



CERTIFICATE NO.: CC-2153

मेट्रोलॉजी लेबोरेटरी
METROLOGY LABORATORY
CALIBRATION CERTIFICATE



REPORT NUMBER: 17/53/01/352-L/3/204

DATE: 07-11-2017

SHEET: 1 of 3

Name & Address of the Client : **M/s. I R Technology Services Pvt. Ltd.,
208 Swiss Complex, 33 RaceCourse Road,
Bangalore-560 001.**

Description of the Item : **Glass Scale (Stage Micrometer),
Range: 0 – 1 mm, 1 Division: 0.01 mm,
Model:OB-MM, Make:Olympus.**

Identification & Sl. No. : **Nil.**

1. Client's Reference : Letter Dated:02-11-2017.
2. Date & Place of Calibration : 02-11-2017, PML.
3. Equipment Used For Calibration & Traceability: **Ultra Precision Coordinate Measuring Machine:**
(Make: Zeiss-Germany, Model-F25, Sl. No.:136061, Idfn. No. CMM-C-02) Calibrated in house Vide Certificate No.: ML/CMM-02/11.16/008 Dated 29-11-2016 valid up to November - 2017 using master traceable NPL - India vide certificate No.: 15120975/D5.02/C-016 dated 18.04.2016.
4. Reference Document : W. P. No.: QM/ML/WP/001-8.027.
5. Temperature During Calibration : 20.2° to 20.4° C
6. Uncertainty of Measurement (At 95 % Confidence Level) : $\pm 0.8 \mu\text{m}$.
7. Due date for next Calibration : **Nov -2018** (As Requested by the Customer)
8. Results of Calibration : Refer sheets 2 & 3.
9. The reported results are valid only for the condition of the received **Glass Scale** at the time of and under the stated conditions of Calibration.

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CALIBRATED BY

SIDDARAJU. K.G.

CHECKED BY

MALLAPPA H.K.
Sr. Tech. Officer

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TUMKUR ROAD, BANGALURU - 560 022, INDIA





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SHEET: 2 of 3

Glass Scale (Stage Micrometer),
Range: 0 – 1 mm, 1 Division: 0.01 mm,
Model:OB-MM, Make:Olympus.

Calibration of Glass Scale:

(All values are in mm)

Sl.No.	Glass Scale Reading	Calibrated Values	Error
1.	0.00	0.0000 (Set)	0.0000
2.	0.01	0.0105	-0.0005
3.	0.02	0.0203	-0.0003
4.	0.03	0.0303	-0.0003
5.	0.04	0.0404	-0.0004
6.	0.05	0.0504	-0.0004
7.	0.06	0.0604	-0.0004
8.	0.07	0.0704	-0.0004
9.	0.08	0.0805	-0.0005
10.	0.09	0.0907	-0.0007
11.	0.10	0.1006	-0.0006
12.	0.15	0.1502	-0.0002
13.	0.20	0.2004	-0.0004
14.	0.25	0.2507	-0.0007
15.	0.30	0.3003	-0.0003
16.	0.35	0.3501	-0.0001

Contd....

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SHEET: 3 of 3

Calibration of Glass Scale:

(All values are in mm)

Sl.No.	Glass Scale Reading	Calibrated Values	Error
17.	0.40	0.4003	-0.0003
18.	0.45	0.4505	-0.0005
19.	0.50	0.5006	-0.0006
20.	0.60	0.6002	-0.0002
21.	0.70	0.7002	-0.0002
22.	0.80	0.8001	-0.0001
23.	0.90	0.9003	-0.0003
24.	1.00	1.0001	-0.0001

Method of Calibration:

Calibration was carried out by using Ultra precision co-ordinate measuring machine.

Note:

1. Error = Glass scale Reading - Calibrated Value.
2. Only parameters required by the customer have been measured.

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