



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

F.No.25(1)/2015-SP/

98-105

Dated : 24.05.2016

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.	INFRA RED THERMOMETER Specification : Thermal Imaging Camera with minimum of the following specifications Temperature range : - 20 °C to 350 °C Accuracy : ± 2 °C or 2 % On-screen emissivity correction : 0.1 to 1.0 Detector type : 120 X 90 Focal Plane Array, uncooled Micro bolometer Thermal sensitivity (NETD) : ≤ 0.05 °C at 30 °C target temp Infrared spectral band : 7.5 µm to 14 µm (long wave) Visual (visible light) camera : Minimum of 5MP Thermal Imaging Camera must have with on-screen reflected background temperature compensation and transmission correction. The thermal imaging camera must have blending of IR & Visual Images and the rmal image must be available in the center of the screen Display : minimum of 3.5 inch (landscape) 320x240 LCD Palettes : Iron bow, Blue-Red, High- contrast, Amber, Hot Metal Gray Scale Level and span : auto/manual –scaling Storage medium : Minimum of internal storage with 4 GB and with option of micro SD clot with 4 GB. Memory review : must be available in thumbnail view Batteries : Lithium ion rechargeable batteries. Batteries should have LED display to show charge level Battery life : Minimum of four hours continuous use per battery pack Battery charge Timing : < 3 hours to full charge with 220 V	1 No.

Tel : Director : 0431 - 2618104, Off : 0431 - 2618106, 2618084 Farm : 0431 - 2618301
Fax : 0431 - 2618115 E-mail : directornrcb@gmail.com, nrcbdirector@gmail.com

M.S. CSJ
upload in
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Rm
25/5/2016

Standard infrared lens	
Field of view	: 35.6 ° x 26.8 °
Spatial resolution (IFOV)	: 5.2 m Rad
Minimum focus distance	: 0.45m
Operating temperature & RH	: -10 °C to +50 °C & RH 10 % to 95 % non-condensing
IR lens must have international Safety standards	
Electromagnetic compatibility	: Should meet all applicable requirements in EN61326-1:2006C Tick IEC/EN 61326-1 US FCC CFR 47, Part 15 Class B
Vibration	: 0.03 g2/Hz (3.8 grms), IEC 68-2-6
Shock	: 25 g, IEC 68-2-29
Drop	: 2 meter (6.5 feet)
Weight (battery included)	: Less than 0.78 kg
Enclosure rating	: IP54 (protected against dust, limited ingress; protection against water spray from all directions)
Software	
Full analysis and reporting software to be included with the supply.	
Software must be license free and all upgrades for the software to be provided free of cost.	
The Software shall have minimum of the following features	
Complete Analysis of the Thermal Imager	
Capability to add comments & remarks in the Image	
3D IR Analysis of the Thermal Images	
Generate Reports automatically	
Add visual images in the Reports	
Other essential and optional accessories must be quoted: Thermal imager with standard infrared lens; ac power supply and battery pack charger (including mains adapters); one, rugged lithium ion battery packs; Software with free software upgrades for life; soft transport bag; printed user's manual; Standard target temp IR meter for soil temperature and atmospheric temperature probe.	
MINIMUM FREE WARRANTY : TWO YEARS.	

Note : Necessary leaflet of the model quoted should be attached with the quotation, 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 adressed 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 **08.06.2016 (WEDNESDAY) by 12.00PM**, in a sealed cover super scribing "**QUOTATIONS FOR THE SUPPLY OF INFRA RED THERMOMETER**". **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".

Yours faithfully,


ASSISTANT ADMINISTRATIVE OFFICER

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.