




# Ch. Charan Singh University, Meerut

## e-Tender Notice

Dated: 25-09-2020

e-Tender Notice No : FC/ 162

e-Tenders are invited from the respective firms for the work related to Providing the Gas Sensing Set-Up in two bid system. Terms and conditions of work are given and can be downloaded from website [www.etender.up.nic.in](http://www.etender.up.nic.in) and University website [www.ccsuniversity.ac.in](http://www.ccsuniversity.ac.in). The cost of tender form is Rs. 1050/- (Rs. 1000/- as tender form cost + 5% G.S.T.; non-refundable) and Earnest Money Rs. 1,00,000.00 paid by Online/RTGS/NEFT only. Tender form will be submitted online before 27.10.2020 up to 2.00 p.m. The Technical bid of tender will be opened on same day at 4.00 p.m. The financial bid of tender will be opened as notified at the time of opening of technical bid.

  
Finance Officer




**CHAUDHARY CHARAN SINGH UNIVERSITY, MEERUT**

**e-Bid Form**

of

e-Tender Notice No. FC/162 Dt:25-09-2020

  
Finance Officer



**Ch. Charan Singh University, Meerut.****E-Bid Document**

*For*  
JOB No:

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## INSTRUCTIONS TO BIDDERS (ITB)

### **(A) THE BID DOCUMENT**

#### **1) Cost of Bid Document/ e-Bid Processing Fee**

- i) The bidder shall bear all costs associated with the preparation and submission of its e-Bid. Ch. Charan Singh University, Meerut hereinafter referred to as "CCSU", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the e-Bid process.
- ii) This bid document is available on the web site <http://etender.up.nic.in> to enable the bidders to view, download the e-Bid document and submit e-Bids online up to the last date and time mentioned in e-Bid notice/e-bid document against this e-Bid. The bidders shall have to pay cost of bid document/e-Bid processing fee as per e-Tender Invitation Notice through Online/RTGS/NEFT. UTR No. must be enclosed along with the e-Bid. This cost of bid document/e-Bid processing fee will be non-refundable. Bid without cost of bid document/ e-Bid processing fee will not be accepted.

Bank Name: Indian Bank (Allahabad Bank), Meerut University Branch, Meerut.  
 A/c. No.: 50488321629 (E TENDER C C S UNIVERSITY MEERUT)  
 IFS Code No.: ALLA0210144.

#### **2) Contents of e-Bid Document**

- i) The scope of work, e-Bid procedure and contract terms and conditions are prescribed in the e-Bid document. The e-Bid document includes:
  - (1) Invitation for e-Bid
  - (2) Section I : Instructions to Bidders;
  - (3) Section II : Conditions of Contract;
  - (4) Section III : Technical e-Bid (Applicable only for Works as mentioned in e-Bid Notice);
  - (5) Section IV : Financial e-Bid;
- ii) The bidder is expected to examine all instructions, forms, terms and specifications in the e-Bid document. Failure to furnish all information required as per the e-Bid document or submission of e-Bid not responsive to the e-Bid document in every respect will be at the bidder's risk and may result in rejection of the said e-Bid.

#### **3) Amendment of e-Bid Document**

- i) At any time prior to the deadline for submission of e-Bid, CCSU may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the e-Bid document by amendments. Such amendments shall be uploaded on the e-Procurement website <http://etender.up.nic.in> through corrigendum and shall form an integral part of e-Bid document. The relevant clauses of the e-Bid document shall be treated as amended accordingly.
- ii) It shall be the sole responsibility of the prospective bidders to check the website <http://etender.up.nic.in> from time to time for any amendment in the e-bid document. In case of failure to get the amendments, if any, CCSU shall not be responsible for it.
- iii) In order to allow prospective e-Bidders a reasonable time to take the amendment into account in preparing their e-Bids, CCSU, at his discretion, may extend the deadline for the

submission of e-Bids. Such extensions shall be uploaded on the e-Procurement website <http://etender.up.nic.in>.

