



**भाकृअनुप - केन्द्रीय बाराणी कृषि अनुसन्धान संस्थान**  
**ICAR - Central Research Institute for Dryland Agriculture**

संतोषनगर, सैदाबाद-पोस्ट हैदराबाद ५०००५९ Santoshnagar, Saidabad P.O. Hyderabad 500 059  
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F. No: 2-1/(21)/2019-20/SP

Date: 05-07-2019

**Tender Enquiry for "Supply of Infrared (IR) Thermal Imager with Software"**

On behalf of the Director, ICAR-CRIDA invites **Online** Tenders under Two Bid System (Technical and Financial separately) for **Supply Infrared (IR) Thermal Imager with Software**

**TERMS & CONDITIONS**

1. **Submission:** Only bids received on e-procurement portal will only be considered for opening. Bids in any physical form sent through fax/email/courier/post/delivered personally will not be considered.
2. **Download of Tender Document:** Tender Document with full details can be downloaded from CRIDA Website (<http://www.icar-crida.res.in/>) or the Government of India, Central Public Procurement Portal (<http://www.eprocure.gov.in>) and in such cases, participation in the tender will be subject to remittance of the prescribed Bid Security along with the Technical and financial Bids (BOQ).
3. **Tender ID:** Shall be notified on the website (<http://www.icar-crida.res.in/>)
4. Suppliers who desire to participate in such tenders in future may bring it to the notice of Procuring Entity and may register in CPPP through DSC
5. The bidders should have a valid registration of the firm with GOI/any state govt.
6. This institute will not be responsible for any delay in enrollment or submission of the offer/uploading the offer on above mentioned e-procurement portal for any reason whatsoever. Hence vendors are advised to register in the e-procurement website <https://eprocure.gov.in> & enroll their Digital Signature Certificate (Class - II or above) and upload their quotations well in advance to avoid last minute problems.
7. **Bid Security:** Bid Security (**also known as Earnest Money**) is to be deposited by all the bidders except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or registered with the Central Purchase Organization **18,000/- (Rupees eighteen Thousand only)** along with their bids. The bid security will be accepted in the form of Demand Draft, Fixed Deposit Receipt, Banker's cheque. The bid security is normally to remain valid for a period of forty-five days beyond the final bid validity period. Bid securities of the unsuccessful bidders shall be returned. **Original EMD must be delivered to CRIDA on or before last date /time of bid submission without which the bids will not be considered.**
8. **Performance Security:** The successful bidder is required to pay an amount equal to 10% of successful bid amount towards performance security deposit and the same will be released within one month from the date of expiry all contractual Obligations. No interest shall be paid on such Performance security deposit. Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations. The Performance Security Deposit should be in the form of Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks or payment online in an acceptable form and on which no interest will be paid.
9. **Delivery Schedule:** Unless otherwise specified, No 'part supply' is allowed. Specific mention should be made as to whether delivery will be from ready stock or will have to be imported / acquired and in the latter case the time required for delivery after purchase order is placed should be indicated clearly.
10. **Payment:** No advance payment is permissible. Payment will be made only after supply of equipment" is accepted by the indenter after successful, installation and commissioning of the equipment. Our normal payment terms are within 30 (thirty) days on receipt and acceptance of material at our site in good condition.
11. **Place of delivery:** Supply is to be done at Central Research Institute of Dry Land Agriculture, Hyderabad, Telangana.
12. **Installation:** Installation is to be done at Central Research Institute of Dry Land Agriculture, Hyderabad, Telangana.
13. **Shipment:** Supply is to be made securely packed at supplier's risk and transportation.
14. Attested copies of Document regarding registration /Certificate of incorporation of the firm issued by the appropriate government to be enclosed
15. This Institute is exempted from payment of Customs charges Vide Govt. of India, Ministry of Science and Technology, Deptt. of Scientific and Industrial Research, vide Letter No. **TU/V/RG-CDE (372)/2016, dated 18-10-2016 (Valid upto 31-08-2021).**
16. Manufacturer's name and country of origin of materials offered must be clearly specified. Please quote whether your organization is large scale industry or small scale industry. If you have NSIC/MSME/MSI/DGS&D Certificate, please attach it to the quotation. Mention your registration details.
17. Make/brand of the item shall be stated wherever applicable.



