



Indian Institute of Technology
Department of Biological Sciences and Bioengineering
KANPUR – 208 016, INDIA

Dr. Dhirendra S. Katti
Professor

Tel: 91-512-259-4028
Fax: 91-512-259-4010
Email: dsk@iitk.ac.in

Enquiry No.: DSK/BSBE/12-13/NC-04

Dated: 06/07/2012
Closing Date: 13/07/2012

Request for submission of quotation for “2D gel electrophoresis system”

Sealed quotation(s) are required on or before 13th July, 2012 latest by 5.00 pm with all technical specifications for the supply of items;

(Technical Specification Required)

1. First dimension unit
 - a. Capability of running Immobilized pH gradient (IPG) strips.
 - i. Flexibility in the size of strips (7-24 cm)
 - ii. Flexibility in the number of strips (1-12)
 - iii. Individual Lane Control for running different samples, pH Gradients and focusing protocols in a single run
 - b. High voltage power supply up to 10 kV with 1 V increment. Current range 0–100 μ A per lane with 1 μ A intervals.
 - c. Programmable control for voltage, temperature and time
 - d. Peltier based cooling platform (Temperature range should be 10–25°C \pm 1.0°C)
 - e. Light protection during the run
 - f. Touch screen user interface and USB Port to export data for storage and analysis.
2. Second dimension unit
 - a. PAGE System capable of running up to 2-4 gels (16 x 18 cm) simultaneously
 - b. Temperature maintenance by central cooling
 - c. Ability to accommodate up to 11-13 cm long IPG strips
 - d. Power supply
 - i. Programmable power supply with memory storage and data archiving facility
 - ii. Output range upto 500 V, 2000-2500 mA, 1-500 W in 1 W steps
 - iii. Constant voltage, current or Power or Constant Temperature modes.
 - iv. Single unit increments in settings and readouts for precision and reproducibility
 - v. Safety features: Automatic Power up after Power failure, No-load detection, sudden load change detection, ground leak detection.

3. Densitometer:-
 - a. Transmissive and reflective imaging using red, green and blue CCD technology to scan chromogenic samples at the optimal detection wavelength.
 - b. IQ/OQ For verification of the reflectance and transmittance calibration functions.
 - c. Automatically self-calibration of the optical density for optimize detection
 - d. Light source – fluorescent white
 - e. Wavelength – 400 – 750 nm
 - f. Scanning area : 29x40 cm for Transmissive imaging and 30x40 cm for Reflective imaging
4. Analysis software
 - a. Gaussian modeling based software with automatic spot detection and quantification.
 - b. Auto recognition and removal of background speckles.
 - c. Simultaneous analysis of up to 15 gels.
 - d. GLP/GMP compliance
5. Blotting System:-
 - a. FAST blotting system with simultaneous blotting of four gels with two protocols
 - b. Input power: 100–240 VAC, 276 VA, 50–60 Hz, 175 W max
 - c. Inbuilt power supply and user interface
 - d. Programmable methods
 - e. User notifications should have following features:
 - i. Audible alarm
 - ii. Power fails during run
 - iii. No-load detection
 - iv. No cassette detection
 - v. End of run

Notes:

1. The envelope must be inscribed with word “Quotations against enquiry no.12-13/NC-04
2. All quotations must reach by **13th July, 2012, at or before 17.00 hrs.**
3. Please provide separate lines for the initial price and discounted price with minimum 90 days validity for the quotation (120 days would be desirable)
4. The delivery period should not be more than 4-6 weeks.
5. Send complete details of the products.

Dhirendra S. Katti