

< School of Biological Sciences >
Indian Institute of Technology
Hauz Khas, New Delhi-110 016

NOTICE INVITING QUOTATIONS

Dated: **< 05 august 2014 >**

Tender No: **< _____ >**

Subject : **<Purchase of “Size Based Biomolecules Fractionation” >**

Invitation for Tender Offers

Indian Institute of Technology Delhi invites **hardcopy** Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **<supply, installation & integration of “Size Based Biomolecules Fractionation” >** with **three years on site comprehensive warranty** from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal <https://eprocure.gov.in/epublish/app> and IIT Delhi website <https://www.iitd.ac.in/tenders> .

TECHNICAL SPECIFICATION:

Sl. No.	Technical Specifications	Remarks
1	System should be able to separate biomolecules quickly and efficiently by continuous elution electrophoresis using NATIVE-PAGE, SDS-PAGE or agarose gel electrophoresis. The system should separate and purify proteins, Nucleic acid and other biomolecules into discrete liquid fractions for sequencing, antibody production, crystallography and other downstream applications.	
2	The system offered should be able to fractionate proteins by size (molecular weight) as an effective enrichment strategy for studies of protein families and posttranslational modifications.	
3	It should be able to separate biomolecules protein, DNA and Nucleosome by continuous-elution electrophoresis through a cylindrical gel matrix into ring-shaped bands	
4	Individual bands should be collected in discrete liquid fractions.	
5	It should allow resolution of proteins differing in molecular weight by as little as 2%. Using SDS-PAGE, it should separates and purify proteins that differ in molecular mass by as little as 1000 Da. Using NATIVE-PAGE; should isolate proteins that differ in isoelectric point by as little as 0.1 pH unit. Using agarose gel electrophoresis, it should purify large proteins, DNA	

	or RNA.	
6	It should have two systems as mini and large with sample capacity (mass/volume) for mini system as 0.5–1,000 µg/50–500 µl and for large system as 1–500 mg/0.5–15 ml.	
7	The Gel Tube dimensions should be 7mm ID, 13 cm length for mini system and 28 & 37mm ID, 14 cm length for large system.	
8	Vendor should also provide two pairs additional tube 7mm ID, 13 cm length for the mini system.	
9	Vendor should also provide gel castor for mini system as well as gel casting assembly for the large system.	
10	System should be supplied with buffer recirculation pump.	
11	Vendor should provide additional five pieces of dialysis and five pieces of elution frit for the both mini and large system.	
12	The elution buffer flow rate for the mini system should be 0.1ml/min and for the large system should be 1ml/min.	
13	The system should be supplied with a high voltage power supply with specifications as:- <ul style="list-style-type: none"> a) Output specifications 10-500 V, 0.01-2.5A, 1-500W b) Type of output Constant voltage, current, or power with automatic crossover c) Output terminals 4 pair recessed banana jacks in parallel d) Timer Up to 99 hr, 59 min e) Pause/resume function: Yes 	
14	The system should also be supplied with a 12 gel polyacrylamide gel casting chamber to cast up to 12 gels simultaneously and should include 8 acrylic blocks, 15 separation sheets, tapered luer connector, stopcock valve	
16	Electrical: 230V/50 Hz.	
17	Should provide three years on site comprehensive warranty from the date of receipt of the material	

If any of the technical specifications offered are better than those listed, clear comparison should be provided in the compliance statement with a separate “Remarks” highlighting how the specification is better than that listed.

Bid Submission Start Date: 05th August 2014

Bid Submission End Date: 20th August 2014.

Bid Opening Date: 22nd August 2014

Purchaser: < Dr. Ashok Kumar Patel >,

School of Biological Sciences,

Indian Institute of Technology

Hauz Khas, New Delhi - 110016.

Email: ashokpatel@bioschool.iitd.ac.in

Contact: 011-2659-6104