COMMITTED TO THE CUSTOMER SINCE - 1996

VAIDYANATHESHWARA INSTRUMENTS

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

CERTIFICATE OF CALIBRATION

Date Of Issue: 17-03-2023

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	Sl 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 : ±7.0µm
- 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 Kumara G
(Calibration Engineer)

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

Authorized By
Gangadhar C.K

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Date Of Issue: 17-03-2023
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 : **± 10µm**
- 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 Kumara G
(Calibration Engineer)

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

Authorized By
Gangadhar C.K