#### 4) Language of e-Bid

The e-Bid prepared by the bidder, as well as all correspondence and documents relating to the e-Bid exchanged by the bidder and CCSU shall be written either in English or Hindi language. The correspondence and documents in Hindi must be accompanied by embedded/separate Hindi font files. Only English numerals shall be used in the e-Bid.

#### 5) Documents Constituting the e-Bid

The eBid prepared by the bidder shall comprise the following components:

##### (a) Prequalification :-

- (i) **Fee Details** - It will consist of the cost of bid document/ e-Bid processing fee document and prescribed earnest money in prescribed form.
- (ii) **Eligibility Criteria** - It will consist of the details as per the Tender Document.

##### (b) Financial e-Bid - Financial e-Bid will comprise of:

- **Price Schedule/BOQ** - includes Price Schedule/BOQ in XLS/PDF format to be filled in after downloading from the e-Procurement website for this e-bid.

#### 6) e-Bid Form

The bidder shall complete the e-Bid Form and the appropriate Price Schedule/BOQ furnished in the e-Bid document.

#### 7) e-Bid Currencies

Prices shall be quoted / calculated in Indian Rupees only.

#### 8) Documents Establishing bidder's Qualification

- i) The bidder shall furnish, as part of its Technical e-Bid, documents establishing the bidder's qualification to perform the Contract if its e-Bid is accepted. The documentary evidence should be submitted by the bidder electronically in the PDF format.
- ii) The documentary evidence of bidder's qualification to perform the Contract if its e-Bid is accepted shall be as per Qualification Requirements specified in e-bid document.

#### 9) e-Bid Security/Earnest Money Deposit (EMD)

- i) The bidder shall furnish, as part of its e-Bid, an e-Bid security/ EMD as per the e-Tender notice in form of Deposit Amount by Online/RTGS/NEFT in University Account and UTR No. must be enclosed alongwith e-Bid. Bid without Earnest Money is not accepted.
- ii) Any e-Bid not secured in accordance with above shall be treated as non-responsive and rejected by CCSU.
- iii) Unsuccessful bidder's e-Bid security will be returned promptly as possible after the acceptance of e-Bid.
- iv) The successful bidder's e-Bid EMD will be converted into security upon the bidder signing the Contract.

v) The e-Bid security may be forfeited:

(a) if a bidder (i) withdraws its e-Bid during the period of e-Bid validity specified by the bidder on the e-Bid Form; or (ii) does not accept the correction of errors or (iii) modifies its e-Bid price during the period of e-Bid validity specified by the bidder on the e-Bid form or

(b) in case of a successful bidder, if the bidder fails:

(i) To sign the Contract with CCSU.

10) **Period of Validity of e-Bid**

i) e-Bid shall remain valid for 90 days after the date of e-Bid opening prescribed by CCSU. An e-Bid valid for a shorter period shall be rejected by CCSU as non-responsive.

ii) In exceptional circumstances, CCSU may solicit the bidder's consent to an extension of the period of e-Bid validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting its e-Bid security. A bidder granting the request will not be required nor permitted to modify its e-Bid.

11) **Format and Signing of e-Bid**

i) The bidder shall prepare one electronic copy each of the Technical e-Bid and Financial e-Bid separately.

ii) The e-Bid document shall be digitally signed, at the time of uploading, by the bidder or a person or persons duly authorized to bind the bidder to the Contract. The later authorization shall be indicated by a scanned copy of written power-of-attorney accompanying the e-Bid. All the pages/ documents of the e-Bid that are to be uploaded shall be digitally signed by the person authorized to sign the e-Bid.

