



# 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  
040-24530161,24530163,24530224 Fax:040-24531802 www.crida.in Email : stores@crida.in



## TENDER ENQUIRY FOR SUPPLY OF LAB EQUIPMENTS

**F.No. 9-1/(27)/NICRA/2016/ST**

**Dated :20th July, 2016**

### Tender Enquiry For Supply of Lab Equipments:-

CRIDA is a premier publicly funded Research Institute on Dryland Agriculture under the Indian Council of Agricultural Research (ICAR), DARE, Ministry of Agriculture, Government of India. The Director, CRIDA Santoshnagar, Hyderabad – 500 059, Telangana India, now Invites sealed tenders for supply of Lab Equipments from the eligible bidders/reputed manufacturers/ authorized dealers/suppliers.

### GENERAL TERMS & CONDITIONS

- 1 Cost of Tender Document :** The cost of Tender Document is Rs.500/- in the form of **Demand Draft (DD)** drawn in favour of “**ICAR Unit - CRIDA A/c.**” Payable at Hyderabad. **Cost of tender, EMD and tender bid needs to be submitted separately for each item mentioned as below.**
- 2 Downloads of Tender Documents:** Tender Document with full details can be downloaded from CRIDA Website (<http://www.crida.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 **Cost of tender document & EMD.**
- 3 EMD : EMD in the form of crossed Demand Draft/Bankers cheque** drawn from any commercial bank *in favour of “ICAR Unit – CRIDA A/c.”*, payable at Hyderabad should be enclosed with the tender quoted by the bidder(s). The bidder has to submit **EMD** except those who are registered with Central Purchase Organization (CPO), National Small Industries Corporation (NSIC), SSI units registered with NSIC or the concerned Ministry or Department. The unsuccessful bidders EMD will be returned soon after the finalization of Tender, where as the successful bidders **EMD** will be returned subject to furnishing the required **Performance Security** for an amount of **10%** of the value of the contract in the form of **Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any commercial bank.** The amount of **EMD** submitted along with tender document will be forfeited in the event of failure to deposit performance Guarantee ( Security Deposit) by the successful bidder. The decision in all these matters shall be final and binding on you. No interest will be paid on Earnest Money/Security Deposit for the period of retention in the CRIDA, Hyderabad.

S.No.	Particulars	Technical Specifications Page Numbers	EMD Amount (Rs.)	Qty
1.	BOD Incubator	Page 6	5000	1 No.
2.	Fibre Analysis System	Page 7	7500	1 No.
3.	A) Analytical (Semi microbalance Weighing balance) B) Precision Weighing balance	Page 8	5000	1 No.
4.	Photosynthesis Efficiency Analyzer	Page 9	10000	1 No
5.	Deep Freezer(-86° C)	Page 10	10000	1 No

Performance Security	10% of the tendered value
Cost of tender document for each item	Rs.500/- (600/- by post) (Rupees Five hundred only) for each item (Non-refundable) through Demand Draft in favor of “ICAR Unit CRIDA A/c.” payable at Hyderabad.
Sale of tender document	21-07-2016
Last date of submission of tender requisition	18-08-2016 upto 1100 hrs
Date, Time and place of submission of tender document	18-08-2016 upto 1400 hrs Room No.109, Stores Section, CRIDA
Date, time and place of opening of tender	18-08-2016 at 1500 hrs

4. **Security Deposit:** The successful bidder has to furnish an amount equivalent to ten **(10) per cent** of the order value as **Performance Security Deposit** which will be refunded / returned only after satisfactory completion of the contractual obligations including warranty. The Security Deposit should be in the form of Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any Commercial Bank and on which no interest will be paid.

