

## Physics Lab Equipments & Experimental Setups

**ME 875 - To determine the refractive index of a prism by using a spectrometer**

**Setup consist of:**

- Spectrometer : 6 Inch, Least count - 30 Sec.
- Prism : Crown Glass (base 3.2cm)
- Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand

**ME 875A - To determine the refractive index of a liquid by using a spectrometer**

**Setup consist of:**

- Spectrometer : 6 Inch, Least count - 30 Sec.
- Hollow Prism : Base 3.2 cm
- Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand

**ME 875B - To find the dispersive power of given prism.**

**Setup consist of:**

- Spectrometer : 6 Inch, Least count - 30 Sec.
- Prism : Crown Glass (base 3.2cm)
- Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand

**Optional:** Hydrogen discharge tube with supply



**Model : ME 875**

**ME 875C - Plot a graph between  $\mu$  and using mercury vapour lamp and hence find the values of Cauchy's constant A and B.**

**Setup consist of:**

- Spectrometer : 6 Inch, Least count - 30 Sec.
- Prism : Crown Glass (base 3.2cm)
- Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand

**ME 875E - To find refractive index of the given liquid samples using Abbe refractometer**

**Setup consist of:**

- Abbe's refractometer
- Light Source : 35 Watt Sodium vapour lamp housed in powder coated Steel cabinet with Transformer & Stand



**Model : ME 875C**

**ME 875D - To determine the refractive index of a liquid by total internal reflection using Wollaston's air-film.**

**Setup consist of:**

- Spectrometer : 6 Inch, Least count - 30 Sec.
- Light Source : 80 Watt Mercury vapour lamp housed in powder coated Steel cabinet with Transformer & Stand
- Air cell consisting of a thin layer of air enclosed between two glass plates
- Glass container
- Thermometer : -10 to 110 Degree C

**Optional :**

- 35 Watt Sodium vapour lamp housed in powder coated Steel cabinet with Transformer & Stand



**Model : ME 875E**