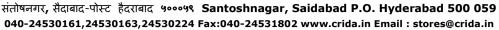


भाकृअनुप - केन्द्रीय बारानी कृषि अनुसन्धान संस्थान

ICAR - Central Research Institute for Dryland Agriculture





Dated: 5th February, 2016

NOTICE INVITING TENDER

F.No. 9-1/(22)/NICRA/2015/ST

Tender Enquiry For Supply, Installation and Commissioning of "Twin Rain Out Shelter Facility" at CRIDA:-

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, Installation and commissioning of "Twin Rain Out Shelter Facility" at CRIDA" in two bid system (technical bid and financial bid) from the eligible bidders/reputed manufacturers/ authorized dealers/suppliers.

GENERAL TERMS & CONDITIONS

- 1 Cost of Tender Document: The cost of Tender Document is Rs.1000/- in the form of Demand Draft (DD) drawn in favour of "ICAR Unit CRIDA A/c." Payable at Hyderabad.
- 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 along with the Technical Bids. A video link has been uploaded on the CRIDA website to have brief understanding about the facility may also be viewed if required so.
- 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 (technical bid) 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 supply the equipment after issue of supply order. 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.

Description of Item	Tender cost Rs.	EMD
(Please see specifications at page Nos. 6-7)		(Rs.)
Twin Rain out shelter Facility at CRIDA	1000/- If downloaded from website 1100/- If required by post.	2,00,000/-

- 4. Technical Bid & Financial Bid: The bidders should submit the bids consists of all technical specifications/details as well as item wise financial cost for the items quoted along with commercial terms and conditions. The original copy of tender should be sent to this Office in a sealed cover in a double envelope. The inner envelope should also be sealed. The outer cover should be super scribed Tender for "Twin Rain Out Shelter Facility" at CRIDA". The tenderer must place the two sealed envelopes clearly marked 'TECHNICAL BID' and 'FINANCIAL BID' by indicating the Draft number, date & amount of EMD on the envelop of 'TECHNICAL BID', failing which the tender will not be opened. Financial Bid to indicate a warning "DO NOT OPEN WITH THE TECHNICAL BID".
- 5 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.
- 6 Important Dates:

1.	Start date of down loading the Tender Document	05-02-2016	11:00 hrs
2.	Last date for down loading of Tender Document or any addendum / corrigendum	26-02-2016	14:00hrs
3.	Last date and time for submission of Tenders	26-02-2016	14:00 hrs
4.	Date and Time for opening of Technical Bids	26-02-2016	15:00 hrs

- **Submission**: Tender with proper superscription on the cover as "**Twin Rain Out Shelter Facility" at CRIDA**" 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, Supply, Installation and Commissioning of "Twin Rain Out Shelter Facility" at CRIDA 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, 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, installation and commissioning of the facility is accepted by the technical committee after successful functioning of the facility for one experimental period in a couple of weeks 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 Hayathnagar Research Farm, Central Research Institute for Dryland Agriculture, Hyderabad, Telangana
- 13 Liquidate Damage: if you are failed to Supply, Installation and Commissioning of "Twin Rain Out Shelter Facility" and all or any of the goods or to perform the services with in the delivery period specified above, a sum equivalent to 0.5% of the contract price per week or part thereof off delay until actual delivery or performance shall be deducted from the bill up to a maximum deduction of 10% of the contract price. Once the maximum is reached, we may consider termination of the contract.
- 14 Bank details for e-payment: The bank details may be furnished along with tender for making e-payment to the successful bidder.
- 15 ISO certification: The ISO certification of the product (wherever applicable) may be furnished along with tender.
- 16 Period of Validity: The rates quoted shall be valid for a minimum period of 180 days beyond the date of opening of tenders.
- 17 Rates: Rates should be quoted in the prescribed Price Schedule in Indian Rupees only.
- 18 Specifications: Full specifications of the item including design & approved drawings, detailed component specifications and bill of material, installation, operation and maintenance manuals supply shall also be indicated in the quoted 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.
- **19 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.
- **20 Certification**: The entire facility supplied installed and commissioned shall have to be certified with concerned certifying authorities for civil work, Electrical Operation, safety and other included components if any.
- 21 Shipment: Supply is to be made by passenger train or by road transport securely packed at supplier's risk, unless otherwise specified.
- **22** 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.
- **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.
- 24 While submitting the tender document the brochures, catalogues etc. must be invariably enclosed with technical bid.
- 25 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.
- **26 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.

