

भाकृअनुप - केन्द्रीय बारानी 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: store.crida@icar.gov.in

TENDER

F.No. 2-1/(11)/2017ST

Dated 14th November 2017

Tender Enquiry for "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India" under Two bid system.

ICAR- CRIDA is a premier public funded Research Institute on Dryland Agriculture, Indian Council of Agricultural Research (ICAR), Ministry of Agriculture Farmers Welfare Government of India. The Director, CRIDA Santoshnagar, Hyderabad – 500 059, Telangana India, now Invites sealed tenders for "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India", in two bid system (technical bid and financial bid) from the eligible bidders/reputed manufacturers/ authorized dealers/suppliers.

GENERAL TERMS & CONDITIONS

- 1 Download of Tender Document: 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 BID SECURITY along with the Technical Bids.
- 2 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 are registered with the Central Purchase Organization or the concerned Ministry or Department. The bidders should furnish bid security of Rs. 1,00,000/- (Rupees One Lakh only) along with their bids. The bid security will be accepted in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks or payment online in an acceptable form. 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.

Description of Item	Tender cost Rs.	BID
·		SECURIT
(Please see specifications at page Nos.7-9)		Y (Rs.)
Supply, Transportation, Installation and commissioning of various	Free if downloaded	
sensors/parts for "Automatic Weather Stations at respective	from website	1,00,000/-
locations in India" under Two bid system.		

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 "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India". The tenderer must place the two sealed envelopes clearly marked 'TECHNICAL BID' and 'FINANCIAL BID' by indicating the Draft number, date & amount of BID SECURITY 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 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.

6 Important Dates:

1.	Start date of down loading the Tender Document	14-11-2017	11:00hrs
2.	Last date for down loading of Tender Document or any addendum / corrigendum	12-12-2017	11:00hrs
3.	Last date and time for submission of Tenders	12-12-2017	12:00hrs
4.	Date and Time for opening of Technical Bids	12-12-2017	15:00hrs

- 6 Submission: Tender with proper superscription on the cover as for "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India" 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 courier/postal delays.
- **8 Delivery Schedule**: Unless otherwise specified, "Supply, Transportation, Installation and commissioning of various sensors, parts for "Automatic Weather Stations at respective locations in India" 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, Transportation and commissioning of various sensors, parts for "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India" of the spares work functioning is accepted by the indenter/ technical committee after successful functioning of the facility.
- **12 Place of Delivery / Installation**: Supply, Transportation, Installation & Commissioning is to be done at different locations as per the list enclosed in schedule of requirements, the concerned Officer Incharge name and contact details will also be communicated along with order.
- **13 Certification**: The spares to be supplied, installed and commissioned shall have to be 100% compatible with the exists systems of AWS and certified with concerned certifying authorities of AWS OEM for Electrical Operation, safety and other included components if any.
- 14 Without the concerned technical details, compatibility of sensors, certification of parts, the bid received will not be accepted.

- **15 No part supply:** No part supply of material service is accepted. Bidding for only part of sensors supply/part of installation sties/ quote is considered as non qualified bid and summerly rejected.
- **16 Shipment:** Supply is to be made securely packed at supplier's risk and transportation
- 17 Company turnover: At least thirty lakhs turnover per year is required. Document showing the firm/company's turnover per annum for the preceding two financial years i.e. 2015-16 & 2016-17 certified by the Chartered Accountant
- **18 Experience:** Minimum three experience in the AWS manufactures, supply, installation, commissioning & service experience in needed.
- **19 Bank details for e-payment**: The bank details may be furnished along with tender for making e-payment to the successful bidder.
- 20 ISO certification: The ISO certification of the product (wherever applicable) may be furnished along with tender.
- 21 Period of Validity: The rates quoted shall be valid for a minimum period of 180 days beyond the date of opening of tenders.
- 22 Rates: Rates should be quoted in the prescribed Price Schedule in Indian Rupees only.
- **23 Specifications:** The supplier has to submit the compliance statement on the technical specifications in the prescribed format enclosed to this schedule.
- 24 Liquidate Damage: if you are failed to Supply, Transportation, Installation and commissioning of various sensors/parts for "Automatic Weather Stations at respective locations in India" and all or any of the goods or to perform the services within 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.
- 25 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.
- 26 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.
- 27 Income tax returns: Previous 3 financial years
- 28 Taxes/Duties: GST/ Taxes if any are all included only and should be specified clearly.
- While submitting the tender document the brochures, catalogues etc. must be invariably enclosed with technical bid along original equipment part/parts certified by OEM for accepted in the location AWS will also be contracted
- 30 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).
- 31 Service Support and Warranty: The Warranty requirement for the equipment spares or sensors 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.
- **32** To avoid the compatibility and functioning /data calibration issues with the existing AWS, it is required that the same make/model/performance of sensors need to be supplied.
- **33 Enquiry's on tender**: Any enquiry's regarding the tenders will not be entertained once the tenders are opened.
- **34** 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.
- **35 Quantities**: Director, CRIDA reserves the right to reduce or increase the quantity at the time of placing the Purchase Order.