## **(B) SUBMISSION of e-Bid**

### **Submission of e-Bid**

The Bid Submission module of e-Procurement website <http://etender.up.nic.in> enables the bidders to submit the e-Bid online in response to this e-bid published by CCSU. Bid Submission can be done only from the Bid Submission start date and time till the Bid Submission end date and time given in the e-bid. Bidders should start the Bid Submission process well in advance so that they can submit their e-Bid in time. The bidders should submit their e-Bid considering the server time displayed in the e-Procurement website. This server time is the time by which the e-Bid submission activity will be allowed till the permissible time on the last/end date of submission indicated in the e-bid schedule. Once the e-Bid submission date and time is over, the bidders cannot submit their e-Bid. For delay in submission of e-Bid due to any reasons, the bidders shall only be held responsible.

The bidders have to follow the following instructions for submission of their e-Bid:

- i) For participating in e-Bid through the e-bidding system, it is necessary for the bidders, already registered with CCSU, also to be the registered users of the e-Procurement website <http://etender.up.nic.in>. The bidders must obtain a User Login Id and Password by registering themselves if they have not done so previously for registration.
- ii) In addition to the normal registration, the bidder has to register with his/her **Digital Signature Certificate (DSC)** in the e-bidding system and subsequently he/she will be allowed to carry out his/her e-Bid submission activities. Registering the Digital Signature Certificate (DSC) is a one time activity. Before proceeding to register his/her DSC, the bidder should first log on to the e-bidding system using the User Login option on the home page with the Login Id and Password with which he/ she has registered.

For successful registration of DSC on e-Procurement website <http://etender.up.nic.in> the bidder must ensure that he/she should possess Class-2/ Class-3 DSC issued by any certifying authorities approved by Controller of Certifying Authorities, Government of India, as the e-Procurement website <http://etender.up.nic.in> is presently accepting DSCs issued by these authorities only. The bidder can obtain User Login Id and perform DSC registration exercise above even before e-Bid submission date starts. CCSU shall not be held responsible if the bidder tries to submit his/her e-Bid at the last moment before end date of submission but could not submit due to DSC registration problem.

- iii) The bidder can search for active bids through "Search Active bids" link, select a bid in which he/she is interested in and then move it to 'My Bids' folder using the options available in the e-Bid Submission menu. After selecting and viewing the bid, for which the bidder intends to e-Bid, from "My Bids" folder, the bidder can place his/her e-Bid by clicking "Pay Offline" option available at the end of the view bid details form. Before this, the bidder should download the e-bid document and Price Schedule/Bill of Quantity (BOQ) and study them carefully. The bidder should keep all the documents ready as per the requirements of e-bid document in the PDF format except the Price Schedule/Bill of Quantity (BOQ) which should be in the XLS format (Excel sheet).
- iv) The bidder should read the Terms & Conditions carefully before proceeding to fill in the cost of bid document/ e-Bid processing fee and EMD payment details. After entering and saving



the cost of bid document/ e-Bid processing fee and EMD details, the bidder should click "Encrypt & Upload" option given in the payment details form so that "Bid Document Preparation and Submission" window appears to upload the documents as per Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets given in the bid details. The details available in the scanned copy of bid form cost and of EMD shall be verified by CCSU and in case of any discrepancy the e-bid shall be rejected.

- v) Next the bidder should upload the Technical e-Bid documents for Fee details (Cost of bid document/ e-Bid processing fee and EMD), Qualification details. Before uploading, the bidder has to select the relevant Digital Signature Certificate. He may be prompted to enter the Digital Signature Certificate password, if necessary. For uploading, the bidder should click "Browse" button against each document label in Technical and Financial schedules/packets and then upload the relevant PDF/XLS files already prepared and stored in the bidder's computer. The required documents for each document label of Technical (Fee details, Qualification details, e-Bid Form and Technical Specification details) and financial (e-Bid Form and Price Schedule/BOQ) schedules/packets can be clubbed together to make single different files for each label.
- vi) The bidder should click "Encrypt" next for successfully encrypting and uploading of required documents. During the above process, the e-Bid documents are digitally signed using the DSC of the bidder and then the documents are encrypted/locked electronically with the DSC's of the bid openers to ensure that the e-Bid documents are protected, stored and opened by concerned bid openers only.
- vii) After successful submission of e-Bid document, a page giving the summary of e-Bid submission will be displayed confirming end of e-Bid submission process. The bidder can take a printout of the bid summary using the "Print" option available in the window as an acknowledgement for future reference.
- viii) Department reserves the right to cancel any or all e-Bids without assigning any reason.

