC Out Put							
	M1	M2	M3					
bar	mA	mA	mA					
0	4.009	4.008	4.009					
100	7.996	7.995	7.994					
200	11.991	11.995	11.994					
300	15.996	15.997	15.995					
400	19.993	19.991	19.992					
7. CALIBRATION RESULTS Calculated Output of UUC								
Set Value On Std. P (ind)	Measured Value on UUC			Mean Value $\frac{M1+M3}{2}$ ((M1+M3)/2+M2)/2	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
bar	bar	bar	bar	bar	bar	bar	bar	bar
0	0.23	0.20	0.23	0.21	0.21	0.00	-0.03	0.15
100	99.90	99.88	99.85	99.88	-0.13	-0.05	-0.03	0.15
200	199.78	199.88	199.85	199.84	0.16	0.08	0.10	0.15
300	299.90	299.93	299.88	299.89	-0.03	-0.03	0.02	0.15
400	399.83	399.78	399.80	399.80	-0.02	-0.02	-0.05	0.15





CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



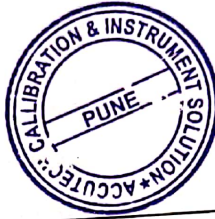
Certificate No. : ACIS/2023/07/24/001 Page No. : 2 of 2

Remark :
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95 % for normal distribution.

Note : This certificate is issued subject to conditions stated overleaf.
-: End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer



Approved By

Mr. Sainath Rawte
Technical Manager

ACIS/F-55/0

*Reviewed and ok
Mutan*

Set





ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number	: CC300923000002577F	Page No.	: 1 of 2
Certificate No.	: ACIS/2023/07/24/002	Next Calibration Due On	: 23-Jul-2024
Date of Calibration	: 24-Jul-2023	Service Request No.	: 2023-07-24-A
1. CUSTOMER DETAILS		Date of Receipt	: 24-Jul-2023
N. B. Technologies		Date of Certificate Issue	: 26-Jul-2023
56/10, D-2 Block, MIDC Chinchwad,		Customer's Order or	: --
Behind Spaco Corburetor, Pune - 411019.		Challan Number & Date	: --
		ACIS ID Number	: --

2. ENVIRONMENTAL CONDITIONS		3. CALIBRATION METHOD	
Mean Ambient Temp.	: 25.1 °C	Work Instruction No.	: ACIS-WI-M-03
Mean Relative Humidity	: 53 %Rh	Reference Standard	: DKD R-6-1 : 03/2014.
Location of calibration	: On Site	Discipline / Parameter	: Mechanical / Pressure

4. DESCRIPTION OF UUC			
Name	: Pressure Transmitter	Range	: 0 to 400 bar
ID. No.	: NBT/PT/02	Resolution	: --
Make	: Wika	Working Range	: --
Model	: --	Specified Accuracy	: ± 0.25 % FS
Out Put	: 4 to 20 mA DC	Sr. No.	: --
Condition of Item	: Ok	Location / Department	: ---

5. DETAILS OF STANDARD USED FOR CALIBRATION			
Name	: Digital Pressure Gauge	6 ½ Digit Precision Multimeter	
Make/I.D No.	: V.E. / ACIS-EQP-013	Tektronix / ACIS-EQP-003	
Certificate No.	: VIS/22-23/T-969	CC/ECL/0998/22-23	
Certified By	: V.I.S. Vadodara. CC-2695.	I.D.E.M.I. Mumbai. CC-2287	
Calibration Validity	: 18-Oct-2023.	06-Oct-2023.	
Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.			

6. CALIBRATION RESULTS		Actual Output of UUC		
Set Value On Std. P (ind)	Reading Of UUC Out Put			
	M1	M2	M3	
bar	mA	mA	mA	
0	4.006	4.004	4.005	
100	7.992	7.993	7.991	
200	11.993	11.994	11.995	
300	16.007	16.006	16.005	
400	19.993	19.991	19.992	

7. CALIBRATION RESULTS		Calculated Output of UUC						
Set Value On Std. P (ind)	Measured Value on UUC			Mean Value Miw ((M1+M3)/2+M2)/2	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
bar	bar	bar	bar	bar	bar	bar	bar	bar
0	0.15	0.10	0.13	0.12	0.12	-0.03	-0.05	0.16
100	99.80	99.83	99.78	99.81	-0.19	-0.03	0.03	0.16
200	199.83	199.85	199.80	199.83	-0.15	0.05	0.03	0.16
300	300.18	300.15	300.15	300.16	0.15	-0.05	-0.03	0.16
400	399.83	399.78	399.80	399.80	-0.21	-0.02	-0.05	0.16





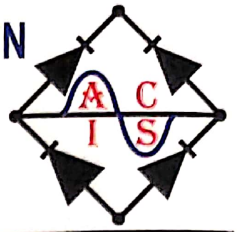
CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.

