ICAR-CENTRAL TOBACCO RESEARCH INSTITUTE
Indian Council of Agricultural Research,
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RAJAMAHENDRAVARAM - 533 105, A.P., INDIA
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website - www.ctri.org.in; E-mail: ctri-ap@nic.in; (GSTIN 37AAAGC0822K1ZO)

F.No.36(AWS)/ 2018-19/A.III(P&S) **Dated: 11.01.2019**

e-TENDER NOTICE
(NON TRANSFERABLE)

The Director, ICAR-Central Tobacco Research Institute, Rajahmundry, A.P. invites Online Bids (e-tender : TECHNICAL BID & PRICE BID) from the eligible Parties / Firms / Agencies for Supply & installation of one number of 'AUTOMATIC WEATHER STATION' at ICAR-CTRI, Rajahmundry as per Section-I : Important Instructions for online Bidding, Sec-II : General Terms & Conditions for Supply, Sec-III : Technical Specifications / Scope of Supply, Sec-IV : Format for e-Bids (Quotations) & Sec-V : Any other relevant Documents attached here with the Tender Documents :

TENDER INFORMATON AND IMPORTANT DATES

EQUIPMENT DETAILS
AUTOMATIC WEATHER STATION (ONE NUMBER)

S.No.	ITEM DESCRIPTION	DATE, TIME AND INFORMATION
1	e-TENDER ISSUE / DOCUMENT DOWNLOAD START DATE & TIME	From 0930 hrs on 11.01.2019
2	ONLINE BIDS SUBMISSION	From 0930 hrs on 12.01.2019
3	LAST DATE FOR SUBMISSION OF EMD, TENDER FEE AND OTHER OFFLINE SUPPORTING DOCUMENTS AT OFFICE OF ICAR-CTRI, RAJAHMUNDRY	Up to 1400 hrs on 31.01.2019
4	BID OPENING DATE & TIME ((ONLINE) i. Technical Bid ii. Price Bid	 At 1500 hours on 01.02.2019 Will be intimated separately (through e-mail).
5	VALIDITY OF TENDER	90 days from the date of opening of e-tender
6	TENDER DOCUMENT FEE	Rs. 500/- (non-refundable), if tender document purchased from CTRI, Rajahmundry. (The interested tenderers can download the e-tender documents from CPP Portal / CTRI website at free of cost, if downloaded from websites an undertaking may be submitted for waiver of tender fee.]
7	EARNEST MONEY DEPOSIT	Rs. 28,000/- (refundable)

2. Tender documents may be downloaded from Central Public Procurement Portal https://eprocure.gov.in/eprocure/app & www.ctri.org.in. Aspiring Bidders/ Suppliers who have not enrolled/registered in e-procurement should enroll/register before participating through the website https://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at Section-I Regarding 'Important Instructions for online Bidding'.

3. The Bidder must be a Sole proprietor or individual Company/ HUF/ Partnership Firm/ Cooperative Society/ Corporation. b) Consortium of Companies is not allowed. Bidder should have PAN, VAT/CST registration, Central Excise registration, and GST registration (in case service tax, Central Excise registration is applicable) and submit the scanned copies of all necessary supporting documents through online. However, Tender Fee(if purchased from this office), EMD Fee and all other offline documents should be submitted to this office before due date for submission of e-tender.

4. This office is research organization under the aegis of Indian Council of Agricultural Research, Ministry of Agriculture and also registered with Department Scientific & Industrial Research and hence, eligible for concessional GST@5%. It is requested to consider the same while submitting price bid.

5. The bidders are requested to submit the online bids for Technical and Price bids as per the instructions indicated at Section -II. Manual bids shall not be accepted. You can have clarifications on technical specifications / issues from Dr. U Sreedhar (09397903313), Head, Div of Crop Protection, and administrative related issues from Shri SV Raamana (09492666563), AAO(P&S), ICAR-CTRI, Rajahmundry.

6. The Director, ICAR-CTRI, Rajahmundry reserves the right to change (increase/decrease) the quantity of items to be procured or to place Purchase Order for the selected items only, that is, some of the items may be omitted from procurement in entirety.

7. The decision of Director, CTRI, Rajahmundry will be final for any aspect of the contract and binding to all parties.

(B. SWARNA KUMARI)
SR.ADMIN.OFFICER
ICAR-CTRI, Rajahmundry

Encls: Section I to V

Copy to :

Tender Publisher, A-III(P&S) / OIC, AKMU / Notice Board.

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SECTION - I

IMPORTANT INSTRUCTIONS FOR ONLINE BIDDING

1. INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the Central Public Procurement (CPP) Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

2. REGISTRATION

(i) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal by using the "Click here to Enroll" option available on the home page. Enrolment on the CPP Portal is free of charge.

(ii) During enrolment / registration, the bidders should provide the correct / true information including valid email-id & mobile number etc. All the correspondence shall be made directly with the contractors/ bidders through email-id provided.

(iii) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

(iv) For e-Tendering possession of valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) is mandatory which can be obtained from SIFY/TCS/nCode/eMudra or any Certifying Authority recognized by CCA India on eToken/ Smart Card.

