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| logo1COLLEGE OF ENGINEERING AND TECHNOLOGY  TECHNO CAMPUS, GHATIKIA, P.O. MAHALAXMI VIHAR, BHUBANESWAR-751 029 |

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| **No.2142/CET*,* Dated:09.10.2021** |
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**TENDER CALL NOTICE**

Sealed tenders are invited under two bid systems from reputed original manufacturers/registered firms /Agencies for the supply of Instruments for Control Systems Laboratory of Department of Electrical Engineering. The sealed tender will be received by speed post/ registered post only. **No hand or Courier delivery will be accepted. The authority will not be held responsible for any postal delay**. Tender received after the scheduled date and time will not be accepted. The date of opening the various tenders is mentioned in the respective tender document, which will be opened in the office of the Principal, College of Engineering and Technology, Bhubaneswar in the presence of bidders and/or their nominees. The tender bid documents with details of terms and conditions are to be downloaded from the College Website: [**www.cet.edu.in**](http://www.cet.edu.in)**.**

The authority reserves the right to reject/cancel the tenders in whole or in part without assigning any reason thereof.

Sd/-

**PRINCIPAL**

**Bid Ref no2142/CET Dated: 09.10.2021**

**BIDDING DOCUMENTS AND INSTRUCTION TO SUPPLY**

**INSTRUMENTS**

**FOR**

**CONTROL SYSTEMS LABORATORY**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

****

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(A Constituent College of Biju Patnaik University of Technology)**

**Techno Campus,Mahalaxmi Vihar, Ghatilia, Bhubaneswar – 751 029**

**INVITATIONFORBIDS**

**Principal, College of Engineering & Technology**, Bhubaneswarinvitessealedbidsfromeligiblebiddersforsupply of Instruments to Department of Electrical Engineering.

Interested eligibleBiddersmayobtain detail information and list of items with technical specifications from**thewebsiteof theCollege** [**www.**](http://www.nitdgp.ac.in)**cet.edu.in**

Particularsaboutsubmissionofbiddingdocument areasfollows:

(a) Priceofbiddingdocument :**Rs. 1000/- (service tax is included)**

(non-refundable)

(b) Firstdateofavailability of Bidding Document inthe website: 11.10.2021

(c) Lastdateandtimefor submissionofbids:12.11..2021 up to 4.00 pm

(d) Timeanddateof openingoftechnical bids: 15-11.2021at 3.00 pm

(e) Timeanddateof openingof financial bids:Will be communicated to the successful bidders.

(f) Placeofopeningofbids : **Principal**

**College of Engineering& Technology**

**Techno-Campus, Ghatikia, MahalaxmiVihar,**

**Bhubaneswar-751029**

(g) Addressforcommunication :**Principal**

**College of Engineering& Technology**

**Techno-Campus, Ghatikia,MahalaxmiVihar,**

**Bhubaneswar-751029**

**Principal**

**Financial bid & Technical bid must be enclosed separately.**

**The Tender documents can be downloaded from our website www.**[**cet.edu.in**](http://www.cet.edu.in) **and the tenderer has to submit a separate draft of Rs.1000/-(nonrefundable) along with submitted tender, otherwise the offer submitted by the tenderer will be cancelled.**

1. Eligibility of Tenderer and General Instructions

### 1.1 Eligibility

Those who fulfill the following criteria are eligible to participate in the tender.

**1.1.1**The tenderer should preferably be a reputed Original Manufacturer/Authorized Distributor,who should provide the documents relating to their **Manufacturing Capabilities**as follows**.**

* 1. The tenderer should possess valid GSTIN No.
  2. The firm must have cleared allTax payment up to date. Attested copies of allTax Clearance Certificate or non-assessment certificate from the concerned Tax Authority valid up to date and attested copy of Income Tax Clearance Certificate or non-assessment certificate, as the case may be, from the competent authority, up to date and PAN Number and GSTIN No. must be enclosed along with the Tender documents.
  3. If the tenderer is an Authorized Distributor of a reputed manufacturer, necessary certificate to this effect from his manufacturer must be enclosed.
  4. All after sales support should be provided directly by the manufacturer only.
  5. The tenderer must have the willingness for providing comprehensive maintenance support of the Machine supplied by him.
  6. The tenderer must provide evidence of supply orders with reputed organizations like NITs/IITs/Central Research Laboratories since last 3 years.
  7. The instruments should be same as the instruments supplied to NITs/IITs/Central Research Laboratories.