- 36 The Technical Bids are to be opened by the institute tender 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.
- 37 Decision: The Decision of the Director, CRIDA on any dispute in the matter will be final and legally binding.
- 38 Jurisdiction: All disputes including court proceedings shall be settled within the Hyderabad jurisdiction only.
- 39 Rejection of tenders: Tenders not complying with the above conditions are liable to be rejected.
- 40 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 Bid Security /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.

41 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 BID SECURITY 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, Transportation, Installation and commissioning of various sensors/parts for "Automatic Weather Stations at respective locations in India" at the locations specified as per supply order shall be transported to respective AWS site locations across India is at your cost.
- d. A certification is to be obtained from the Officer incharge of the concerned location of AWS, to that effect that sensors/parts of that AWS replaced and timely satisfactory data is attributed to the data sensor is of desired accuracy.
- e. 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.
- f. 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

S.No.	List of the Documents to be enclosed with the Tender	Page No.	Enclosed (Yes/No)
1.	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.	Bid Security: BID SECURITY should be drawn on any Commercial bank as indicated in the		
	notice inviting tenders in favour of "ICAR UNIT – CRIDA A/c"		
	BID SECURITY D.D.No Dated:for Rs.		
	; Bank Following documents as indicated in the tender document printed on the tenderer's letterhead		
3.			
	with date signature and seal.		
4	Tender Form		
5	Schedule of Requirement		
6	Annexure for site locations		
7	(a)Technical Bid		
	(b)Statement on Compliance of the Technical Specifications with compliance and technical		
	literature of the product to be enclosed by bidder.		
8	Financial Bid		
9	The entire original tender document with seal and signature on each page at the time of		
	submission of tender document(s) within the due date.		
10	Document showing the firm/company's turnover be Rupees Thirty Lakhs per annum for the		
	preceding two financial years i.e. 2015-16 & 2016-17 certified by the Chartered Accountant		
11	Attested copies of past three years in the related field of work		
12	Attested copies of Document regarding registration /Certificate of incorporation of the firm		
	issued by the appropriate government to be enclosed.		
13	Certificates of registration for GST issued by appropriate Government for the required		
	services with the seal of the tenderer to be enclosed.		
14	The firm should submit Income Tax returns of previous 3 financial years i.e., 2014-15 , 2015-		
	16 & 2016-17 along with the tender document.		
15	NSIC/SSI certificates registered with NSIC (if applicable) to be enclosed		
16	Any other document or information as required in the tender document.		
	Total pages of your entire Tender Document (Technical Bid) including Enclosures	No.of Total Pa	iges :

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:

