Government College of Engineering and Technology, ChakBhalwal, Jammu,Chak Bhalwal, Jammu

INVITATION LETTER

Package Code: TEQIP-III/2019/JK/gcej/204 **Current Date: 21-Aug-2019**

Package Name: TEQIP-III/GCET/E&C/Basic Electronics Lab. **Method: Shopping Goods**

To,

_____

_____

_____

Sub: INVITATION LETTER FOR TEQIP-III/GCET/E&C/Basic Electronics Lab.

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Basic Electronics laboratory	1 Package (Detailed Specifications as per Annexure-I)	E&C Engg. Department Govt. College of Engineering & Technology Chak Bhalwal, Jammu-181122 (J&K)	Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. Quotation

3.1 The contract shall be for the full quantity as described above.

3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55**days after the last date of quotation submission.

6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which

6.1 are properly signed; and

6.2 Confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

Supply, Installation and Inspection report - 100% of total cost

10. **Liquidated Damages (L.D):**

If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier at the rate 0.5% of the value of the order per week subject to a maximum of 10% of the total order value. The L.D charges can be increased in case of gross violation of the Purchase Order terms as decided by the Principal of the Institute.

11. All supplied items are under warranty of **24**months from the date of successful acceptance of items and AMC/Others is **NA.**

12. You are requested to provide your offer latest by **16:00** hours on **04-Sep-2019.**

13. Detailed specifications of the items are at Annexure I.

14. Training Clause (if any) **YES**

15. Testing/Installation Clause (if any) **YES**

16. **Performance Security:** The successful supplier after evaluation of the tenders shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Nationalized /Commercial bank for an amount of 10% of the taxable amount within 15 days from the date of receipt of the purchase order/LC and should be kept valid for a period of 60 days beyond the date of completion of warranty period.

17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

18. Sealed quotation to be submitted/ delivered at the address mentioned below, **Government College of Engineering and Technology, Chak Bhalwal, Jammu**

19. The offer/bid should be submitted in two bid systems (i.e.) Technical bid and Financial bid as per the format mentioned in Annexure- II & III.

20. <u>Technical Bid :</u>

The technical bid comprising of following documents should be sealed in envelope "A" mentioning Technical Bid on top of the envelope. The envelope must mention package no. and name.

i) The Technical Bid should be submitted as per the bid format. (Annexure-II)
ii) A compliance list against the technical specifications as per Annexure-I should be provided.
iii) Proof of Registration of the bidder.
v) Copies of PAN Card and GST registration no.
vi) Signed copy of the tender document, with company seal, agreeing to the terms & conditions must be submitted.

All documentary proof must be listed on the letterhead of the company. This part of bid should not contain any "Price information".

21. <u>Financial Bid :</u>

i) Financial bid should indicate item wise price for the items mentioned in the technical bid as per the format. (Annexure-III)
ii) The price quoted should be F.O.R GCET Jammu.
iii) All duties and other levies payable by the supplier under the contract shall be included in the unit price.
iv) The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
v) The Prices should be quoted in Indian Rupees only.
vi) The Financial bid should be sealed in envelope "B" mentioning Financial Bid on top of the envelope. The envelope must mention package no. and name.

22. Both the envelopes (containing Technical Bid and Financial Bid) should be packed in a big envelope and should subscribe the Shopping/Package No. and Name.

23. <u>Opening of Bids:</u>

i) The technical bid will be opened first and it will be examined by a technical committee (as per specification and requirement mentioned in the NIQ).
ii) The financial offer/bid will be opened only for the technically qualified bidders/vendors as decided by the technical committee, and will be opened subsequently for further price comparison.

24. Tenderer or his/her authorized representative (with proper authorization letter for opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of Technical bids/Price Bids.

