



MAHARAJA AGRASEN COLLEGE

UNIVERSITY OF DELHI
VASUNDHARA ENCLAVE, DELHI-110096

E- TENDER FOR PURCHASE OF APPARATUS/INSTRUMENTS AT MAHARAJA AGRASEN COLLEGE, VASUNDHARA ENCLAVE, DELHI- 110096

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MAHARAJA AGRASEN COLLEGE

UNIVERSITY OF DELHI
VASUNDHARA ENCLAVE, DELHI-110096

No. MAC/2024-25/ADMN

Dated: - 01.07.2024

E- TENDER FOR PURCHASE OF APPARATUS/INSTRUMENTS AT MAHARAJA AGRASEN COLLEGE, VASUNDHARA ENCLAVE, DELHI-110096

E-Tender is invited for Purchase of Apparatus/Instruments at Maharaja Agrasen College, Vasundhara Enclave, Delhi-110096 from empaneled vendors only.

Tender No. MAC/2024-25/ADMN/

Important Dates

Bid Submission Start Date	-	01.07.2024
Pre-Bid meeting	-	08.07.2024
Bid Submission End Date	-	22.07.2024
Date of Bid Opening	-	23.07.2024

- Manual bids shall not be accepted. The bid shall be submitted online only at Central Public Procurement Portal Website: <http://eprocure.gov.in/eprocure/app>.
- The Competent Authority reserves the right to reject any or all the bids without assigning any reason thereof. The decision of the Competent Authority of the College shall be final and binding.

Principal (Offg.)



MAHARAJA AGRASEN COLLEGE

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TERMS & CONDITIONS

1. The bidder(s) should either preferably be manufacturer of base machine / equipment / tool or an authorized business partner / marketing agent / service agent (second preference) of the OEM. In case of authorized business partner / marketing agent / service agent, authorization certificate should be attached along with the tender. Tender(s) must quote including all components integral to a specific item. The brands/models/specifications mentioned are indicative. Equivalent higher configuration products may also be quoted whenever suitable. **It is expected that the tenderer(s) should quote product of renowned company with global presence and acceptance.**
2. The quoted system should be as per the specification and should be 100% compatible with the existing system available in the institute. Prospective tenderer(s) may visit the college with prior appointment for this purpose. The Institute at its discretion may upgrade / modify the specification if required
3. The rate quoted must be inclusive of packing, forwarding, supply, installation, testing, commissioning and handed over in good condition to the Maharaja Agrasen College. GST, insurance, if any must be indicated separately. Educational discount, if any should be indicated clearly. For imported items, Custom duty shall be indicated separately.

3.1 All legal disputes shall be under the jurisdiction of the Delhi Jurisdictions .

3.2 The college reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever and decision of the Competent Authority in the matter shall be final and binding.

NB: Only relevant information (s) need to be submitted/complied with along with quotation(s)

4. Earnest Money Deposit (EMD):

4.1 "EMD at the rate of 4% of the estimated price" to be submitted in the form of NEFT/RTGS. The details of Account are as under: -

- Account No. 481701213
- IFSC: - IDIB000M102
- Bank Name: - INDIAN BANK
- Beneficiary: - Principal, Maharaja Agrasen College

