OFFICE OF THE PRINCIPAL

BARKHETRI COLLEGE

NARAYANPUR, MUKALMUA

Dist- Nalbari: Assam- 781126

NAAC Accredited with 'B' Grade

Dr. Birinchi Choudhury, MA, Ph.D, M.Phil, (UGC) SLET
I/C Principal cum Secretary

Website:www.barkhetricollege.ac.in
Email:barkhetricollege@yahoo.in

Ref No. BCNM / Tender / 2677/2025

Date: 10.10.2025

NOTICE INVITING TENDER

Sealed quotations are invited from reputed **Vendors / Manufacturers / Dealers**, possessing valid **GSTN registration**, for the **supply of practical instruments and two (2) Desktop Computer** at the premises of **Barkhetri College**, Narayanpur, Mukalmua, Nalbari.

The details of the required items are as follows

Higher secondary practicals	Quantity
1. Use of Vernier Callipers (i) To measure diameter of a small spherical/cylindrical body. (ii) To measure dimensions of a given regular body of known mass and hence find its density. (iii) To measure internal diameter and depth of a given beaker/calorimeter and hence find its volume.	5 piece
2. Use of screw gauge. (i) To measure diameter of a given wire. (ii) To measure thickness of a given sheet. (iii) To measure volume of an irregular lamina.	5 piece
3. To determine radius of curvature of a given spherical surface by a spherometer.	5 piece
4. To find the weight of a given body using parallelogram law of vectors.	3 piece
5. Using a simple pendulum, plot L- T and L-T^2 graphs. Hence find the effective length of asecond's pendulum using appropriate graphs.	3 piece
1. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.	2 piece
2. To determine the surface tension of water by capillary rise method	3 piece
3 (i)To study the relation between frequency and length of a given wire under constant tension using sonometer. (ii)To study the relation between the length of a given wire tension for constantfrequency using sonometer	3 piece
3 To find the speed of sound in air at room temperature using a resonance tube by tworesonance position.	3 piece

Barkhetri College
Narayanpur, Mukalmua
Date

FYUGP BSc 4th semester programme (NEP based)		
Course name	**Practicals**	**Quantity and Specification**
1. Mathematical Physics	Use computer programming to i. Solve differential equation ii. Perform matrix multiplication iii. Compute eigenvalues and eigenvectors iv. Find the solution of partial differential equation	**Quantity: 2 Two Desktop computers** Display: 24 inch RAM: 8 GB DDR5 Processor: i5 processor / i3 procesor 256 GB SSD C drive *Storage: 1 TB* OS: Microsoft windows (licensed) Office: MS office (licensed) UPS: 2

FYUGP BSc 5th semester programme (NEP based)			
Course name	**Practicals**		**Quantity**
1. Condense Matter Physics	i.	To determine the Coupling Coefficient of a piezoelectric crystal	1
	ii.	To determine the B-H curve of Fe using solenoid& determine energy loss from hysteresis	1
2. Electromagnetic Theory	i.	To verify the law of Malus for plane polarised light	1
	ii.	To determine the specific rotation of sugar solution using Polarimeter	1
	iii.	To verify the Stefan's law of radiation and to determine Stefan's constant.	1
	iv.	To determine the wavelength of laser source using diffraction from double slits.	1
3. Heat and Thermodynamics	i.	To determine specific heat of a liquid using calorimeter	1
	ii.	To determine the mechanical equivalent of heat, J using calorimeter	1

FYUGP BSc 6th semester programme (NEP based)			
Course name	**Practicals**		
1. Digital Electronics	i.	To verify and design AND, OR, NOT, and XOR gates using NAND gates.	1
	ii.	To design a combinational logic system for a specified Truth Table.	1
	iii.	To convert a Boolean expression into a logic circuit and design it using logic gate ICs.	1
	iv.	To design a Half Adder and Full Adder	1

10/12/24
Principal
Barkhetri College
Narayanpur, Mukalmuam
Date

Terms & Conditions:

1. **Submission Deadline:**
   Quotations must be submitted **within 10 (ten) days** from the date of publication of this notice on the college website.
2. **Mode of Submission:**
   Quotations may be submitted either:
   - **Via Email:** barkhetricollegequotations@gmail.com
   - **Hard Copy:** In person or by post to:
     The Office of the Principal,
     Barkhetri College, Narayanpur, Mukalmua, Nalbari.
3. **Quotation Must Include:**
   - Detailed specifications of the items.
   - Total price including all applicable taxes.
   - Terms and conditions of delivery and installation.
   - Warranty details (**Minimum one-year warranty required**).
4. All items supplied must be **of high quality and from reputed brands**.
5. Vendors are requested to quote the **best possible price and terms**.
6. Any matters not covered under the above clauses shall be governed by the **rules and decisions of the College Authority**.

10/10/25

Sd/-
Principal
Barkhetri College, Narayanpur, Mukalmua

I/C Principal
Barkhetri College
Narayanpur, Mukalmua
Date.