

हिन्दू महाविद्यालय
(दिल्ली विश्वविद्यालय)

दिल्ली – 110007

दूरभाष: 011-27667184

फैक्स: 011-27667284

ई-मेल: principal@hinducollege.org

www.hinducollege.ac.in



Hindu College

University of Delhi

Delhi – 110007

Phone : 011-27667184

FAX : 27667284

E-mail : principal@hinducollege.org

www.hinducollege.ac.in

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NOTICE INVITING QUOTATIONS

Hindu College, University of Delhi, Delhi invites sealed quotations from the eligible registered Companies / Manufacturers / authorized dealer for the purchase, installation and testing of following equipment under the DBT star college Grant. The sealed quotations (Technical bid and Financial bid sealed in separate envelope) should reach the undersigned on or before 18-01-2023 at 5:00 PM by registered post/courier or by hand addressed to **“The Principal, Hindu College, University of Delhi, Delhi-110007”**. The technical specifications of the equipment are placed at enclosure 1.

Further, the sealed quotations should clearly mention on the top of the envelope “Quotations for the Purchase of Equipment under DBT STAR COLLEGE SCHEME” and Quotations should be on the letter head of the company with reference no. and date.

S. No	Name of the product/item	Quantity
1.	Magnetic Stirrers	08
2.	Micro weighing Balance	01
3.	pH Meter	08
4.	Digital Conductivity Meter	03
5.	Colorimeter	05
6.	Microwave Oven	01
7.	Spectrophotometer (UV/VIS)	01
8.	FKG 610 Single door Laboratory Refrigerator	01
9.	Digital Storage Oscilloscope	02
10.	Electrical Machine Trainer	01
11.	Multipurpose cutting Machine	01
12.	Sonicator with temperature controller	01
13.	Electromagnet with measuring unit	01
14.	Function Generator	05
15.	Microscope with camera	03
16.	Biosafety cabinet	01
17.	Water bath shaker	01
18.	Sonicator Machine	01
19.	Microscope image projection system	01
20.	Spirometer	01
21.	Leaf area meter	01
22.	B.O.D. Incubator	01
23.	Microscope	04

Prof Anju Srivastava

The Principal,

Hindu College,

University of Delhi, Delhi-110007

Prof Reena Jain

DBT Star College Coordinator,

Hindu College, University of

Delhi, Delhi-110007

General Terms and Conditions:-

1. The firms having credentials of supplying these instruments/chemicals will be eligible for the same. The firms should have valid PAN / Goods and Services Tax registration number (copies are to be enclosed). Performance certificates from reputed institutes like IIT, central universities etc.
2. The Firms which have already completed at least three similar work of value Rs 15 lakhs and above in each contract in Govt., Semi Govt. Govt undertaking and Govt Autonomous Organizations / Private Institutions/University/College will be eligible.
3. The firm must provide experience of last five years, at least for similar work.
4. An undertaking that the agency hasn't been blacklisted by Central/ State/ U.T. Government and there has been no conviction against any government department/university.
5. Undertaking that no near relative is employed in the college/Institute. If found, at the later stage the tender may be cancelled, without notice.
6. Financial standing through latest I.T.R. , Annual report (balance sheet and profit and loss Account) of last 3 years (duly signed and stamped by the charter accountant)
7. Acceptance of other terms and condition as worked out at the time of signing or work order.
8. Price/Financial bid to be item wise.

Submission of Quotations /Bid:

- a) Each bidder should submit sealed quotations (in two separate part i.e. Technical(Part -1 and Financial (Part -2) in separate envelopes.
- b) The following documents will form the technical part of the bid (Photo copy duly self-attested to be compulsorily enclosed)
 1. Establishment/Firm Registration certificate.
 2. Current Return of Income tax.
 3. Goods and Services Tax registration
 4. Commercial Tax Clearance Certificate.
 5. Certification of authorization of the company.
 6. Details of work experience.
- c) The financial Bid (Part-2) will only be opened if the bidder's Technical bid is found in order. The financial bid shall consist of only Rate/Price on the company's firm letter pad. All the column and requisite information must be filled in the proper format. Bidder must quote the item wise price inclusive of all taxes.

Validity Quotation:

Quotation shall remain valid for a period only for 90 days after the dead line date specified for submission.

Evaluation of Quotations:

The purchaser will evaluate and compare quotations determined to be substantially responsive i.e.:

- a. Are properly signed with stamped and
- b. Confirm to terms, conditions, specifications and qualifications conditions.

Award of Contract/Work Order:

The purchaser will award the contract/ work order to the bidder whose quotations has been determined to be substantially responsive and who has offered the lowest evaluated quoted price.