(v) Upon enrolment on CPP Portal for e-tendering, the bidders shall register their valid Digital Signature Certificate with their profile.

(vi) Only one valid DSC should be registered by a bidder. The Bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse and should ensure safety of the same.

(vii) Bidders can than log into the site through the secured login by entering their userID/ password and the password of the DSC/ e-Token.

3. PREPARATION OF BIDS

(i) For preparation of bid Bidders shall search the tender from published tender list available on site and download the complete tender document and should take into account corrigendum if any published before submitting their bids. After selecting the tender document same shall be moved to the 'My favourite' folder of bidders account from where bidder can view all the details of the tender document.

(ii) Bidder shall go through the tender document carefully to understand the documents required to be submitted as part of the bid. Bidders shall note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

(iii) Any pre-bid clarifications if required, then same may be obtained online through the tender site, or through the contact details given in the tender document.

(iv) Bidders should get ready in advance the bid documents to be submitted as indicated in the tender document/schedule in PDF/xls/rar/zip/dwf formats. If there is more than one document, they can be clubbed together using zip format.

(v) Bidders can update well in advance, the documents such as experience certificates, annual report, PAN, EPF & other details etc., under "My Space" option, which can be submitted as per tender requirements. This will facilitate the bid submission process faster by reducing upload time of bids.

4 SUBMISSION OF BIDS

(i) Bidder should log into the site well in advance for bid submission so that he/ she upload the bid in time i.e. on or before the bid submission time.

(ii) Bidder should prepare the Tender Fee and EMD as per the instructions specified in the NIT/ tender document. The details of the DD/BC/BG physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

(iii) While submitting the bids online, the bidder shall read the Terms & Conditions (of CPP portal) and accepts the same in order to proceed further to submit their bid.

(iv) Bidders shall select the payment option as offline to pay the Tender Fee/ EMD and enter details of the DD/BC/BG.

(v) Bidder shall digitally sign and upload the required bid documents one by one as indicated in the tender document.

(vi) Bidders shall not that the very act of using DSC for downloading the tender document and uploading their offers is deemed to be a confirmation that they have read all sections and pages of the tender document without any exception and have understood the complete tender document and are clear about the requirements of the tender document.

(vii) Bidder shall note that each document to be uploaded for the tender should be less than 2 MB. If any document is more than 2 MB, it can be reduced through zip/rar and the same can be uploaded. For the file size of less than 1 MB, the transaction uploading time will be very fast.

(viii) Utmost care shall be taken for uploading Schedule of quantities & Prices and any change/ modification of the price schedule shall render it unfit for bidding. Bidders shall download the Schedule of Quantities & Prices, in XLS format and save it without changing the name of the file. Bidder shall quote their rate in figures in white background cells, thereafter save and upload the file in financial bid cover (Price bid) only. If the template of Schedule of Quantities & Prices file is found to be modified in the eventuality by the bidder, the bid will be rejected. The bidders are cautioned that uploading of financial bid elsewhere i.e. other than in cover 2 will result in rejection of the tender.

(ix) Bidders shall submit their bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.

(x) After the bid submission (i.e. after Clicking "Freeze Bid Submission" in the portal), the bidders shall take print out of system generated acknowledgement number, and keep it as a record of evidence for online submission of bid.

(xi) Bidders should follow the server time being displayed on bidder's dashboard at the top of the tender site, which shall be considered valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system.

(xii) All the documents being submitted by the bidders would be encrypted using PKI (Public Key Infrastructure) encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology.

5. ASSISTANCE TO BIDDERS

(i) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.

(ii) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24 X 7 CPP Portal Helpdesk.

Toll Free Number 1800-3070-2232. Mobile Nos 91-7878007972 and 91 - 7878007973.

Note: The following 'FOUR KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to:-

(i) Obtain individual Digital Signature Certificate (DSC or DC) well in advance of tender submission deadline.

(ii) Register your organization on CPPP well in advance of tender submission deadline.

(iii) Get your organization's concerned executives trained on CPPP well in advance of tender submission deadline.

(iv) Submit your bids well in advance of tender submission deadline on portal (There could be last minute problems due to internet timeout, breakdown, etc.) While the first three instructions mentioned above are especially relevant to first-time users of portal, the fourth instruction is relevant at all times.

Note: Electronic procurement system will not allow any bidder to place their bids after the expiry of scheduled date & time. ICAR-CTRI shall not be responsible for any delays / problems related to bandwidth, connectivity etc., which are beyond the control of the ICAR-CTRI."

SECTION - II

GENERAL TERMS & CONDITIONS FOR SUPPLY

1. Non-transferable tender document containing details for supply of items, terms and conditions of the contract, etc., can be obtained from the office of the Senior Administrative Officer, ICAR-Central Tobacco Research Institute, Rajahmundry - 533105 on payment of Rs. 500.00 (non-refundable) through swiping on all working days during Office hours (0930 to 1700 hours). The tender document can also be downloaded at free of cost from CTRI's web site (www.ctri.org.in) / Central Public Procurement Portal web site (www.eprocure.gov.in). The tenderers who downloaded the tender document from websites may submit a undertaking for waiver of tender fee.