25. The Institute reserves the right to reject any bid not fulfilling the eligibility criteria.

26. Supply of Items: Free of cost at GCET Jammu by the vendor.

27. <u>IMPORTANT:</u>

i) A bid submitted with false information will not only be rejected but also the OEM/vendor will be debarred from participation in future tendering process.

ii) Each bidder shall submit only one quotation

iii) In case of any dispute, the decision of the Principal of this Institute shall be final and binding on the bidders.

iv) In case the due date for submission of the tender happens to be a holiday, the same will be accepted on the next working day.

v) The Authority of GCET Jammu reserves the right to reject any or the entire tender bids received without assigning any reason thereof.

vi) The technical bid will be evaluated first and price bids will be opened in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids.

vii) Bidder should submit the tender document, duly signed and stamped on every page in token of accepted all the terms and conditions of the tender.

viii) The institute does not bind itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the technical evaluation committee of the institution.

ix) The bids (Technical & Financial) once submitted will be the property of the institute.

x) Declaration and Authorisation form to be attached with Tender as per Annexure IV and Annexure-V.

28. We look forward to receiving your quotation and thank you for your interest in this project.

ANNEXURE - I

S.N	Name Of Equipment	Quantity	Specification	Compliance (Yes/No)
1.	Study V-I Characteristics of PN junction Diode	08	Forward Reverse characteristics and to find cut-in voltage of Germanium and silicon diode, Input power 230V/50Hz AC,DC supply(0-12)v, 500mA, Voltmeter(0-1)V,(5v-15v)Ammeter(0-100)mA,(250µAmp-250mA)with manuals and patch cords.	
2.	To study characteristics of Zener Diode.	08	On board circuit to study Zener Diode characteristics, Variable voltage supply from 0to+12V,Input power ,Zener 5V 230V/50Hz AC On/Off switch and LED for power indication with manuals and patch cords.	
3.	Function Generator	08	3MHz Range, Line voltage 230V/50Hz AC ,Output with 6 decade ranges-2Hz to2MHz,Types of wave Sine, Square,Triangular,Pulse with ramp Output 2mv to20mv peak to peak, Attenuator of 2 to 20 v ,Digital read out with patch cords and manuals	
4.	Study Characteristics of Transistor in CB,CC,CE	10	On board circuit to study transistor characteristics in CB,CC,CE configuration, Two separate variable Voltage Supply from 0 to 5V,On board Digital voltmeter Ammeter with range selection from µA to mA with patch cords and manuals	
5.	Class B Pushpull Power Amplifier	10	On board circuit to study Class B pushpull power amplifier, Input Power 230V /50Hz DC supply (0to-15)V,DC /100mA,Voltmeter(0-15)V DC, with patch cords and manuals.	
6.	Study of class A Amplifier (Two stage transformer coupled Amplifier)	10	On board printed diagram of circuit with build-in power supply and Biasing arrangement and connection point for Input signal and Observation of waveform at different points based on transistors, with patch cords and manuals.	
7.	To study the characteristics of FET	10	On board circuit to study FET characteristics, Variable voltage supply from (0-12)v DC,(0-30)v DC, Ammeter (0-50)mA, Voltmeter(0-5)v-(0-50)v with manuals and patch cords.	
8.	Hartley Oscillator	10	It Is Used to study the Hartley Oscillator . On board separate Tank Circuit , test points are provided to analyse signals at various points, based on transmitter, Block description screen printed on glass epoxy PCB with built in power supply, with patch cords and Manuals	
9.	Wein Bridge Oscillator	10	On board Circuit to study Wein Bridge Oscillator. OP- Amp based Wein Bridge Oscillator , Symbols representation of Wein Bridge Oscillator. Test point to measure signals, On board variable resistances to balance the bridge with Patch Cards and Manuals.	
10.	Colpitt Oscillator	10	On Board Colpitt Oscillator built in power supply test points are provided to analyse signals at various points, Symbol s representation of Colpitt, based on transmitter with Patch cords and manuals.	
11.	Phase Shift Oscillators	10	On board circuit to study phase shift Oscillators, test points are provided to analyse the signals at various points , built in power supply based on Op- Amp with patch cards and manuals	