- 27 Comprehensive Maintenance Contract: On the expiry of warranty period, the Twin Rain Out Shelter Facility system will be considered for Comprehensive Maintenance Contract (CMC) with the supplier for the next Two years. The CMC rates should be quoted year-wise separately, i.e. for the second and third year after warranty period. The right to enter into CMC lies with Director, CRIDA. The cost of CMC shall form part of the total bid amount. The CMC shall cover all liabilities to keep the equipments in satisfactory working condition, including consumables, cleaning/painting/ replacement of sensors etc.
- 28 Enquiry's on tender: Any enquiry's regarding the tenders will not be entertained once the tenders are opened.
- 29 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.
- **30 Quantities**: Director, CRIDA reserves the right to reduce or increase the quantity at the time of placing the Purchase Order.
- 31 The Technical Bids are to be opened by the institute Purchase Committee in the first instance and will be evaluated technically by the Institute Technical Advisory Committee (TAC). At the second stage Financial Bids will be opened only for the technically qualified tenders for further evaluation before awarding the contract.
- 32 Decision: The Decision of the Director, CRIDA on any dispute in the matter will be final and legally binding.
- 33 Jurisdiction: All disputes including court proceedings shall be settled within the Hyderabad jurisdiction only.
- 34 Rejection of tenders: Tenders not complying with the above conditions are liable to be rejected.
- 35 IMPORTANT NOTE: The bidder should submit the Technical & Financial bid including specifications/details along with item wise price mentioned in the Technical bid. The Technical bid must be accompanied with earnest money deposit in the form of Demand Draft. In any case the technical bid without EMD/Demand Draft will not be entertained. The bid should be sealed properly by the bidder and duly super scribed and submit to the above office at the date and time specified above.

36 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, Installation and Commissioning of "Twin Rain Out Shelter Facility" at CRIDA 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.
- e. The bidders/representatives who are going to attend the technical bid/financial bid opening may invariably bring authorization letter issued by the respective company/ firm for the purpose.

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

	DOCUMENT AS A PROOF				
S.No.	List of the Documents to be enclosed with the Tender	Page No.	Enclosed (Yes/No)		
1.	Cost of Tender Schedule: Rs.1000/- 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 (http://www.crida.in/) or the Government of India, Central Public Procurement Portal (http://www.eprocure.gov.in)				
2.	Earnest Money Deposit: 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)	Tender Form				
3 (b)	Statement on Compliance of the Technical Specifications with deviations, if any and technical literature of the product to be enclosed;				
3 (c)	Financial Bid				
3 (d)	The entire original tender document (Technical Bid) with seal and signature on each page at the time of submission of tender document(s) with in the due date.				
4	Document showing the firm/company's turnover be Rupees Two Crores per annum for the preceding two financial years i.e. 2013-14 & 2014-15 certified by the Chartered Accountant				
5	Document regarding registration /Certificate of incorporation of the firm issued by the appropriate government to be enclosed.				
6	Certificates of registration for Sales Tax / VAT issued by appropriate Government for the required services with the seal of the tenderer to be enclosed.				
7	The firm should submit Income Tax returns of previous 3 financial years i.e., 2012-13, 2013-14 & 2014-15 along with the tender document.				
8.	NSIC/SSI certificates registered with NSIC (if applicable) to be enclosed				
9.	Any other document or information as required in the tender document.				
10.	Total pages of your entire Tender Document (Technical Bid) including Enclosures	No.of Total Pa	_		
	Cartified that the above information is correct and the firm is willing to accept all the	a tarma and	aanditiana af		