2) **Deadline for Submission of e-Bid**

- i) e-Bid (Technical and Financial) must be submitted by the bidders at e-Procurement website <http://etender.up.nic.in> not later than the prescribed date and time (as the server time displayed in the e-Procurement website).
- ii) CCSU may, at its discretion, extend this deadline for submission of e-Bid by amending the e-Bid document, in which case all rights and obligations of CCSU and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

3) **Late e-Bid**

The server time indicated in the Bid Management window on the e-Procurement website <http://etender.up.nic.in> will be the time by which the e-Bid submission activity will be allowed till the permissible date and time scheduled in the e-bid. Once the e-Bid submission date and time is over, the bidder cannot submit his/her e-Bid. Bidder has to start the Bid Submission well in advance so that the submission process passes off smoothly. The bidder will only be held responsible if his/her e-Bid is not submitted in time due to any of his/her problems/faults, for whatsoever reason, during e-Bid submission process.

4) **Withdrawal and Resubmission of e-Bid**



- i) At any point of time, a bidder can withdraw his/her e-Bid submitted online before the bid submission end date and time. For withdrawing, the bidder should first log in using his/ her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be withdrawn. After selecting the "Bid Withdrawal" option, the bidder has to click "Yes" to the message "Do you want to withdraw this bid?" displayed in the Bid Information window for the selected bid. The bidder also has to enter the bid Withdrawing reasons and upload the letter giving the reasons for withdrawing before clicking the "Submit" button. The bidder has to confirm again by pressing "Ok" button before finally withdrawing his/her selected e-Bid.
- ii) No e-Bid may be withdrawn in the interval between the deadline for submission of e-Bids and the expiration of period of e-Bid validity. Withdrawal of an e-Bid during this interval shall result in the bidder's forfeiture of his/her e-Bid security.
- iii) The bidder can re-submit his/her e-Bid as and when required till the e-Bid submission end date and time. The e-Bid submitted earlier will be replaced by the new one. The payment made by the bidder earlier will be used for revised e-Bid and the new e-Bid submission summary generated after the successful submission of the revised e-Bid will be considered for evaluation purposes. For resubmission, the bidder should first log in using his/her Login Id and Password and subsequently by his/her Digital Signature Certificate on the e-Procurement website <http://etender.up.nic.in>. The bidder should then select "My Bids" option in the Bid Submission menu. The page listing all the bids submitted by the bidder will be displayed. Click "View" to see the details of the e-Bid to be resubmitted. After selecting the "Bid Resubmission" option, click "Encrypt & Upload" to upload the revised e- Bid documents.
- iv) The bidders can submit their revised e-Bids as many times as possible by uploading their e-Bid documents within the scheduled date & time for submission of e-Bids.
- v) No e-Bid can be resubmitted subsequently after the deadline for submission of e-Bids.

## **(C) OPENING AND EVALUATION OF e-Bid**

### **1) Opening of e-Bid by CCSU**

- i) CCSU will open all e-Bids, in the presence of bidders' representatives who choose to attend at prescribed time on the prescribed date of opening at CCSU office. The bidder's representatives who are present shall sign evidencing their attendance. In the event of the specified date of e-Bid opening being declared a holiday for CCSU, the e-Bids shall be opened at the appointed time and place on the next working day.
- ii) The bidder's names and the presence or absence of repulsion e-Bid security and such other details as CCSU at its discretion may consider appropriate, will be announced at the opening. The name of such bidders not meeting the requirement shall be notified.