5 **Important Dates:**

1.	<b>Start date of down loading the Tender Document</b>	<b>21-07-2016</b>	<b>11:00 hrs</b>
2.	<b>Last date for down loading of Tender Document or any addendum / corrigendum</b>	<b>18-08-2016</b>	<b>14:00hrs</b>
3.	<b>Last date and time for submission of Tenders</b>	<b>18-08-2016</b>	<b>14:00 hrs</b>
4.	<b>Date and Time for opening Bids</b>	<b>18-08-2016</b>	<b>15:00 hrs</b>

- 6 **Submission:** Tender with proper superscription on the cover as "**Lab Equipment- Name of the equipment**" & Serial Number should be submitted in the Office of the Director, CRIDA, Santoshnagar Hyderabad – 500 059, Telangana, on or before the due date and time as given in the tender document.
- 7 **Due Date:** Tenders received after due date and time will not be considered. The Institute will not be responsible for postal delays.
- 8 **Delivery Schedule:** Unless otherwise specified, **Lab Equipments should be within 30 days** from the date of issue of the Purchase Order. 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.
- 9 **Note:** The Envelope containing the tender, showing the name of the equipment as well as all subsequent Communications should be addressed/delivered to:

**The Director  
Central Research Institute for Dryland Agriculture  
Santoshnagar, Saidabad Hyderabad – 500 059, Telangana, India**

- 10 All communications must be addressed to the above Officer by designation but not by name.
- 11 **Payment:** No advance payment is permissible. Payment will be made only after supply of each Lab Equipments is accepted by the committee after successful functioning of the facility with due certification of the concerned in-charges.
- 12 **Place of Delivery / Installation:** Stores and Purchase Officer,. Supply and Installation is to be done at Central Research Institute for Dryland Agriculture, Hyderabad, Telangana
- 13 **Bank details for e-payment:** The bank details may be furnished along with tender for making e-payment to the successful bidder.
- 14 **ISO certification:** The ISO certification of the product (wherever applicable) may be furnished along with tender.
- 15 **Period of Validity:** The rates quoted shall be valid for a minimum period of **180 days** beyond the date of opening of tenders.
- 16 **Rates:** Rates should be quoted in the prescribed Price Schedule in Indian Rupees only.
- 17 **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.
- 18 **Indigenous items:** Articles of indigenous origin are required except where specified otherwise. Where indigenous make is not available foreign made articles can be quoted for, provided, payment is acceptable in Indian currency.
- 19 **Rate Contracts:** In case of any of the item mentioned in the schedule are covered by Rate Contract of DGS & D etc. the rate contract number and date of validity may be specified invariably. Supply of copy of the Rate Contract is more helpful.
- 20 **Taxes/Duties:** If taxes, duties, or any other charges over and above the rates quoted are payable by the purchaser, actual / percentage of such taxes / duties / charges should be clearly indicated.
- 21 While submitting the tender document the brochures, catalogues etc. must be invariably enclosed bid.

- 22 Excise Duty:** Institute is exempted from payment of Customs / Central Excise Duty charges Vide Govt.of India, Ministry of Science and Technology, Deptt.of Scientific and Industrial Research, vide Letter No.TU/V/RG-CDE(372)/2011, dated 29-08-2011.
- 23 Service Support and Warranty:** The Warranty requirement for the equipments shall be for 12 months from the date of satisfactory testing for data receipt. In the event of the equipment requiring any rectifications, the warranty will start from the date of successful rectification.
- 24 Enquiry's on tender:** Any enquiry's regarding the tenders will not be entertained once the tenders are opened.
- 25 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.
- 26 Quantities:** Director, CRIDA reserves the right to reduce or increase the quantity at the time of placing the Purchase Order.
- 27 Decision:** The Decision of the Director, CRIDA on any dispute in the matter will be final and legally binding.
- 28 Jurisdiction:** All disputes including court proceedings shall be settled within the Hyderabad jurisdiction only.
- 29 Rejection of tenders:** Tenders not complying with the above conditions are liable to be rejected.
- 30 Other conditions :**
- a. Late submission of tenders & unsigned tenders shall not be entertained at any cost after specified date & time as indicated. **The tenders without EMD amount will not be considered.**
  - b. In the event of the date & time specified for tender receipt being declared as a closed holiday for purchaser's office, the due date for submission of tenders will be the following working day at the specified timings. CRIDA does not hold any responsibility for postal delays.
  - c. The "Supply and Installation of each Lab Equipments as per supply order shall be transported to CRIDA campus at your cost.
  - d. 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.