4 TENDER FORM

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

render	er's Ref.No	Date:			
From:			Grams:		
			Phone No		
PIN			Fax No		
To					
The Di	rector				
Centra	I Research Institute	for Dryland Agriculture	,		
Santos	shnagar, Saidabad, I	HYDERABAD - 500 059			
Ref: Yo	our Tender Notice Adv	∕t. No	dated		
Dear S	ir,				
	I/We hereby offer for	r your requirements detail	ed in the schedu	ıle hereto or such	portion thereof as
you ma	ay specify in the Acc	eptance of Tender at the	rates given in	the said sched	ule and agree to
hold th	nis <u>offer for 180 day</u>	s for acceptance. I/We	shall be bound	by a communicat	ion of Acceptance
dispatc	hed within the prescri	ibed time and also execut	e agreement red	quired in this rega	rd.
2.	I/We have underst	ood the Instructions to	Tenderers and	d General Condi	tions of Contract
governi	ing such contracts pl	aced by Indian Council o	of Agricultural Re	esearch and its R	esearch Institutes
and the	e Special Conditions	of Contract, and have	thoroughly exa	mined the details	s indicated in the
Schedu	ule to Tender thereof	and am/are fully aware	of the goods ar	nd/or services red	quired and my/our
offer to	supply/provide the go	oods and/or services stric	tly is in accordar	nce with the requir	ements.
3.	D.D.No	Dtfor R	S	(in words) Ru	pees
		0	nly) drawn on	(Bank)	is
enclose	ed towards Earnest M	loney Deposit.			
The foll	lowing pages have be	een added to and form pa	rt of this tender.		
					Yours faithfully,
Signatu	ure of the Witness		Signa	ture:	
Name:			Nam	e:	
Addres	s:		Addre	ess:	

5. 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)

TECHNICAL SPECIFICATIONS – "Supply, Transportation, Installation and commissioning of various sensors/parts for Automatic Weather Stations at respective locations in India"

	various sensors/parts for Automatic Weather Stations at I		
S.No	Name of the items	Qty	Existing Component
1)	AT/RH Sensors H-380 : Air Temperature & Relative	21	Make: Rotronics (mfd and
	Humidity Sensor	nos	supplied by water log)
	Air Temperature		Model:H-380
	Type: HydroClip2 Probe		IVIOGEI.H-360
	Temperature Range: -50°C to 100°C		
	Accuracy: ± 0.5% @ -10 °C to 70 °C		Compliance :same make
	Resolution: 0.02% Typical		·
	RELATIVE HUMIDITY		
	RH Range: 0 – 100%		Data Compliance:
	Resolution:		Refer. S.No.32
	Accuracy ± 0.5%		
2)	Rainfall Sensors H-340: Rainfall Sensor with Tipping Bucket	14	Make: Water Log
	Resolution: 0.01 in. (@ 4 in. / hr.)	nos	
	Rate: 0 to 25 in. / hr.		Model:H-340
	Calibrated @ 8.237 mL / tip = 0.01 in rainfall,		
	Magnetic Reed Switch		Compliance :Same make
	Type: Normally open encapsulated reed		Data Camplianas Datas
	Rating: 200VDC max, 0.1A max,Contact Resistance: 0.2 ohms,		Data Compliance: Refer. S.No.32
	Operating Temperature: -0 to +60 C		5.N0.32
3)	Solar Radiation Sensors SP-110: Solar Radiation Sensor	3 Nos	Make: APOGEE
	(Pyranometer)		
	Radiation Range: 0 - 1750 W/m ²		Model:SP-110
	Cosine Response @ 45º zenith angle: ± 1%		
	Cosine Response @ 75º zenith angle: ± 5%		Compliance :Same make
	Absolute Accuracy: ±5%		Compilance Same make
	Repeatability: ± 1%		
	Sensitivity: Custom calibrated to exactly 5.00 W m ⁻² / mV		Data Compliance: Refer.
	Responsivity: 0.20 mV per W m-2		S.No.32
	Operating Environment: -25°C to 55°C, 0 to 100% RH		
4)	US wind Sensors RMYOUNG 86000: Wind Speed (Ultrasonic	16	Make: RM YOUNG
	anemometer)	Nos	COMPANY
	Wind Speed: 0 to 75 m/s (0 to 168 mph)		
	Resolution: 0.01 m/s		Model: RM YOUNG 86000
	Threshold: <0.01 m/s		(ultrasonic ANEMOMETER)
	Accuracy: ± 2% ± 0.1m/s (30 m/s), ± 3% (75 m/s)		
	Response Time: < 0.25 seconds		Compliance : Same make
	Wind Direction: 0 to 360 degrees		
	Resolution: 0.1 degree		
	Threshold: < 0.01 m/s		Data Compliance: Refer.
	Accuracy: ± 2 degrees		S.No.32
	Response Time: < 0.25 seconds		313.02
	Serial Output: RS-232 or RS-485, SDI-12		
	Formats: ASCII, ASCII polled, RMYT, NMEA		
	Baud: 1200, 4800, 9600, 19200, 38400		
	Units: m/s, MPH, Knots, Km/hr		
	Wind Format: Speed & Direction or U & V		
	Status Indicator: Standard with ASCII & NMEA		
	Output Update Rate: 0.1 to 20 Hz		
	Power Requirement:		
	10 to 30 VDC, <20 mA typical		