### **2) Opening of Financial e-Bid**

- i) The financial e-Bids of qualified bidders shall be opened on the same day in the presence of bidders. The name of bidders, Price quoted for various items etc will be announced in the process.
- ii) CCSU will prepare the minutes of the e-Bid opening.

### **3) Clarification of e-Bid**

- i) During evaluation of e-Bid, CCSU may, at its discretion, ask the bidder for a clarification of his/her e-Bid. The request for clarification and the response shall be in writing.

### **4) Evaluation of e-Bid and Evaluation Criteria**

CCSU will examine the e-Bid to determine whether they are complete, whether they meet all the conditions of the Contract, whether required cost of bid document/ e-Bid processing fee, e-Bid security and other required documents have been furnished, whether the documents have been properly digitally signed, and whether the e-Bids are generally in order. Any e-Bid or e-Bids not fulfilling these requirements shall be rejected.

### **5) Contacting CCSU**

- i) No bidder shall contact CCSU on any matter relating to his/her e-Bid, from the time of the e-Bid opening to the time the Contract is awarded.
- ii) Any effort by a bidder to influence CCSU in its decisions on e-Bid evaluation, e-Bid comparison or contract award may result in rejection of the bidder's e-Bid.
- iii) In the event of any information furnished by the agency is found false or fabricated the minimum punishment shall be debarred/blacklisting from CCSU works and the legal proceeding can also be initiated.

## **(D) AWARD OF CONTRACT**

### **1) Award Criteria**

CCSU will award the contract to the lowest evaluated successful Bidder whose bid has been determined to be responsive to all the conditions of the contract of the Bidding Document.

### **2) Department's right to accept any e-Bid and to reject any or all e-Bids**

CCSU reserves the right to accept or reject any e-Bid, and to annul the e-Bid process and reject all e-Bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

### **3) Notification of Award**

i) Prior to the expiration of the period of e-Bid validity, CCSU will notify the successful bidder in writing by letter/e-mail/fax, that its e-Bid has been accepted.

ii) The notification of award will constitute the formation of the Contract.

### **4) Signing of Contract**

On completion of e-tendering process a contract Agreement/Bond shall be drawn between the Finance Officer and the Contractor.

## For Visiting this e-Bid Document by the Contractors

(12)

The Contractors/Firm/Bidders who are interested to participate in e-Bid are requested to get them registered at <https://etender.up.nic.in>.

The other important information is being mentioned below at a glance for the ease of e-Bid:-

Date of Inviting bid	: 25-09-2020
Bid closing date & Time	: 27-10-2020 at 2:00 P.M.
Date & time of opening bid	: 27-10-2020 at 4:00 P.M.
Cost of bid document/ e-Bid processing fee	: Rs. 1050/= (Rs. 1000/- as tender cost + 5% GST)
Earnest money	: Rs 1,00,000/=
Validity period	: 90 Days

The Bidder will ensure to submit the tender fee and earnest money in the University account by Online/RTGS/NEFT and upload the receipt with technical bid.

  
Finance Officer



# CH. CHARAN SINGH UNIVERSITY, MEERUT.

## Technical Bid (Part-I) of the Tender form for Gas Sensing Set-Up. (Year 2020-21)

Tender form No.: FC/162

Dated : 25-09-2020

Cost of Tender form Rs. 1050/-

(Rs. 1000/- tender cost+5% G.S.T.)

Finance Officer

### Details of the Tender

1. Name of the Firm \_\_\_\_\_
2. Address of the Firm \_\_\_\_\_
3. Mobile No. \_\_\_\_\_  
E-mail \_\_\_\_\_
4. Constitution of the Firm. \_\_\_\_\_  
(Proprietorship/ Partnership/Limited Company)
5. G.S.T. Registration Number \_\_\_\_\_
6. TAN/PAN No. \_\_\_\_\_
7. Turn Over of the Firm for last three financial year  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. Experience of the Firm in the Universities/Govt. Section Experience certificate should be attached  
No. of years of experience \_\_\_\_\_  
Details: -
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_

EARNEST MONEY.....UTR NO.....DATE.....

