

**SCHOOL OF BIOCHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY (BHU)
VARANASI – 221 005, INDIA**

ENQUIRY

Ref: IIT(BHU)/AM/15-16/01

Date: February 25, 2016

Due Date: 10.03.2016

Dear Sir,

Please submit your lowest quotation for supplying the under mentioned items. Quotation must reach us before the date marked above and should contain the following information:

1. Full specification and make of the item offered and its rate F.O.R. IIT (BHU) Varanasi in INR including tax, duties clearing charges etc.
2. Sales tax at concessional rate as applicable to educational institution.
3. Your sales tax registration number and TAN number.
4. Conditions of supply and terms of payment.
5. If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.
6. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
7. We will provide custom duty exemption certificate/excise duty exemption certificate/road permit if required.
8. Please give undertaking as per annexure-I-B

Quotation must be sent in a **sealed envelope** with word "QUOTATION", our reference number, and due date as given above, clearly marked over it.

Sl. No. ITEM	Approx. Qty.
1 <u>2-Dimensional Gel Electrophoresis</u>	01

Specifications:

IEF System:-

- System should include Individual Lane Control for running different samples, pH Gradients and focussing protocols in a single run.
- System should have touch screen User Interface for easy easily creating and editing protocols and setting up the program rapidly.
- System should include dedicated site for online data interpretation for Graphing data, Comparing lanes and generating reports.
- System should include USB Port to export data for storage and analysis
- System should include run mode flexibility- to run IPG strips gel Side Up, Gel Side Down and with cup loading configuration.
- System should have voltage 0-10,000 V, 1 V increments(50-10000V)
- Current range should be 0-100 μ A per lane, 1 μ A intervals
- Power range of 0-1 W per lane.
- System should have peltier based cooling platform.
- Temperature range should be 10-25°C \pm 1.0°C
- Focusing trays should be made of polycarbonate for contaminant free process.

- System should accommodate IPG strip length 7, 11, 13, 17, 18, and 24 cm.
- System should have display QVGA resolution (320 x 240) touch screen or mouse control
- System should have ramping Step, linear, gradual, and hold voltage ramping for each focusing step. Hold mode as a final step to prevent diffusion when IEF is complete

Image analysis 2D Software:-

- Gaussian modeling based software.
- Sophisticated algorithms for Automatic Spot Detection & Quantification.
- Spot detection summary matching summary, replicate group consensus tool to optimize spot detection and matching parameter.
- Sypro ruby filter for auto recognition and removal of background speckles.
- Simultaneous analysis of 15 gels simultaneously.
- Databases of 15 gel simultaneously.
- Suitable for DIGE analysis.
- Statistical analysis wilcoxon paired sample algorithm for providing accurate statistical comparison.
- Should be GLP/GMP Compliant, and should have facility for 21CFR Part 11 compliance in future.

Abha Mishra

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