6. List of locations where Spares required to be replace

S.NO Location AT-RH WS Solar Radiation 1 REDDIPALLI			AWS	Location		
2 YAGANTIPALLI 2 YAGANTIPALLI 3 GADDIPALLI 4 AMADALAVALASA 5 PEDAVEGI 5 PEDAVEGI 6 DIBRUGARH 7 GOLAGHAT 7 GOLAGHAT 8 MUZAFFARPUR 8 MUZAFFARPUR 9 NAWADA 10 MANJHI 11 MAHASAMUND 11 MAHASAMUND 12 ANAND 13 GOLAGAMDI 14 RAJKOT 15 CHAMBA 15 CHAMBA 16 KANGRA 17 BAJAURA 18 SIRMAUR 19 POONCH 20 TUKKANATTI 21 CHINTAMANI 22 THRISSUR 23 CHHATARPUR 24 BABHLESHWAR 25 NANDURBAR 27 BARAMATI 28 ANDRO 29 SENAPATI 30 PORBA 31 BEHRAMPUR 31 SONEPUR 34 FARIDKOT 35 BHARATHPUR 36 FARIDKOT 4 Y 5 Y 6 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7	S.NO	Location	AT-RH	WS		Rainfall
3 GADDIPALLI 3 GADDIPALLI 4 AMADALAVALASA 5 PEDAVEGI 8 Y 7 GOLAGHAT 7 GOLAGHAT 9 NAWADA 10 MANJHI 11 MAHASAMUND 12 ANAND 13 GOLAGHADI 14 RAJKOT 15 CHAMBA 16 KANGRA 17 BAJAURA 17 BAJAURA 18 SIRMAUR 19 POONCH 20 TUKKANATTI 21 CHINTAMANI 22 THRISSUR 23 CHHATARPUR 24 BABHLESHWAR 25 NANDURBAR 26 NIASM 27 BARAMATI 28 ANDRO 29 SENAPATI 30 PORBA 31 BEHRAMPUR 31 SENEMUR 4 Y 5 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7 Y 7	1	REDDIPALLI	√	√	√	√
4 AMADALAVALASA	2	YAGANTIPALLI	√	√	√	√
S	3	GADDIPALLI	x	×	√	×
6 DIBRUGARH	4	AMADALAVALASA	x	√	√	√
7 GOLAGHAT	5	PEDAVEGI	x	x	√	×
NAWADA	6	DIBRUGARH	x	✓	√	√
9 NAWADA	7	GOLAGHAT	✓	×	√	√
10 MANJHI	8	MUZAFFARPUR	x	✓	√	√
11 MAHASAMUND	9	NAWADA	x	✓	√	√
12 ANAND	10	MANJHI	√	✓	√	√
13 GOLAGAMDI	11	MAHASAMUND	✓	✓	√	√
14 RAJKOT	12	ANAND	x	x	√	√
15 CHAMBA	13	GOLAGAMDI	✓	✓	√	√
16 KANGRA	14	RAJKOT	✓	✓	√	√
17 BAJAURA	15	СНАМВА	x	✓	√	√
18 SIRMAUR ✓<	16	KANGRA	x	x	√	√
19 POONCH	17	BAJAURA	√	✓	√	√
20 TUKKANATTI	18	SIRMAUR	✓	✓	√	√
21 CHINTAMANI	19	POONCH	√	√	×	√
22 THRISSUR	20	TUKKANATTI	x	√	√	√
23 CHHATARPUR	21	CHINTAMANI	✓	√	√	√
24 BABHLESHWAR	22	THRISSUR	x	√	×	√
25 NANDURBAR	23	CHHATARPUR	x	×	√	√
26 NIASM ✓ × ✓ × 27 BARAMATI ✓ × ✓ × 28 ANDRO × × ✓ ✓ ✓ 29 SENAPATI ✓ ✓ ✓ ✓ ✓ 30 PORBA ✓ ✓ ✓ ✓ ✓ 31 BEHRAMPUR ✓ ✓ ✓ ✓ ✓ 32 KENDRAPARA × × ✓ ✓ ✓ 33 SONEPUR ✓ ✓ ✓ ✓ 34 FARIDKOT ✓ × ✓ ✓ 35 BHARATHPUR × × ✓ ✓ 36 JHUNJHUNU ✓ × ✓ ✓	24	BABHLESHWAR	✓	√	√	√
27 BARAMATI	25	NANDURBAR	√	✓	√	√
28 ANDRO	26	NIASM	√	×	√	×
29 SENAPATI	27	BARAMATI	√	×	√	×
30 PORBA	28	ANDRO	x	×	√	√
31 BEHRAMPUR	29	SENAPATI	√	√	√	√
32 KENDRAPARA	30	PORBA	✓	√	√	√
33 SONEPUR	31	BEHRAMPUR	V	✓	√	√
34 FARIDKOT	32	KENDRAPARA	x	×	√	√
35 BHARATHPUR × × ✓ ✓ ✓ 36 JHUNJHUNU ✓ × ✓	33	SONEPUR	V	√	√	√
36 JHUNJHUNU × × ✓	34	FARIDKOT	 	×	√	√
30 STORSTONE	35	BHARATHPUR	x	×	√	√
37 JODHPUR ✓ ✓ ✓	36	JHUNJHUNU	-	×	√	√
	37	JODHPUR	✓	√	√	√