2. The Bidder must be a Sole proprietor or individual Company/ HUF/ Partnership Firm/ Cooperative Society/ Corporation. Consortium of Companies is not allowed.

3. The Bidder must possess a valid: - VAT/ Sales Tax Registration Certificate/GST Registration Certificate, Income Tax Registration / PAN Number. Bidder should provide an attested & valid copy of all the above-mentioned certificates along with the Technical bid.

4. The authorized dealer/channel partner should have domain knowledge and experience of executing, Installing / setting up of above equipment i.e. 'AUTOMATIC WEATHER STATION' . Authorized dealers/channel partners shall have at least 2 years of experience in maintenance of above equipments.

5. Dealer/channel partners shall be liable for services and non-compliance by the vendor. Dealer/channel partner will discharge all warranty/support responsibilities during the warranty period. Any defects / problems arises during warranty period is the sole responsibility of the supplier.

6. The qualified bidder shall supply all the spares and accessories for installation & Commissioning, as may be required during erection, initial operation of the facility till successful commissioning at ICAR-CTRI, RAJAHMUNDRY, Andhra Pradesh.

7. The bidder will have to arrange / provide for all the testing equipment & tools required for successful installation, testing & acceptance, maintenance, etc.

8. Complete Technical literature for quoted items from Dealer/Channel Partner along with make, model number, specifications, configurations, product brochures, etc. of the above equipment high lighting the special features of their offer should be supplied by the bidder along with the quotation / technical bid.

9. A scanned copy of the certificate on company letterhead, stating that the bidder hasn't been blacklisted by any institution/ organization/ society/ company of the Central / State Government ministry/department, or its public sector organizations during the last three years, with company stamp and signed by authorized signatory should also be uploaded.

10. For a bidder, who has participated in the tender bids, it will be automatically assumed that he had accepted all the terms and conditions of the tender. A statement specifying that the quotations are strictly as per the terms and conditions of the tender, should be enclosed with the bids. No request for deviation in the terms and conditions of the tender will be entertained. If there is any deviation from the terms

and conditions of the tender or the tenderer has uploaded conditional bids, the bid will be summarily rejected.

11. Bids should be valid for a minimum period of 90 days after closing date of the submission of bids.

12. The online bids (e-tender) shall be submitted in two parts, viz., Technical Bid and Price Bid.

TECHNICAL BID (COVER-1)

A) SOFT COPIES THROUGH ONLINE SUBMISSION

The following Scanned copies of documents are to be furnished by the bidder as part of Technical Bid as per the tender document.

i. Scanned copy of documents like copies of DDs for Tender document Fee & Earnest Money Deposit etc. should be uploaded on the portal PAN Number of the firm.
ii. Valid registration number of the firm along with the CST/VAT/GST number allotted by the sales tax department.
iii. Scanned copies of technical specifications of the items offered along with the supporting literature, brochures, drawings, names of the supplier / manufacturer, standard warranty period as offered by Dealer/Channel Partner and commercial terms, etc.
iv. Scanned copy of Tender Acceptance Letter (Annexure-1) & Manufacturers Authorization Form (Annexure-2)
v. In case tender documents downloaded from CTRI website/ CPP portal free of cost, an undertaking may be submitted for waiver of tender fee
vi. An undertaking may be submitted on company letterhead, stating that the bidder hasn't been blacklisted by any institution/ organization/ society/ company of the Central / State Government ministry/department, or its public sector organizations during the last three years

Note : The original payment instruments like Demand Draft etc as specified in this tender document and other important documents, if any uploaded, have to be sent to The Director, ICAR-Central Tobacco Research Institute, Bhaskar Nagar, Rajahmundry-533105, E.G.Dt. Andhra Pradesh by post/speed post/courier/by hand on or before Bid submission closing Date & Time. Otherwise the bids will be summarily rejected without assigning any reason.

Note : Manual bids shall not be accepted. Any submission of copies of manual bids leads to rejection.

B) HARD COPIES THROUGH OFFLINE SUBMISSION:

Bidders shall submit the hard copies of all above mentioned documents, including Demand Drafts for tender fee, EMD, etc, in original, in separate sealed envelope by the due date duly superscribed on the cover as tenders for supply of "AUTOMATIC WEATHER STATION".

PRICE BID (COVER-2)

(The Financial Bids of only technically qualified bidders will be opened).

i. Schedule of price bid is in the form of BoQ.xls should be submitted online as per instruction indicated at Section -I above. The BOQ.xls (Price bid format) is provided / available during online bid submission at https:// eprocure.gov.in/eprocure/app. Bidders are advised to download this BoQ.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will not be accepted by the CPP Portal and will be completely rejected and EMD would be forfeited.

ii. L1 shall be evaluated on total amount inclusive of all taxes, etc as mentioned in the Financial Bid Format.

iii. The Bids must be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/app. on or before the due date. The System will not allow for submitting the bid after due date & time and hence requested to make necessary arrangements to submit the online bid within the due date and time. The Technical bids received online will be opened on 01.02.2019 at 1500 hrs.