1. Not with-standing the above, the purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of the contract without any notice whatsoever.
2. The bidder whose bid is accepted will be notified of the award of contract by the purchaser. The terms of the accepted offer shall be incorporated in supply order. The validity period may be extended by the purchaser by another 15 day in exceptional cases only with prior permission with the purchaser.

Other Terms and Conditions:

- a) Hindu college reserves the right to Proponed/Postponed/Cancelled the bid or makes any changes during the tendering process, the bidder will have to abide with the decision.
- b) Payment shall be made after the supply and submission of bills which will be subject to satisfactory performance (certificate by the committee constituted for the purpose). Organizing Committee will certify the quality and quantity of the items supplied/ works done as per specifications and recommend accordingly the extent of payment.
- c) No preference will be given to any bidder of class of bidders, either for the price or for other terms and conditions.
- d) Quotation may be submitted on printed letter head of the bidder in the prescribed format supplied with IFQ.

- e) Successful bidder will have to enter into agreement with Hindu College for timely execution of the purchase order
- f) No payment will be made for any damage of goods supplied.
- g) Liquidated damages provisions for damages shall be included in conditions of the contract when delays in delivery of goods, completion of work or failure of the goods or works to meet performance requirements would result in extra cost or loss of revenue or loss of other benefits to the implementing agency.
- h) **NO ADVANCE PAYMENT:-**No advance payment shall be made on any account to the vendor. All payments will be processed on successful completion of the work, subject to satisfactory supply of goods and services, deficiency in services, supply of goods will be recovered from the amount payable to the vendor.
- i) **DELIVERY PERIOD: Instruments/chemicals should be supplied within a period of four weeks' time from the date of supply order, failing which a penalty clause of 1.0 % per week of total order shall be imposed/ recovered.**

Description of the product/items

Item No.1: Magnetic Stirrers and Number of Units: 08

Technical Specifications:

Max. stirring capacity (Water): 2 L Liters, and speed display: LCD, Heating capacity 300 W, Temperature range +5 to 350 °C with accuracy of 1 °C, speed range 100- 1500 rpm along with SS top plate. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Borosil, Remi etc.

Item No.2: Micro weighing Balance and Number of Units: 01

Technical Specifications:

Readability (g): 0.0001, repeatability (+/- g): 0.0001 and typical stabilization time is 2 second, Minimum sample weight: 0.12 g and Maximum weighing capacity: 220 g along with Colored touch screen. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Sartorius, Mettler Toledo etc.

Item No.3: pH Meter and Number of Units: 08

Technical Specifications:

Graphical display having auto temperature compensation, range 0.00 to 14.00 pH, resolution 0.1, auto buffer recognition with data storage facility up to 1000 samples. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Labtronics, Mettler Toledo, EU Tech etc.

Item No.4: Digital Conductivity Meter and Number of Units: 03

Technical Specifications:

Auto ranging, digit LED display with facility for temperature compensation, digital cell constant adjustment along with conductivity cell. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Labtronics, Mettler Toledo, EU Tech etc.

Item No.5: Colorimeter and Number of Units: 05

Technical Specifications:

Nine (09) digital filters with automatic zero setting with finger touch, Range 400 to 700 nm with digital wavelength selection. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Labtronics, Mettler Toledo, EU Tech etc.

Item No.6: Microwave Oven and Number of Units: 01

Technical Specifications:

Stainless steel heating chamber, Volume capacity 27 L, Grill Heating Power: 201-250 W, Heating time adjustment: 4 Pitch second with convection heating and touch control pannel along with adjustment of microwave power. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like LG, Blue star etc.

Item No.7: Spectrophotometer (UV/VIS) and Number of Units: 01

Technical Specifications:

Single beam, Microprocessor, Range 190-1100 nm, sample holder with 4 position selector control for 10 mm path length cuvettes with software. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Thermo Fisher Scientific, Labtronics, EU Tech etc.

Item No.8: FKG 610 Single door Laboratory Refrigerator and Number of Units: 01

Technical Specifications:

Fiber metal with Storage Capacity of 600, single door along with 5 shelves, temperature range +2 to +8 °C along with manual defrosts. Equipment should be from one of the leading manufacturers having experience in making these kinds of instruments like Celfrost, LG, Blue Star etc.

Item No.9: Digital Storage Oscilloscope and Number of Units: 01

Technical Specifications:

Support two channel with 7" colour display with 800×480 wide video graphics array, with 1 GSa/s as Real time sample rate, must support Edge, Pulse width and slope trigger mode, able to support USB and local file storage.