TENDER FEE.....UTR NO..... DATE.....

(If earnest money and tender fee paid online/RTGS/NEFT)

Bank Name: Indian Bank (Allahabad Bank), Meerut University Branch, Meerut

A/c. No.: 50488321629 (E TENDER C C S UNIVERSITY MEERUT)

IFS Code No.: ALLA0210144

(Authorized signatory)

Firm Name with seal

### Declaration

I/we hereby submit that the information given as above is true as per my/our knowledge.

In case any information found false, the decision of the University against the firm shall be accepted and bound upon me/ us and I/We shall have no legal right for any appeal in this regards.

(Authorized signatory)

Firm Name with seal

### Technical Specifications for Gas sensing set-up:-

#### Gas Sensing Set-up

A stainless steel gas chamber attached with a vacuum pump, Gas cylinders, vacuum gauge, heater with PID controller and electrical measurement unit with computer and printer interface system.

Gas sensing set-up has the following arrangements/attachment:

#### Stainless steel gas chamber

- Stainless steel chamber of volume 2-5 liters
- One view port at top or side
- One vacuum port to connect the rotary pump.
- One digital Gauge on the top part to read gas pressure (ppm-bar) and vacuum ( $10^{-3}$  Torr)
- One digital RH meter with connectivity to the chamber for humidity measurements
- One Needle Valve to insert and control the gas in chamber
- One Leak Valve for chamber vent
- One Connection port for heater
- Gas shower (gas ambient) on heater assembly
- One Connection port for thermocouple
- Four probes connection for the electrical measurement

#### Heater

- Maximum working temperature 500-600°C.
- Round type heater of 2-4" diameter
- Microprocessor based 8 Stages proportional on or off temperature
- PID Controller

#### Rotary Vacuum Pump for vacuum for vacuum $\sim 10^{-3}$ -Torr)

#### Electical Test Equipment with GPIB Interface

Current source : Range: 1 nA to 1 A

Voltmeter : Range :  $\mu$ V to 200V

Resistance meas. Range : 0.001 ohm to 200 M ohm

\*Basic Accuracy : 0.001%

\*Sweep Features : Linear, Log, Dual Linear, Custom

\*Memory Buffer : >200000 points

\*Communication : GPIB, ETHERNET, USB

\*Display : Large 5-7" Full Color Capacitive Touch Screen, Dual display of parameters Icon- Based menu system

\*Features : Full Four Quadrant Operation Enhanced sensitivity, Inbuilt Instrument Control Software for performing I-V



\*Measurements Programmable Digital Input Output (DIO) port for Automation/handler/prober control

\*Dual Inputs : Front-Banana Jacks; Rear-Triax

\*Power Supply : 240V, AC 50Hz.

Operating Temp. : RT-50°C

Warranty : At least 1-2 year

**Gas cylinders with regulators and mass flow controller (MFC)**

- 5 Gas (H<sub>2</sub>, CO, NH<sub>3</sub>, NO<sub>2</sub>, and dry air) cylinders (capacity 47 liters or as per availability) with regulator
- One digital MFC (multi range & multigases, 1% of set of point accuracy) with controller to flow (4-5) gases
- Accessories (connecting knobs & copper/steels pipes etc)

**Computer and Laser Printer**

Computer: Memory Size-4 GB Processor

- CPU Model-Core i5 Processor
- Hard Disk Size-1 TB
- Operating System-Windows 10
- 20-21-inch screen
- Accessories (cables etc)

Laser printer: Functions-Print, Copy & Scan

**(A) Technical Terms & Conditions.**

1. The Company bidding for this tender should have minimum annual turnover of Rs. two crore, continuously for the last three years. Last three years Audited Balance Sheet must be attached as proof with technical bid.
2. The Equipment name, on which the Gas Sensing Set-Up will be, must be specified and a copy of the Invoice of the equipment must be attached, as a proof of the Ownership of the equipment.
3. All of above clauses and information provided shall subject to a audit and Validation by Ch. Charan Singh University, Meerut at any point of time, before, during or after the tender process, if at all any Information or feedback is found to be wrong or malafide, Hon'ble Vice-Chancellor reserved the right to reject the bid without assigning any reason whatsoever and the Bidder will have No Right to Claim any damages of any Nature.

