भांकृअनुप-राष्ट्रीय केला अनुसंधान केंद्र
(भारतीय कृषि अनुसंधान परिषद)
तोगमलै रोड,तायन्नूर पोस्ट.
तिरुच्चिरापल्लि.-६२० १०२. तमिलनाडु

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

F.No.28(1)/2016-SP/ 1520 ~1533   Dated : 25.10.2016

To

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.Reqd.
1.	**CCD Camera** **(as per specifications furnished overleaf)**	**1 No.**

1. Quotations should be inclusive of all charges towards 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 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 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 **08.11.2016 (Tuesday) by 3.00PM** in a sealed cover superscribing **"QUOTATIONS FOR THE SUPPLY OF CCD Camera"**.

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

Phone : 0431-2618125 | Fax : 0431-2618125
Email : director.nrcb@icar.gov.in | directornrcb@gmail.com
Skype : nrcb.director | website : www.nrcb.res.in

SPECIFICATION FOR CCD CAMERA

S.NO	Compatibility	Should be compatible with OLYMPUS BX50, OLYMPUS SZX7 and OLYMPUS CKX41 microscopes.	
1.	Type	Single chip color CCD camera	
2.	Imaging sensor	Minimum 1/1.8 to 2/3 inch color CCD	
3.	Effective pixels	Minimum 5 – 18 Megapixels	
4.	Scanning method	Progressive scanning	
5.	Color filter	RGB primary color on-chip filters / sRGB/ Adobe RGB	
6.	Recording area	Minimum 8.4(H) × 6.62(V) mm, Diagonal length: 10 mm to 15 mm	
7.	Maximum recorded pixels	4.7 - 6.7 Megapixels	
8.	Sensitivity	Equivalent to ISO 100/200/400/800/1600	
9.	Exposure time	Auto:1/20,000s to 2s or Better, Manual: 1/20,000s to 8s or Better	
10	Image size	Minimum 1920 × 1080 to 4080 × 3072	
11	Live image display	(2448 × 1920) at 15fps, (1920 × 1080) at 22fps, (1224 × 960) at 30fps	
12	Controller interface	USB 3.0 / PCI/ PCIe, Camera I/F: USB 3.0 Type-A, DVI-I Digital/Analog RGB), Wired LAN:100Base-X/10Base-T, Serial port: RS-232C D-Sub 9-pin, With Compatible software Package with drivers (should be operated on Microsoft Windows 7 SP1 (64 bit)Professional (or) Windows 8.1 (64bit)Pro)	
13	Storage media	USB flash memory, USB-HDD	
14	Magnification	0.01X to 10000X	
15	Adapter	F mount (or) C mount adapter used to fit the camera on microscope.	
16	Desktop Computer	Make and model of the Computer should be specified	
		OperatingSystem	Microsoft Windows 7 SP1 (64 bit) Professional (or) Windows 8.1 (64bit) Pro
		Processor	Intel Core i5-6500 Processor (Quad Core, 6MB, 4T, 3.7GHz,)
		Mother Board	Intel Q170 Chipset based motherboard or better chipset
		Memory	8 GB DDR4 SDRAM Non-ECC(2133 MHz)
		Hard Drive	Single 2 TB 7200 rpm, 2.5" or 3.5",32MB buffer, SATA 3.0, 6 Gb/s(Specify the make & Size of the HDD)
		Keyboard& Mouse	Wireless preferred
		SATA Interface	2 SATA 3.0 Interface
		DMI /InstructionSet	5 GT/s, 64-bit
		Optical Drive	8x DVD
		Audio	Integrated High Definition audio with Internal Speaker
		Memory Slots	Number of memory slots on motherboard, min 4 required
17	Warranty	3 years comprehensive On-site warranty with On-Site Service & Support for both Parts and Labor.	