



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-024		ULR No : CC247323100010363F		Report No: VI/22-23/8525-05		
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	DC NO: SIA/RGP21-22/0365 & 13-03-2023		Received Condition	Satisfactory		
SRF No	8525		Date of Receipt	14-03-2023		
<b>CALIBRATED INSTRUMENT / EQUIPMENT DETAILS</b>						
Nomenclature	Bevel Protractor		Make	Mitutoyo		
Range / Resolution	0 - 360° 5'		Customer Instrument Reference No.	095176 / M102		
Calibration Done At	VI Mechanical Lab		Temperature / Humidity	20.3~20.8°C 50~57%(RH)		
Calibrated on	17 - 03 - 2023		Calibration due on	16 - 03 - 2024		
Discipline	Mechanical (Dimensional)					
<b>MASTER EQUIPMENT TRACEABILITY DETAILS</b>						
Sl. No.	Nomenclature	Make	Sl. No.	Traceable Cert. No.	Traceable To	Validity
1	Profile Projector	OMEGA	1035	VI/22-23/INT-016	VI-Bengaluru	17-10-2023
The Master Equipment's used are traceable to National Standards				Ref. Doc.	IS : 4239 - 1970 and SOP-16-20 PERMISSIBLE ERROR → ± 5'	

### SCALE CALIBRATION:

SL No.	NOMINAL VALUES	ERRORS			
		TOP RIGHT	TOP LEFT	BOTTOM RIGHT	BOTTOM LEFT
1	0°	0	0	0	0
2	1°	+0'56"	-1'12"	-0'46"	+1'48"
3	5°	+1'12"	-1'48"	-0'36"	+2'24"
4	20°	+1'48"	-1'52"	-1'32"	+2'24"
5	30°	+1'12"	-2'24"	-1'48"	+3'00"
6	50°	+2'24"	-3'36"	-3'36"	+3'00"
7	70°	+3'00"	-3'00"	-2'24"	+3'36"
8	90°	+4'12"	-3'36"	-3'00"	+3'36"

### Note:

- Determination of various Angle measured by direct measurement Using Profile Projector.

### Conclusion:

- Uncertainty of calibration at 95.45 % Confidence level and Coverage Factor K = 2 : ±5.66 arc of min
- 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*  
Hemanth Kumara G  
(Calibration Engineer)

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