**Specific Terms & Conditions : -**

1. The work for Gas Sensing Set-Up will be F.Y. 2020-21.
2. Last date for submission of Tender is fixed **dated 27-10-2020 up to 2:00 p.m.**, technical bid & financial bid must be uploaded on [www.etender.up.nic.in](http://www.etender.up.nic.in). The Technical Bid of the Tenders will be opened on same day in the Committee room at 4:00 p.m.. The date of opening of Financial bid will be fixed at the time of opening of technical bid. Tenders may remain present at the time of opening.
3. The detail of machinery and equipment must be mentioned in this tender form which can be verified by the committee of the University before awarding the tender.
4. The firm Black listed by any University shall not be eligible to participate in the tender. The firm has to be submit an affidavit in this regard that "The firm has been not black-listed from

any University/Organisation and no FIR/Complain in the Police regarding his character or business.

5. The firm shall have to deposit 10% amount (F.D.R./Bank Guarantee) of the value of the work order as security money. In case, the firm fails to complete the work within stipulated period, the security money may be forfeited, firm may be black listed for future works and the University shall be free to get the work done from another firm.
6. The firm after receiving the work order and on submission of security money shall have to execute an agreement with the Finance Officer of the University on a stamp paper of Rs. 100/- in which details, terms & conditions of work will be included and the terms & conditions of which shall be binding on the University & the firm.
7. All the specifications of the equipment will be the same as prescribed in the work order, any change in these can only be made by the written permission of the University.
8. No representation of the firm shall be entertained after issuing work order regarding modifying any term & condition of the work. If any representation given by the firm this will be treated as violation of the tender and earnest money/ security money may be forfeited and the firm may be blacklisted for all future work of the University.

**Conditions for payment: -**

1. The supply of Gas Sensing Set-Up will be checked by Head, Department of Physics, Ch. Charan Singh University, Meerut if the checking authority felt that the quality is satisfactory 100% payment will be released.
2. In case of delay in supply, penalty upto 2,000/- per day may be imposed upto duration of one week. In case delay exceeds, the firm shall have to submit request to the University for extension of supply period in case the request is rejected the security money of the firm shall be forfeited and the University shall be free to get the work done from any other firm and may take necessary legal action against the firm also as deemed fit by black listing the firm and forfeiting the security money.

**General Terms & Conditions: -**

1. Rates will be quoted once shall not be allowed to change after opening the tender. In special circumstances. If the University needs to negotiate with the firms, negotiation may be made as per rules.
2. The University reserves right to correct the clerical/typing mistake inadvertently crept into the tender notice and tender forms as well. The supply of the equipment shall be made as specified in the work order by the University.
3. Hon'ble Vice-Chancellor of the University reserves right to cancel one or all tenders without assigning any reason.
4. In case of any legal dispute in between the firm and the University its Jurisdiction shall be Hon'ble High Court, Allahabad.

**Terms and condition are acceptable to us.**

**Detail of documents enclosed: -**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

(Authorized signatory)  
Firm Name with seal



# CH. CHARAN SINGH UNIVERSITY, MEERUT

## Financial Bid (Part-II) of the e-Tender form for the Gas Sensing Set Up.(Year 2020-21)

Tender Form No. : FC/162

Dated :25-09-2020

Cost of Tender form Rs. 1050/-

(Rs. 1000/- tender cost+5% G.S.T.)

Finance Officer

To,

The Finance Officer  
Ch. Charan Singh University  
Meerut.

