# Testing Facilities: Machinery & Equipment List

| SL. No. | Machinery and Equipment Name | Specifications | Quantity |
|---|---|---|---|
| 1 | **Three-Point Internal Micrometer** | Range: 20mm-25mm, 25mm-30mm, 30mm-40mm, 40mm-50mm, 50mm-63mm, 62mm-75mm, 75mm-88mm, 87mm-100mm, 100mm-125mm, 125mm-150mm, 150mm-175mm, 175mm-200mm | 1 Set |
| 2 | **Absolute LCD Bore Gage** | Size: 1.8-4 Inch/45-100 mm, 4-6.5 inch/100-160 mm | 1 |
| 3 | **Outside Micrometer** | Graduation: 0.01mm, 0.001 mm \| Flatness: 0.6 µm | 6 |
| 4 | **Dial Gauge (Analog)** | Graduation: 0.01mm | 10 |
| 5 | **Dial Test Indicator (Puppy Dial)** | Graduation: 0.01mm | 5 |
| 6 | **Vernier Caliper** | 0-300mm | 10 |
| 7 | **Vernier Calipers Digital** | 6 Inch, 12 Inch, 18 Inch, 24 Inch | 4 |
| 8 | **Vernier Bevel Protector** | Angular Measurement | 4 |
| 9 | **Vernier Height Gauge (Analog)** | 0-600 mm \| Accuracy: 0.03 \| Graduation: 0.02 | 1 |
| 10 | **Granite Surface** | 1000 x 1000 x 150 mm \| Calibration certificate required | 1 |
| 11 | **Linear Height Gauge Digital** | Precision Digital Height Measurement | 1 |
| 12 | **Portable Surface Roughness Tester** | Surface Roughness Measurement | 1 |
| 13 | **Coordinate Measuring Machine (CMM)** | Type: CNC, 900 x 1000 x 800 mm (X, Y, Z) | 1 |
| 14 | **Rockwell Hardness Tester** | Rockwell test scales: A, B, C, D, E, F, G, H, K, L, M, P, R, S, V \| Superficial Rockwell Scale: 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y \| HVT test scales: HVT5, HVT 10, HVT 20, HVT 30, HVT 50, HVT 100 and HVT120 | 1 |
| 15 | **Brinell Hardness Tester** | Ball Indentors: 10mm, 5mm, 2.5mm \| Test force selection: Electronic, closed loop, load cell, force feedback system, indication in Kgf or N | 1 |
| 16 | **Portable Hardness Tester** | Measuring range: 0-100 µm; 19-70 HRC; 35-1,000 HV \| Resolution: 0.1µm; 0.1 HRC; 1 HV | 1 |
| 17 | **Ultrasonic Coating Thickness Gauge** | Thickness measuring range on steel: From 0.7 mm to 300 mm \| Thickness resolution: 0.01 mm for <99.00mm, 0.1 mm for >100mm | 1 |
| 18 | **Portable Infrared Temperature Pyrometer** | Temperature ranges: 600 Degree centigrade - 2500 Degree centigrade | 1 |
| 19 | **Metallurgical Microscope** | 30° view and photo tube \| Eyepieces: 10X Plano \| Field of vision: 18 | 1 |
| 20 | **Optical Emission Spectrometer (OES)** | Floor standing Optical Emission Spectrometer (OES) suitable for quantitative analysis of Fe, Al, Cu, Ni, Co, Mg, Zn and Ti based alloys | 1 |