4.2 Tender without earnest money deposit shall be OUTRIGHTLY REJECTED.

5. Each bidder shall submit only one tender.

- 6. Validity of Tender:** Tender shall remain valid for a period not less than 3 months after the deadline date specified for submission.
- 7. Delivery Period:** Delivery period shall be 60-75 days from the date of issuing purchase order.
- 8. Evaluation of Tender:** The college will evaluate and compare the tenders determined to be substantially responsive i.e., which are
- 8.1 Properly signed.
 - 8.2 Conform to the technical specifications, terms and conditions.
 - 8.3 The tender would be evaluated total value wise.
- 9. Submission of Documents:** The Bid should contain the following:
- Printed copy of the brochure/leaflet containing, Make, Model No. and Specifications.
 - Copy of current GST Return along with acknowledgement thereof.
 - Copy of PAN Card.
 - Copy of GST Registration Certificate.
 - Copy of valid registration certificate from State/Central Government.
 - Copy of valid registration certificate of SSI Unit, if any.
 - The tenderer(s) may furnish a list of clients serviced during the last three (3) years along with satisfactory completion certificates.
 - Copy of latest audited statement of accounts.
 - In case of foreign manufacturer, Authorization Certificate.
- 10. Bid Price:** While furnishing the quoted price, the bidder (s) may note the following:
- 10.1 The contract shall be for each item of equipment / instrument as mentioned in the schedule of goods/services. Corrections, if any in quoted price, shall be made by crossing out, initiating, dating and rewriting.
 - 10.2 All duties, taxes and other levies payable by the vendor under the contract.
 - 10.3 **All duties, taxes and other levies payable by the vendor** under the contract shall be included in the total price and Taxes should be quoted separately.
 - 10.4 The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account, except revision of taxes and duties.
 - 10.5 The rate quoted must be both in words and figures.
 - 10.6 The quantity against each item mentioned in the tender may vary according to the actual requirement at the time of placing Purchase Order. **The rates quoted by the bidder should be in Indian Rupees.**
- 11. Award of Contract:** The College will award the contract to the bidder whose tender has been determined to be substantially responsive in terms of technical specifications, terms & conditions and price quoted.
- 11.1 Notwithstanding the above, College reserves the right to accept or reject any bidder(s) and to cancel the bidding process and reject all bids at any time prior to the award of contract.
 - 11.2 The bidder whose bid is accepted will be notified of the award of contract by the College prior to expiration of the tenderer(s) validity period. The accepted terms of the offer shall be incorporated in the purchase order.

12. Performance Security:

- 12.1 Performance security at the rate of 5% of the contract value in the form of account payee demand draft, fixed deposit receipt from commercial bank or Bank guarantee from a commercial bank in favour of Principal, Maharaja Agrasen College shall be submitted within 21 days after the notification of the award of contract. Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the vendor, including warranty obligations. A model format of Bank guarantee for providing performance security is enclosed at Annexure –A
- 12.2 Forfeiture of Performance Security: Performance security is to be forfeited and credited to the Institute Account in the event of a breach of contract by the vendor, in terms of the relevant contract.
- 12.3 Refund of Performance security: Performance security should be refunded to the vendor without any interest, whatsoever, after it duly performs and completes the contract in all respect and beyond 60 days of completion of all such obligations under the contract.

13. Liquidated Damages (LD) Clause for late delivery and late installation:

- 13.1 If the supplier fails to deliver any or all the goods or to perform services like installation, erection, testing, commissioning, or other allied works on or before specified time period mentioned in the purchase order or extended date of completion time granted by institute if any, he shall without prejudice to any other right or remedy available under the law to the institute on account of such breach, the vendor will pay as agreed compensation the amount calculated at the rate stipulated below:
 - 13.1.1 LD Clause for delay of delivery, installation, testing, commissioning, or other allied works will be as follows:- 0.5% of delivered price of delayed goods (or services) for each week or part thereof subject to maximum 10% of contract value.
 - 13.1.2 The same rate of penalty shall be applicable for late installation of the equipment also.

14. Payment: Payment will be made immediately after delivery & satisfactory commissioning of the goods / services and training of personnel. Payment in settlement of the bills will be subject to the deductions of GST at applicable rates under TDS.

15. Normal Commercial Warranty/ Guarantee: Normal commercial warranty/ guarantee of 12 months shall be applicable to the supplied goods/ services and this should be specified clearly by the bidder.

16. Live Demonstration: Live demonstration of the item(s) should be arranged by the vendors at their cost, if asked by the Institute.