**Director, CRIDA reserves the right to accept or reject any or all the tenders. Decision of the Director will be final and legally binding. All disputes will be subject to Hyderabad Jurisdiction only.**

(Stores & Purchase Officer)



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## CHECK LIST

Please 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.

**PLEASE NOTE THAT ALL RELATED PHOTO COPIES MAY PLEASE BE ENCLOSED WITH THE TENDER DOCUMENT AS A PROOF**

S.No.	List of the Documents to be enclosed with the Tender	Page No.	Enclosed (Yes/No)
1.	<b>Cost of each Tender Schedule:</b> Rs.500/- in the form of Demand Draft drawn in favour of "ICAR Unit – CRIDA A/c.". The Tender Document can also be downloaded with full details through CRIDA Website ( <a href="http://www.crida.in/">http://www.crida.in/</a> ) or the Government of India, Central Public Procurement Portal ( <a href="http://www.eprocure.gov.in">http://www.eprocure.gov.in</a> )		
2.	<b>Earnest Money Deposit:</b> EMD should be drawn on any Commercial bank as indicated in the notice inviting tenders in favour of "ICAR UNIT – CRIDA A/c"  EMD D.D.No. _____ Dated: _____ for Rs. _____ ; Bank _____		
3.	Following documents as indicated in the tender document printed on the tenderer's letterhead with date signature and seal.		
3 (a)	<b>Tender Form</b>		
3 (b)	<b>Statement on Compliance</b> of the Technical Specifications with deviations, if any and technical literature of the product to be enclosed;		
4	Document showing the firm/company's turnover be Rupees Two Crores per annum for the preceding <b>two financial years i.e. 2013-14 &amp; 2014-15</b> certified by the Chartered Accountant		
5	Document regarding <b>registration /Certificate</b> of incorporation of the firm issued by the appropriate government to be enclosed.		
6	Certificates of registration for <b>Sales Tax / VAT</b> issued by appropriate Government for the required services with the seal of the tenderer to be enclosed.		
7	The firm should submit <b>Income Tax returns</b> of previous 3 financial years i.e., <b>2012-13, 2013-14 &amp; 2014-15</b> along with the tender document.		
8.	<b>NSIC/SSI certificates</b> registered with NSIC (if applicable) to be enclosed		
9.	<b>Any other document</b> or information as required in the tender document.		
10.	<b>Total pages of your entire Tender Document</b> including Enclosures	No.of Total Pages : _____	

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 FORM**  
(To be filled in by the Tenderer duly printed on their letter head)

Tenderer's Ref.No. \_\_\_\_\_ Date: \_\_\_\_\_

From: \_\_\_\_\_

Grams: \_\_\_\_\_

PIN \_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

To  
**The Director**  
**Central Research Institute for Dryland Agriculture,**  
**Santoshnagar, Saidabad, HYDERABAD – 500 059**

Ref: Your Tender Notice Advt. No. \_\_\_\_\_ dated-----.

Dear Sir,

I/We hereby offer for your requirements detailed in the schedule hereto or such portion thereof as you may specify in the Acceptance of Tender at the **rates given in the said schedule and agree to hold this offer for 180 days for acceptance.** I/We shall be bound by a communication of Acceptance dispatched within the prescribed time and also execute agreement required in this regard.

2. I/We have understood the Instructions to Tenderers and General Conditions of Contract governing such contracts placed by Indian Council of Agricultural Research and its Research Institutes and the Special Conditions of Contract, and have thoroughly examined the details indicated in the Schedule to Tender thereof and am/are fully aware of the goods and/or services required and my/our offer to supply/provide the goods and/or services strictly is in accordance with the requirements.

3. D.D.No. \_\_\_\_\_ Dt. \_\_\_\_\_ for Rs. \_\_\_\_\_ (in words) Rupees  
\_\_\_\_\_ only) drawn on (Bank)  
\_\_\_\_\_ is enclosed towards Earnest Money Deposit.

