



COMMITTED TO THE
CUSTOMER SINCE - 1996

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



CC-2473



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.

Ph : 080-23377266, Mob : 9986586789 / 9632221171 / 9964308118 | Email : info@viplgroup.com Web : www.viplgroup.com

NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date Of Issue: 17-03-2023

Sheet : 1 of 2

Format No. : VI-FRM-ME-003		ULR No.: CC247323100010384F		Report No: VI/22-23/8525-11		
Customer Name and Address:		M/S. MAG ENGINEERING UNIT A (A Unit of Sandhar Technologies Ltd.) No. 46A, 3rd Main, 2nd Phase, Peenya, Bangalore, Karnataka - 560 058.				
Customer Ref. No. and Date		DC No.: SIA/RGP21-22/0365 & 13-03-2023		Received Condition	Satisfactory	
SRF. No.		8525		Date of Receipt	14-03-2023	
CALIBRATED INSTRUMENT / EQUIPMENT DETAILS						
Nomenclature	External Micrometer		Make	Mitutoyo		
Range / Resolution	25-50 mm	0.01mm	SI No. / ID.No.	7138960 / M016		
Calibration Done At	VI Mechanical Lab		Temperature / Humidity	20.1-20.4°C 50-53%RH		
Calibrated on	17-03-2023		Calibration due on	16-03-2024		
Discipline	Mechanical (Dimensional)					
MASTER EQUIPMENT TRACEABILITY DETAILS						
Sl.No.	Nomenclature	Make / Model	Sl. No.	Traceable Cert. No.	Traceable to	Validity
1	Tung Carb Gauge Block Set	KCP / M10	10014	VI/22-23/INT-ME-125	VI-Bangalore	20 - 07 - 2023
2	Tung Carb Gauge Block Set	KCP / M112	10021	VI/22-23/INT-ME-126	VI-Bangalore	21 - 07 - 2023
The master equipments used are traceable to National Standards				Ref. Doc.	Based on: IS 2967 and SOP-16-03	
CALIBRATION RESULTS						
All values are in mm						
Sl.No.	Micrometer Reading (A)	Slip gauge size (B)	Error(A-B)	Permissible Error (±)		
1	25.000 (Set)	25.00	0.000	0.002		
2	27.499	27.50	-0.001	0.004		
3	30.099	30.10	-0.001	0.004		
4	32.699	32.70	-0.001	0.004		
5	35.299	35.30	-0.001	0.004		
6	37.899	37.90	-0.001	0.004		
7	39.999	40.00	-0.001	0.004		
8	42.598	42.60	-0.002	0.004		
9	45.198	45.20	-0.002	0.004		
10	47.798	47.80	-0.002	0.004		
11	49.998	50.00	-0.002	0.004		
Parallelism of measuring faces			0.001	0.002		

Note :

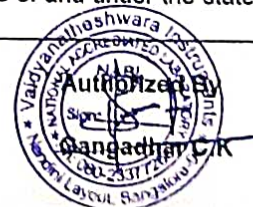
- Determination of step sizes, parallelism and flatness of measuring faces of micrometer by direct method using gauge blocks.

Conclusion :

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor K = 2 : $\pm 7.0\mu\text{m}$
- The Reported Results are valid only for the conditions of the received Instruments /gauges at the time of and under the stated conditions of the calibration.

Calibrated By
Hemanth Kumar G
Hemanth Kumar G
(Calibration Engineer)

Checked By
P.Santhosh Kumar
P.Santhosh Kumar
(Lab In-Charge)



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Sheet : 2 of 2

Format No. : VI-FRM-ME-006 ULR No.: CC247323100010384F Report No: VI/22-23/8525-11

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Setting Rod	Make	Mitutoyo
Range / Resolution	25 mm	Sl. No.	-----
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.1-20.5°C 46-49%RH
Calibrated on	17-03-2023	Calibration due on	16-03-2024
Discipline	Mechanical (Dimensional)		

MASTER EQUIPMENT TRACEABILITY DETAILS

Sl.No.	Nomenclature	Make	Sl. No.	Traceable Cert. No.	Traceable to	Validity
1	Digital Linear Height Master	Mitutoyo	300471007	VI/22-23/INT-03	VI-Bangalore	15 - 07 - 2023
The master equipments used are traceable to National Standards				Ref. Doc.	Comparison Method and SOP-16-04	

CALIBRATION RESULTS			All values are in mm	
Sl.No.	Std. Values	Actual Values	Error	
1	25 mm @ ±0µm	25.0019	+0.0019	-

Note :

- Determination of step sizes, parallelism of measuring faces of setting rod by direct method using Digital Linear Height Master.

Conclusion :

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor $K = 2 : \pm 10\mu m$
- The Reported Results are valid only for the conditions of the received Instruments /gauges at the time of and under the stated conditions of the calibration.

Calibrated By

Hemant Kumar G
(Calibration Engineer)

Checked By

P. Santhosh Kumar
(Lab In-Charge)