Item No.10: Electrical Machine Trainer and Number of Units: 01

Technical Specifications:

It should have the following features

1. 2HP, 220V DC motor of variable speed controlled through armature voltage used as prime mover for generator assemblies.
2. Main unit consisting of assemblies fitted with parts such as shaft, coils, wound armature, pole pieces, stator, rotor, brush gear etc. which can be easily assembled or dismantled but are mounted on a plate with bearing, housing, armature bodies fixed to it.

Assembly 1: 3phase and single-phase Winding and connection study motor with variable no. of poles 0.5 HP, 1500RPM synch. 400 / 230 V, 50 Hz ,3 phase.

Assembly2 Rotating field type AC Generator / Auto synchronous motor 0.5 HP, 400 / 230 V 1500 RPM approx.

Assembly 3 0.5 HP, 220 V approx.

3. Friction Brake Dynamometer (Pronney Brake Loading Arrangement).
4. Power Supply Unit: Variac / Thyristor controlled DC output 220 V for prime mover speed, Variac controlled DC excitation
5. Metering Panel: Measuring of voltages and current on MI (AC Machines) and MC (DC Machines) instruments, Lamp load with switches
6. Variable speed DC shunt Motor with speed control through variac (2HP, 8 Amp, 220 V, 1500 RPM variable) The prime mover serves as the mechanical drive for performing various experiments of generators AC & DC.

Item No.11: Multipurpose cutting Machine and Number of Units: 01

Technical Specifications:

Must have minimum power of 1700 Watt.

Item No.12: Sonicator with temperature controller and Number of Units: 01

Technical Specifications:

Tank Capacity:3Litre, Ultrasonic Power:150W, Heating Power:300W, Time Setting:1-99min, Temperature Setting:0-80°C, Frequency:40KHz

Item No.13: Electromagnet with measuring unit and Number of Units: 01

Technical Specifications:

Pole of electromagnet must be made from dead annealed soft iron blocks, Air gap must be variable up to 70–100 mm and adjustable through two-way knobbled wheel screw adjusting system, field intensity of 10-12 KGauss at 10 mm air gap with flat pole pieces, Coils must be made of copper with resistance of 12-ohm, Power requirement would be 0-90 Vdc with when 3A current when connected in series.

Item No.14: Function Generator and Number of Units: 05

Technical Specifications:

Duty Cycle available from 10% to 90% variable, Output Waveforms generated are sinusoidal, triangle, square, Ramp, pulse, TTL (Sync) & DC Outputs., Sine Distortion must be less than 1% , Frequency Range available must be 0.01Hz to 1MHz in 8 decade ranges with display of frequency, Square Wave Rise / Fall Time must be less than 75nsec, Frequency Indication : $\pm 1\%$ ± 1 digit, Maximum Output amplitude 20Vp-p , Output Impedance : 50 ohms $\pm 5\%$, DC offset of ± 10 Volts into open circuit, Must have two step attenuator of 20dB, 40dB & 20dB continuously variable through fine level control with accuracy of ± 0.5 dB per 20dB at 1KHz. Power of the function generator 230V, 50Hz.

Item No.15: Microscope with camera and Number of Units: 03

Technical Specifications:

Digital Camera of 5 MP, Glow of LED should be gradual, Mechanical Stage should have X & Y movement with travel range of 50 mm X 76 mm & stage size of 125 X 145 mm, The resolution of the camera should be 2594 X 1944 pixel, Image can be projected on the screen, Live images can be recorded and stored with good storage, The magnification should be more than 1000X.

Item No.16: Biosafety cabinet and Number of Units: 01

Technical Specifications:

4x2x2 feet, SS body, HEPA filters, Burn unit.

Item No.17: Water bath shaker and Number of Units: 01

Technical Specifications:

Ambient +2°C to 100°C, Orbital 20-400 rpm, Capacity of 10 liters of chamber volume, shaking at variable speed, Temperature control unit, Test tube holding mash

Item No.18: Sonicator Machine and Number of Units: 01

Technical Specifications:

Tank Capacity: 3Litre, Ultrasonic Power: 150W, Heating Power: 300W, Time Setting: 1-99min, Temperature Setting: 0-80 °C, Frequency: 40KHz

Item No.19: Microscope image projection system and Number of Units: 01

Technical Specifications:

- Suitable for Image Analysis, Documentation and Archiving in Microscopy in the field of Life Sciences.
- Upright bright field, analogue bench top microscope upgradable to digital system for tablet/ smartphone compatibility/ image projection system (with 100% field of view without lag, image saving, video recording, micrometric features for measurements, presentations catering to large audience; teleteaching)

Item No.20: Spirometer and Number of Units: 01

Technical Specifications:

- Recording Spirometer
- Capacity: 6L, with a unit of 4-speed electric recording Kymograph; gravity writing ink-pen.
- Easily accessible valves, soda-lime container with screw connections in central chamber drain cocks to all tubes and containers
- Sampling cock for connecting the patient to the Spirometer/ atmosphere

- Wide bore airways, lightweight, perfectly counterpoised gas bell, and a low-inertia recording device.