**1.1.2** If for any Instruments the tenderer would not have the eligibility criteria as mentioned in para 1.1.1 (a to g), then department will considered to procure those Instruments from the manufacturer/authorized dealer with only the following eligibility criteria under para 1.1.2 (a to f)

* 1. If the tenderer is an Authorized Dealer of Manufacturer, necessary certificate to this effect from his Manufacturer must be enclosed.
  2. All after sales support should be provided directly by the Manufacturer only.
  3. The tenderer must have the willingness for providing comprehensive maintenance support of the Machine supplied by him.
  4. The tenderer must provide evidence of successful execution of supply orders with installation and successful after sales support in reputed organizations since last 3 years.
  5. The instruments should be same as the instruments supplied to NITs/IITs/Central Research Laboratories.
  6. The firm must have all Tax payment up to date. Attested copies of all Tax Clearance Certificates or non-assessment certificate from the concerned Tax Authority valid up to date and attested copy of Income Tax Clearance Certificate or non-assessment certificate, as the case may be, from the competent authority, up to date, GSTIN No. and PAN Number must be enclosed along with the Tender documents.

### 1.2 General Instructions

1. **The selection for procurement of Instruments will be based on quality and performance along with cost. In this context decision of technical committee is final based on documentary evidence or actual physical verification.**
2. Submission of more than one bid by a particular tenderer under different names is strictly prohibited. In case it is discovered later on that, this condition is violated, all the tenders submitted by such tenderer/s would be rejected or contract cancelled.
3. The tender should mentionin the tender paper, the location of its service centre nearest to Bhubaneswar.
4. All offers should be in English and the price quoted for each item should be firm.
5. Warranty period, Delivery period and After-Sale-Service conditions, etc. are also to be clearly indicated.
6. The rates and the conditions of the offer will remain valid for three months from the date of opening of the tender and no change or alteration of the rate will be acceptable on any account.
7. Submitted tender forms with overwriting or erased or illegible specifications and rates will be rejected.
8. Request from tenderer in respect of additions, alterations, modifications, corrections, etc. of either terms & conditions or rate after opening of the bid may not be considered. However, negotiation may be made before finalization.
9. Tenderers shall carefully examine the bid documents and fully inform themselves of all the conditions, which may in any way affect the work of the cost thereof.
10. Should a tenderer find discrepancies or omissions from the specification or other documents and any doubt as to their meaning, he should at once notify the purchaser and obtain clarification in writing.
11. This, however, does not entitle the tenderer to ask for time beyond the due date fixed for receipt of tenders.
12. The tenderer must also specify minimum time and maximum time to repair/replace in the event of a failure and penalty thereof.
13. Verbal clarification and/or information given by the purchaser or its employees or representatives shall not be binding on the purchaser.
14. Submission of sealed bid will carry with the implication that the tenderer agrees to abide by the conditions laid down in the detailed particulars of the bid notice.
15. Conditional offers and offers qualified by vague and indefinite expression, as ‘subject to immediate acceptance’ ‘subject to prior sale’, etc. will not be considered.
16. While tenders are under consideration, tenderers and their representatives or other interested parties are advised to refrain from contacting by any means, to the purchaser's personnel or representatives on matter relating to the tenders under study.
17. The purchaser, if necessary, will obtain clarification on tenders by requesting such information from any or all the tenderers either in writing or through personal contact as may be necessary.
18. The tenderer will not be permitted to change the substance of his offer after the tenders have been opened. In the event of non-compliance with this provision, the tenderer is liable to be disqualified.

