



KALINDI COLLEGE  
(University of Delhi)

कालिन्दीमहाविद्यालय  
(दिल्ली विश्वविद्यालय)

NAAC ACCREDITED 'A+' GRADE COLLEGE



Sir/Madam:

Dated: 28/072023

Sub: Purchase of various items for Physics Lab of the college.

Kalindi College invites quotations for purchase of following items for Physics Lab:

S.NO.	Name of the item	Specifications if any	Quantity
1.	PE Hysteresis setup	Experiment setup to study P-E Loop for Hysteresis (Without CRO): For TGS/pmnpt/ PZT crystal and measure the Polarisation vs electric field (P-E) study for finding corrosive field, ramanent polarization, etc. with 0-1500V power supply with digital display, sample holder, samples, short circuit indication. Open lid indication, sample holder, with provision of connecting with CRO X Y channel complete in all respect	01setup
2.	e/m by Magnetic focusing setup	<ul style="list-style-type: none"> <li>•Cathode Ray Tube Distance between Plates : <math>d=1.4\text{cm}</math></li> <li>•Length of Plates : <math>l=3.23\text{cm}</math></li> <li>•Distance between Screen and Plates (edge) : <math>L=14.5\text{cm}</math></li> <li>•Focusing Voltage : Variable 0 - 300V DC</li> <li>•Solenoid: Copper Wound (Fitted on Base With Input Terminals)</li> <li>•CRT connection : Octal socket</li> <li>•Digital Meter : <math>3\frac{1}{2}</math> Digit (LED Display) Deflection Voltage : <math>3\frac{1}{2}</math> Digit (LED Display) Load Current of Solenoid</li> <li>•Solenoid Power Supply : 0-12V, 2A (Current Control through Potentiometer</li> <li>: Provision of On/Off and Polarity Change</li> <li>: Separate Terminals for Solenoid Power Supply Output.</li> <li>•Mains : 230V AC <math>\pm 10\%</math>, 50Hz</li> <li>•Fuse : 500Ma</li> </ul>	01setup
3.	Hydrogen Spectrum setup	Hydrogen Spectrum setup Without telescope	01setup
4.	Measurement of Planck's constant using black body radiation and photo-detector	Digital regulated power supply for Planck Constant measurement Lamp house 12V/21 watt with stand & Terminals Solar Cell With stand Different Color Filter with holder and Stand Wooden Planck	01setup
5.	Photo-electric effect: photo current versus intensity and wavelength of light, maximum energy of photo electron versus frequency of light	Inbuilt variable DC regulated power supply Output 0-1 VDC On board Digital Meters : Voltmeter 0-2 VDC (Digital) Ammeter 0-200 ADC (Digital) Photocell mounted in metal box having Windows for injecting light & also for sliding the various Filters Power requirement : 230VAC 10%, 50Hz Standard Accessories: Three Round Filters of Different Colors (Orange, Green & Blue) Lamp Holder with sixty-watt bulb Power Chord, Patch chords, instruction Manual	02setup
6.	To determine the work function of material of filament of directly heated vacuum diode	DC Regulated power supply of 0-300 volts for Anode Voltage DC Regulated power supply of 0-6 volts for Heater For round meters are mounted on the front panel to measure voltage and current	01setup
7.	To show the tunneling effect in tunnel diodes using I-V characteristics	Inbuilt fixed DC regulated power supply, Output Voltage: +5DC on board Digital Panel meter for measuring V1: x Voltage across resistance R3 V2: Voltage across Tunnel diode Potentiometer & Diode Potentiometer: R1 (current control) Tunnel diode : IN3717 High quality bakelite used as front panel & mounted on light weight shock proof plastic cabinet symbol diagram printed on bakelite front Panel & all important test points are brought out on front panel	01setup

*Handwritten signature and date*  
28.7.23



The supplier should clearly mention his GST% and PAN number

The quotation should be in a sealed cover (Sealed with Cellophane tape) address to the Principal Kalindi College, East Patel Nagar, New Delhi-110008 duly super scribed "QUOTATION FOR PHYSICS LAB"  
The last date of submission of the quotation is **21/08/2023 upto 4 P.M.**

*Monika Bassi*  
28.7.23

(Prof. Monika Bassi)  
T/I Physics Deptt.

Yours sincerely

PRINCIPAL