38	UDAYPUR	×	x	√	✓
39	NAMAKKAL	√	√	√	√
40	RAMANATHAPURAM	√	√	√	√
41	CHEBRI	×	√	√	√
42	BAGHPAT	×	√	√	√
43	CHITRAKOOT	✓	√	✓	~
44	UTTAR KASHI	✓	√	√	√
45	COOCH BEHAR	×	√	√	√
46	AURANGABAD	✓	x	√	√
47	GONDIA	✓	√	×	√
48	VALSAD	√	√	√	√
49	BILASPUR	×	x	√	√
50	SATNA	√	√	√	√
51	GANJAM	x	√	√	√

Note:		
	Signature and Seal of the Bidder:	
	Business Address:	

7(a) . Technical Bid (on Letter head)

1	Name of the agency	
2	Full address with PIN Code No. And Telephone No	
3	Constitution of the Firm/Agency (Attached copy)	
	a) Indian Companies Act, 1956	
	b) Indian Partnership Act, 1932	
	(Please give names of partners)	
	c) Any other Act, if not, the owners	
4	i) For Dorto eachin firms, whether registered under the	
4	i) For Partnership firms whether registered under the	
	Indian Partnership Act, 1932, please state further	
	whether by the partnership agreement to arbitration has	
	been conferred on the partner who has signed the Tender.	
	ii) If answer to the above is in negative whether there is	
	any general power of attorney executed by all the	
	partners of the firm authorizing the partner who has	
	signed the Tenders to refer dispute condemning business of the partnership to arbitration.	
	iii) If the answer to above is in point one and two is	
	affirmative please furnish a copy of either the partnership	
	agreement or the general power of attorney as the case	
	may be. The copy should be attested by a Notary Public or its execution would be admitted by affidavit on a	
	properly stamped paper by all partner	
5	Name and Full Address of your Banker's	
3	Name and Full Address of your Bankers	
6	Your Permanent Income Tax No./Circle/Ward	
7	Date of establishment of the agency/firm/company	
8	Any other relevant information	
9	Bid Security Deposited: (Write draft No./date/issuing bank	
	details)	
10	Document regarding registration /Certificate of incorporation of the firm issued by the appropriate government to be enclosed.	