12.	Study of Voltage Regulators.	10	Demonstrate the Principle of all detail study of Transistor series voltage Regulator shunt Regulator three terminals fixed voltage Regulator (Positive-78xx & Nagative-79xx) and variable voltage Regulator. -LM 317 & LM337 the kit should be provided with all necessary instrumentation for above voltage Regulators raw rectified filter AC supply Three terminals voltage Regulators fix and variable Two 3 ½ Digit LED voltage 200mv, 2v,20v selection switch & current meter (2mA, 20mA & 200mA) with selector switch, with manual patch cords.	
13.	To Study Push pull Amplifier using Complementary symmetry	10	Built in power supply, Built in Variable DC supply, (0-15)V DC (100ma), BJT CL100, Voltmeter (0-15) v DC, Different load resistors, with patch cords and manual	
14.	Transistor Feed Back Amplifier Kit	10	Circuit should be on glass epoxy PCB with high quality printing & green marking on trace side 9v in power supply, 1KHZ built in sine wave with o-1v o/p two stage transistor amplifiers, with manual patch cords.	
15.	Hand Held Digital Multimeter	10	DC/AC Volt measurement, current Measured, Resistance measurement, Diode Test, Transistor Test-PNP/NPN & E, B,C, Display-LCD, 3999 counts max, Test leads Electric vaturgo 1500V, 10A, Battery 9V.	
16.	Characteristics of UJT	10	On Board Circuit to study UJT Characteristics . On Board two separate variable voltage source from 0 – 12Volts ,built in Power supply with Patch Cords and Manual.	
17.	Tunnel Diode Characteristics	10	Inbuilt Fixed DC regulated power supply O/P Voltage +5VDC on Board Digital Panel meter for measuring V1 Voltage across Resistance R , V2 Voltage Tunnel Diode , Potentiometer R1 Current Control. With Patch cords &Manual .	
18.	Characteristics of PHOTO Diode and LED	10	On Board Regulated Power supply (0- 30 v)., 0-230 V variable AC power Supply with Lamp Light, Dimmer Circuit. Photo Diode characteristics Circuit and LED circuit with Patch Cords & Manuals.	
19.	To study Diode as Clipper and Clamper Circuit	10	Power supply +/- 15V , clipper ckt. Using diode clamper circuit using diode, +Ve& -ve Clipping clamping with patch card and manuals.	
20.	DC Analog Ammeter 0-5mA 0-20mA 0-200mA	10	DC Analog Ammeter with range 0-5mA, 0-20mA & 0-200mA enclosed in powder coated cabinet for performing experiment in lab	
21.	DC Analog Voltmeter 0-1V 0-20V 0-3V	10	DC Analog Voltmeter with range 0-1V,0-20V & 0-3V enclosed in powder coated cabinet for performing experiment in lab.	
22.	Tuned Amplifier Kit	10	In-built power supply, frequency range 100kHZ to 2Mhz with patch card and manuals.	
23.	Bread Board with power Supply	10	+-5v, +-15v 3 terminal strip, tiepoints, 92D & 5 distribution strip tiepoints 500 & 4 binding parts.	
24.	Digital Storage Oscilloscope 100Mhz	06	100 M Hz Digital Multi function oscilloscope with Auto set save & Recall readout & curser 2 channel 1m v/div-20v/div.	

