



राष्ट्रीय केला अनुसंधान केन्द्र
(भारतीय कृषि अनुसंधान परिषद)
तोगामलै रोड, थायनुर 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

Telephone : 0431-2618125(30 lines)
e-mail: directornrcb@gmail.com / saonrcb@gmail.com / aonrcb@gmail.com

F.No.28(1)/2016-SP/ 743 - 762,

Dated : 28.07.2016

To

As per addresses appended in Annexure-II

Sir/s,

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

Sl. No.	Name of the article	Qty.
1.	High Resolution Automated Stereo Zoom Microscope (as per specifications furnished in Annexure-I enclosed)	1 No.

1. Quotations should be inclusive of all charges for 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. 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 AND TERMS & CONDITIONS ARE MENTIONED, IF NOT QUOTATION WILL BE REJECTED.**
4. The quotation should be for 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.

P.T.O

Mr. Hasi
Pl. upload
R. J. Lunny

5. The quotations should be addressed in the name of **"DIRECTOR, NATIONAL RESEARCH CENTRE FOR BANANA, Near Thayanur Santhai, Thayanur Post, Thogamalai Road, Tiruchirapalli - 620 102 (T.N.)"**, and should reach **LATEST by 12.00 Noon on 16.08.2016 (TUESDAY)**, in a sealed cover superscribing **"QUOTATIONS FOR THE SUPPLY OF High Resolution Automated Stereo Zoom Microscope"**.

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".

Yours faithfully,



Senior Administrative Officer

Copy to:

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

Annexure - I

Specifications for High resolution Automated state of the art Stereozoom microscope with digital camera and Automontage

1. Fully Apochromatic corrected Automated / Motorized Stereozoom microscope with Common Main Objective.
2. Motorized Zoom with 20:1 ratio or better.
3. Axial carrier for shift free documentation or similar.
4. Pair of 10x Eyepiece/s with 23mm FOV or better.
5. Magnification 7.5x to 160x with 1.0x objective & 10x eyepieces.
6. Resolution 1050 lp/mm or better.
7. Plan Apochromate 1x objective with WD 60mm or more.
8. Optical path with different size of optics for obtaining maximum resolution and maximum depth. Similar to Fusion Optics or better.
9. Touch screen Control panel for all automated / motorized functions.
10. LCD display of all major parameters in built in microscope
11. Trinocular tube with 100:0 light transmission.
12. LED based large base stand with automated control by either Touch screen or by software; featuring for Transmitted light, Oblique / Rottermann Contrast and Darkfield.
13. Ring Light illuminator with 48+ LED's with different conditionally switching possibility by either software / buttons.
14. Two-armed gooseneck LED-based/ fibre optic cold light source with removable diffusers for reflection free illumination
15. High Definition based 10MP CMOS color camera with min. 30fps at full resolution, Along with necessary 0.5x ~ 0.63x C-Mount adaptor.
16. Software for controlling all Automated / Motorized components of microscope, Camera and light sources. Along with features for Imaging acquisition in Multi dimension, Image rebuilding in Z series with EDF / montage. 3D module and measurements module for analysis.
17. Compatible PC with Windows 7 64 bit OS, Intel Core i7 or better, 8 GB RAM, 1TB HDD, 22" LED Monitor.
18. All the above components -Microscope, light sources, Camera & Software - should be from the same manufacturer.

Accessories

1. 0.63x and 2.0x PlanApo objectives
2. Slide observation facility accessory with features of LED illumination with min 20,000hrs (with auto-off facility), 4 independent objectives of 4x, 10x, 40x, & 100x oil, Trinocular facility to adapt camera and XY stage for slide holding.

Senior Administrative Officer

ICAR – National Research Centre for Banana
Tiruchirapalli – 620 102 Tamil Nadu