### 1.3 Procedure for Submission of Tenders

The Tenderers must submit their bids as required in two parts in separate sealed covers prominently super scribed as Part-I “**Technical Bid**” and Part-II “**Financial Bid**” and also indicating on each of the covers the “**Tender call Notice Number & Date**” and **due date and time of submission** as mentioned in Tender Cal Notice.

**Part-I (Technical Bid)**

1. Excepting the price schedule, all other documents as mentioned in para 1.1 i.e details of **technical specifications, leaflet, Copy of Firm Registration Certificate from the competent authorities,All Tax Clearance certificates, PAN Card copy, proof of GSTIN No., list of clients, authorization certificate from Manufacturer in case of Dealer**, **etc**. along with **tender document duly signed** by the authorized person in each page shall be covered in Part-I (Technical Bid).

**Part-II (Financial Bid)**

All indications of price shall be given in Part-II (Financial Bid)

1. Both sealed covers Part-I **“Technical Bid”** and Part-II “**Financial Bid**” should be placed in a third cover along with requisite **EMD & cost of Tender documents**(separately in the form of DD drawn in favour of **Principal, College of Engineering & Technology, Bhubaneswar** at any Nationalized Bank payable at Bhubaneswar), others requisite supporting documents etc. and sealed. The sealed cover containing tender documents as per procedure indicated above should be submitted by speed post /Registered Postof theoffice of the**Principal, College of Engineering & Technology, Techno-campus, MahalaxmiVihar, Ghatikia, Bhubaneswar-751029, Odisha** within the due date and time as stipulated in Tender.**No hand or Courier delivery is accepted.** The sealed envelope must show the name of the tenderer and his address and should be super scribed as **“*Tender for supply of Instruments forControl SystemsLaboratory of Electrical EngineeringDepartment****”* on the top of the envelope.
2. All the documents submitted must be in the papers showing signature of the tenderer and printed office name of the tenderer on official seal.
3. All the documents must be submitted in a **sequential manner** with **separator/flags** to help in quick scanning of the topics. Wherever possible, data in tabular form should be given.

# 2. Requirements by Tenderer before Supply

### 2.1Packaging

All the componentare to be suitably protected, covered in water -proof packing and crated to prevent damage or deterioration during transit and storage till the time of commission. The supplier shall be responsible for any loss or damage caused during transportation, handling or storage till their successful commissioning.

### 2.2Inspection

1. All Instrumentsshall be inspected and tested for completeness, proper assembly, operation, cleanliness and state of physical condition and performance as per quoted specification.
2. The test shall be conducted, reported and certifications to be provided by the tenderer.
3. The tenderer shall provide all test and measuring component/tools required for inspection / testing.
4. The cost of all such tests shall be borne by the Tenderer.
5. CET reserves the right to reject any component if it does not comply with the specifications during site testing.
6. Inspection & testing would be conducted, jointly, at various stages as applicable during unpacking.

### 2.3Environmental Condition

* 1. All the component supplied shall be rugged and should operate without any deviation in quality, or degradation of component performance. All the specification/parameters shall be guaranteed over the following environmental conditions:

\* Storage Temperature 0 to 70 degree Celsius

\* Operating Temperature 0 to 50 degree Celsius

\* Humidity 95% RH (non-condensing)

* 1. All theInstrumentsare intended to operate under 220 V/ 440V, 50 Hz power supply.