Item No.21: Leaf area meter and Number of Units: 01

Technical Specifications:

- High-resolution laser scanner, data logger, and display should be all enclosed in a single, hand-held palette lightweight unit.
- Fast, non-destructive measurements
- Measurements to be precise/ accurate
- Should be durable and lightweight
- Should be ideal for field use

Item No.22: BOD incubator and Number of Units: 01

Technical Specifications:

- Capacity: 180 L
- Double Walled with Inner S.S. 304 Outer M.S. Duly Powder Coated
- Full view inner glass door.
- Lock & Key arrangement,
- Temp. range 5°C to 60°C
- LED light illumination system inside the chamber
- Supplied by wire mesh trays for uniform temp.
- Complete with Cord & Plug to work on 220 Volts A.C.
- Photoperiod timer

Item No.23: Microscope and Number of Units: 04

Technical Specifications:

- Binocular Laboratory Microscope for UG students
- Seidentopf observation head for individual choice of adjustment. Siedentop inclined 30°, Rotatable 360°
- Eye piece of 5X & 10X, Objective 5X, 10X & 45X & 100X oil immersion.
- High performance aspheric lenses in the abbe condenser & light relay system for bright & uniform illumination

HINDU COLLEGE,
UNIVERSITY OF DELHI, DELHI

PROFORMA QUOTATION FOR PURCHASE OF INSTRUMENTS/ CHEMICAL

(To be attached with Technical Bid)

1. Name of the organization with -----
Particulars of proprietor -----

2. Whether registered or not if yes, -----
furnish registration number -----
(copy of the same to be enclosed) -----

3. Address, Landline number and -----
Mobile number -----

4. Experience in Field -----

For the past 05 years (give details -----
and attach certificates, if any) -----

5. In case of OEM/Sole -----
supplier/Authorized Vendor, -----
certificate to this effect to -----
enclosed -----

Hindu COLLEGE, University of Delhi

Performa for Technical Bid (Part 1)

S.No.	Particulars	To be filled by the tenderer
1.	Name of the agency	
2.	Date of establishment of the agency	
3.	Detailed office address of the agency with office Telephone number, and mobile number and name of the contact person	
4.	Whether the firm Is registered under company act, partnership or proprietorship.(copies to be enclosed)	
5.	PAN/TAN /Number copy enclosed.	
6.	GST Registration Number (Copy to be enclosed).	
7.	Attested copy of return of last month/quarter as the case may be submitted.	
8.	Attested copies of IT returns of last three years.	
9.	Whether firm is blacklisted by any government department or any criminal case is registered against the firm or its owners/partners anywhere in India.	
10.	Experience in dealing with Govt. Departments/University/PSU/CABs attaches copies of supply orders placed on the agency.	
11.	Whether bid document of all pages of the terms and conditions duly signed, in token of acceptance of the same is attached.	
12.	Whether agency profile is attached?	

Place:

Signature of the Bidder

Date:

Company/ Firms's Seal

Hindu COLLEGE, University of Delhi**FINANCIAL BIDS (Part 2)*:**

S. No	Name of the product/item	Quantity	Unit Rate	Amount
1.	Magnetic Stirrers	08		
2.	Micro weighing Balance	01		
3.	pH Meter	08		
4.	Digital Conductivity Meter	03		
5.	Colorimeter	05		
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7.	Spectrophotometer (UV/VIS)	01		
8.	FKG 610 Single door Laboratory Refrigerator	01		
9.	Digital Storage Oscilloscope	02		
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15.	Microscope with camera	03		
16.	Biosafety cabinet	01		
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18.	Sonicator Machine	01		
19.	Microscope image projection system	01		
20.	Spirometer	01		
21.	Leaf area meter	01		
22.	B.O.D. Incubator	01		
23.	Microscope	04		
	GST			
	Grand Total			

***To be submitted in tabular form, item wise, cost wise in Indian rupee. No Installation Cost/ Hidden Cost.**

Place:

Signature of the Bidder

Date:

Company/ Firms's Seal