



Innovation for Humanity

CERTIFICATE OF CALIBRATION

Hereby certify that

SAGLO Research Equipment's.

Plot No. 41, Serve No. 104, MIDC Shah Lulla Mahanaga, Trutiya 3rd, Savali, Tal-
Miraj, Maharastra 416 410 INDIA

In the field of

DIGITAL MICROSCOPE CALIBRATION

Research Equipments

This certificate is valid only when accompanied by a purchase of microscope.

A handwritten signature in green ink that reads "Sachin. G. Lokapure" with a horizontal line underneath.

Sachin G Lokapure., DIRECTOR

Expiry Date: 30 March 2030

Certificate Number: SGL-11/05



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SAGLO Research Equipment's.

Plot No. 41, Serve No. 104, MIDC Shah Lulla Mahanaga, Trutiya 3rd,
Savali, Tal- Miraj, Maharastra 416 410 INDIA



CALIBRATION

Valid to: **March 30, 2023**

Certificate Number: **SGL-11/05**

Length – Dimensional Microscopy

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Autocollimators	Up to 10'	0.7"	Procedure : SGL-11: Optical Wedge
Measuring Microscope ¹ :			Procedure : SGL-11:
X, Y, Z Axis Length	(0 to 300) mm	1.5 μm	LTE Zerodur Line Scales
X and Y Axes Squareness	Up to 50 mm	1.5 μm	X-Y Zerodur Line Scale
Optical Comparators ¹ :			Procedure : SGL-11:
Magnification	(10 to 100) X	0.4 % of magnified length ²	Glass Line Scales
X, Y Axis Length	(0 to 300) mm	1.5 μm	LTE Zerodur Line Scales
X and Y Axes Squareness	Up to 50 mm	1.5 μm	X-Y Zerodur Line Scale
VMA Video Measuring System ¹ :			Procedure : SGL11:
X, Y Axis, X-Y Diagonal Length	(0 to 300) mm (0 to 700) mm	1.5 μm 2.5 μm	LTE Zerodur Line Scales
Z Axis Length	(2 to 40) mm	0.5 μm	Gauge Blocks
Video Probe	(0.022 to 8) mm	0.5 μm	Test Slide



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Length – Dimensional Microscopy

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
VMR & VMZ Video Measuring System ¹ :			Procedure : SGL-11:
X, Y Axis, X-Y Diagonal Length	(0 to 300) mm (0 to 700) mm	1 μ m 1.5 μ m	LTE Zerodur Line Scales
Z Axis Length	(2 to 40) mm	0.5 μ m	Gauge Blocks
Video Probe	(0.022 to 8) mm	0.5 μ m	Test Slide

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. Magnification length of 100 mm up to 200 mm.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. **SGL-11**.

Sachin. G. Lokapure

Sachin G Lokapure., DIRECTOR
Expiry Date: 30 March 2030
Certificate Number: SGL-11/05