11		ation for GST issued by appropriate equired services with the seal of the	
	tenderer to be enclose		
12		nit Income Tax returns of previous 2014-15, 2015-16 & 2016-17 along nent.	
13	Name and Address		
	whether the firm woul	d be representing at the opening of	
	the Tenders		
14	Name of the Perma	nent Representative to be visiting	
	CRIDA regarding the	contract	
15	AT/RH Sensors H-380	: Air Temperature & Relative	21 nos
	Humidity Sensor	•	
	Air Temperature		
	Type: HydroClip2 Prob	e, Temperature Range: -50 ⁰ C to	
	100°C,Accuracy: ± 0.5°	% @ -10 ^O C to 70 OC, Resolution:	
	0.02% Typical		
	RELATIVE HUMIDITY		
	RH Range: 0 – 100%, I		
	Make:	Existing component	Component quoted by
			bidder
		Rotronics (mfd. and supplied by	
		water log)	
	Model:	H-380	
	Compliance :	Same make	
	Standard:		
	Data Compliance :	Refer serial number 32	
	Rainfall Sensors H-3	40: Rainfall Sensor with Tipping	14 nos
16	Bucket		
	Resolution: 0.01 in. (@ 4 in. / hr.), Rate: 0 to 25 in. / hr.,		
	Calibrated @ 8.237 mL / tip = 0.01 in rainfall, Magnetic		
	Reed Switch, Type: Normally open encapsulated reed,		
		0.1A max, Contact Resistance: 0.2	
	ohms, Operating Temp		
	Make:	Existing component	Component quoted by
			bidder
		Water Log	
	Model:	H-340	
	Compliance :	Same make	
	Standard :	D. ())	
	Data Compliance :	Refer serial number 32	

	Solar Radiation Sensors	S SP-110: Solar Radiation Sensor	3 Nos
17	(Pyranometer)		
	Radiation Range: 0 - 17		
	zenith angle: ± 1%, Cosir	ne Response @ 75º zenith angle: ±	
	5%, Absolute Accuracy:	± 5%, Repeatability: ± 1%	
	Sensitivity: Custom calib	rated to exactly 5.00 W m ⁻² / mV,	
	Responsivity: 0.20 mV pe	er W m-2	
	Operating Environment: -	25°C to 55°C, 0 to 100% RH	
	Make:	Existing component	Component quoted by
			bidder
		APOGEE	
	Model:	SP-110	
		Same make	
	Compliance :	Same make	
	Standard :		
	Data Compliance :	Refer serial number 32	
18	(Ultrasonic anemometer) Wind Speed: 0 to 75 m/s (0 Resolution: 0.01 m/s Threshold: <0.01 m/s Accuracy: ± 2% ± 0.1m/s (30 Response Time: < 0.25 second Wind Direction: 0 to 360 decensions of the control	0 m/s), ± 3% (75 m/s) onds egrees onds S-485, SDI-12 d, RMYT, NMEA 200, 38400 /hr ction or U & V with ASCII & NMEA	Component quoted by bidde
	make.		Component quoted by blade
	Model:	RM YOUNG COMPANY RM YOUNG 86000 (ultrasonic	
		RM YOUNG 86000 (ultrasonic ANEMOMETER)	
	Model: Compliance : Standard :	RM YOUNG 86000 (ultrasonic	

8. FINANCIAL BID

(To be enclosed in a separate envelope and sealed) (To be filled in by the Tenderer duly printed on their letter head)