17. Demonstration / Service / Repair will be given by the trained engineer from

No. MAC/2024-25/ADMN/

**Maharaja Agrasen College
Vasundhara Enclave
Delhi-110096**

SECTION – 1

(SCOPE OF WORK)

TECHNICAL SPECIFICATIONS

Technical Specifications Physics Lab equipment

S.No	Name of Apparatus/ instruments	Qty
01.	Setup for determination of frequency of an electrically maintained tuning fork by Melde's experiment with a battery eliminator, fractional weight box Structure : A Heavy duty U shape Melde's Unit with heavy iron base & electromagnet. Pulley with Stand. : 1 no. Pan & thread. : 1no. Power Supply : Compatible DC power supply for electromagnet.. Fractional Weight box . Measuring Tape.	02
02.	Setup for determination of the Coefficient of viscosity of water by Poiseuille's method with constant level tank fitted on the app., measuring cylinder, beaker, digital stop watch a travelling microscope	03
03.	Setup for Single slit diffraction using laser, Complete setup with He-Ne laser (2mW, 632.8nm) with power supply, should consist of Optical bench : 1.5 Mtr Long & chrome plated . Pair of Round shape supported feet of Mild steel with levelling screws Knife Edge : 1 no. With holder ; Measuring tape : 1nos Sliding stand : one no. with micrometre screw movement (micro positioner Mount) Diffraction grating : 01 nos. Screen : White screen : 01 no ; Mounts : 05 Nos He-Ne Laser : $\geq 2\text{mW}$ on stand mountable on optical bench with in-built power supply 220V AC & 50Hz for continuous working. Beam adjustment: Up down using screw provided.	01
04.	Digital weighing balance upto 200 gm , Accuracy 10 mg	02
05.	Setup for determination of the elastic constant of a wire by Searle's apparatus two metal bars (with provision wires), Supplied with two test wires. Digital stop watch with telescope	02
06.	Setup to study motion of spring and calculated spring constant and the value of g. Slotted weights with hanger & stop watch	02
07.	To Determine Planck's Constant determination using LED The trainer boards should have Super bright LEDs , LCD/LED Display for current and voltage measurement Variable DC Supply (0-5 Volt); DC Power Supply : 0-5 V LED Type : Super bright ; Size : 5 mm ;Colours : Blue, Green, Orange, Red and Yellow DC Voltmeter 3½ digit LCD/LED ;Multi Range : 200 mV - 200 V DC Ammeter : 3½ digit LCD/LED ;Multi Range : 2 μA - 200 mA Interconnections & Patch Cords : 2mm sockets & 2 mm banana stackable Patch Cords Mains Supply : 230 V AC $\pm 10\%$ (Detachable mains chord to be provided); Fuse : 0.5 A Trainer should be on Legend PCB with no components on the top of board. Housed in a Moulded case with moulded cover on top	02