			Deley live 14KV CRT time base / F: 0.55 sns/div, B:20ms-Sns/div with 2 Trigger Triggering DC-250 MHz, Automatic peak to peak attenuate Trigger. With probes	
25.	Half, full wave and bridge rectifier with & without filters	10	Instrument Comprises in built AC power supply 15-0 – 15V, 2 meters to measure output voltage & output current, Filter circuit kit with switch selectable, In built inductor, Load Resistance. With patch cards & manual	
26	JFET & MOSFET Characteristics	08	Characteristics of JFET MOSFET, O/P wave from since: Frequency & Amplitude Adjustment is provided using Potentiometer on board circuits MOSFET Amplifier, JFET Amplifier, DC power supply internally connected. With patch cards & manual	
27	Transistor amplifier (single stage CE,CB,CC) Trainer	10	Instrument comprises of fixed output Regulated power supply ±12V, Circuit diagram is printed and Components mounted on the front panel & connections of important points brought out as Sockets. With patch cards & manual	
28	Soldering, Desoldering Station	10	No of channel 2, power supply 230V, 50Hz, Temperature Rang Adjustable from 50C – 450C, built in pump periodic duty 30/3as, ESD safe provision for setting stand by time & stand by temperature. Heating output Desoldring iron 80W Temperature rang 50C – 450C, Safety rest with dry cleaner required. Spares 2.4mm tip____6 0.3x0.1mm tip _____6 Nozzle for desoldering gun_____6	
29	Universal IC tester/Analog Tester	02	Tests Digital & Analog IC's from 3 to 40 pins, Built in self diagnostic function to ensure error free testing of IC, Automatic testing of variety of IC's, 2 nos of potentian free 40 pin ZIF sockets for testing analog digital IC's.	
30	BJT Voltage Divider/Self Biasing	10	Demonstration Kit. With patch cords	
31	JEET Biasing methods / self bias	10	Demonstration Kit. With patch cords	
32	LCRQ Meter	02	LCR meter is a type of Electronics test equipment used to measure the inductance capacitance & resistance of an Electronics component in the simpler version of this instrument impedance was measured internally & converted for display to the corresponding capacitance or inductance, Microprocessor based fully automatic LCR&Q measurement, Auto ranging with direct Digital read out, 4 Terminal measurements Technique.	

ANNEXURE – II

TECHNICAL BID DOCUMENT

FORMAT TO BE FILLED BY THE OEM OR AUTHORIZED VENDORS FOR SUBMITTING TENDER FOR PROCUREMENT OF _____

1. Name of the Tenderer :

2. Details of Address of the Vendors :

   (Attach details)

3. Proof of Registration or trade license :

   (Attach copies)

4. PAN and GST registration no (attach copies) :

Certified that all above information are correct to the best of my/our information, knowledge and belief.

Dated signature & seal of the OEM/Vendor

ANNEXURE-IV

<< **Organization Letter Head >>**

DECLARATION SHEET

We, _____ hereby certify that all the information and data furnished by our organization with regard to these tender specifications are true and complete to the best of our knowledge. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

The prices quoted in the financial bids are subsidized due to academic discount given to GCET Jammu.

NAME & ADDRESS OF
THE Vendor/ Manufacturer / Agent

Phone
Fax
E-mail
Contact Person Name
Mobile Number

GSTIN Number
PAN Number

(Signature of the Tenderer)

Name:

Seal of the Company

ANNEXURE- V

MANUFACTURERS' AUTHORIZATION FORM

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. Date: [insert date (as day, month and year) of Bid Submission]

Tender No.: [insert number from Invitation for Bids**]**

To: [insert complete name and address of Purchaser**]**

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby author-ize [insert complete name of Tenderer] to submit a bid the purpose of which is to provide the followingGoods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty as mentioned in the terms and conditions of the tender document, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer**]**

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer**]**

Title: [insert title**]**

Duly authorized to sign this Authorization on behalf of: [insert complete name of Tenderer**]**

Dated on _____ day of _____**,** _____ **[**insert date of signing**]**

ANNEXURE-III

FORMAT FOR QUOTATION SUBMISSION
(In letterhead of the supplier with seal)

Date: _____

To:_____
_____

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ———————— (Amount in figures) (Rupees ————————amount in words) within the period specified in the Invitation for Quotations.
We confirm that the normal commercial warranty/ guarantee of ———————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.
We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier
Name: _____
Address: _____
Contact No. _____