Note : This office is research organization under the aegis of Indian Council of Agricultural Research, Ministry of Agriculture and also registered with Department Scientific & Industrial Research and hence, eligible for concessional GST@5%. It is requested to consider the same while submitting price bid.

13. Tenderer is duty bound to observe all the Laws, Rules, Regulations, Policies, Procedures and Guidelines of the Central Vigilance Commission and Government of India as in force from time to time. The Director, ICAR-CTRI, Rajahmundry reserves the right to accept or reject any bid or cancel tender proceedings without assigning any reason whatsoever.

14. Incomplete quotations are liable to be rejected.

15. All the pages and write-up/documents uploaded with the quotation should be sequentially numbered and shall be signed by authorized signatory with organization's rubber stamp.

16. The bidders shall not submit Conditional tenders, tenders with suggestions on whatsoever ground, such tenders shall be summarily rejected and in such case, the Director, ICAR-CTRI, Rajahmundry may forfeit the EMD also.

17. The rates are to be quoted by the bidders in Indian Rupees only and payment shall be made to successful bidders in Indian Rupees only. Statutory applicable taxes (Sales Tax, VAT, GST, etc.) should be mentioned separately in the Financial Bid. L_1 will be evaluated on total price quoted inclusive of Taxes. However quote should be inclusive of all other levies, statutory taxes and charges such as Octroi, Packaging & Forwarding charges etc. and should be delivered, installed & commissioned at the premises of ICAR-CTRI, Rajahmundry, E.G.Dt. AP.

18. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted strictly as per the 'Financial Bid Format' provided on CPP Portal.

19. EARNEST MONEY DEPOSIT (EMD)

(i) The Earnest Money Deposit of Rs. 28,000/- should be submitted in the form of Demand Draft/Bank Guarantee/Banker's cheque / FDR drawn in favour of "ICAR UNIT-CTRI' payable at Rajahmundry. A scanned copy is to be uploaded along with Technical Bid and original copy should be sent by post to this office to reach well within the due date.

(ii) Quotations uploaded without EMD will be rejected.

(iii) The EMD of the tenderer shall be forfeited without prejudice to any other rights or remedies as given below: -

(a) If the tenderer withdraws his tender during the specified period of tender validity.

(b) If, after acceptance of his tender, the tenderer fails to supply the items.

(c) If, after acceptance of his tender, the tenderer fails to furnish the Security Deposit.

(iv) The Earnest Money Deposit (EMD) of unsuccessful tenderers will be refunded on finalization of the tender. Further, no interest on EMD will be paid.

20. PERFORMANCE SECURITY

(i) Successful bidders shall submit a Performance Security of 10% of the cost of the supply order within 15 days of the placement of purchase order in the form of Demand Draft/Bank Guarantee(Annexure-3)/Banker's cheque/FDR.

(ii) In case of the Performance Security is in the form of Bank Guarantee from any Nationalized Banks/scheduled banks, the Bank Guarantee shall be valid for 60 days more after the completion of all Contractual Obligations as per the tender documents including warranty.

(iii) In case, supplier either fails to deliver the items within delivery period or does not provide satisfactory maintenance service during the warranty period, the Performance Security submitted by the firm shall be forfeited.

(iv) Performance Security shall be released after 60 days over and above the warranty period.

(v) Warranty will start after successful delivery, installation and commissioning of equipments and after issuing of Acceptance Certificate.

(vi) The proceeds of the Performance Security deposit shall be payable to the Purchaser as compensation for any loss (including loss of opportunity, time or cost) resulting from the Supplier's /Bidder's failure to comply with its obligations under the Contract.

(vii) No interest will be paid by the Director, ICAR-CTRI, Rajahmundry on the Performance Security.

21. EVALUATION CRITERIA -

(i) The Financial Bids of only technically qualified bidders will be opened. The financial bids will be evaluated by a Technical Evaluation Committee.

(ii) L_1 shall be evaluated based on total quoted amount inclusive of taxes as mentioned in the Financial Bid Format.

22. WARRANTY : The warranty period for the items/systems shall be taken into account as per the "Warranty Requirement mentioned in the Technical Specification" from the date of completion of supply of product and its successful installation/commissioning and acceptance by the Director, ICAR-CTRI, Rajahmundry, whichever is later.

The supplier shall fulfill the following conditions during warranty period:

(i) Any failure in the system or a subsystem thereof should be rectified within maximum period of 48 hours of lodging complaint

(ii) Any system, failing at subsystem level at least three times in three months, displaying chronic system design or manufacturing defects or Quality Control problem, will be totally replaced by the supplier at his cost and risk within 30 days, from the date of last failure.

23. DELIVERY:

(i) The rates quoted for supply of items are F.O.R. ICAR-CTRI, RAJAHMUNDRY, East Godavari District, Andhra Pradesh. All aspects of safe delivery shall be the exclusive responsibility of the supplier. At the destination Sites, the cartons will be opened only in the presence of concerned Officer of ICAR-CTRI and Vendor's representative and in the intact position of the Seal for not being tampered with, shall form the basis for receipt in good condition.