The following pages have been added to and form part of this tender.

Yours faithfully,

Signature of the Witness

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Name : \_\_\_\_\_

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

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

**SCHEDULE OF REQUIREMENTS & FULL TECHNICAL SPECIFICATIONS WITH COMPLIANCE**  
(Should be submitted duly printed on the letterhead of the bidder separately for each item and option)

**Item number 1: Serial Number1: BOD Incubator**

**Technical Specifications**

**Item Number 1: BOD Incubator**

1. BOD incubator of high precision, with capacity of 340-350 Ltrs, preferably upright model with double walled construction having inner stainless steel and outer side made up of mild steel.
2. Should be designed with high quality insulation to minimize the heat-exchange.
3. should have Temp. Range of : 5<sup>0</sup>C to 60<sup>0</sup>C with Temp. Accuracy of :  $\pm 0.5^{\circ}\text{C}$  or superior, with satisfactory temperature uniformity.
4. Should have microprocessor based PID controller with a provision of timer alarm and auto-tuning.
5. Should have provision of LCD display etc.
6. CFC free cooling system including hermetically sealing, high quality compressor, silent fan-motor, condenser and over load protector.
7. With inner tempered glass doors having double silicon packing to enable the clear and easy sample view without opening the door.
8. Should contain high quality air circulation system using motorized or superior blower.
9. Should have provision of 4-5 shelves made up of high quality material.
10. should have a provision of over temperature cut-off/current breaker, safety alarm etc. Quote along with high quality suitable voltage stabilizer compatible to Indian voltage system.
11. Quote with user list of similar or equivalent product. The product of the companies having ISO/ISI certification will be preferred.
12. Quote along with all other accessories required for installation, demonstration and functioning of the equipment, with suitable warranty.

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**Note :**

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

**SCHEDULE OF REQUIREMENTS & FULL TECHNICAL SPECIFICATIONS WITH COMPLIANCE**  
(Should be submitted duly printed on the letterhead of the bidder separately for each item and option)

**Item number 2: Serial Number 2: Fiber Analysis System**

**Technical Specifications**

**Item Number 2: Fiber Analysis System**

- Sample digestion and filtration using Capsules/bags
- Capacity per batch:12-18 samples or more
- Digestion vessel capacity:  $\leq 2$  litres
- Repeatability : $\pm 1\%$
- Power Supply:230V AC
- No.of caps/bags need to be supplied :500-1000

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**Note :**

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

**SCHEDULE OF REQUIREMENTS & FULL TECHNICAL SPECIFICATIONS WITH COMPLIANCE**  
(Should be submitted duly printed on the letterhead of the bidder separately for each item and option)

**Item number 3: Serial Number 3: Analytical Electronic Sensitive Balance and Precision Balance**

**Technical Specifications**

**Item Number 3: Analytical Electronic Sensitive Balance and Precision Balance**

**Analytical Electronic Sensitive Balance**

- Analytical balance weighs up to 110 grams in 0.0001 gram increments. Parts counting and percent weighing modes. 3 year limited manufacturer's warranty, with 0.1 µg readability, 0.25µg repeatability and ±1 linearity.
- Backlit graphic display with touch screen operation, ProFACT, fully automatic temperature driven
- Calibration and linearization, Built-in RS232 interface; plug-in module available for optional second interface
- Glass draft shield with and flexible configuration options
- SmartSens for hands-off operation, Replaceable protective cover, AC/DC adapter for connection to AC power line.
- Primary side:100-240 V, -15% +10%, 50/60 Hz, 0.7A, Secondary side:12 VDC ±5%, 2.08 A
- (electronic overload protection), Country-specific power cable, (India Specific)
- Weighing adapter for optimum adaptation to ambient conditions

**Precision Balance**

**Main Equipment:**

- Electronic weighing balance square/rectangle platform type preferably with larger platform size, capacity 0.1gm-3000gm
- Minimum division 0.1g, attractive model, corrosion resistance platform, sturdy, preferably with ISI/ISO standard with charging option.
- Quote along with all accessories required for the installation and functioning of the unit. Only reputed companies willing to offer adequate warranty and services support need to quote.
- Essential Accessories: Charger