08.	<p>Setup for Boltzmann's Constant Using Semiconductor diode Trainer Board should consist of :</p> <p>P-N Diode : One ; DC supply : Fixed 5V ; Multiturn potentiometer : 1no. Display : 3.5 Digit DPM for Voltage & 3.5 digit DPM for Current Mains Supply: 220V/50 Hz</p>	02
09.	<p>Digital Storage oscilloscope & Function Generator</p> <p>Oscilloscope : No of Analog Channels : 02, Bandwidth : 50 MHz Display : 7-inch WVGA color LCD display with 15 horizontal divisions Sampling Rate : 1 GS/s sample rate on all channels simultaneously Record length : 20k point record length on all channels Input sensitivity range : 1 mV/div to 10 V/div with Vertical zoom to Vertically expand or compress a live or stopped waveform Input impedance 1 MΩ \pm2 % in parallel with 14 pF \pm2 pF Acquisition modes : Sample ,Peak Detect , Average , Hi-Resolution & Roll mode Timebase Range : 2 ns/div to 100 sec/div with Horizontal zoom to Horizontally expand or compress a live or stopped waveform. Timebase Accuracy: 25ppm; Advanced triggers include pulse, runt, and line triggers 32 automated measurements, Dual window FFT with simultaneous time and frequency domain views ,Trigger frequency counter ,Pan and Zoom capability Multi-language user interface ,Fan less design contributes to low noise operation Interface: USB Host & device , Help Menu selection facility for on-screen tips for users Mains Supply : 100 to 240 VAC RMS \pm10% 45 Hz to 65 Hz Built-in oscilloscope handbook for operating instructions and oscilloscope fundamentals should have integrated courseware feature for lab exercise/Experiment guidance on the display . Facility to Disable Autoset, Cursors, and Automated measurements to help students to learn basic concepts of Oscilloscope.</p> <p>10 MHz DDS Function Generator : DDS technology, Sine wave Frequency upto 10MHz Sampling rate upto 125MS/s sample rate, 8 K Arbitrary waveform length Frequency resolution : 1 μHz Vertical Resolution : 14 bits 5 basic waveforms and 45 built-in arbitrary waveforms 4" high resolution colour LCD Display USB Interface Mains Supply : 220 -240 VAC/50 Hz Accessories : BNC-BNC Cable, Mains Cord & USB Cable Manufacturer should have service center in India</p>	15
10.	<p>Spectrometer (LC 1 minute)</p> <p>Adjustment of entrance slit should be provided ; Prism table (brass) for accurate component placement ;Graticule Eyepiece Wide aperture optics ; Rack and pinion arrangement focusing Durable and precise construction</p> <p>Technical Specifications : Base Type : Cast iron Circle ; Diameter : 175 mm. (7") Scale Type : Brass ; Main scale : 0 - 360$^{\circ}$; Vernier scale : 30 div Collimator : Tube length : 160 mm ; Focal length of Achromatic lens : 175 mm. (Approx.) Telescope : Tube length : 185 mm. Focal length of Achromatic lens : 175 mm. (Approx.)</p>	02
11.	Experiment setup to study coupled oscillator	02
12.	<p>To determine wavelength of sodium light using Fresnel Biprism without sodium Lamp</p> <p>The setup should consist of ; Optical bench : 1.5 Mtr Long having both steel CP rod heavy quality(dia. 19mm), one rod should be engraved & graduated scaling with 150 cm & other rod should be plane. Both rods should be made</p>	02

	<p>of steel & chrome plated .</p> <p>Accessories : Pair of Round shaped supported feet of MS material with levelling screw, four uprights out of which two are fixed riders & other two movable riders</p> <p>Bi-Prism Assembly : should be Made up of brass parts in heavy quality</p> <p>Bi-Prism Holder with fine radical motion by a fine screw Three adjuster jaws arrangement with metallic platform(for holding biprism) & centre hole.</p> <p>Lens Holder : Aluminium frame with fixed & adjuster arm.</p> <p>Micrometer Eyepiece : Ramsden's Eye-piece 10 X fitted on metallic frame with micrometric motion with LC-0.01 mm. Optical Slit : Metallic frame with fitted screw adjuster slit non micrometric motion.</p>	
13.	Mercury Lamp with Transformer and box 80 W housed in wooden casing	02
14.	Sodium Lamp with Transformer and box 55W housed in wooden casing	02
15.	Extension cord 16 amp with 4 sockets	04
16.	<p>Experiment setup to determine Mechanical Equivalent of Heat, J, by Callendar and Barne's constant flow method</p> <p>The set up consists of the following:</p> <ol style="list-style-type: none"> 1. Callendar and Barne's apparatus 2. Constant level bath with stand. 3. Battery Eliminator, 2-12V D.C. in steps 4. D.C. Ammeter, 65mm round dial, mounted on Bakelite stand 5. D.C. Voltmeter, 65mm round dial, mounted on Bakelite stand 6. Digital Stop Clock 7 Two thermometers 110 degree <p>B. Beaker, rubber tubing & Connecting wire</p>	02
17.	<p>Measurement of Planck's constant using black body radiation</p> <p>The setup should consist of :</p> <p>One Photovoltaic cell</p> <p>One lamp house with tungsten lamp 6V/18W</p> <p>One low voltage DC power Supply with Digital Voltmeter & Microammeter</p> <p>Mains Supply: 220V/50Hz</p>	01
18.	<p>Trainer Board to determine Stefan's Constant by electrical method</p> <p>Trainer Board should have :</p> <p>on board ammeter, voltmeter & variable resistance & small electrical bulb & Variable DC Supply</p> <p>Voltmeter : 0 -10V ; Ammeter : 0 - 500mA</p> <p>Bulb : Type : DC bulb (small)</p> <p>Operating Voltage : 12V DC ; Variable Resistance : 1kΩ</p> <p>Mains Supply : 230 V AC \pm10% (Detachable mains chord to be provided); Fuse : 500 mA</p> <p>Trainer should be on Legend PCB with no components on the top of board. Housed in a Moulded case with moulded cover on top</p>	02
19.	<p>Experiment Setup to determine the coefficient of thermal conductivity of Cu by Searle's Apparatus</p> <p>The apparatus comprises of copper bar 25mm in diameter and 300mm in length fitted with steam jacket heater at one end to be supplied from a steam boiler and a copper water cool spiral at the other end. The bar has tubes for inlet of water and for thermometers Fitted in superior quality case and packed with material for thermal insulation to avoid any heat loss. The wooden case structure should be in such a form , provided with hinges so that front can be opened to show its construction. The complete setup should be provided with :</p> <p>Searle's setup - 1no. ; Thermometers 110 degree - 4nos.; Steam Boiler - 1no. ;Stop watch - 1no. Hot Plate - 1no. ; Screw gauge - 1 no ; Constant level tank - 1no.;Rubber pipe - 1 roll</p>	03
20.	<p>Experiment Setup to determine the coefficient of thermal conductivity of Cu by Angstrom's Method</p> <p>Setup should consist of</p> <p>Metal : Copper Rod (Diameter : 1inch ; Length : 24 inch approx. with equal distance holes for thermometer . Thermometer : 3 nos. (110 degree) ;Stop watch : 1no. ;Heating control unit : 1no</p>	02
21.	To determine the coefficient of thermal conductivity of a bad conductor by Lee and Chariton disc method	01