# 3. Requirements by Tender after Supply

### 3.1 Supply

1. The Instruments would be delivered by the supplier at **The HOD, Department of Electrical Engineering, College of Engineering & Technology, Techno Campus, P.O. MahalaxmiVihar, Ghatikia, Bhubaneswar – 751029, Odisha**.
2. The items should be supplied directly from the manufacturing terminal having passed all tests successfully with Certifications as required.
3. The component should conform to the latest relevant National/International standards and shall be completed in all respect.
4. In case, articles are found damaged in transit or found short at the time of delivery the full cost of the same will be deducted from the bill of the supplier in case the supplier does not replace the stock within a week from the date of the complaint.
5. The articles ordered must be supplied in one lot within **4 (four) weeks** of placing of the order.
6. In case of delay in the supply of instruments for Control System Laboratory, a penalty of 1% (one per cent) per week shall be levied.
7. CET reserves the right to procure the materials from alternative sources at the risk and cost of the successful tenderer giving 15 days’ notice.
8. Any increase in tax and duties after expiry of delivery period will be borne by the supplier.
9. In case the items supplied by the supplier are found not up to the specification shall be rejected.
10. The supplier will be intimated to take back the stocks at his own cost within three days from the date of rejection and to replace the same within 7 days, failing which the EMD will be invoked in addition to taking legal actions.
11. Imported consignment, if any, should be destined to **“The HOD, Department of Electrical Engineering, College of Engineering & Technology, Techno Campus, P.O. MahalaxmiVihar,Ghatikia, Bhubaneswar – 751029, Odisha, India**through nearest custom clearing Airport(Bhubaneswar Air Port).
12. The suppliers shall be responsible for releasing the consignments from the carriers/transporters.
13. The component shall be delivered and installed at site at the cost of the tenderer.
14. All taxes, levies, surcharges including the customs clearance and handling freight and insurance should be paid and handled by the tenderer.

### 3.2 Testing and Commissioning:

Testing and Commissioning shall include the following:

1. Testing of the component at the site of commission should be supplied by the tenderer.
2. It will be the responsibility of the tenderer to provide all necessary spares and consumables, which may be required during testing and commissioning, at no extra cost to purchaser.
3. The tenderer is to bring their own testing and measuring instruments required for testing, commissioning, which can be taken back after completion.
4. Testing must complete within 15 days after delivery on site.
5. The tenderer should provide all necessary raw materials for running of the component during commissioning.

### 3.3 Documentation:

1. Detailed **technical manuals**, **handbooks**, **drawings**, **Warranty card** and **Factory Quality Assurance checklist**, **test results** and any other certifications mentioned in the Technical specifications shall be supplied along with the consignment.
2. Supplied manuals/handbooks must cover detailed technical specifications and testing operation, maintenance and System Safety procedures.
3. For Experimental setups **details of theory, procedure and methods of taking measurements etc. should be provided in the form of hand books for each experiment**.
4. The receipts for taxes paid, if any, for the supplied materials should also be submitted

### 3.4 Trial Operation and Performance Guarantee Test:

1. During trial operation, tenderer shall do all necessary adjustments required to ensure the performance as per the acceptable level.
2. In case, guaranteed performance is not established, the tenderer shall be given opportunity to rectify/replace the Instruments, and restart the 7 days continuous trial operation, at the risk and cost of the tenderer.

### 3.5On-Site Warranty:

1. The supplied devices/component warranty shall be covered under one year**or more.**There should be comprehensive on-site warranty from the date of issue of successful completion of Performance Guarantee Report.
2. During the period of warranty, it shall be the responsibility of the tenderer to provide all essential spares and consumables, which may be required for maintenance and trouble-free operation of the devices / Instruments at the tenderer’s cost.

### 3.6After Sales Service:

1. During the warranty period and subsequently, the tenderer shall attend to the problems reported by the users of CET on a priority basis.
2. For any problem reported, the tenderer shall attend and rectify the problem within 7 (seven) days or provide a standby system of the similar configuration.
3. The report on any problem will be informed through phone or fax number of which shall be given by the tenderer.
4. The branch office of the concerned firm will be fully responsible to provide maintenance service, in case of any negligence, in providing the service by the tenderer.
5. On failure to comply with those instructions, the Bank Guarantee provided for the warranty period shall be invoked.

# 4. Financial Terms:

### 4.1 EMD

1. The tenderer has to submit a Demand Draft / Banker’s Cheque / Pay order of Rs.5,000**/ -**in favor of **Principal, College of Engineering and Technology, Bhubaneswar** payable at Bhubaneswar in any Nationalized Bank towards EMD.**Without EMD, the tender will be summarily rejected.**
2. There will be no interest paid to the tenderer towards EMD money.
3. In no case, the EMD Money in cash or other forms will be accepted at the time of opening of the bid.
4. No request for adjustment of claims, if any, will be accepted.
5. The EMD of unsuccessful tenderers will be refunded as soon as possible after the tenders are finalized.

