

**VIRUDHUNAGAR S.VELLAICHAMY NADAR POLYTECHNIC COLLEGE
(AUTONOMOUS)**

(Affiliated to Directorate of Technical Education, Chennai-25)

VIRUDHUNAGAR – 626 001

DEPARTMENT OF MECHANICAL ENGINEERING

METROLOGY LAB

SL.NO	NAME OF THE INSTRUMENTS
1.	1000 X 1000X 150 mm Granite surface plate
2.	Angle Dekkor
3.	Sine Bar (10") (Indian Make)
4.	Gear Tooth Vernier (1.26 Module) (Aerospace Make)
5.	Spirit Level 12" (Imported Make)
6.	Dial Gauge with Magnetic Base Stand (0.01mm) (Mitutoyo)
7.	Digital Outside Micrometer (0.001mm / 0 – 25mm) (Mitutoyo)
8.	Digimatic Micrometer (0.001mm / 0 – 25mm) (Mitutoyo)
9.	Vernier Caliper. (0.02mm / 300mm)
10.	Dial Vernier (150 mm / 0.01 mm)
11.	Vernier Height Gauge. (0.02mm / 300mm) (Mitutoyo)
12.	Digimatic Vernier Height Gauge. (0.02mm / 300mm) (Mitutoyo)
13.	Digimatic Inside Micrometer (5 – 30 mm) (Mitutoyo)
14.	Screw Thread Micrometer (0 – 25 mm)
15.	Screw Pitch Gauge (mm & inch)
16.	Slip Gauges (83 pieces)
17.	Universal Bevel Protractor (300 mm) (Mitutoyo)
18.	Universal Bevel Protractor (300 mm) (Mitutoyo)
19.	Combination Set (300 mm)

SL.NO	NAME OF THE INSTRUMENTS
20.	Tool maker's straight edge (50 mm – 100 mm)
21.	"Lean" Straight edge 12"
22.	Feeler gauge set 26 Blades
23.	Surface Plate (450 mm x 450 mm) without stand
24.	"SIC" GO & NOGO Gauge Plug 10mm
25.	Pitch gauge (mm & inch)
26.	Vernier depth gauge (0-150mm)
27.	Square 6"
28.	Magnetic stand (Mitutoyo)
29.	Dial Indicator (Mitutoyo)
30.	Three wire set
31.	Universal Surface Gauge
32.	Binocular metallurgical microscope
33.	USB Digital microscope
34.	Dual Magnetization yoke
35.	Metallurgical Microscope
36.	Linisher Belt grinder
37.	Double Disk polishing machine.
38.	Temperature measurement using RTP
39.	Displacement measurement trainer using LVDT
40.	Load measurement trainer
41.	Thread plug gauge and ring gauge
42.	Surface Roughness tester
43.	Optical Comparator



