## ফ্লোর-ভিত্তিক মেশিন, টেস্টিং ইকুইপমেন্ট ও ধারনক্ষমতার তালিকা
## Floor-Wise Machinery, Testing Equipment & Capacity List

| SL | Facility/Location | Machine/Equipment Model | Specifications & Capacity | Quantity |
|---|---|---|---|---|
| 1 | CNC Shop Unit 1 (Ground Floor North Side) | UMC 750 (5 Axis Milling) | 5-Axis CNC Milling Center | 1 |
| | | VF-6 (3 Axis Milling) | 3-Axis Vertical Machining Center | 1 |
| | | VF-4 (3 Axis Milling) | 3-Axis Vertical Machining Center | 2 |
| | | VF-2 (3 Axis Milling) | 3-Axis Vertical Machining Center | 2 |
| | | ST-20 (2/4 Axis Lathe) | CNC Lathe Machine | 2 |
| | | ST-10 (2 Axis Lathe) | CNC Lathe Machine | 2 |
| | | Generator | 100 KV | 1 |
| | | Central Air Compressor | 2000 L | 1 |
| 2 | CNC Shop Unit 2 (Ground Floor South Side) | ST-30Y (4 Axis Lathe) | 4-Axis CNC Lathe | 1 |
| | | ST-20Y (4 Axis Lathe) | 4-Axis CNC Lathe | 1 |
| | | Cylinder Grinding Machine | Precision Cylindrical Grinding | 1 |
| | | Surface Grinding Machine | Precision Surface Grinding | 1 |
| | | Internal Grinding Machine | Precision Internal Grinding | 1 |
| | | EDM Die Sinking | Electrical Discharge Machining | 1 |
| | | EDM Wire-Cut | Precision Wire-Cut EDM | 1 |
| | | Tool Grinding (7 Axis) | 7-Axis CNC Tool Grinding | 1 |
| | | Coordinate Measuring Machine (CMM) | Type: CNC \| Range: 900 x 1000 x 800 mm | 1 |
| 3 | Heat Treatment Shop) (Level 1 North Side) | Vacuum Heat Treatment Furnace 1 | 10 KW | 1 |
| | | Vacuum Heat Treatment Furnace 2 | 30 KW | 1 |
| | | Vacuum Heat Treatment Furnace 3 | 60 KW | 1 |
| 4 | CNC Milling Class Room (Level 1 South Side) | Mini Mill | Compact CNC Mill | 2 |
| | | CNC Simulator | Machining Training Simulator | 10 |
| 5 | 3D Printing Lab (Level 2 South Side) | Plastic 3D Printer | Additive Manufacturing (Plastic) | 2 |
| | | Metal 3D Printer | Additive Manufacturing (Metal) | 1 |
| 6 | PVD Lab (Level 2) | PVD Coating Machine | Coating Capacity: 200 x 200 x 200 mm | 1 |
| 7 | CNC Lathe Class Room (Level 2 South Side) | ST-10 Lathe (2 Axis) | 2-Axis CNC Lathe | 2 |
| | | CNC Simulator | Lathe Training Simulator | 6 |
| 8 | Testing Lab (Level 2 North Side) | Three-Point Internal Micrometer | Range: 20–25mm, 25–30mm, 30–40mm to 200mm | 1 Set |
| | | Absolute LCD Bore Gage | Size: 1.8–4 Inch / 45–100 mm, 4–6.5 inch / 100–160 mm | 1 |
| | | Outside Micrometer | Graduation: 0.01mm, 0.001 mm \| Flatness: 0.6 µm | 6 |
| | | Dial Gauge (Analog) | Graduation: 0.01mm | 10 |
| | | Dial Test Indicator (Puppy Dial) | Graduation: 0.01mm | 5 |
| | | Vernier Caliper | Range: 0–300mm | 10 |
| | | Vernier Calipers Digital | Size: 6 Inch, 12 Inch, 18 Inch, 24 Inch | 4 |
| | | Vernier Bevel Protector | Angular Measurement | 4 |
| | | Vernier Height Gauge (Analog) | Range: 0–600 mm \| Accuracy: 0.03 \| Graduation: 0.02 | 1 |
| | | Granite Surface Plate | Size: 1000 x 1000 x 150 mm (Calibration Certificate Required) | 1 |
| | | Linear Height Gauge Digital | Precision Digital Height Measurement | 1 |
| | | Portable Surface Roughness Tester | Surface Roughness Measurement | 1 |
| | | Rockwell Hardness Tester | Scales: Rockwell A-V, Superficial 15N-45Y, HVT Scales | 1 |
| | | Brinell Hardness Tester | Indentors: 10mm, 5mm, 2.5mm \| Electronic Closed Loop Load Cell | 1 |
| | | Portable Hardness Tester | Range: 0–100 µm; 19–70 HRC; 35–1,000 HV | 1 |
| | | Ultrasonic Coating Thickness Gauge | Steel Thickness Range: 0.7 mm to 300 mm | 1 |
| | | Portable Infrared Temp Pyrometer | Temperature Range: 600°C – 2500°C | 1 |
| | | Metallurgical Microscope | 30° View \| Eyepieces: 10X Plano \| Field of Vision: 18 | 1 |
| | | Optical Emission Spectrometer (OES) | Floor standing OES for Fe, Al, Cu, Ni, Co, Mg, Zn, Ti alloys | 1 |