(ii) The delivery of the items must be made within SIX weeks from placement of the purchase order. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all of the following sanctions - forfeiture of its Earnest Money Deposit, imposition of liquidated damage as per the respective Clause or / and cancellation of the purchase order for being defaulter.

(iii) The supplier must apply to the respective authority for issue of road permit /waybill in time. Delays on account of getting relevant permits shall not make vendors' eligible for waiver of penalties.

(iii) The Vendor should install all the items at specified site without any additional charge.

(V) PENALTY FOR LATE DELIVERY and LIQUIDATED DAMAGES: If the supplier fails to either deliver any or all of the goods or do not complete the installation within the period as specified in the purchase order, the Director, ICAR-CTRI, Rajahmundry shall without any prejudice to its other remedies, deduct liquidated damage at the rate of one per cent (1%) of the quoted price for the delayed goods for every week or part thereof subject to a maximum of 10% of the contract value

24. PAYMENT : Pre-receipted bill/ Invoice, in triplicate in the name of the Director, ICAR-CTRI, Rajahmundry duly supported by purchase order, Delivery Challan, Inspection / Acceptance Certificate after installation, commissioning and testing of the items at site should be submitted to the Director, ICAR-CTRI, Rajahmundry for processing the payment. Bank details like A/C no., IFSC Code, etc may be submitted along with bill to enable processing payment through online.

25. FORCE MAJEURE : In the situations which are beyond the control of vendor i.e. Acts of God, War, Floods, Riot, Earthquake, General Strike, Lock outs, Epidemics, Civil Commodities, the bidder shall provide their best possible service in given circumstances.

26. ARBITRATION: In the event of any dispute or disagreement under or in relation to this Agreement or over the interpretation of any of the terms herein above contained or any claim or liability of the party, the same shall be referred to the independent arbitrator to be nominated by the Director, ICAR-CTRI, Rajahmundry. The intending party will serve notice in writing up on the other party notifying its intention for appointment of Arbitrator if both parties fail to agree by mutual consent, then the Director, ICAR-CTRI, Rajahmundry will appoint the Sole Arbitrator. The provisions of Arbitration and conciliation Act 1996 shall apply. All disputes arising over these terms and conditions shall be in the exclusive jurisdiction of courts in Rajahmundry, East Godavari Dist, Andhra Pradesh - 533105.

SECTION - III

Technical Specifications of Automatic Weather Station

A. Sensors for weather observation
B. Data Logger and power unit
C. Communication unit
D. Lap top for retrieving, storing and processing & printing of AWS data.
E. Fencing , civil works and installation
The detailed specifications, for above components are given below

A. SENSORS FOR WEATHER OBSERVATION

All the sensors shall have traceability to National Institute of Standards and Technology (NIST), USA or equivalent International accreditation standards. Every instrument should be certified by IMD. The sensor specifications for recording each of the above weather variables are given below;

1. Air Temperature

a)Type precision: RTD/Sensor : PRT based
b) Range : -40°C to +60°C
c) Accuracy : ± 0.3 °C or better (with radiation shield)
d) Resolution : + 0.1 °C
e) Sensor Type : Resistance / Thermistor
f) Response Time : 10 sec or better
g)Out put signal range: 0 to 1.0 V (typical)

2. Relative Humidity

a) Range : 0 to 100% RH
b) Accuracy : ± 2% or better
c) Resolution : 1%
d) Sensor Type : Capacitive / Solid-state
e) Response Time : 10 sec. or better

3.Solar Radiation

a) Pyranometer based sensor
b) Range : 0 to ~ 1750 W/m2
c) Operating Temperature : -10°C to +60°C
d) Resolution: 1 W/m2
e) Accuracy: 1 W/m2
f) Light spectrum wave band: 400 – 1100 nm

4. Rainfall

a) Range : 0 to 500 mm per hour
b)Tips at 0.1 mm increments (0.004 in)
c) Accuracy : ± 2 %
d) Resolution : 0.2 mm
e) Sensor Type : Tipping bucket rain gauge or other suitable sensor
f)The bucket should have leveling arrangement for horizontal mounting

5. Wind Speed and Direction sensor

The sensor should be made out of rigid UV-stabilized thermoplastic with corrosion proof SS and anodized aluminum fittings. Sensor should have SS precision –grade ball bearings for the propeller shaft and vertical shaft bearings

a) Wind Speed (Propeller type / type three cup anemometer)

a) Range (operation) : 0 to 50 m/sec

b) Accuracy : ± 0.5 m/s or better

c) Resolution : 0.1 m/s or 0.36 km/hr

d) Threshold : 0.2 m/sec

b. Wind Direction

a) Range : 0 to 360

b) Accuracy : ± 3°

c) Resolution : 10

d) Starting threshold :1.1 m/sec

6.Soil moisture sensor

Range 0-100% saturation

Accuracy: ± 2%

Power requirements: 12 VDC ± 20 % @40 mA

7. **Soil temperature sensor**

a) Sensor type: Thermistor

b)Standard Sensor: Pt 100, IEC 751: 1983 class A

c) Alternative sensors: Pt 500 ,Pt 1000

d)Measurement range: -60 to 150 ° C, cable remaining flexible

e) Accuracy: ±0.25 ° C to ±0.15 ° C

8)Leaf temperature sensors

Analogue Out put range: 1.45 to 3.6 vdc

Input voltage: (vdc): 3.0 (min), 3.3 typical, 5.0 (max)