Phone: +91 20 46301700 Mob.+91 9960162504

Email: service.acis@gmail.com Website: www.accutechlab.com



Certificate No. : ACIS/2023/07/24/002 Page No. : 2 of 2

Remark :

The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95 % for normal distribution.

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

∴ End of Certificate ∴

Calibrated By

Mr. Ashish Muley
Calibration Engineer



Approved By

Mr. Sainath Rawte
Technical Manager

ACIS/F-55/0

Reviewed SOK
Muley



CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number : CC300923000002578F	Page No. : 1 of 2
Certificate No. : ACIS/2023/07/24/003	Next Calibration Due On : 23-Jul-2024
Date of Calibration : 24-Jul-2023	
1. CUSTOMER DETAILS :	
N. B. Technologies	Service Request No. : 2023-07-24-A
56/10, D-2 Block, MIDC Chinchwad,	Date of Receipt : 24-Jul-2023
Behind Spaco Corburetor, Pune - 411019.	Date of Certificate Issue : 26-Jul-2023
	Customer's Order or : --
	Challan Number & Date : --
	ACIS ID Number : --

2. ENVIRONMENTAL CONDITIONS		3. CALIBRATION METHOD	
Mean Ambient Temp. : 25.5 °C		Work Instruction No. : ACIS-WI-M-03	
Mean Relative Humidity : 51 %Rh		Reference Standard : DKD R-6-1 : 03/2014.	
Location of calibration : On Site		Discipline / Parameter : Mechanical / Pressure	

4. DESCRIPTION OF UUC			
Name : Pressure Transmitter	Range : -1 to 5 bar		
ID. No. : NBT/PT/03	Resolution : --		
Make : Wika	Working Range : --		
Model : --	Specified Accuracy : ± 0.25 % FS		
Out Put : 4 to 20 mA DC	Sr. No. : --		
Condition of Item : Ok	Location / Department : ---		

5. DETAILS OF STANDARD USED FOR CALIBRATION			
Name : Digital Vacuum Gauge	Digital Pressure Gauge	6 ½ Digit Precision Multimeter	
Make/I.D No. : Polltech / ACIS-EQP-010	V.E. / ACIS-EQP-012	Tektronix / ACIS-EQP-003	
Certificate No. : VIS/22-23/O-966	VIS/22-23/T-968	CC/ECL/0998/22-23	
Certified By : V.I.S. Vadodara. CC-2695.	V.I.S. Vadodara. CC-2695.	I.D.E.M.I. Mumbai. CC-2287	
Calibration Validity : 18-Oct-2023.	18-Oct-2023.	06-Oct-2023.	

Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS

Actual Output of UUC

Set Value On Std. P (ind)	Reading Of UUC Out Put		
	M1	M2	M3
bar	mA	mA	mA
-1.00	4.008	4.006	4.009
0.50	8.004	8.005	8.003
2.00	11.998	11.997	11.995
3.50	15.996	15.996	15.996
5.00	19.992	19.995	19.995

7. CALIBRATION RESULTS

Calculated Output of UUC

Set Value On Std. P (ind)	Measured Value on UUC			Mean Value Miw ((M1+M3)/2+M2) /2	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
bar	bar	bar	bar	bar	bar	bar	bar	bar
-1.000	-0.997	-0.998	-0.997	-0.998	0.002	0.000	-0.001	0.07
0.500	0.502	0.502	0.501	0.502	0.002	-0.001	0.000	0.07
2.000	1.999	1.999	1.998	1.999	-0.001	-0.001	0.000	0.07
3.500	3.499	3.499	3.499	3.499	-0.001	0.000	0.000	0.07
5.000	4.997	4.998	4.998	4.998	-0.002	0.001	0.001	0.07





ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504
Email: service.acis@gmail.com Website: www.accutechlab.com



CC-3009

Certificate No. : ACIS/2023/07/24/003 Page No. : 2 of 2

Remark :

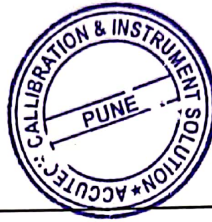
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95 % for normal distribution.