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
F IIV	Fax No
To The Director Central Research Institute for Drylan Santoshnagar, Saidabad, HYDERAB	
Ref: Your Tender Notice Advt. No	dated
Dear Sir,	
you may specify in the Acceptance of hold this offer for 180 days for acce	irements detailed in the schedule hereto or such portion thereof as Tender at the rates given in the said schedule and agree to eptance . I/We shall be bound by a communication of Acceptance and also execute agreement required in this regard.
governing such contracts placed by In and the Special Conditions of Contra Schedule to Tender thereof and am/a	nstructions to Tenderers and General Conditions of Contract dian Council of Agricultural Research and its Research Institutes act, and have thoroughly examined the details indicated in the re fully aware of the goods and/or services required and my/our r services strictly is in accordance with the requirements.
3. D.D.NoDt	for Rs(in words) Rupees
enclosed towards Earnest Money Depo	osit.
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)

Schedule - I: "Twin Rain Out Shelter Facility" at CRIDA

Automated Rainout Shelter facility:

Rain out Shelter of 1600 Sq. m. area (800sq. m covered planted area and 800 sq. m hanger area) with stone/brick wall up to 0.30 m height as foundation above ground. The roof shall be covered with 8 mm thick Polycarbonate sheet. The sheet will be fixed on roof (anti corrosion/rust proof) provision of leak proof arrangement against entry of rain water between two joints of the sheet with silicon sealant applicant. Frame work of Hot G.I. pipes properly grouted in Reinforced cement concrete 1:2:4 (1cement: 2 coarse sand: 4 stone aggregate of 20 mm nominal size). Plinth protection along the external wall of the Rainout Shelter, complete as per the Specification/instruction of the Engineer-in-Charge/Indenter.

Two Independent units operative through motors with one additional motor as backup

Total Area: 2 x 400sq.m = 800Sq.m

Span Size:- 40 m x 10m x 4.5m : 2.5m (L x W x CH: SH)

Shape: Dome/skylight Total Track length: 40 + 40m

Structural arrangement of rainout shelter for fixing of polycarbonate sheet:

GI pipe 72mm x 72mm / 47mm x 47mm / 25mmx 25mmx square pipe IS standard IS 1239 class B anticorrosive, humidity resistance pipe with IS 47361968/ISO 65-1973 zinc coat as approved. Wall Thickness of 2-4 mm. Approximate GI steel per sq. m will be 6 kg or more. For maximum Indian wind load conditions, structural trusses will be provided for absolute strength.

GI square pipe: 70-75mm x 70-75mm, IS standard, Anti-corrosive, Humidity resistant pipe with zinc coat.

- 1. Trusses: 47mm x 47mm
- 2. Column: 70mm x 70mm
- 3. Vertical Supports:47mm x 47mm
- 4. Purlin: 47mm x 47mm
- 5. Vertical support distance: min 1000mm or more.

Glazing: The roof should be covered with 8 mm thick tripled walled Poly Carbonate sheet. Should be anti-corrosive and provision of leak proof arrangement against entry of rainwater between to joints of the sheet with silicon sealant applicant. Cut edge of poly carbonate sheet should be sealed.

Technical Data:

UV-absorbing properties

U-value 3.4 W/m2k

Coefficient of linear thermal expansion $\acute{\alpha}$ 0.09 mm/m $^{\circ}$ C Possible expansion due to heat and moisture ca. 6 mm/m

Max. Permanent service temperature without load 70°C

Weighted sound reduction index (estimated) 23 dB

Minimum permissible cold-curving radius 1,200 mm

Warrantee: - 10years

UV: - Protected.

Thickness: - 8 mm tripled walled

Sheet Structure: - 8/3 (8 mm triple wall)

Fixing: - Aluminum pressure plates with gasket

Size: - 2"inch x 2 mm Weight: - 1.25kg/12 feet

Specifications of Poly carbonate Sheet:

Light Transmission: 80% or more depending upon thickness and color selection.

Multiwall Impact resistant, Energy saving.

 $\label{lem:lempact} \textbf{Impact resistance} \ \text{during transportation, handling and installation.}$

Hail resistance with a durably guaranteed energy value of 1 joule.

Guarantee will show no yellowing and will retain a high level of light transmission for 20 years.

UV stabilized from both sides.

Certified to DIN EN ISO 9001 (quality) and DIN EN ISO 14001 (environment)

Main sides opening of structure: The main sides opening of structure will be made up with rack and pinion system for opening the sides system which can be operated by motorized mechanism to move the sides for the proper ventilation

The complete structure would be installed on 30 cm high wall above the ground level and 90cm below the ground level exposed wall will be duly plastered and painted. The 9" RCC column 30 cm above the wall and 3.0m below ground level with a 3mtr. interval RCC work with (1 cement: 2coarse sand :4 stone agg to nominal size 20mm).