Dear Sir,

Kindly refer to the tender notice no. FC/ ..... dated ..... published in news papers Gas Sensing Set Up to the Deptt. of Physics, Ch. Charan Singh University Campus, Meerut. We are quoting our rates of the work as per details given below: -

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### Rates must be quoted here

Sr. No.	Description of the work	Rate per Unit (Rs.) With out Tax
1	<p><b>Gas Sensing Set-up</b></p> <p>A stainless steel gas chamber attached with a vacuum pump, Gas cylinders, vacuum gauge, heater with PID controller and electrical measurement unit with computer and printer interface system.</p> <p>Gas sensing set-up has the following arrangements/attachment:</p> <p><b>Stainless steel gas chamber</b></p> <ul style="list-style-type: none"><li>• Stainless steel chamber of volume 2-5 liters</li><li>• One view port at top or side</li><li>• One vacuum port to connect the rotary pump.</li><li>• One digital Gauge on the top part to read gas pressure (ppm-bar)and vacuum (<math>10^{-3}</math> Torr)</li><li>• One digital RH meter with connectivity to the chamber for humidity measurements</li><li>• One Needle Valve to insert and control the gas in chamber</li><li>• One Leak Valve for chamber vent</li><li>• One Connection port for heater</li><li>• Gas shower (gas ambient) on heater assembly</li><li>• One Connection port for thermocouple</li><li>• Four probes connection for the electrical measurement</li></ul> <p><b>Heater</b></p> <ul style="list-style-type: none"><li>• Maximum working temperature 500-600°C.</li><li>• Round type heater of 2-4" diameter</li><li>• Microprocessor based 8 Stages proportional on or off temperature</li></ul>	

<ul style="list-style-type: none"> <li>• PID Controller</li> </ul> <p><b><u>Rotary Vacuum Pump for vacuum for vacuum ~10<sup>-7</sup>-Torr)</u></b></p> <p><b><u>Electrical Test Equipment with GPIB Interface</u></b></p> <p>Current source : Range:1 nA to 1 A</p> <p>Voltmeter : Range : <math>\mu</math>V to 200V</p> <p>Resistance meas. Range : 0.001 ohm to 200 M ohm</p> <p>*Basic Accuracy : 0.001%</p> <p>*Sweep Features : Linear, Log, Dual Linear, Custom</p> <p>*Memory Buffer : &gt;200000 points</p> <p>*Communication : GPIB, ETHERNET,USB</p> <p>*Display display of : Large 5-7" Full Color Capacitive Touch Screen, Dual</p> <p>parameters Icon- Based menu system</p> <p>*Features Inbuilt : Full Four Quadrant Operation Enhanced sensitivity,</p> <p>Instrument Control Software for performing I-V</p> <p>*Measurements Programmable Digital Input Output (DIO) port for Automation/handler/prober control</p> <p>*Dual Inputs : Front-Banana Jacks; Rear-Triax</p> <p>*Power Supply : 240V, AC 50Hz.</p> <p>Operating Temp. : RT-50°C</p> <p>Warranty : At least 1-2 year</p>		
<p><b><u>Gas cylinders with regulators and mass flow controller (MFC)</u></b></p> <ul style="list-style-type: none"> <li>• 5 Gas (H<sub>2</sub> CO, NH<sub>3</sub> NO<sub>2</sub> and dry air) cylinders (capacity 47 liters or as per availability) with regulator</li> <li>• One digital MFC (multi range &amp; multigases, 1% of set of point accuracy) with controller to flow (4-5) gases</li> <li>• Accessories (connecting knobs &amp; copper/steels pipes etc)</li> </ul> <p><b><u>Computer and Laser Printer</u></b></p> <p>Computer: Memory Size-4 GB Processor</p> <ul style="list-style-type: none"> <li>• CPU Model-Core i5 Processor</li> <li>• Hard Disk Size-1 TB</li> <li>• Operating System-Windows 10</li> <li>• 20-21-inch screen</li> <li>• Accessories (cables etc)</li> </ul> <p>Laser printer: Functions-Print, Copy &amp; Scan</p>		

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