



Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION

COMMITTED TO THE
CUSTOMER SINCE - 1996



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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 : CC247323100010359F		Report No: VI/22-23/8525-01			
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	Digital Vernier Caliper	Make / Model	Mitutoyo / CD-12"C				
Range / Resolution	0-300 mm 0.01 mm	Sl. No. / ID.No.	1153339 / MS-09				
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	External Jaws		Internal Jaws		Depth Bar		Permissible Error(±)
	Actual Values	Error	Actual Values	Error	Actual Values	Error	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.02
20.00	19.99	-0.01	20.00	0.00	20.01	+0.01	0.03
50.00	49.99	-0.01	50.00	0.00	50.01	+0.01	0.03
75.00	74.99	-0.01	75.01	+0.01	75.01	+0.01	0.03
100.00	99.99	-0.01	100.01	+0.01	100.01	+0.01	0.03
150.00	149.98	-0.02	150.01	+0.01	150.01	+0.01	0.03
200.00	199.98	-0.02	200.01	+0.01	200.01	+0.01	0.03
250.00	249.97	-0.03	250.02	+0.02	250.01	+0.01	0.03
300.00	299.97	-0.03	300.02	+0.02	300.01	+0.01	0.04
Parallelism		Permissible Error		Measured Value			
External Jaws		0.010		0.006			
Internal Jaws		0.010		0.005			

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 : $\pm 8.6\mu\text{m}$
• The Reported Results are valid only for the conditions of the received Instruments /gauges at the time of calibration under the stated conditions of the calibration.

Calibrated By

Hemant Kumar G
(Calibration Engineer)

Checked By

P. Santhosh Kumar
(Lab In-Charge)



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