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

-: End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer



Approved By

Mr. Sajnath Rawte
Technical Manager

ACIS/F-55/0

Reviewed & ok
Nutan





CC-3009

ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.
Phone: +91 20 46301700 Mob.+91 9960162504

Email: service.acis@gmail.com Website: www.accutechlab.com



CALIBRATION CERTIFICATE

ULR Number : CC300923000002579F	Page No. : 1 of 2
Certificate No. : ACIS/2023/07/24/004	Next Calibration Due On : 23-Jul-2024
Date of Calibration : 24-Jul-2023	
1. CUSTOMER DETAILS :	Service Request No. : 2023-07-24-A
N. B. Technologies	Date of Receipt : 24-Jul-2023
56/10, D-2 Block, MIDC Chinchwad,	Date of Certificate Issue : 26-Jul-2023
Behind Spaco Corburetor, Pune - 411019.	Customer's Order or : --
	Challan Number & Date : --
	ACIS ID Number : --

2. ENVIRONMENTAL CONDITIONS	3. CALIBRATION METHOD
Mean Ambient Temp. : 25.7 °C	Work Instruction No. : ACIS-WI-M-03
Mean Relative Humidity : 52 %Rh	Reference Standard : DKD R-6-1 : 03/2014.
Location of calibration : On Site	Discipline / Parameter : Mechanical / Pressure

4. DESCRIPTION OF UUC			
Name : Pressure Transmitter	Range : -1 to 5 bar		
ID. No. : NBT/PT/04	Resolution : --		
Make : Wika	Working Range : --		
Model : --	Specified Accuracy : ± 0.25 % FS		
Out Put : 4 to 20 mA DC	Sr. No. : --		
Condition of Item : Ok	Location / Department : --		

5. DETAILS OF STANDARD USED FOR CALIBRATION			
Name : Digital Vacuum Gauge	Digital Pressure Gauge	6 ½ Digit Precision Multimeter	
Make/I.D No. : Polltech / ACIS-EQP-010	V.E. / ACIS-EQP-012	Tektronix / ACIS-EQP-003	
Certificate No. : VIS/22-23/O-966	VIS/22-23/T-968	CC/ECL/0998/22-23	
Certified By : V.I.S. Vadodara. CC-2695.	V.I.S. Vadodara. CC-2695.	I.D.E.M.I. Mumbai. CC-2287	
Calibration Validity : 18-Oct-2023.	18-Oct-2023.	06-Oct-2023.	

Note: All calibrations are done in SI units & are traceable to National / International standards as per required ISO/IEC 17025:2017.

6. CALIBRATION RESULTS		Actual Output of UUC		
Set Value On Std. P (ind)	Reading Of UUC Out Put			
	M1	M2	M3	
bar	mA	mA	mA	
-1.00	4.005	4.006	4.005	
0.50	8.009	8.009	8.009	
2.00	11.993	11.993	11.993	
3.50	15.991	15.991	15.991	
5.00	19.995	19.995	19.995	

7. CALIBRATION RESULTS		Calculated Output of UUC						
Set Value On Std. P (ind)	Measured Value on UUC			Mean Value Miw ((M1+M3)/2+M2)/2	Deviation Dp = P(ind)-Miw	Repeatability b' = (M3-M1)	Hysteresis h = (M2-M1)	Expanded Uncertainty (±)
	M1	M2	M3					
bar	bar	bar	bar	bar	bar	bar	bar	bar
-1.000	-0.998	-0.998	-0.998	-0.998	0.002	0.000	0.000	0.07
0.500	0.503	0.503	0.503	0.503	0.003	0.000	0.000	0.07
2.000	1.997	1.997	1.997	1.997	-0.003	0.000	0.000	0.07
3.500	3.497	3.497	3.497	3.497	-0.003	0.000	0.000	0.07
5.000	4.998	4.998	4.998	4.998	-0.002	0.000	0.000	0.07





ACCUTECH CALIBRATION & INSTRUMENT SOLUTION

Regd. Office & Lab: A-31, Ground floor, Sagar Complex, Nashik Phata,
Kasarwadi, Pune-411034. Maharashtra, India.

