



यांत्रिक अभियांत्रिकी विभाग

राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान

हटिया, रांची - ८३४ ००३

Department of Mechanical Engineering

National Institute of Advanced Manufacturing Technology

Hatia, Ranchi - 834 003

Dated 17/07/2026.

METROLOGY LABORATORY

Faculty in-charge : **G. Rajamohan, PhD**
Professor / AUKOM Certified Metrologist

Technical staff : **Abhash Mahato, DME**
Technician

LIST OF MEASURING EQUIPMENT WITH SPECIFICATIONS

1) Autocollimator with accessories - 1 No.

Make : Nikon
Model : 6D
Measuring range : 30 min
Least count : 0.5 sec
Month and year of purchase : July 1989
Total cost : Rs. 75,785.00

2) Bench micrometer - 1 No.

Make : Mitutoyo
Model : DIGIMATIC
Measuring range : 0 - 50 mm
Resolution : 0.001 mm
Month and year of purchase : April 1996
Total cost : Rs. 51,225.00

3) Dial gauge with magnetic stand - 3 Sets

Make : Baker / Mitutoyo
Measuring range : 0 - 10 mm
Least count : 0.01 mm
Magnetic stand : JAFUJI / Mitutoyo
Month and year of purchase : July 1989 / December 2024
Total cost : Rs. 1,820.00 (2 Sets) / Rs. 4,740.00 (1 Set)

4) Dial gauge with magnetic stand - 1 Set

Make : Mitutoyo
Range : 0 - 1 mm
Least count : 0.001 mm

Magnetic stand : Adjustable (Mitutoyo)
Month and year of purchase : December 2024
Total cost : Rs. 9,000.00

5) Depth micrometer - 2 Nos.

Make : Mitutoyo
Range : 0 - 25 mm
Reference base : 101.6 mm × 16 mm
Least count : 0.01 mm
Month and year of purchase : March 2026
Total cost : Rs. 12,980.00

6) Digital outside micrometer - 2 Nos.

Make : Mitutoyo
Model : DIGIMATIC
Range : 0 - 25 mm
Resolution : 0.001 mm
Month and year of purchase : March 2026
Total cost : Rs. 18,151.00

7) Electronic comparator with accessories - 1 No.

Make : Mahr
Month and year of purchase : July 1988
Total cost : Rs. 14,411.75

8) Gauge blocks set - 1 No.

Make : AAKAI
Grade : Inspection grade
Number of pieces : 83
Month and year of purchase : August 1991
Total cost : Rs. 5,500.00

9) Outside micrometer - 9 Nos.

Make : VIS / Mitutoyo
Measuring range : 0 - 25 mm
Least count : 0.01 mm
Month and year of purchase : July 1989 / May 2018 / March 2026
Total cost : Rs. 820.00 (2 Nos.) / Rs. 11,505.00 (5 Nos.) / Rs. 8,082.00 (2 Nos.)

10) Pneumatic gauge with accessories - 1 No.

Make : Accurate Sales and Services Limited
Model : GEJ Dial Type
Least count : 0.001 mm
Month and year of purchase : September 1996
Total cost : Rs. 52,928.35

11) Profile projector with accessories - 1 No.

Make	: Magami
Model	: 400EV
Type	: Vertical
Magnification	: 10X, 20X and 50X
Resolution	: 5 µm (Digital Readout)
Month and year of purchase	: May 1990
Total cost	: Rs. 162,325.00

12) Surface plate - 2 Nos.

Make	: JASH Precision Tools
Size	: 400 mm × 350 mm
Material	: Cast Iron
Month and year of purchase	: July 1989
Total cost	: Rs. 4,144.00

13) Surface plate - 1 No.

Make	: GREMACH CNC Ltd.
Size	: 1000 mm × 1000 mm
Material	: Cast Iron
Month and year of purchase	: July 1991
Total cost	: Nil (Table of the 3D Coordinate Measuring cum Marking Machine that has been declared obsolete)

14) Surface Tester and Contour Measuring Machine with accessories - 1 No.

Make	: Hommel
Model	: T8000 with Waveline 120 and TURBO WAVE CNC Option for Windows
Month and year of purchase	: March 2008
Total cost	: € 69,465.00

15) Vernier caliper - 3 Nos.

Make	: Mitutoyo
Range	: 0 - 150 mm
Least count	: 0.02 mm
Month and year of purchase	: May 2018
Total cost	: Rs. 8,100.00

16) Vernier height gauge - 2 Nos.

Make	: Mitutoyo
Range	: 0 - 300 mm
Least count	: 0.02 mm
Month and year of purchase	: May 2018 / March 2026
Total cost	: Rs. 14,750.00 / Rs. 27,384.00