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OFFICE OF THE PRINCIPAL
HANDIQUE GIRLS' COLLEGE
Guwahati-781001, Assam

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Principal-cum-Secretary

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Ref. No.

Date:

Notice Inviting Quotations for DBT Twinning project

Sealed quotations affixing court fees of Rs 8.25/- (Rupees eight and paise twenty five only) from reputed manufacturers/dealers/suppliers are invited for supply, installations etc. as individual or package offers for the following items for the Department of Chemistry, Handique Girls' College, Guwahati-1, Assam; under the DBT sponsored Twinning project.

The sealed quotations are to be submitted to Dr. Akhtar Hussain, Assistant Professor, Department of Chemistry, Handique Girls' College, Guwahati-1, Assam on working days till 31st January, 2020 during 10:00 am to 3:00 pm.

The rates must be shown in following order:

Sl. No.	Item	Specification Details	Unit Price/INR	GST	Amount with GST
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Handique Girls' College reserves the right to modify/cancel the requirements.

All terms and conditions will be as per Handique Girls' College rules, regulations and decisions.

List of Items with Specifications:

(1) EMISSION SPECTROMETER WITH ACCESSORIES:

- Excitation/Emission: Concave, monochromator grating, F/2.5, 1300 grooves/mm
- Emission wavelength range: 200-800 nm (zero order spectra), measurable with photomultiplier.
- Bandwidth selection: multi-step selection with accuracy of +/- 1 nm
- Light source compensation: Dynode feedback system with monochromatic light monitoring
- Sensitivity: The S/N ratio is min 400 or higher (PP) or 1,000 and more (RMS) for the Raman lines of distilled water (350 nm excitation wavelength, 5 nm spectral bandwidth, and 2 second response for 98% of the full scale) with slewing speed of about 60,000 nm /min.
- Response: 9-Step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 1, 3, 4 and seconds for 98% of the full scale
- Sensitivity selection: 2-steps of HIGH and LOW.
- Power input: 100, 120, 220, 240V; 50/60 Hz; 400 VA.
- Scanning speed: Min. 60,000 nm/min.
- Operational temperature: 10 to 40^oC.
- Operational humidity range: 40 to 85%
- Data processing: Standard operating software with ASCII or DIF format.
- High-speed 3D scanning

- luminescent quantum yield measurement facility is a must
- Suitable for studying organic, inorganic and biomolecules
- Operation manual on CD ROM, software, AC cable, USB cable.
- Non-fluorescent cell (2 nos.)
- Branded PC and 2kVA UPS to be quoted

Note: Custom clearance and transportation to be arranged by supplier

(2) ELECTRODE SET FOR ELECTROCHEMICAL WORKSTATION:

- Ag/AgCl reference electrode
- Saturated KCl calomel electrode
- Glassy carbon working electrode
- Platinum working electrode
- Platinum wire counter electrode
- User/maintenance manual to be provided

Note: Should be 100% compatible with any branded electrochemical workstation.

(3) DIAMOND (CRYSTAL IMPACT, GERMANY):

- Diamond latest version (4.6.1) with permanent 4 site license (single user)
- Automatic up gradation facility of the software via internet connection
- Compatible with Windows 10 onwards version

(4) MICRO PHOTOCHEMICAL REACTION ASSEMBLY:

- Quartz assembly of borosilicate glass
- Reaction volume capacity min. 15 ml
- suitable outer side joint to allow an O-ring cap-seal connection with matching male joints
- Porosity E filter disc for use as a gas inlet to remove oxygen from solution
- Quartz immersion well and a quartz Pen-Ray
- Low pressure cathode mercury lamp with compatible power supply
- Instruction manual to be provided during installation

(5) ALDRICH SPECTRAL VIEWER FTNMR:

- Single user academic version
- high-resolution 300MHz ¹H and 75MHz ¹³C
- Displays ¹H and ¹³C spectra, integral, chemical structure, and technical data
- Text Search by Chemical Name, Aldrich Catalog Number, CAS Number, and Molecular Formula
- Advanced data field searching on Chemical Category and physical properties such as Boiling Point, Melting Point, Density, Flash Point, Molecular Weight, and Refractive Index
- Spectra processing using Zoom, Peak Integration, and Peak Labeling
- Print spectra, structure, technical data, integral table and peak listing
- Export spectra to a file (Bitmap, Metafile, or JPEG formats) or to the clipboard (Bitmap or Metafile formats)
- Web-link button provides additional technical data from the Sigma-Aldrich Website
- Supplemental library to be included
- Latest Microsoft windows compatibility

(6) CHEMDRAW PROFESSIONAL 19 SUITE:

- Generate a chemical structure from a name & vice versa
- Direct access to analytical and chemical property data of structures & fragments
- Shortcuts for alignment and distribution, scaling, & reporting
- Many pre-drawn graphical templates for chemistry, chemical biology, biology
- SciFinder[®] by CAS and Elsevier[®] Reaxys[®] integration, ChemACX Explorer add-in, ¹H and ¹³C NMR prediction, BioDraw, Name to Structure and Structure to Name, HELM toolbar, and access to ChemDraw Cloud.
- Built-in organic functional groups for rapid use
- Latest Microsoft windows compatibility

(7) TUNABLE HENE LASER WITH ACCESSORIES:

- Selectable wavelengths: 543 nm, 594 nm, 604 nm, 612 nm, and 633 nm.
- Longitudinal mode frequency: 420 MHz
- Polarization: 500:1
- Power output: 0.3 mW
- Noise: 01
- Spatial mode: TEM00
- Beam diameter: 0.75 mm
- Beam angle: 1.00 mrad
- CDRH Class: IIIB
- Power supply with cable: 230 V AC, 50 Hz compatibility

(8) BASIC TEMPERATURE CONTROLLER:

- Regulates any equipment or volume within 0.1°C
- Temperature range: -50 to 200°C
- Up to 5 L volume capacity
- Should be able to regulate heating mantles, hot plates, ovens, heating blocks, etc
- Double fused, thermocouple probe, automatic over-temperature circuit
- Both USB 2.0 and RS232 communication ports for PC control and data logging
- Free windows software for PC control and data logging to Excel or text file
- Multi-step temperature ramping and real-time strip chart display 220-240 V

Notes:

1. GST will be applicable at 5% for educational institute. DSIR certificate will be provided.
2. The quoted rate must be valid for the period of 90 days.
3. Payment will be made only after delivery/installation. No advance will be paid.
4. FOB Department of Chemistry, Handique Girls' College, Guwahati.
5. Copy of GST Registration Certificate to be provided.
6. Copy of PAN card to be provided.

The College authority reserves the right not to accept the lowest or any tenders without assigning any reasons thereof.

Sd/- Principal
Handique Girls' College
Guwahati