Schedule	Description of the goods offered	No.of	Unit Rate	Amount
		units	(Rs.)	(Rs.)
Supply of	" Automatic Weather Station Sensors"			<u> </u>
1	AT/RH Sensors H-380 : Air Temperature &	21 nos		
	Relative Humidity Sensor			
	Air Temperature			
	Type: HydroClip2 Probe, Temperature Range: -			
	50°C to 100°C,Accuracy: ± 0.5% @ -10 °C to 70°C,			
	Resolution: 0.02% Typical			
	RELATIVE HUMIDITY			
	RH Range: 0 – 100%, Resolution: Accuracy ±			
	0.5%,			
2	Rainfall Sensors H-340: Rainfall Sensor with	14 Nos		
	Tipping Bucket			
	Resolution: 0.01 in. (@ 4 in. / hr.), Rate: 0 to 25 in. /			
	hr., Calibrated @ 8.237 mL / tip = 0.01 in rainfall,			
	Magnetic Reed Switch, Type: Normally open			
	encapsulated reed, Rating: 200VDC max, 0.1A			
	max, Contact Resistance: 0.2 ohms, Operating			
	Temperature: -0 to +60 C			
3	Solar Radiation Sensors SP-110: Solar Radiation	3 Nos		
	Sensor (Pyranometer)			
	Radiation Range: 0 - 1750 W/m ² , Cosine Response			
	@ 45° zenith angle: ± 1%, Cosine Response @ 75°			
	zenith angle: ± 5%, Absolute Accuracy: ± 5%,			
	Repeatability: ± 1%			
	Sensitivity: Custom calibrated to exactly 5.00 W m ⁻²			
	/ mV, Responsivity: 0.20 mV per W m-2			
	Operating Environment: -25°C to 55°C, 0 to 100%			
	RH			
4	US wind Sensors RMYOUNG 86000: : Wind Speed	16 Nos		
	(Ultrasonic anemometer)			
	Wind Speed: 0 to 75 m/s (0 to 168 mph) Resolution: 0.01 m/s			
	Threshold: <0.01 m/s			
	Accuracy: $\pm 2\% \pm 0.1$ m/s (30 m/s), $\pm 3\%$ (75 m/s) Response Time: < 0.25 seconds			
	Wind Direction: 0 to 360 degrees			
	Resolution: 0.1 degree			
	Threshold: < 0.01 m/s Accuracy: ± 2 degrees			
	Response Time: < 0.25 seconds			

	Serial Output: RS-232 or RS-485, SDI-12 Formats: ASCII, ASCII polled, RMYT, NMEA Baud: 1200, 4800, 9600, 19200, 38400 Units: m/s, MPH, Knots, Km/hr Wind Format: Speed & Direction or U & V Status Indicator: Standard with ASCII & NMEA Output Update Rate: 0.1 to 20 Hz Power Requirement: 10 to 30 VDC, <20 mA typical		
Transport	tation of " Automatic Weather Station Sensors	"	
1	AT/RH Sensors H-380 : Air Temperature &	21 nos	
	Relative Humidity Sensor		
	Air Temperature		
	Type: HydroClip2 Probe, Temperature Range: -		
	50°C to 100°C,Accuracy: ± 0.5% @ -10 °C to 70°C,		
	Resolution: 0.02% Typical		
	RELATIVE HUMIDITY		
	RH Range: 0 – 100%, Resolution: Accuracy ±		
	0.5%,		
2	Rainfall Sensors H-340: Rainfall Sensor with	14 Nos	
	Tipping Bucket		
	Resolution: 0.01 in. (@ 4 in. / hr.), Rate: 0 to 25 in. /		
	hr., Calibrated @ 8.237 mL / tip = 0.01 in rainfall,		
	Magnetic Reed Switch, Type: Normally open		
	encapsulated reed, Rating: 200VDC max, 0.1A		
	max, Contact Resistance: 0.2 ohms, Operating		
	Temperature: -0 to +60 C		
3	Solar Radiation Sensors SP-110: Solar Radiation	3 Nos	
	Sensor (Pyranometer)		
	Radiation Range: 0 - 1750 W/m ² ,Cosine Response		
	@ 45° zenith angle: ± 1%, Cosine Response @ 75°		
	zenith angle: ± 5%, Absolute Accuracy: ± 5%,		
	Repeatability: ± 1%		
	Sensitivity: Custom calibrated to exactly 5.00 W m ⁻²		
	/ mV, Responsivity: 0.20 mV per W m-2		
	Operating Environment: -25°C to 55°C, 0 to 100%		
	RH	40.11	
4	US wind Sensors RMYOUNG 86000: : Wind Speed (Ultrasonic anemometer) Wind Speed: 0 to 75 m/s (0 to 168 mph) Resolution: 0.01 m/s Threshold: <0.01 m/s Accuracy: ± 2% ± 0.1m/s (30 m/s), ± 3% (75 m/s) Response Time: < 0.25 seconds Wind Direction: 0 to 360 degrees Resolution: 0.1 degree Threshold: < 0.01 m/s	16 Nos	

