



COMMITTED TO THE
CUSTOMER SINCE - 1996

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
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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 1

Format No. : VI-FRM-ME-007		ULR No : CC247323100010362F		Report No: VI/22-23/8525-04		
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. & 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		Vernier Caliper		Make Mitutoyo		
Range / Resolution		0-600 mm 0.02 mm		Sl. No. / ID.No. 315005 / M017		
Calibration Done At		VI Mechanical Lab		Temperature / Humidity 20.3-20.6°C 52-54 %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	Caliper Checker	KCP /CC-1000	3095	VI/22-23/INT-ME-135	VI-Bangalore	11-05-2023
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.	IS 16491(Part I) 2016 and SOP-16-05		
CALIBRATION RESULTS						All values are in mm
Std. Values	Actual Values	Error	Permissible Error(±)			
0	0.00	0.00	0.02			
20	20.00	0.00	0.03			
50	49.98	-0.02	0.03			
75	74.98	-0.02	0.03			
100	99.98	-0.02	0.03			
150	149.98	-0.02	0.03			
200	199.98	-0.02	0.03			
250	250.00	0.00	0.03			
300	300.02	+0.02	0.04			
400	400.02	+0.02	0.04			
500	500.02	+0.02	0.05			
600	600.04	+0.04	0.05			
Parallelity of External Jaws → 0.014 mm						
Combined Width of Internal Jaw → 12.712 – 12.719						

Note :

• Determination of various sizes and parallelism of measuring faces (External / Internal measurement) from respective reference faces were measured by direct measurement against slip gauges.

Conclusion :

• Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor K = 2 : $\pm 10.2\mu\text{m}$
• 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

Hemant Kumar G
(Calibration Engineer)

Checked By

P. Santhosh Kumar
(Lab In Charge)

