

**Quotations are invited for Physics Dept., T.D.B College, Raniganj**

**1. Complete Setup to study the Photo electric effect: Photo current versus Intensity, wavelength of light**

**Specification s:**

Photodiode with amplifier Power supplies to operate amplifier and provide reverse voltage .

Digital voltmeter to read reverse voltage Source of monochromatic light beams to irradiate photocathode .

Neutral filter to vary light intensity.

**2. Set Up for the determination of the work function of material of filament of directly heated Vacuum Diode**

**Specifications :** Complete with digital meters, valve diode, circuit arrangement, manual.

**3. Set up for Determination of Plancks Constant by means of LED s**

**Specifications:**

Determination of Plancks Constant by means of LED .

The method is based on well known expression of diode current for  $V < V_0$ .

The dependence of current with temperature is measured, keeping the  $V$  slightly below  $V_0$  and material constant  $n$  is obtained from  $V$ - $I$  characteristics of the diode, Complete in all Respect

**4. Ionization Potential of Mercury**

**Specifications:** Ionization Potential of Mercury - To draw  $V$ - $I$  Characteristics of Thyatron valve and to drive Ionization Potential of DC Power Supply 0-3 VDC/50mA & AC 6.3V 0 to 25V 500mA, two meters for voltage & current measurement, valve diagram is require, connections of Supplies & Valve brought terminals.

**5. Ionisation Potential Set-up,**

Make: SES Model : IP-01 Make : Measurement of Ionisation Potential of Argon gas Complete in all respect, but a oscilloscope will be helpful. Supplied without CRO .

**7. e/m Apparatus by Thomson (Bar Magnet) Method**

Make: DE TECH :

Specifications: Set Up for Determination of e/m by using a Cathod Ray Tube & a Pair of Bar Magnets. Complete with CRT, Power Supply, Magnets, Magnetic disc with fittings etc.

**N.B. Required specification of the above mentioned apparatus will be judge for selection of quotation.**