Signal resolution (16 bit): >0.00001vdc

9) Leaf wetness sensor

Power requirement: 12 VDC @ 1.0 mA

Output: 0 to 5 VDC

Red: + 12 VDC

Black: Ground

Brown: Signal out 0 to 5 VDC

10) Canopy temperature

Sensor – to- canopy range: Typically 10 in (25 cm) to > 723 in (183 cm)

Field- of -view:~30 degrees by 14 degrees

Active light source: Modulated polychromatic LED array

Photo detection: Three channel silicon photodiode array with spectal range of 320 nm to 1100 nm

11. Lap top (with suitable high quality leather case & External HDD & Power Bank) & **printer** for retrieving, storing and processing & printing of AWS data.

Lap Top Specifications
Think pad X1
Processor
Intel Core i7-8550U (Intel Core i7)
Graphics adapter
Intel UHD Graphics 620, Core: 300 - 1150 MHz, shared memory, 23.20.16.4877
Memory
16384 MB , 2x 8 GB LPDDR3-1866, dual-channel, firmly soldered on, not expandable
Display
14 inch 16:9, 2560 x 1440 pixel 210 PPI, 10-point touch, Lenovo 40AE / B140QAN02.0, IPS Dolby Vision HDR, glossy: yes
Mainboard
Intel Kaby Lake-U iHDCP 2.2 Premium PCH
Storage
SSD 1 TB + HDD 1TB
Soundcard
Intel Kaby Lake-U/Y PCH - High Definition Audio
Connections
2 USB 3.0 / 3.1 Gen1, 2 USB 3.1 Gen2, 2 Thunderbolt, 1 HDMI, 2 DisplayPort, 1 Kensington Lock, Audio Connections: 3,5-mm combined audio jack, Card Reader: SD, SDHC, SDXC, UHS-II, 1 Fingerprint Reader, NFC, Brightness Sensor
Networking
Intel Ethernet Connection I219-V (10/100/1000MBit), Intel Dual Band Wireless-AC 8265 (a/b/g/n/ac), Bluetooth 4.2
Size
height x width x depth (in mm): 17.05 x 333 x 229 (= 0.67 x 13.11 x 9.02 in)
Battery
54 Wh Lithium-Polymer, 4 cells
Operating System
Microsoft Windows 10 Home 64 Bit
Camera
Webcam: 720p, 0.9 MP
Additional features
Speakers: stereo, down-firing (Notebook mode), Keyboard: chiclet, Keyboard Light: yes, Stylus, USB-Type-C-to-Type-A adapter, Mini-Ethernet-to-Ethernet-(RJ45) adapter, 36 Months Warranty
Weight
1.423 kg, Power Supply: 356 g

Portable External Hard Drive Specifications

WD My Passport 4 TB
Auto Backup Software: backup for windows

Password Protection and Hardware Encryption 256-bit AES Hardware Encryption
Interface USB 3.0. USB 2.0 compatible.
Works With Windows,
Height 22 mm ; Width 8.2 cm; Weight 245 g
Dimensions 11 x 8.2 x 2.2 cm
Hard Drive Size 4000 GB ; Hard Drive Interface USB 2.0/3.0 :
Number of USB 2.0 Ports : 1 or more than 1
Hardware Platform PC, Mac
Components Portable Hard Drive, USB 3.0 Cable

Power Bank Specifications

Sony CP-V20A/BC
Built-in 20,000 mAh2 Lithium-ion polymer battery Battery Capacity 3.7 V 20,000 mAh
1,000x5 rechargeable
3.0 A total output with 2 ports for fast-charging
length 135.5 mm width 76 mm

Printer specifications

Laser Printer (Black & white)
HP Laser Jet Pro M 202 DW
Print Speed 21-30
Ports 1 Hi-Speed USB 2.0; 1 Ethernet 10/100
Network ready standard (built-in Ethernet, WiFi 802.11b/g/n)
Connectivity, standard 1 Hi-Speed USB 2.0; 1 Ethernet 10/100
Network capabilities via built-in Ethernet
Mobile printing capability HP ePrint; Wireless Direct Printing
Network protocols, supported TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Web Services Printing; Discovery: SLP, Bonjour, Web Services Discovery; IP Config: IPv4 (BootP, DHCP, AutoIP, Manual), IPv6 (Stateless Link-Local and via Router, Statefull via DHCPv6); Management: SNMPv1, HTTP
196 x 34 pixel graphic LCD
Cartridges and Printer heads Laser
Print SpeedUp to 26 ppm
Print speed duplex (A4) Up to 15 ipm
Print speed duplex (letter) Up to 16 ipm
Power Consumption 450 watts (Printing), 2.2 watts (Ready), 0.1 watts (Auto-Off), 0.1 watts (Manual-Off)
Printer management Windows: HP Device Toolbox, Status Alerts (default install), SNP Alerts (minimum network install), HP Web Jetadmin (download); Mac: HP Utility
WARRANTY 1 Year Next Business Day Exchange Support
Memory 128 MB
DIMENSIONS 384 x 280.7 x 250.9 mm Weight 6.6 kg