18. All supplies are subject to inspection and approval before acceptance. Manufacturer/ supplier warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable.
19. The Director of the institute reserves the right to modify the quantity specified in this enquiry. The prices quoted should be firm till the supplies are completed. Please quote the rates in words and figures. Rates quoted should be inclusive of all transportation, installation and commissioning of the supply and any other charges. Prices quoted for free delivery at destination will be given preference. If there is no indication regarding the FOR, in the quotation, then it will be considered as FOR destinations. Price quoted should be net and valid for a minimum period of **three months** from the date of opening of the quotation.
20. No part supply is accepted. Guarantee/Warranty/Expiry period should clearly indicated
21. Payment of GST is primarily the responsibility of the seller and will not be paid unless the percentage value is clearly mentioned in the quotations. If no indication regarding CGST/SGST is recorded in the quotation, the CGST/SGST will be considered as included
22. Delivery period required for supplying the material should be invariably specified in the quotation. Technical specification should be clearly indicated.
23. **Acceptance of tender:** Director, CRIDA reserves the right to accept or reject any of the tenders either in part or in full without assigning any reason thereof.
24. **Specifications:** Full specifications of the item quoted should be indicated in the tender along with illustrated pamphlets, drawings etc. wherever available. The supplier has to submit the compliance statement on the technical specifications in the prescribed format enclosed to this schedule.
25. **Service support and warranty:** The warranty requirement for this equipment shall be minimum of 12 months from date of satisfactory installation and commissioning. In the event of the equipment requiring any rectifications, the warranty will start from date of successful rectification.
26. If the deliveries are not maintained and due to that account Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
27. In case your quotation is accepted and order is placed on you, the supply against the order should be made completely within the period stipulated in the order. The Government of India reserves the right to recover any loss sustained due to delayed delivery by way of penalty. Failure to supply the material within the stipulated period shall entitle Procuring Entity for the imposition of penalty without assigning any reasons @ 1/2% (half percent) of the total value of the item covered in order as penalty per day subject to a maximum of 5% (five percent) unless extension is obtained in writing from the office on valid ground before expiry of delivery period.
28. **Dispute clause:** Any dispute relating to the enquiry shall be subject to the jurisdiction of the court at Hyderabad only
29. Damaged items with missing accessories will not be accepted by this institute.
30. Any Supplier found to have cheated by supplying old items/equipments and defaulted in supplying store items even on extended time limit without reasonable grounds, will be liable for blacklisting besides imposition of penalty to the tune ICAR Unit may deem fit.
31. The tender document should invariably be filled in and duly signed by the authorized signatory by affixing the company/firm seal on every page of tender and the terms and conditions should strictly be followed before submitting the tender.
32. Quotation which does not conform to the above terms and conditions will not be considered. The Director, Central Research Institute for Dry land Agriculture, reserves the right to accept or reject any or all quotations without assigning any reasons thereof
33. The firm should give the complete information in technical bid whether the quoted amount in financial bid includes optional items are not.

Yours Sincerely

  
(Saurabh Meena)

Stores and Purchase Officer

### CHECK LIST

Give page numbers to the tender document and all enclosures and also verify the following documents before submission of the tender in the sequence listed below, to avoid rejection or disqualification of your tender.

S.No.	List of the Documents to be Submitted with the Tender	Page No.	Yes/No
1.	The entire original tender document with seal and signature on each page		
2.	Bid Security copy.		
3.	Name of the firm, Full address with Post Box No. and Telephone No. if any: Attested copies of Document regarding <b>firm registration</b> /Certificate of incorporation of the firm issued by the appropriate government to be enclosed.		
4	Tender acceptance letter		
5	Technical specifications for the quoted product/technical literature (brochure) of the product quoted		
6	Compliance statement of the Technical Specifications of the equipment quoted		
7	Satisfactory completion certificates/Attested copies of <b>past Two years</b> experience Of OEM for authorized sales /service of <b>Infrared (IR) Thermal Imager with Software</b>		
8	Document showing the firm/company's turnover per annum of minimum 2 financial years out of 2016-17, 2017-18 & 2018-19, Certified by the Chartered Accountant.		
9	GST registration Certificate of the firm.		
10	The firm should submit Income Tax returns of minimum 2 FY out of 2016-17, 2017-18 & 2018-19.		
11	NSIC/SSI certificates registered with NSIC (if applicable) to be enclosed		

Certified that the above information is correct and the firm is willing to accept all the terms and conditions of the tender document.