### 4.2 Performance Security Deposit

* 1. In case of successful Bidder **EMD** will be kept as **Performance Security Deposit**and will be **refunded after expiry of stipulated warranty periods from the completion date of installation and commissioning on satisfactory performance of the component.**

### 4.3 Prices:

1. Price quoted should be **FOR College of Engineering & Technology, Bhubaneswar only. Tax Instruments as applicable should be mentioned clearly in the financial bid.**
2. Price should be quoted for unit item; however, the actual requirements may be much more. (A tenderer may propose to give discounts if any for purchase of more than one unit of a particular item.).
3. Purchase order will be placed as a single lot for each type of item or for all the items together, as the case may be.
4. In case of items of import, the tenderer should take full responsibility for customs clearance, handling, tax payment, etc. and specify the charge for the same in the price bid.

### 4.4.Discount:

1. Our Institute is a pioneer Institution in the field of Teaching and Research in Engineering and allied disciplines and do not run with profit motive.
2. As such, we are availing price discount for purchase of equipment/instruments/Instruments.
3. The rate of discount or any other Institutional benefit arising out of Govt. Policy etc., on each item may also be indicated in the bid specifically.

# 5. Instruction to the Tenderer:

1. Some of the minimum specifications specified may be redundant, obsolete or incompatible and in these cases, the tenderer must quote the particulars of correct specification of latest trend and technology.
2. Higher specifications instead of minimum specifications are allowed if a minimum specification is not available, obsolete or incompatible.
3. Otherwise, model with higher specification should be in addition to the model with minimum specifications.
4. Specify brand name and full model name and number for each offer.
5. Include the printed catalogue and pricelist if any for each of the component quoted.
6. Specify the list of Accessories required along with each of the component.
7. Quote the additional price of the accessories; only those, which are fully compatible with the quoted component, should be furnished.
8. Specify the list of Accessories to be given free of cost, along with the Instruments “**Free Accessories”**; these should be fully compatible with the quoted models.

### 5.1 Solving Disputes:

1. CET, the tenderer and the manufacturer shall make all efforts to resolve amicably by direct informal negotiation on any disagreement or dispute arising between them under or in connection with this contract.
2. All disputes arising out of the contract shall be referred to courts under the jurisdiction of the Bhubaneswar court only.

***The above terms and conditions except those otherwise agreed upon, shall form a part of the Purchase Order***.

***Sign on each page of this tender document and Return it along with the offer enclosing this part together with the Technical Offer.***

***\*\* \* The CET authority has all rights to accept / reject any tender without assigning any reasons thereof.***

# 6. Technical Specifications

Following are the minimum specifications of the component.

1. The minimum specifications are indicative and not exhaustive.
2. The models with higher specifications may be quoted.
3. The quoted materials should be of latest trend and technology.
4. Each component should be complete in itself without needing any extra requirements except the requirement of general test and measuring instruments.

