राष्ट्रीय केला अनुसंधान केन्द्र
(भारतीय कृषि अनुसंधान परिषद)
तोगामलै रोड, तायनुर पोस्ट,
तिरुचिरापल्लि. – ६२० १०२. तमिलनाडु

National Research Centre for Banana
(Indian Council of Agricultural Research)
Thogamalai Road, Thayanur P.O.
Tiruchirapalli - 620 102, Tamil Nadu, India

F.No.25(1)/2016-SP/ 2242 – 2299   Dated : 11.04.2016

To

Sir/s,

Quotations are invited by the Director, NRC for Banana, Trichy, for the supply of the following items as per the specifications given below.

S.No.	Name of the article	Qty. Reqd.
1.	**ISO ELECTRIC FOCUSSING UNIT, ACCESSORIRES & SOFTWARES** **Technical specifications** IEF unit should be able to run 1-12 IPG strips in 7, 11, 13, 17, 18 or 24 cm focusing tray. Each channel in IEF tray should be independently powered, enabling precise control over IPG strips. It should be possible to run different sample types, different pH gradient and multiple protocols simultaneously. Control panel should allows up to 10 user defined IEF protocols with programmable functions including rehydration time, platform temperature, current limit, voltage limit for each step, voltage step / gradient, and step duration. It should provide easy handling of CyDye/fluorescent labeled proteins and secure light protection during the run and other light-sensitive samples, and provides temperature control critical for reproducibility in 2-D DIGE experiments. It should run at 10–10000 Voltage and Run current should be 0–1.5 mA (1 µA/strip step). Platform temperature 15–31°C ± 1°C (should have internal Peltier controlled cooling). Integrated high-voltage DC power supply delivering up to 10 Kv. Operating relative humidity 0–70%, noncondensing, Storage temperature -25 to +60°C, Power requirements 100–230 V ± 10%, 50–60 Hz, 230 VA, Weight not exceeding 10 kgs. Safety features Automatic voltage cut-off when safety lid is opened. Control Software should allow easy programming on a PC. The software should record the run parameters over time and present data as graphs and log files. Data should be saved or exported to spreadsheet software. Control Software should aid in documenting results, optimizing run parameters, and ensuring GLP compliance. Rehydration, equilibrium, focusing trays, loading cups, required number of strip holders and covers to hold individual strips and other accessories should	1 No.

be provided.

Other requirements like electrode wicks, cleaning brushes, forceps, mineral oil, IPG strips, CyDye and cleaning solutions may be quoted for minimum use.

All necessary accessories required for running 7-24 cm strips and complete functioning of instrument may also be quoted.

3KVA UPS for 2 hours back-up with required EXIDE TUBULAR batteries with 48 months warranty and heavy duty stand for batteries may be provided.

Demonstration up to the satisfaction of the scientists and technicians after installing the instrument is necessary

The instrument should have two years free warranty.

2-DE GEL ANALYSING SOFTWARE

Software should have flexible interface for the comprehensive visualization, exploration, and analysis of 2-D gel data from both 2-D DIGE (2-D Fluorescence Difference Gel Electrophoresis) and non-DIGE technologies

Extensive display features should be there to allow users to interact with the results and target the analyses.

Easy import and image viewer functionality along with effective spot detection and matching solutions and versatile analytical methods should be there.

User-friendly and flexible interface and adaptable visualization tools.

Image processing should have powerful algorithms for efficient spot detection, accurate spot quantification and robust gel matching.

Accurate comparison of abundance of a spot across gels, should be possible to overcome variability.

Statistical analysis tool for quantitation of protein expression variations across gels or between different gel populations should be there.

Saving and reloading entire experiments in different formats including XML

TWO YEARS FREE WARRANTY.

Note :   **Leaflet / Broucher of the model quoted should be enclosed, failing which, the offer will be rejected.**

1.   Quotations should be inclusive of all packing, forwarding, Insurance, freight etc. Quotations exclusive of packing and freight charges etc. should indicate the amount that shall be charged on this account.

2.   Complete descriptions, specifications and make of the goods should be given in the quotations. Necessary literature and pamphlets if any also be sent along with the quotation. Rate per unit should also be given precisely and delivery period clearly mentioned.

3.   **THE FIRM SHOULD INVARIABLY QUOTE THE TIN, CST NO. ETC. ON THE BODY OF THE LETTERHEAD IN WHICH THE QUOTATION IS SENT, IF NOT YOUR QUOTATION WILL BE REJECTED.**

4.   The quotation should be F.O.R. destination and should be kept open for 180 days from the date of quotations. Delivery at the Institute premises at NRCB Office Cum Laboratory Building, Near Thayanur Santhai, Thogamalai Road, Tiruchirappalli-

620102/~~NRCB Research Farm Podavur Village, Inampuliyur Post, Via Kuzhumani,Tiruchirapalli 639 103~~ (Tamil Nadu) is preferable.

5.	The quotations should be adessed in the name of **"DIRECTOR, NATIONAL RESEARCH CENTRE FOR BANANA, Near Thayanur Santhai, Thayanur Post, Thogamalai Road, Tiruchirapalli - 620 102 (T.N.)"**, should reach on **26.04.2016 (TUESDAY) by 12.00PM,** in a sealed cover super scribing **"QUOTATIONS FOR THE SUPPLY OF IEF UNIT, ACCESSORIES & SOFTWARES". FAILURE TO DO SO WOULD RESULT IN REJECTION OF QUOTATION.**

The right to accept or to reject all or any of the quotation in part or full is reserved.

NOTE : **You are requested to send your quotations through "SPEED POST" only and not through "Courier service".**

ASSISTANT ADMINISTRATIVE OFFICER
FOR DIRECTOR

Copy to:

1. Chairman (SPAC)
2. Member Secretary (SPAC)
3. The Chairman (PMEC) – for uploading in NRCB Website.
4. The Nodal Officer (CPPP) - for uploading in CPP Portal.
5. Pvt. Secry. to Director.