

MALNAD COLLEGE OF ENGINEERING, HASSAN
(Affiliated to the Visveswaraya Technological University)
(Under the auspices of the Malnad Technical Education Society (R))

No.MCE/Pur/Physics/Components/2025-26/ 1520

P.B.No.21
Hassan – 573202
(Karnataka State)
Date: 18.11.2025

Tender Notification

Dear sir,

Greetings from Malnad college of Engineering Hassan.

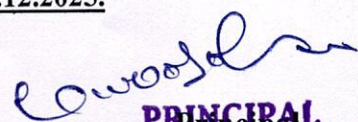
Please be good enough to quote your **lowest prices** for the supply of following “**Lab components**” to use in the **Physics Laboratory** of this College and would like to request a quotation from your end based on the following details:

SL. NO	ITEMS/MATERIAL/INSTRUMENTS	SPECIFICATIONS	JUSTIFICATIONS	REQUIRED NO"S
1	THREE PIN MAINS CHORD (POWER CABLE)	3-PIN POWER CORD (3-CORE CABLE) WITH A VOLTAGE RATING OF 250V (OR HIGHER) AND AN AMPERAGE (CURRENT) RATING OF 5A TO 10A (OR MORE), DEPENDING ON THE APPLIANCE'S WATTAGE AND WIRE LENGTH OF 1.5 TO 2M	FOR POWER SUPPLY TO EXPERIMENTAL KITS	12
2	LABORATORY GLASS MERCURY THERMOMETER	RED COLOUR MERCURY-110°	FOR FOUR PROBE AND FERMI ENERGY EXPERIMENTS.	4
3	ELECTRIC WATER KETTLE	1500ML	FOR FERMI ENERGY EXPERIMENT	3
4	EXPERIMENTAL CONNECTING CORDS BOTH SIDE PIN(MALE)	CORD SIZE 27CM	FOR ELECTRIC CONNECTIONS IN THE CIRCUITS	100
		CORD SIZE 24.5CM		100
		CORD SIZE 20CM		100
		CORD SIZE 15CM		100
5	SOLDERING LEAD	100G	FOR SOLDERING PURPOSE	2
6	GLASS FUSES	0.1A	FOR ELECTRIC KITS SOMETIMES IT WILL BREAKDOWN	25
		0.5A		25
7	LED BULBS	BLUE	FOR PLANCK'S CONSTANT EXPERIMENTS	20
		GREEN		20
		YELLOW		20
		RED		20
		IR		20
8	FUNCTION GENERATOR	KFG201-200KHZ.	FOR RESONANCE LCR CIRCUIT EXPERIMENTS	3
9	MECHANICAL SCREW GAUGE	SCREW GAUGE WITH LC=0.01MM	FOR TORSIONAL PENDULUM AND YOUNG'S MODULUS EXPERIMENTS	2
10	GLASS TEST TUBE	50ML	FOR FERMI ENERGY EXPERIMENT	6
11	WOODEN WEDGES WITH METAL BLADES		FOR SONOMETER EXPERIMENT	5 SET'S
12	GLASS BEAKERS	250ML	FOR FERMI ENERGY EXPERIMENT	6
13	WOODEN MEASURING SCALE	50CM.	FOR SONOMETER EXPERIMENT	6

14	COMPUTER [DESK TOP]	1TB HARD DISK I-7 CORE 62BIT	2 PCS FOR NEWLY JOINED FACULTY AND ANOTHER 2 PCS FOR LABORATORY SIMULATION EXPT	4
15	DIGITAL STOP CLOCK		FOR TORSIONAL PENDULUM EXPERIMENT	3
16	LEG OPERATED AIR PUMP (MADE: STANLEY)	10 BARS	FOR REDY SHOCK TUBE MACH NUMBER EXPERIMENT	1
17	DETERMINATION OF DIELECTRIC CONSTANT BY CHARGING AND DISCHARGING OF A CAPACITOR.	KIT INCLUDING DC POWER SUPPLY, A DIGITAL VOLTMETER, A STOPWATCH, A SELECTION OF CAPACITORS, AND RESISTORS	PREVIOUS KITS WERE NOT WORKING PROPERLY	3
18	DETERMINATION OF PLANCK'S CONSTANT USING LIGHT EMITTING DIODES.	KIT INCLUDING A VARIABLE DC POWER SUPPLY (0-3V OR 0-5V), A DIGITAL VOLTMETER (0-3V RANGE), A DIGITAL AMMETER (LOW CURRENT RANGE, E.G., MA), A SET OF LEDS WITH KNOWN PEAK EMISSION WAVELENGTHS (E.G., RED, YELLOW, GREEN, BLUE)	PREVIOUS KITS WERE NOT WORKING PROPERLY	3
19	DETERMINATION OF RESONANCE FREQUENCY AND INDUCTANCE USING LCR CIRCUITS.	KIT INCLUDING A SET OF VARIABLE R, L, AND C COMPONENTS, AND A DETECTOR (LIKE AN OSCILLOSCOPE OR MULTIMETER) TO MEASURE VOLTAGE, CURRENT	PREVIOUS KITS WERE NOT WORKING PROPERLY	1
20	MEASUREMENT OF ELECTRICAL RESISTIVITY AND ENERGY GAP OF A SEMICONDUCTOR USING FOUR PROBE TECHNIQUES.	KIT INCLUDING A DC POWER SUPPLY WITH VARIABLE CURRENT OUTPUT AND A DIGITAL VOLTMETER, A HEATED STAGE/OVEN WITH A TEMPERATURE SENSOR (LIKE PT100) TO VARY SAMPLE TEMPERATURE UP TO 200°C, A DIGITAL PANEL METER FOR DISPLAYING VOLTAGE AND CURRENT, AND A SEMICONDUCTOR SAMPLE LIKE A P-TYPE GERMANIUM WAFER	PREVIOUS KITS WERE NOT WORKING PROPERLY	1
21	EXPERIMENT OF I-V CHARECTERISTICS OF ZENOR DIODE	KIT INCLUDING VARIABLE DC POWER SUPPLY (0-15VDC/150MA IS COMMON), TWO ROUND ANALOG METERS FOR VOLTAGE AND CURRENT, A SERIES RESISTOR, AND TYPICALLY THREE ZENER DIODES	NEWLY INCLUDED EXPT	3
22	EXPERIMENT OF SPRING CONSTANT	HELICAL SPRING, A RIGID SUPPORT STAND, A WEIGHT HANGER, A SET OF SLOTTED WEIGHTS, A VERTICAL SCALE (E.G., 0-100 CM) WITH A POINTER, THE VERTICAL SCALE'S RANGE AND ACCURACY (LIKE 0.02 MM FOR HIGH-PRECISION VERNIER SCALES), AND THE SLOTTED WEIGHTS' TOTAL MASS (E.G., 5 X 100G).	NEWLY INCLUDED EXPT	3

Please note that the enquiry will be closed by **01.12.2025** without further intimation.

- Rates to be quoted both in figures and words.
- Sealed quotations are to be sent duly super scribed on the top as "Quotation for the supply of "Lab components" to Physics Laboratory without of which their quotations will not be considered.**
- The consideration of the quotations received from suppliers other than listed above will be left to the discretion of the drawing officer.
- The quotation should be valid up to **90** days from the last date ie., **01.12.2025**.


PRINCIPAL
Malnad College of Engineering
Hassan-573 202

NOTE:- 1. You are informed to furnish copy of the GST Number, PAN card, Aadhar card and a passport size photo of Proprietor / partner of the firm along with the quotation.
2. For any clarification contact : HOD of Physics – aap@mcehassan.ac.in,