Phone: +91 20 46301700 Mob.+91 9960162504

Email: service.acis@gmail.com Website: www.accutechlab.com



Certificate No.

: ACIS/2023/07/24/004

Page No.

: 2 of 2

Remark :

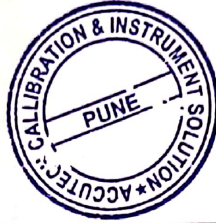
The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95 % for normal distribution.

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

-: End of Certificate :-

Calibrated By

Mr. Ashish Muley
Calibration Engineer



Approved By

Mr. Sainath Rawte
Technical Manager

ACIS/F-55/0

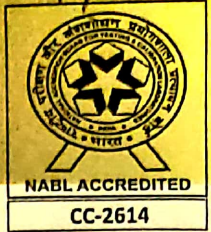
Reviewed & OK
Nutan





AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023			ULR :CC261423000018393F		
Certificate No	Date of Receipt	Date of Calibration	Next Date of Calibration	Page	No. of Pages
ACS/1145/CM 04/230001	04-10-2023	04-10-2023	03-10-2024	1	2

Name of Customer & Address : NBT INNOVATIVE INDIA PVT LTD.
Plot No.67/12,D3 Block,MIDC,Chinchwad,
Pune-411019 (Through- Autotech)

Purchase Order No.	Date	Challan No.	Date	Work Order No	Condition of Item
Nil	Nil	AS/DC/23-24/39	04-10-2023	ACS/CAL/23-24/1145	OK

Gauge For Calibration : External Micrometer
Make : Yamayo
Range : 75 to 100 mm
L.C. : 0.01 mm
Identification No. : --
Sr. No. : 0708283
Lab ID No. : ACS/CAL/23-24/1145/001
Location : --
Calibration Procedure No. : CM 04
Reference Document No. : Comparison Method Based on IS 2967 - 1983
Calibration Procedure : To obtain instrumental error of measurement at number of steps in total range by comparison of indicated reading with reference Gauge Blocks.
Equipment & Master Used for Calibration : Used Standards are traceable to National / International Standards (Direct / through NABL Accredited Lab.)

Equipment & Master Used for Calibration	Identification No.	Sr.No.	Calibration Certificate No	Calibration Date	Valid up to	Traceability With
Grade 0 Gauge Blocks M 46	ACS-R 03-01	3410	2022/06/3989	30.06.2022	30.06.2024	NABL Lab No CC 2875
Grade 0 Gauge Blocks M 13	ACS-R 03-02	3411	2022/06/3990	30.06.2022	30.06.2024	NABL Lab No CC 2875
Optical Flat	ACS-R 05-01	2573	2022/08/2407	25.08.2022	25.08.2024	NABL Lab No CC 2875

Environmental Condition : 20 ± 1 °C.
30 to 70 %RH.

Uncertainty of Measurement : ± 2.22 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%.
 Note :1) Calibration Results are given on Page No. 2 onwards



Reviewed & OK
M. Sutar



AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



CALIBRATION LAB

NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CC-2614

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023		ULR : CC261423000018393F		
Certificate No	Date of Calibration	Lab ID No	Page	No. of Pages
ACS/1145/CM 04/230001	04-10-2023	ACS/CAL/23-24/1145/001	2	2

External Micrometer
 Make Yamayo Identification No. - Sr. No. 0708283
 Range 75 to 100 mm L. C. 0.01 mm

Mechanical Calibration : Dimension (Measuring Instruments)

Calibration Results

A. Instrumental Error Measurement :

Reference Size (mm)	Observed Size (mm)	Observed Error (mm)
75.00	SET	SET
77.50	77.500	0.000
80.10	80.100	0.000
82.70	82.700	0.000
85.30	85.300	0.000
87.90	87.901	0.001
90.00	90.001	0.001
92.60	92.600	0.000
95.20	95.201	0.001
97.80	97.801	0.001
100.00	100.002	0.002

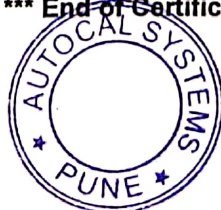
B. Parallelism of Measuring Faces : 0.001 mm
 C. Flatness of Measuring Faces : 0.0008 mm

D. Zero setting error for external micrometer with interchangeable anvils :

Nominal Anvils length (mm)	Observed length (mm)	Observed Error (mm)
75	75.0021	0.0021

Remark : Decision rule not applicable.