**Financial Bid will be opened only if Tenders must qualify in Technical evaluation.**

**List of Instruments required for Control SystemsLab of Electrical EngineeringDepartment:**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Name of the Item with Specifications** | **Qty. Required** |
|  | DC motor System Identification   * Built in power supply * DC supply +12V,500mA. * Variable DC power supply : 7 to 14V/3A * MATLAB interface with System * 220V±10%, 50Hz mains operation * Computer Interface Adaptor * 4 ADC channels: 0 to 2.5V full scale. * 4 DAC channel: O/P 2.5 V FS. * Desktop Computer for Matlab interface with original win10, 10th Gen, 8GB RAM, 500GB HDD * USB IO module to interface 25 pin D connector on CIA panel to USB PC port enclosed in 25 Pin D shell using Type A to mini B cable. | 02 |
|  | AC position control System   * 2-phaseservomotor–12 V/phase,50Hz, 10 watt * Power amplifier for driving * Servo potentiometer type error detector * In-built 10.00 volt (rms) panel meter * Step response capture/display card * Computer Interface Adapter with Matlab * USB IO module to interface 25 pin D connector on CIA panel to USB PC port enclosed in 25 Pin D shell using Type A to mini B cable | 02 |
|  | DC Position Control System   * PMDC Motor 12V DC, 40-Watt, 2000 RPM with gear box (Ratio 30 :1) * Loading: Using PMDC Motor @ 12V/5A max. Servo Amplifier with built in 12V/3A power supply. * Armature controlled D. C. servomotor with suitable coupling required for   i)output position indicator and  ii)Tacho-generator.   * D.C. tacho-generator coupled to D.C. motor, for derivative feedback. * Computer Interface Adapter with Matlab | 02 |
|  | Design of Lead Lag compensating networks for given plant   * Simulated ‘uncompensated’ system having adjustable damping. Peak percent overshoot MP, variable from 20% to 50%, and steady state error variables from 50% to 0.5% * Compensation network implementation through built-in variable gain amplifier. Gain is adjustable from 1 to 11 * Built-in square and sine wave generators for transient and frequency response studies. * Built-in 1st and 2nd order uncompensated system. * Frequency adjustable from 25Hz – 1 KHz (approx.) * 220V±10%, 50Hz mains operation | 02 |
|  | Temperature Control system   * 220-240Vac, ±10%, 50Hz, 75VA * Sensor RTD PT 100, Range: 0 to 200 degree centigrade. * Mode of control: ON/OFF, P, PI, PID * Digital temp. indication, set point indication, set point control and calibration check-up for 0 degrees and 100 degree centigrade. * Inbuild PID controller * Computer Interface Adapter for Matlab | 02 |
|  | Compensator design for low pass filter using op-Amp   * Digital A. C. voltmeter up to 0 to 5 volts range. * Digital phase angle meter. * Sinusoidal oscillator for measurement * Digital phase angle meter in the range 0 to 360 degrees * Digital A. C. voltmeter in the range of 0.1 volt to 5 volts. * Signal generator: supply 6 volts RMS sinusoidal voltage in the frequency range 20 Hz to 1000 Hz * Built-in Op-Amp and low pass filter. | 02 |
|  | Closed loop P, PI, PID controller   * Simulated blocks – dead time (transportation lag), integrator, time constants, error detector and gain * PID Controller (configurable as P, PI, PD or PID) * Proportional Band: 5% to 50% (Gain 2-20) * Integral time: 10msec - 100msec * Derivative time: 2-20msec * Built-in 3½ digit DVM for d.c. measurements * Built-in IC regulated power supply * 220V±10%, 50Hz mains operation * Computer Interface Adapter for Matlab | 02 |

**Note: All the Instrumentsmust haveISI standard also the brand of farmmust be mentioned in the technical bid.**

**COLLEGE OF ENGINEERING & TECHNOLOGY, BHUBANESWAR DEPARTMENT OF ELECTRICAL ENGINEERING**

**(A Constituent College of BPUT, Odisha)**

**Techno Campus, Ghatikia, P.O. MahalaxmiVihar, Bhuabaneswar,Khurda, Odisha, Pin-751029**

[**www.cet.edu.in**](http://www.cet.edu.in)**Email:**[**principalcet@cet.edu.in**](mailto:principalcet@cet.edu.in)

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**TECHNICAL BID**

(To be enclosed in separate sealed cover)

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Name of the component** | **Make/Model** | **Qty. Required** |
|  | DC motor System Identification |  | 02 |
|  | AC position control System |  | 02 |
|  | DC Position Control system |  | 02 |
|  | Design of Lead Lag compensating networks for plant |  | 02 |
|  | Temperature Control system |  | 02 |
|  | Compensator design for low pass filter using Op-Amp |  | 02 |
|  | Closed loop P, PI, PID controller |  | 02 |

Note: A DD for Rs.5,000/- (EMD) and Rs.1000/- (Tender document fee) should be enclosed with this bid.