	Accuracy: ± 2 degrees			
	Response Time: < 0.25 seconds Serial Output: RS-232 or RS-485, SDI-12			
	Formats: ASCII, ASCII polled, RMYT, NMEA			
	Baud: 1200, 4800, 9600, 19200, 38400			
	Units: m/s, MPH, Knots, Km/hr			
	Wind Format: Speed & Direction or U & V Status Indicator: Standard with ASCII & NMEA			
	Output Update Rate: 0.1 to 20 Hz			
	Power Requirement:			
T., .4. 11.4	10 to 30 VDC, <20 mA typical		·:	
	ion and Commissioning of " Automatic Wea	T	tion Sensors	<u> </u>
1	AT/RH Sensors H-380 : Air Temperature &	21 nos		
	Relative Humidity Sensor			
	Air Temperature			
	Type: HydroClip2 Probe, Temperature Range: -			
	50° C to 100° C,Accuracy: ± 0.5% @ -10 $^{\circ}$ C to 70° C,			
	Resolution: 0.02% Typical			
	RELATIVE HUMIDITY			
	RH Range: 0 – 100%, Resolution: Accuracy ±			
	0.5%,			
2	Rainfall Sensors H-340: Rainfall Sensor with	14 Nos		
	Tipping Bucket			
	Resolution: 0.01 in. (@ 4 in. / hr.), Rate: 0 to 25 in. /			
	hr., Calibrated @ 8.237 mL / tip = 0.01 in rainfall,			
	Magnetic Reed Switch, Type: Normally open			
	encapsulated reed, Rating: 200VDC max, 0.1A			
	max, Contact Resistance: 0.2 ohms, Operating			
	Temperature: -0 to +60 C			
3	Solar Radiation Sensors SP-110: Solar Radiation	3 Nos		
J	Sensor (Pyranometer)	01103		
	Radiation Range: 0 - 1750 W/m ² , Cosine Response			
	@ 45° zenith angle: ± 1%, Cosine Response @ 75°			
	zenith angle: ± 5%, Absolute Accuracy: ± 5%,			
	Repeatability: ± 1%			
	Sensitivity: Custom calibrated to exactly 5.00 W m ⁻²			
	/ mV, Responsivity: 0.20 mV per W m-2			
	Operating Environment: -25°C to 55°C, 0 to 100%			
	RH			
4	US wind Sensors RMYOUNG 86000 : : Wind	16 Nos		
	Speed (Ultrasonic anemometer) Wind Speed: 0 to 75 m/s (0 to 168 mph)			
	Resolution: 0.01 m/s			
	Threshold: <0.01 m/s			
	Accuracy: ± 2% ± 0.1m/s (30 m/s), ± 3% (75 m/s)			
	Response Time: < 0.25 seconds			

	Wind Direction: 0 to 360 degrees				
	Resolution: 0.1 degree				
	Threshold: < 0.01 m/s				
	Accuracy: ± 2 degrees				
	Response Time: < 0.25 seconds				
	Serial Output: RS-232 or RS-485, SDI-12				
	Formats: ASCII, ASCII polled, RMYT, NMEA				
	Baud: 1200, 4800, 9600, 19200, 38400				
	Units: m/s, MPH, Knots, Km/hr				
	Wind Format: Speed & Direction or U & V Status Indicator: Standard with ASCII & NMEA				
	Output Update Rate: 0.1 to 20 Hz				
	Power Requirement:				
	10 to 30 VDC, <20 mA typical Applicable Taxes				
	Customs Duty, if any	%			
a.					
b.	GST	%			
		Grand Total			
Gross total cost: Rs (in figures) Rupees (in words)					
Station Sen (in figures)	to supply, Transportation, Installation & Commission sors" in accordance with the technical specifications of the (Rupees	for a total contract price of F	Rs		
		ignature:			
	Name:				
	I	Date:			