12. Application soft ware to access all AWS data , display and analysis
In addition Tower and mounting hard ware, enclosure fiber glass for safe fixing of data logger and kit for tower and tripod mounting and enclosure for out door battery case with lockable pole mount.

B. DATA LOGGER AND POWER UNIT

The data logger shall automatically collect the observations from attached sensors, process the same, store them into its memory as per the pre program and data shall be transmitted through GSM / GPRS communication to the receiving unit setup at CTRI- Rajahmundry.. The number of analog/digital/SDI channels in the data logger must be 15 or more.

The data logger should perform the following tasks;
Memory capacity to retain at least one year's data of all the parameters. Data shall be available even if the power supply to the system has failed (RAM Backup) for six months. The stored data shall be retrievable via serial port to a PC/laptop or any other compact and commercially available solid-state memory device. The system shall allow the remote access via communication unit from the base station to know the status of sensors and check log files through a software solution as required and shall have selectable options. The system shall have a weather–proof housing and a suitable tower of galvanized iron / non-rusting / rust resistant material.

Power Supply

a) Battery: Single 12 V chargeable maintenance-free battery ~ 25 AH capacity or higher to accommodate power consumption by GSM / GPRS modem and accessories. Back-up battery: Sealed lithium 12 V battery of ~ 5 AH capacity or other suitable one.
b) Charge controller: Internal or External
c) Solar panel: Rated capacity 20W. Open circuit voltage: 21 V, Short circuit current 2.4 A.

C.COMMUNICATION UNIT

Overall requirements for compatibility to a GSM /GPRS cellular network may be ensured by the tenderer. Complete end-to-end solution shall be the responsibility of the tenderer. The tenderer has to identify a GSM provider who is offering GPRS service and willing to give special service because of the nature of requirement and public utility of the data transfer. They can negotiate with the service provider for a server management for this specialized task.

Storage: Should have adequate memory to store the periodical data received from AWS data logger and transfer. It should also contain configuration information about details of the GSM / GPRS Communication Unit.
Data Compression: Data stored in the memory should be in a compressed format for maximum efficiency.
Data Recording: Should support recording interval as low as 1 sec and it should be user selectable. The storage details have to be communicated to the server and an interface should be provided to manage the storage space of communication unit from the server.

Data transmission through GPRS

The system should be able to send the collected and stored weather data to the data server through GPRS in a compressed format. The data transmission interval should be configurable over the air and any new transmissions should happen as per the newly configured interval. Whenever there is a break in the transmission due to the signal coverage, the system should try repeatedly and send the data back to the server ensuring zero data loss. Any failure in GPRS data transmission to the Primary IP should automatically attempt data transfer to the Secondary IP. During a signal loss condition, the system should keep trying for the transmission and resume the transmission once the GPRS network is available.

Conditions:

i) Every instrument should be certified by IMD
ii) Price of each item should be quoted separately
iii) Mounting hardware should be provided for the sensor
iv) Data output should be compatible to the dedicated data logger
v) All the sensors should have at least 20 m cable for proper connectivity to the data- logger
vi) Annual maintenance contact should be available
vii) Price of each item should be including installation charges

D. FENCING AND CIVIL WORKS

The AWS should be protected with galvanized iron (GI) fence supported by GI angles erected using required cement concrete. The structural specification to be followed by the tenderer like mesh size and thickness should be explicitly declared in the bid for ascertaining the strength of the fence.

• A lightning arrester also need to be provided for all AWS units. Earthing pit shall be laid out as per Government standards.
• Fencing and mast should be painted with good quality white paint.

E Other Conditions

Price for each item should be quoted separately.

Warranty: 3 years

Annual maintenance contract should be available after warranty period

All deliveries and installation will be at ICAR- Central Tobacco Research Institute, Rajamundry, E.G.Dt., AP.

SECTION - IV

FORMAT FOR E-BIDS (QUOTATIONS)

Name of the Tenderer : _____

Address: _____

_____

I/we hereby submit the consolidated financial proposal for e-Procurement of the following items given in this tender document within the time specified and in accordance with the terms and conditions. The rates are quoted in the prescribed format given below:

S.No.	Description of the items	Quantity	Unit Price with three years comprehensive onsite warranty in Rupees	Taxes / Unit (if any) in Rs.	Total amount with Taxes in Rupees
1					
	OPTIONAL ACCESSORIES, if any other than scope of supply (NEED TO BE QUOTED SEPARATELY)				
	TOTAL				
RUPEES IN WORDS :					

Declaration: The rates quoted above are at par with prevailing market rates and services/ Products/ Goods supplied will be of requisite specification and quality.