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**Note :**

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



**SCHEDULE OF REQUIREMENTS & FULL TECHNICAL SPECIFICATIONS WITH COMPLIANCE**  
(Should be submitted duly printed on the letterhead of the bidder separately for each item and option)

**Item number 4: Serial Number 4: Photosynthesis Efficiency Analyzer**

**Technical Specifications**

**Item Number 4: Photosynthesis Efficiency Analyzer**

- Large-scale screening capacity up to 1000 full trace data files. High time resolution detection for discrimination of fast fluorescence induction kinetics.
- Saturating high intensity focused LED array for accurate determination of Fmax. Upload user-defined, repeatable experimental protocols for automatic field execution.
- Interchangeable sensor unit cables with lengths of up to 20meters.
- Windows<sup>(R)</sup> data transfer & analysis software, pack of 10 additional leaf clips for dark adaptation of samples 4mm diameter illumination area.

**Technical Specifications**

- Dimensions 170(l) x 85 (w) x 40mm (d). weight:565g
- communication RS232 bi-directional serial communications
- Operating Conditions 0-40oC. Non-condensing humidity
- Battery 3 x rechargeable Ni-MH 3.6V, 1.8Ahr
- Battery charger integral switch mode charger 8-13. 5v input (nominal 12V input)
- Battery Life Typically 8-9 hours when performing 1 second recordings at 120 measurement/hr
- Display 8 line x 20 character LCD display
- Illumination Focused array of ultra-bright red LED's with NIR short pass cut-off filters. Peak wavelength 650 nm.
- Spectral-line half width 22 nm. Max. intensity at leaf surface>3000μmol m-2 s-1
- Detector Fast response PIN photodiode with RG9 long pass filter, Electronics 16 bit microprocessor, 12 bit resolution, A/D 10μ sec acquisition rate, 8 bit DAC for light source control, real time clock, Record length 0.1-300 seconds, Memory 512K battery backed RAM. Sufficient for up to 1000 one second duration recordings with full trace

**Measured Parameters**

- Fo-fluorescence level when plastoquinone electron acceptor pool (Qa) is fully oxidized.
- Fm-fluorescence level when Qa is transiently fully reduced.
- Fv- variable fluorescence (Fm-Fo).
- Fv/Fm-maximum quantum efficiency of photo system II.
- Tfm-time at which Fm occurs.
- Area-area over the curve between Fo and Fm, relates to the pool size of PSII electron transport acceptors. OJIP analysis.

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**Note :**

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

**SCHEDULE OF REQUIREMENTS & FULL TECHNICAL SPECIFICATIONS WITH COMPLIANCE**  
(Should be submitted duly printed on the letterhead of the bidder separately for each item and option)

**Item number 5: Serial Number 5: Deep Freezer**

**Technical Specifications**

**Item Number 5: Deep Freezer**

**Capacity 350 ± 25 Litres.** Temperature range from - 10 to -86<sup>0</sup>C with accuracy of ±1<sup>0</sup>C. Microprocessor based touch screen controller. Highly accurate computerized temperature controlling system with two 1 Horsepower Danfoss Compressors (230 volt 50 Hz). Vertical model with adjustable solid stainless steel shelves. Single door access for product protection, with multiple inner doors. Suitable handle for ergonomic handling and one hand operation with pad lock capability. Provision of adjustable shelves. Shelves Proper polyurethane insulation. Perfect audible and visual alarm system (high and low temperature, low battery, door open, filter block, power failure). Battery back-up for the alarm monitoring system. Over voltage and over temperature protection. Delayed start and safe stop operation. Must have Non-CFC refrigerants. should have an automatic voltage compensator which responds to high and low voltages and a separate suitable voltage stabilizer, if necessary. Triple-sealing silicone door gasket. Certification from atleast five satisfied users with suitable guarantee/warranty.

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**Note :**

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

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