1. Name of the bidder
   1. Full postal address
   2. Full address of the premises
   3. Telephone number and Fax Number
   4. E-mail id
2. a) Tender Cost: Rs……………………...D.D. No………..……………date………………

b) EMD: Rs………………………D.D. No………..……………date………………

1. Registration No. of Firm:

(Copy of Document showing Registration of Firm shall be enclosed)

1. Tax Clearance Certificate and GSTIN No:

(Copy of Tax Clearance Certificate and GSTIN No. proof shall be enclosed)

1. Income Tax Clearance Certificate:

(Copy of IT Clearance Certificate and PAN No. proof shall be enclosed)

1. Total annual turn-over(value in Rupees)(Previous year):

(Copy of Balance Sheet / Audit Statement / IT returns, etc. to be attached as proof)

1. Past supply details for 3 years

(Copy of proof shall be enclosed)

1. Whether similar job work undertaken in the past, if so details:

**Customer** **Quantity supplied** **Year**

**Signature with Date and Seal of the Bidder/Tenderer**

**COLLEGE OF ENGINEERING & TECHNOLOGY, BHUBANESWAR**

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**(A Constituent College of BPUT, Odisha.)**

**Techno Campus, P.O. MahalaxmiVihar, Ghatikia, Bhuabaneswar,Khurda, Odisha, Pin-751029**

**www.cet.edu.in**

**Email:principalcet@cet.edu.in**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**FINANCIAL BID**

(To be enclosed in separate sealed cover)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Item Description** | **Make / Model** | **Qty.**  **Req.** | **Unit Cost** | **Total** | **Taxes**  **applicable** | **Any**  **other** | **Total** |
|  | DC motor System Identification |  |  |  |  |  |  |  |
|  | AC position control System |  |  |  |  |  |  |  |
|  | DC Position Control system |  |  |  |  |  |  |  |
|  | Design of Lead Lag compensating networks for a given plant |  |  |  |  |  |  |  |
|  | Temperature Control system |  |  |  |  |  |  |  |
|  | Compensator design for low pass filter using Op-Amp |  |  |  |  |  |  |  |
|  | Closed loop P, PI, PID controller |  |  |  |  |  |  |  |

**Signature and seal of the bidder**

# PROFORMA FOR SUBMITTING ELIGIBILITYREQUIREMENT AND UNDERTAKING

To

The Principal,

College of Engineering and Technology (CET)

Bhubaneswar-751029

**Sub: Submission of Tender for SupplyofInstrumentsfor Control Systemlaboratory**

Sir / Madam,

Having examined the conditions of contract and specifications including addenda, I/we, the undersigned, offer to undertake Supply, Testing & Commissioning of above-mentioned items at Department of Electrical Engineering, CET, Bhubaneswar, in conformity with the specifications, terms & conditions of Tender.

1. I/We agree to abide by the terms and provisions of the said conditions of the contract and provisions contained in the notice inviting tender. I/We hereby unconditionally accept(s) the tender conditions.

It is certified that I/we have not stipulated any condition(s) in our tender offer. In case any condition(s) are found in our tender offer violated after opening tender, I/We agree that the tender shall be rejected without prejudice to any other right or remedy be at liberty to forfeit the EMD absolutely.

1. I/We hereby submit the earnest money of [INR…………..……….……] for the Tender for the above mentioned work in the form of demand draft.
2. That, I/We declare that I/We have not paid and shall not pay any bribe to any officer of CET for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of CET asks for bribe/gratification, I/We shall immediately report it to the CET authorities.
3. That, I/We undertake that CET’s tender document shall form part of contract agreement.

I/We understand that you are not bound to accept the lowest or any bid, you shall receive.

Thanking you

Yours faithfully

Dated:

Signature of Bidder

Name: ……………………

Telephone:……………….

Witness…...................

Signature....................

Address......................

Enclosures