Note:

1. The rate should not be provided as a percentage figure.
2. The Tenderer is advised to quote rate in absolute Indian Rupees.
3. The rate quoted shall be valid for 90 days from the date of opening of technical bid. The period can be extended with mutual agreement.
4. No condition will be entertained and conditional tender will be rejected.
5. Billing will be on as per actuals.

Date

Signature of Tenderer

Name :

Designation / Company seal

FORMAT FOR E-BIDS TO BE SUBMITTED ONLINE (QUOTATIONS)

Validate Print tem Help

Tender Inviting Authority: The Director, ICAR-CENTRAL TOBACCO RESEARCH INSTITUTE, BHASKAR NAGAR, RAJAHMUNDRY, ANDHRA PRADESH - 533105

Name of Work: AUTOMATIC WEATHER STATION (AWS)

Contract No: e-Tender No. 36(AWS)/2018-19/ADM-III(P&S) dated 11.01.2019

Bidder Name :

PRICE SCHEDULE

(DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to Bidder Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	TEXT	NUMBER #	NUMBER #	T
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Estimated Rate	BASIC RATE In Figures To be entered by the Bidder Rs. P	Excise Duty Amount in INR	VAT Amount in INR	Freight Charges (Unloading & Stacking)	Any Other Taxes	Any Other Duties/Levies	TOTAL AMOUNT Without Taxes col (13) = (4) x (7)	TOTAL AMOUNT With Taxes col (14) = sum (8) to (13)	TOTA AMO Word
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Automatic Weather Station with all accessories as per scope of supply	item1	1.00	Nos	0.00							0.00	0.00	INR Z
												0.00	0.00	INR Z
Total in Figures												0.00	0.00	INR Z
Quoted Rate in Words		INR Zero Only												

SECTION – V

OTHER RELEVANT DOCUMENTS

Annexure-1

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

Date:_____

To,
The Director
ICAR-CTRI
Bhaskar Nagar,
Rajahmundry
E.G. Dist, AP - 533105

Sub: Acceptance of Terms & Conditions of Tender.

Dear Sir,

I/ We have downloaded / obtained the tender document(s) for the above mentioned 'e-Tender' from the web site(s) namely: **downloaded from Central Public Procurement Portal https://eprocure.gov.in/eprocure/app & www.ctri.org.in** as per your advertisement, given in the above mentioned website(s).

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, Sections I to V, etc., which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.

I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

In case any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit and initiate legal action under Prevention of Corruption Act 1988 and stipulations contained in Indian Penal Code.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Annexure-2

MANUFACTURER'S AUTHORIZATION FORM

To

The Director,
ICAR-Central Tobacco Research Institute,
Bhaskarnagar, RAJAHMUNDRY - 533 105.

Dear Sir,

Ref : Your tender document No. Dt.

We .....(Manufacturer Name) established and reputed manufacturers of ..... (Equipment name) here by authorize M/s.....(Dealer name) to submit a tender, negotiate (as and if necessary) and conclude the contract with you against your above mentioned bidding documents for the above goods manufactured by us.

No company or firm or individual other than .....(dealer name and address) is authorized to tender, negotiate and conclude the contract against this specific bidding documents for the above mentioned goods manufacture by us.

We hereby extend our full guarantee and warranty as per instructions of the General Conditions of Contract, read with modification, if any, in the special conditions of contract for the goods and services offered for supply against this tender document by the above firm.

Yours faithfully,

(Signature, name and designation)
For and on behalf of M/s.....
(Name & Address of the manufacturers)

NOTE : This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Annexure-3

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To
The Director,
ICAR-Central Tobacco Research Institute,
Bhaskarnagar, RAJAHMUNDRY - 533 105.

WHEREAS ..... (Name and address of the supplier) (Hereinafter called 'the supplier') has taken, in pursuance of contract No..... dated.....to supply .....(Description of goods and services) (Hereinafter called 'The Contract').

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a recognized bank acceptable to you, for the sum specified therein as security for compliance with its (supplier's) obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of Rs..... (Amount of the guarantee in works and figures), such sum being payable in the types and proportions of currencies in which the contract price payable, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We further undertake to pay you the sum so demanded notwithstanding any dispute or disputes raised by the supplier in any suit of proceedings pending before any court or tribunal relating thereto liability under this present being absolute and univocal.

We also hereby waive the necessity of your demanding the said amount from the supplier before presenting us with the demand.

We further agree that you shall have the full out liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the contract or to extend the time of performance by the supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by you against the supplier and to forbear or enforce any of the terms and conditions relating to the contract and we shall not be relieved from our liability under this guarantee.

This guarantee shall be valid and shall remain in force until .....day of .....2018.

DATED THE.....

DAY OF.....2018.

FOR.....(NAME OF THE BANK)

SIGNATURE.....

NAME OF THE OFFICER .....(IN BLOCK LETTERS)

DESIGNATION OF THE OFFICER.....

CODE No.....

NAME OF THE BANK AND FULL ADDRESS.