*** End of Certificate ***



Calibrated By
Ganesh
 Calibration Engineer
 (Mr. Ganesh Varangane)

Approved By
Sandip Bagade
 Technical Manager
 (Mr. Sandip Bagade)

Format No: ACS/RFT/29

Revision No:00

Issue Date : 15.06.2019



AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023			ULR :CC261423000018395F		
Certificate No	Date of Receipt	Date of Calibration	Next Date of Calibration	Page	No. of Pages
ACS/1145/CM 04/230003	04-10-2023	04-10-2023	03-10-2024	1	2

Name of Customer & Address : **NBT INNOVATIVE INDIA PVT LTD.**
 Plot No.67/12,D3 Block,MIDC,Chinchwad,
 Pune-411019 (Through- Autotech)

Purchase Order No.	Date	Challan No.	Date	Work Order No	Condition of Item
Nil	Nil	AS/DC/23-24/39	04-10-2023	ACS/CAL/23-24/1145	OK

Gauge For Calibration : **Inside Caliper**
 Make : Insize
 Range : 25 to 200 mm
 L.C. : 0.01 mm
 Identification No. : --
 Sr.No. : 048201503
 Lab ID No. : ACS/CAL/23-24/1145/003
 Calibration Procedure No. : CM 01
 Reference Document No. : Comparison Method Based on IS 3651 (Part I - 1982 & Part II - 1985)
 Calibration Procedure : To obtain Instrumental Error of measurement at number of points in total Range by comparison of Indicated Value with Reference Step Gauge .

Equipment & Master Used for Calibration : Used Standards are traceable to National / International Standards (Direct / through NABL Accredited Lab.)

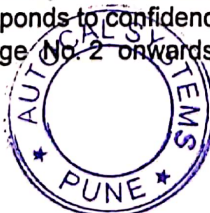
Equipment & Master Used for Calibration	Identification No.	Sr.No.	Calibration Certificate No	Calibration Date	Valid up to	Traceability With
Caliper Checker	ACS-R 01-01	2517	OM/49/220013	07.09.2022	07.09.2024	NABL Lab No CC 2751
Grade 0 Gauge Blocks M 46	ACS-R 03-01	3410	2022/06/3989	30.06.2022	30.06.2024	NABL Lab No CC 2875

Environmental Condition : 20 ± 1° C.
50 RH ± 20 RH.

Uncertainty of Measurement : ± 15.93 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%.

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



Reviewed & OK
Multan

83/526, Near D. Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.

☎ 09763305799 📞 09881856653 / Office : 09763305299 📧 autocalsystemsflow@gmail.com



AUTOCAL SYSTEMS

Calibration of Mechanical, Electrotechnical, Thermal, Mass, Volume, Weights, Mapping, Acoustics & All Types of Flow Meter Servicing and Calibration Facility in LAB / ONSITE.



NABL ACCREDITED CALIBRATION LAB WITH ISO/IEC 17025 : 2017

CALIBRATION CERTIFICATE

ISSUED ON : 05/10/2023

ULR : CC261423000018395F

Certificate No	Date of Calibration	Lab ID No	Page	No. of Pages
ACS/1145/CM 04/230003	04-10-2023	ACS/CAL/23-24/1145/003	2	2

Inside Caliper

Make Insize Identification No. -- Sr. No. 048201503
 Range 25 to 200 mm L.C. 0.01 mm

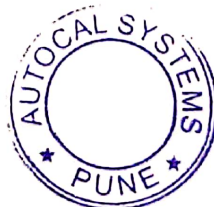
Mechanical Calibration : Dimension

Calibration Results

Internal Measurement		
Measured Length	Observed Length	Error
25.00	25.00	0.00
50.00	50.00	0.00
100.00	100.00	0.00
150.00	150.00	0.00
200.00	200.00	0.00

Parallelism of Internal Measuring Faces :- 0.002 mm

End of Certificate



Calibrated By
Ganesh
 Calibration Engineer
 (Mr. Ganesh Varangane)

Approved By
Sandip Bagade
 Technical Manager
 (Mr. Sandip Bagade)

Format No: ACS/RFT/29

Revision No: 00

Issue Date : 15.06.2019