Automatic Motorized Rolling mechanism: Motorized rolling mechanism on wheels on rails with arrangements for easy movement, quick locking and unlocking, latches and safety measurements while operating. Housing of the motor and other electrical components in rain protected box/shade for longer operation. The complete motorized rolling mechanism including control panel motor drive etc. shall have a redundant backup so that moving facility shall keep working with standby arrangement even after failure of primary drive mechanism.

Light Sensor with data logger (I-5). This technology advancements makes rainout shelter aware of their environment, the rainout shelter with rain sensor system with an unrivalled set of automation procedures.

Safety system: Accidental backup in case of motor failure, automatic timing control system for upward & downward movement, changeover arrangement, cutoff device in case of wrong movement, locking and unlocking with gear system etc.

Rolling base: Mild steel T-section of suitable size.

Rolling wheels: Caster wheels with high stress bearing (Taper roller bearing/ Ball bearing with proper lubrication system).

Rain Sensor: Rain sensor with advanced technology for control of the movement of rain-out shelter on receiving different intensity of light with data logger (I5).

Civil Works: CC foundation (1:3:6) 10 cm thick 90 wide with brick work in cm (1cement :6 coarse sand) 90cm below and 1 feet above ground level to checks lateral moments of water, Above PCC 27" wide 6": thick first base line, than 18" wide 6" thick second base line, than 13" wide 6" thick brick work, than 9" wide brick work with Damp proof cement concrete (DPC) 2" thick. Frame base block height 1 x 1 x 1 RCC block at every 3m distance will be provided. Proper drainage system should be provided with rainout shelter to prevent any stagnation of water in the covered area.

Power Back up: 5KVA DG set standard make, 3phases connections with 2hp power and proper electrical parts with two years warranty.

It is also expected to undertake complete maintenance during defect liability period of three year.

Conditions: All units complete in all respects as indented above should be installed at the identified site at **ICAR CRIDA HRF.** The structure will be equipped with all the necessary facilities. The firm will also be expected to undertake complete maintenance during defect liability period of three years.

To be eligible for consideration an firm should have:

- 1. The firm must have the ISO 9001:2014 certification
- 2. Civil & structural drawing should be attached with tender.
- 3. Organization shall submit Samples of Plexi glass sheet with 10 years guarantee certificate/relevant literature
- 4. Organization shall submit the details of motorized mechanism/sensors/ with Make/ Brand.
- 5. Capacity of the firm to execute the task would be ascertained on the basis of their executed projects of similar nature.
- 6. Certificate of minimum 10years experience in the field and also the list of institutes/organizations where such facilities have been established.
- 7. The turnover in the construction of green house (two crore) and audited financial report of last three years (2012-13 to 2014-15) must be enclosed.
- 8. Bank Draft to be enclosed with technical bid.
- 9. Transportation, insurance, packing, forwarding or any other charges will not be payable by the Institute
 - * Item wise compliance and actual specifications must be indicated.



Noto	
INOLE	

Signature and Sea	l of the Bidder: .	 	
Business Address:			

(FINANCIAL BID)

(To be enclosed in a separate envelope and sealed)

PRICE SCHEDULE for Schedule - I

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

Schedule	Description of the goods offered	units	(Rs.)	(Rs.)
Schedule-I	"Twin Rain Out Shelter Facility" at CRIDA	1No.		
	Applicable Taxes			
a.	Central Excise Duty / Customs, if any	-	%	
b.	Service Tax, if any	-	%	
C.	VAT, if any	-	%	
			Grand Total	
	(Shall be submitted by bidder on	their letter	head)	
Gross total coa	st: Rs (in figures) Rupees			
specifications	upply the above "Twin Rain Out Shelter Facility for a total contract price of Rs(in words) w	(in figure:	s) (Rupees	
	firm that the warranty as specified in the shall apply to the offered goods / equipment.	Schedu	le of Require	ments / Technical
		Signatu	re:	
		Name:		
		Date:		