Signature and Seal of the Bidder: \_\_\_\_\_

Business Address: \_\_\_\_\_

**Tender Acceptance Letter**  
**(To be filled by bidder on firm/Company Letter Head)**

To  
The Director  
Central Research Institute for Dry Land Agriculture

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender/Work: \_\_\_\_\_

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the \_\_\_\_\_ web \_\_\_\_\_ site(s) namely: \_\_\_\_\_ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ (including all documents like annexure(s), schedule(s), etc.), which will form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organizations related to this tender too have also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.
5. I / We do hereby declare that our firm/company has not been blacklisted /debarred by any Govt. Department/Public Sector undertaking.
6. I / We certify that all information furnished by the our firm/company is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,  
(Signature of the Bidder, with Official Seal)



## **TECHNICAL SPECIFICATIONS**

### **Infrared (IR) Thermal Imager with Software**

Infrared (IR) thermal imager with software for accurate, repeatable and convenient measurements of IR thermal imaging, image analysis and generating reports using software. Simultaneously captures both a thermal and visible light picture. Software should be license free and all upgrades for the software to be provided free of cost. Instrument should be easy to operate with friendly interface, Data transmission to a computer via USB, Wi-Fi hotspot, or Wi-Fi network. Wireless connectivity to PC and smart phones. Easily portable to use in field with rechargeable batteries. Additionally, the instrument should comply with following specifications.

- Detector resolution should be minimum of  $640 \times 480$  (307,200 pixels) or more with provision for image enhancement to resolution of  $1280 \times 960$ . Multi-sharp focused for near and far throughout the field of view
- Should be with manual and laser Auto Focus based on distance measured having laser distance meter which displays distance on screen.
- Touch screen display with minimum display size of 3.5 inch LCD or more with digital zoom of 2x / 4x
- Should have temperature measurement range of  $\leq -10\text{ }^{\circ}\text{C}$  to  $+650\text{ }^{\circ}\text{C}$  or higher range with accuracy level of  $\pm 2\text{ }^{\circ}\text{C}$  or 2% and thermal sensitivity (NETD) of  $\leq 0.05\text{ }^{\circ}\text{C}$  at  $30\text{ }^{\circ}\text{C}$  target temp (50 mK)
- On-screen emissivity correction is required having on-screen reflected background temperature compensation and transmission correction and live line marker.
- Picture-In-Picture (PIP) feature for IR images and built-in digital camera (visible light) should have resolution of 5 MP or more
- Standard lens having IFOV (spatial resolution) of 0.93 mRad or less with Field of view of  $34\text{ }^{\circ}\text{H} \times 24\text{ }^{\circ}\text{V}$  and Minimum focus distance of 15 cm (approx. 6 in) or less. Can be operated both in Manual and Auto mode
- Instrument should have provision for color alarms for high, low temperature, and isotherms (within range) in Instrument / Software. Center-point temperature measurement, Spot temperature for hot and cold spot and user-definable spot markers
- At least 16 GB removable micro SD memory card, 4 GB internal flash memory, saves to USB flash drive capability.
- Image capture, review, save mechanism with one-handed image capture, review, and save options.
- Image file formats fully radiometric, non-radiometric and export file formats with software should have option for bitmap (.bmp), GIF, JPEG, PNG and TIFF.
- Video recording should have provision for both standard and radiometric with appropriate file formats. Live stream of the camera displays on PC, Smartphone, or TV monitor and remote control operation. Auto capture facility is required for temperature at interval. Standard colour palettes should have minimum of eight different palettes.
- Minimum two field-replaceable & rechargeable lithium ion battery packs with 3 hours per battery or more, 2.5 hours or less time to fully charge batteries with appropriate battery charger. Battery level indicator in the form LED preferably on the battery. AC operation power supplies 100 V AC to 240 V AC, 50/60 Hz.
- Instrument should be light weight (battery included) preferably less than 1.2 kg
- Should have standard warranty for whole instrument and lens as per the company policy.
- Full analysis and reporting software to be included. Software should be license free and all upgrades for the software to be provided free of cost. The Software shall have feature for complete analysis of the Thermal Imager, capability to add comments & remarks in the Image, 3D IR Analysis of the Thermal Images, automatic reports generation.
- Standard accessories to be included along with instrument are AC power supply adapter, battery pack charger, two lithium ion battery packs, SD memory card, Software, with appropriate carrying case, sun visor.
- Optional Accessories like Industrial tripod stand with tripod mounting may be provided with separate estimation.
- The testing, commissioning and demonstration of the equipment need to be provided by authorized technical person.
- Attach product brochure, any other supportive document to authenticate the compliance of technical specifications.