



DEPARTMENT OF MICROBIOLOGY & BIOTECHNOLOGY

UNIVERSITY SCHOOL OF SCINECES,
GUJARAT UNIVERSITY, AHMEDABAD-380 009 (INDIA)
TELEPHONE NO.: +91 79 2630 3225

Ref. No. Micro./Biotech./335/2019

Date: 07-10-19

Messrs,

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Dear Sir,

We desire to purchase the following/items as per the attached list. Please give your lowest Quotation for the same on or before date 19 Oct 2019. Quotations, only for items specified should be given, otherwise your quotation be given serially.

The sealed envelope must invariably be clearly labelled 'Quotations for (WOS A., Project. Department of MICROBIOLOGY AND BIOTECHNOLOGY, otherwise your quotation will not be considered.

Please quote F.O.R. Microbiology and Biotechnology Department, Gujarat University, Ahmedabad-9.

Thanking you,

Yours faithfully,

Project Investigator

Professor & Head

Department of Microbiology & Biotechnology
USSC, Gujarat University,
Ahmedabad-380009, Gujarat, INDIA

Encl.: As above.

ITEM I: Technical Specifications for Electrophoresis System

| Sr. No. | Specification |
|----------------|---|
| 1. | Electrophoresis Device |
| 1.1 | Agarose based Electrophoresis system for easy isolation of DNA, RNA and protein based on their size/mass and/or electric charge. |
| 1.2 | Electrophoresis device should come with a LCD touch screen to view DNA sample migration in real time and show status and remaining time of running protocol. |
| 1.3 | The Electrophoresis device shall be capable of separating DNA within 15 minutes. |
| 1.4 | The Electrophoresis device shall have small footprint for benchtop operation. |
| 1.5 | The Electrophoresis device shall integrate DNA sample separation and gel visualization in one workflow |
| 1.6 | The Electrophoresis device shall come with a blue light transilluminator to view gel in real time. There must be a provision to turn on the Transilluminator with filter lid open. |
| 1.7 | The lid of the Electrophoresis device shall come with an amber filter for safety. |
| 1.8 | The device shall come with pre programmed protocol for various types of gel. |
| 2. | Viewing Glasses |
| 2.1 | Suitable viewing glasses for viewing the gel with filter lid opened. |
| 3. | Camera System |
| 3.1 | The system shall come with a Camera system that can be docked to the Electrophoresis device for imaging the agarose gels. |
| 3.2 | Camera should have a USB port to transfer images directly to a USB device without need for external Desktop computer |
| 3.3 | Camera should come with at least 4" touch screen LCD display |
| 3.4 | Camera should be CMOS based color camera |
| 3.5 | Internal memory of camera should be atleast 32 GB |
| 3.6 | Image output should be in TIF and JPG format |
| 3.7 | Image resolution must be 3 Mega Pixel or more |
| 4. | Agarose Gel |
| 4.1 | 01 kit of 1% Agarose Gel compatible with the quoted Electrophoresis device for carrying out separation of DNA from sample |
| 5. | DNA Ladder |
| 5.1 | DNA ladder for approximate sizing and quantification of double stranded DNA in the range of 100bp to 15000bp |
| 6. | General Terms and Conditions |
| 6.1 | Vendor must quote a new device and should not supply refurbished or demo systems |
| 6.2 | The system must have at least 01 year of on-site warranty |
| 6.3 | The system must be compatible to operate at 220V/50 Hz supply and all necessary adaptors required for functioning of the system shall be provided by the vendor. |
| 6.4 | Vendor must provide all the necessary User Manuals |
| 6.5 | Before finalization of the order supplier has to arrange a working demonstration of the instrument |

ITEM 2: Technical Specifications for Amino column

| Sr. No. | Specification |
|----------------|--|
| 1. | Amino Column |
| 1.1 | A mixed mode amino column with outstanding reproducibility for Normal Phase(NP), Reverse Phase (RP), ion exchange and HILIC mode |
| 1.2 | Carbon Load: 4% |
| 1.3 | Column Format: Analytical column |
| 1.4 | Diameter (Metric) : 4.6 mm |
| 1.5 | Endcapped: Yes |
| 1.6 | Length(metric) : 250 mm |
| 1.7 | Max. Pressure: 400 bar |
| 1.8 | Packing Material: Silica, Spherical Fully Porous Ultrapure |
| 1.9 | Particle Size: 5 µm |
| 1.10 | pH: 2 to 8 |
| 1.11 | Pore Size 100 Å |
| 1.12 | Surface Area: 320 m ² /g |
| 1.13 | Temperature: 60°C |
| 1.14 | USP Type: L8 |
| 1.15 | Stationery Phase: Amino |
| 2. | General Terms and Conditions |
| 2.1 | Vendor must quote a new device and should not supply refurbished or demo systems |
| 2.2 | The system must have at least 01 year of on-site warranty |
| 2.3 | Vendor must provide all the necessary User Manuals |
| 2.4 | Before finalization of the order supplier has to arrange a working demonstration of the column and it should be compatible with existing HPLC system of Shimadzu company with model Prominence 20 A. |