	<p>Setup should consists of Lee's Disc setup - 1 no. ; Thermometers 110 degree - 2nos. ; Steam Boiler - 1no. Stop watch - 1no Hot Plate - 1no. ; Vernier calliper - 1no. ; Rubber pipe - 1 roll ; Suitable samples</p>	
23.	<p>Experiment setup to determine the temperature co-efficient of resistance by Platinum resistance thermometer Setup should consist of: Callendar & Griffith's bridge (Dial type) with on board Rotary dial ; dial with x1r is provided having 10 steps leading to total resistance of the dial to 10 Ω Circular scale Dial : Slide wire arrangement of 1Ω is provided on the panel having scale with centre zero divided into 100 equal parts for precision measurement of resistance Current Terminals : Two terminals marked with C1 should be provided on the bridge for connection of current terminals of platinum resistance thermometer Potential Terminals : Two terminals marked with P1 should be provided on the bridge for connection of potential terminals of platinum resistance thermometer Galvanometer : Two terminals marked with galvo should be provided on the panel to connect galvanometer to read out null position Low resistance galvanometer with 50-0-50 scale is supplied with the Setup Battery : Battery eliminator 1-10V/2A should be provided with the setup to connect with the terminals marked with battery on the panel Key : One press key should be provided on the panel to bring battery in the circuit Heater : 1no. for heating ; Copper Pot : 1no. for heating platinum resistance Thermometer Thermometer : 1no. 110 degree</p>	01
23.	<p>4000 counts Autorange Digital Multimeter with Terminal Shutter Blocking AC/DC Voltage Range : 100 mV to 1000V with best resolution of 100 μV AC/DC Current Range : 40 mA to 10A with best resolution of 10 μA Resistance Range : 400 Ω to 40 MΩ with best resolution of 100 mΩ Capacitance Measurement : 5 nF to 200 μF with best resolution of 1pF Frequency Range : 10 Hz to 500 KHz with best resolution of 0.001Hz Display: 4000 counts Backlit LCD with 3 measurements/s Display Size : 58 mm X 31.4 mm ; Main Character height : 15 mm Facility for Continuity & Diode Testing Other functions: Data hold, relative Measurements , Duty Cycle Measurement Terminal Shutter Blocking & Auto power off Protection from Dust & Water : IP52 for Instrument & IP 20 for Terminals Safety: 600 V CAT III/1000V CAT II as per International Safety standard IEC 61010-1- 2010 Battery : 2 X 1.5 V Cells</p>	10
24.	<p>Multiple output Power Supply Power supply Should have : Constant Voltage & Constant Current operation ;Digital display for voltage & current Adjustable current limiter ;Protection Against over load & short circuit Outputs : Output 1 : 0 to 30V / 2A ; output 2: 0 to = 15V / 1 A Tracking ;Output 3: 4.5 to 5.5V / 5A Settling Resolution V : 10mV, I : 5mA Load Regulation $\leq \pm (0.05\% + 10mV)$; Line Regulation $\leq \pm (0.05\% + 10mV)$ Ripple & Noise $\leq 1mV_{rms}$; Internal Resistance $< 10m\Omega$; Stability $\leq 2.5mV$ at full load ; Recovery Time $\leq 50\mu s$ Temp. Coefficient $\leq \pm (0.05\% + 10mV/^{\circ}C)$ Current Limit adjustment 100mA to max Display Switchable 3 digit seven segment LED for Voltage & Current Display Accuracy V : $\pm (1\% + 1 \text{ digit})$, I : $\pm (1\% + 3 \text{ digit})$ Protection : Built in overheat, Over voltage protections Insulation: Between chassis & output terminal $> 10M\Omega$ at 100VDC, chassis & AC plug $> 50M\Omega$ at 500VDC Mains Supply : 230V AC $\pm 10\%$ / 50Hz</p>	10
25.	<p>Hall Effect Apparatus with power supply and probe with LCD display</p>	02

