



KATWA COLLEGE

(Affiliated to the University of Burdwan)

P.O.: Katwa, Dist.: Purba Bardhaman, West Bengal, PIN- 713 130, India.

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Ref. No.: 162/Physics Lab Instrument/KC/PC/2026

Date: 23/09/2026

Invitation of Quotation for Supply of Lab. Instrument for the Department of Physics, Katwa College

Sealed Quotations are hereby invited by the undersigned for Supply of **Lab. Instrument for the Department of Physics**, Katwa College as per terms & conditions mentioned below. The filled quotations along with the entire required document must reach in the office of the undersigned **on or before 08/10/2026, 3:00p.m. (Including holidays).**

Specification of Items

SL	DESCRIPTION	MAKE	Quantity
1	FUNCTION GENERATOR 2 MHz. Digital. Model: DT-FGD2 4 Digit Digital Frequency display. Wave forms : Sine / Square / Triangular. Frequency : 10 Hz to 2 M Hz Output amplitude : Sine / Square / Tria : 0-8V p-p Output impedance : 50 Frequency readout : 4 digit counter	SES/DETECH/ SCIENTIFIC/ OSWA	3
2	FUNCTION GENERATOR 5 MHz. Digital. Model: DT-FG52 4 Digit Digital Frequency display. Wave forms : Sine / Square / Triangular. Frequency : 10 Hz to 5 M Hz Output amplitude : Sine / Square / Tria : 0-8V p-p Output impedance : 50 Frequency readout : 4 digit counter	SES/DETECH/ SCIENTIFIC/ OSWA	2
3	Dual trace DSO 50MHz	METRAVI/SCIENTIFIC	4
4	Amplitude modulation and demodulation trainer kit DT-K-ST8101 is a Basic Communication Trainer System to understand Amplitude Modulation and Demodulation Techniques. Various functional block diagrams are provided on-board for Teaching/Training. This Trainer provides with various Test Points to visualize the signals on Oscilloscope.	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	4
5	AM transmitter and receiver kit. DT-K-ST8200 DSB/SSB AM Transmitter demonstrates the basic concepts of DSB AM generation, DSB AM reception, Diode Detection and calculate the modulation index of DSB by trapezoidal pattern and single sideband. AM generation single SB AM reception & operation of the automatic gain control circuit can also be studied. The DSB/SSB AM Transmitter contains balanced modulator, audio Oscillators & audio amplifier ceramic band pass filter which helps to understand the techniques of DSB & SSB.	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	3
6	FM transmitter and receiver kit. Model-DT-K-ST8203 Frequency modulation demodulation techniques demonstrates frequency modulation techniques. Frequency modulation using varactor modulator, using reactance	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	3



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	modulator operation of detuned resonants circuits & operation of phase lock loop detector, operation of radio detector can be studied efficiently.		
7	Determination of coupling coefficient of piezoelectric crystal. Model: DT-PECRYS Experiment :- To determine the coupling co-efficient of piezoelectric crystal . Technical Specifications: Piezoelectric crystal, five no. crystal of standard value mounted inside a box Resistance box 10- 100 ohm Inductance Box 10- 100 mH Capacitance Box 1nF- 10nF AC Voltmeter 0-10 V and AC Current Meter 0-5 mA Frequency Source 1 Hz- 3 MHz Supplied with Patch Cords Instruction manual	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	3
8	Verification of Stefans' law and determination of Stefans' constant by electrical method	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	2
9	Wien bridge oscillator for given frequency using op-amp Model: DT-K-WB-OA To construct Wein Bridge oscillator on a bread board using OPAMP and to study the wave form of the oscillator and calibrate it using CRO. The trainer contains: (i) I.C regulated power supply (ii) Set of resistances, capacitors etc. (iii) Op Amp Supplied without CRO	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	2
10	Gaussian eyepiece		2
11	Apparatus for study of dispersion relation in a periodic electrical circuit: an analog of monatomic and diatomic lattice vibrations	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	2
13	Apparatus to measure the wedge angle of a glass plate using interference fringes obtained with the help of He-Ne laser	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	1
14	Apparatus to measure the Numerical aperture of an optical fibre	SES/DETECH/INCO/ SCIENTIFIC/ OSWA	2
15	Apparatus for determination of value of e/m by magnetic focusing method. Model: DT-E/M-B Set Up for Determination of e/m by using a Cathode Ray Tube & a Pair of Bar Magnets. Complete with CRT, Power Supply, Magnets, Magnetic disc with fittings etc. No warranty on CRT	SES/DETECH/ OSWA	2
16	Apparatus to study photoelectric effect Measurement of Photo electric effect using photo valve. Model: DT-PEF-PV Complete with:	DETECH /OSWA	2



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Photo valve mounted in box, fitted with high intensity light with illumination control and provided with an AC ammeter to measure current variation of the light source. Set up is complete with DC regulated power supply, 04 different colours of high quality optical filters for wavelength variation, digital microammeter, digital millivoltmeter to measure photocurrent and applied voltage and provision for distance variation of the phototube from the light source. Set of high quality optical filters - set of 04 different colors Black box with scale - arrangement to adjust distance of phototube. Optional : Digital Lux Meter with mounting arrangement to measure intensity of light source at different distance		
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Terms & Conditions:

- The quotations received after this deadline & unsealed shall not be entertained under any circumstances whatsoever. In case of postal delay this Institute will not be responsible. **The offer Submitted Fax/Email shall not be considered and no correspondence will be entertained in this matter.**
- Quotations must be in the enclosed prescribed Performa on the letter head of the firm duly signed by the Proprietor/ Partner/ Director or their authorized representative, In case of signing of quotation by the authorized representative letter of authorization must be attached with the quotation. **Quotation must be dropped in "Quotation Box" located in Administration Block of Katwa College, Katwa.**
- **Rates must be quoted in Indian rupees** and as per the format specified taxes extra if any must be written separately.
- Rates must be quoted for basis (including Freight charges, Insurance, installation, GST etc.).
- No overwriting or cutting is permitted in the rate. If found, the quotation shall be summarily rejected.
- **The rates quoted must be valid for 90 days minimum** from the date of opening of the quotation and silence of any tendered on this issue shall be treated as agreed with this condition.
- Delivery Period: within 30 days from Purchase order.
- Payment Terms: Payment will be made only after satisfactorily delivery / commissioning of material and after inspection by the Katwa College.
- The latest / revised version shall be supplied.
- **The qualifying bidder should supply all items which are listed in awarded purchase order.**

Sd/-
Principal,
Katwa College.