The Setup Should Consist of :

Hall Probe :

Contacts : Phosphor Bronze Adjustable

Hall Voltage : 0.01-0.1 Volt /10mA/KG T; Resistivity : $\approx 10\Omega \text{ cm}$

Constant Current Power Supply for Hall Probe

Digital Millivoltmeter : 0-200mV, 0-20mA

Accuracy : $\pm 0.1\%$ of the reading ± 1 digit ;Load Regulation : 0.03% for no load to full load.

Display : 16 X 2 micro controller based Backlit Alphanumeric LCD for Simultaneous display of mV and mA .

Power Supply For Electromagnet

Constant Current Power supply 0 - 4Amp.

Display : 16 X 2 micro controller based Backlit Alphanumeric LCD for current measurement.

Allow Long time operation with current continuously Variable.

Electromagnet : Coils : 500 turns. ; Coil Current : 4.5Amp (Max.)

Connection : 4mm safety socket. ;

U Core : 150 X 130mm (LxH) ; , 40 X 40mm cross section.

I Core : Length=150mm, 40 X 40mm cross section.

Core material : Ferromagnetic. ; Base dimension : 360 X 180 X 33mm

Digital Gauss Meter

Range : 0-2 K Gauss & 0-20 K Gauss ; Resolution : 1Gauss at 0-2K Gauss range ;Accuracy : 0.5%

Display : 16 X 2 micro controller based Backlit Alphanumeric LCD for gauss measurement

Power supply : 230V , 50Hz

No. MAC/2024-25/ADMN/

**Maharaja Agrasen College
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SECTION – 2

(Financial Bid)

Financial Bid (BOQ)

AS PER BOQ

**Signature & Seal of Firm/Vendor
Name of the Company, Email ID & Mobile No.**

ANNEXURE - A

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

To
The Principal, Maharaja Agrasen College

WHEREAS

(name and address of the supplier) (herein after called “the supplier”) has undertaken, in pursuance of contract no. dated to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee; NOW THEREFORE we hereby, affirm that we are guarantors and responsible to you, on

Behalf of the supplier, up to a total of

..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the day of... 2024.

(Signature of the authorized officer of the Bank) Name and designation of the officer
Seal, name & address of the Bank and address of the Branch