

OFFICE OF THE DIRECTOR-PRINCIPAL
Government Hydro Engineering College Bandla (Bilaspur)
Camp at RGGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047
01892-250777, hecbilaspur@gmail.com, https://www.ghec.ac.in

LIMITED TENDER NOTICE
(Limited tender No. GHEC/STR/ Limited Tender / 2019-20/01)

Dated 05/12/19

Sealed limited tenders are invited from the eligible manufacturers /firms/authorized dealers for the purchase of Machinery & equipments for the laboratories, office & class rooms as per specifications given in the bid document. The bids must be accompanied with Earnest Money given as per schedule of requirements in the shape of Demand Draft or duly pledged fixed deposit receipts in favor of **DIRECTOR-PRINCIPAL Government Hydro Engineering College Bandla (Bilaspur)**.

A complete set of Bid Documents along with detailed terms and conditions can be obtained from the institution website (www.ghec.ac.in) or from the Office of the Director-Principal **Government Hydro Engineering College Bandla (Bilaspur), Camp at RGGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047** on the submission of written application to this office and upon payment of non-refundable fee as mentioned in the document in the form of account payee demand draft or duly pledged fixed deposit receipts in favor of **DIRECTOR-PRINCIPAL Government Hydro Engineering College Bandla (Bilaspur) (Camp at RGGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047**. Bids documents requested by mail will be dispatched by registered or speed post on payment of extra amount mentioned in the document.

The following procedure will be adopted:

- Tenders in a sealed cover shall comprise two separate envelopes, each envelop shall contain separately the technical bid and the financial bid. The envelopes shall be marked as '**Technical Bid**' and '**Financial Bid**' in bold and legible letters to avoid any confusion.
- Initially technical bid will be opened.
- The technical bid shall be evaluated without reference to the price and will be rejected which does not conform to the specific technical criteria.
- During the technical evaluation, no amendments to the technical proposal shall be permitted.
- The financial bid will be opened after the evaluation of technically qualified bidder.
- The bid found to be lowest evaluated bid shall be accepted.
- This office will not be held responsible for the postal delay, if any.
- Undersigned reserves the right to accept or reject all or any of the tenders without assigning any reason(s).



DIRECTOR-PRINCIPAL
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01892-250777, hecbilaspur@gmail.com, https://www.ghec.ac.in**

No. GHEC/STR/ Limited Tender / 2019-20/01

Date.....05/12/2019

Limited Tender Document

To,

.....
.....
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From:



**DIRECTOR-PRINCIPAL
Government Hydro Engineering College Bandla (Bilaspur)
Camp at RGEC Kangra at Nagrota Bagwan,
Distt. Kangra (HP)-176047**

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No. GHEC/STR/ Limited Tender / 2019-20/01

S. No.....

Limited Tender Document for the supply of Machinery and Equipments required in Government Hydro Engineering College Bandla (Bilaspur), Camp at RGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047

General Information

1	Limited tender for supply of	Machinery & Equipment
2	Limited Tender Reference	GHEC/STR/ Limited Tender / 2019-20/01
3	Last date and time for receipt of tender	21-12-2019 at 02.00PM
4	Time and date of opening of tender	21-12-2019 at 03.00PM
5	Place of opening of tender:	OFFICE OF THE DIRECTOR-PRINCIPAL Government Hydro Engineering College Bandla (Bilaspur) Camp at RGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047
6	Address for communication	DIRECTOR-PRINCIPAL Government Hydro Engineering College Bandla (Bilaspur) Camp at RGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047.
7	Estimated cost	4,26,000/- Rupees only
8	Earnest money	Rupees 10,000/- only
9	Performance Security	Rupees 10,000/- only
10	Cost of limited tender document	Rupees 500/- only (Rs. 600/- by post)



DIRECTOR-PRINCIPAL
Government Hydro Engineering College Bandla (Bilaspur)
Camp at RGEC Kangra at Nagrota Bagwan,
Distt. Kangra (HP)-176047

SECTION-A

1. Name of the firm/Organization : -----
2. (a) Registration No : -----
(b) GST No.: :-----
(c) PAN : :-----
3. Complete Postal address : -----
: -----
: -----
4. Phone No. with STD code : -----
5. E-mail address (if any) : -----
6. Whether Manufacturer/Dealer/Supplier : -----
7. Total Amount of items Tendered
(Excluding taxes) in words : -----

8. Detail of earnest Money Draft No. & Date : -----
Amount : -----
Bank : -----

(Signature of the Tenderer with seal)

SECTION-B

Schedule of Requirement

Sr. No.	Description of item(s)	Qty.
Schedule - A		
	Supply of Machinery and Equipment required in Government Hydro Engineering College Bandla (Bilaspur) Camp at RGSEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047	As per list attached in section C



DIRECTOR-PRINCIPAL
Government Hydro Engineering College Bandla (Bilaspur)
Camp at RGSEC Kangra at Nagrota Bagwan,
Distt. Kangra (HP)-176047 .

SECTION-C

DETAILED SPECIFICATION OF THE ITEMS MENTIONED IN SCHEDULE-A

S. N	Description of item		Qty.
LIST of Machinery and Equipment required in Government Hydro Engineering College Bandla (Bilaspur) Camp at RGGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047			
1	Basic Electrical lab Trainer Module	<p>Basic Electrical Lab Trainer Module</p> <p>suitable for performing the following experiments:</p> <ul style="list-style-type: none"> • Study of the Resistances in series and in parallel connections • Study of the Ohm's Law mathematical relationship between three variable Voltage (V), Current (I) and Resistance • Study of the voltage and current flowing into the circuit • Study of the Kirchhoff's Law for electrical circuits • Study of the R-C circuit and find out the behaviour of capacitors in a R-C network and study the phase shift due to capacitor • Study of the L-C circuit and find out its behaviour as resonance circuit <p>The trainer system must comprises of :</p> <ul style="list-style-type: none"> • DC Power Supply: 5V, 200mA • AC Power Supply: 6V, 1A • Relay: 5V • Galvanometer: 30 - 0 - 30 • Galvanometer Resistance: 80W • Light Bulbs: 6V • Potentiometers: 25W, 1W, 10kW, 1W • Switch: 1 Pole, 2 Way Toggle type • Core Types: E, I, U • Coils • 230V , 50 Hz, Power Supply • Suitable meters on the ETB and connecting leads and operating manual 	2
2	Basic Electronics Lab Module	<p>Basic Electronics Lab Trainer Module</p> <p>suitable for performing the following experiments:</p> <ul style="list-style-type: none"> • Study of the various electronic devices • Study of V-I Characteristics of various types of diodes • Study of V-I Characteristics of various types of Transistors (BJT/FETs) • <p>The trainer system must comprises of :</p> <ul style="list-style-type: none"> • DC Power Supply: 5V, 200mA • AC Power Supply: 6V, 1A • Required Components • Signal generators • Potentiometers: 25W, 1W, 10kW, 1W • Switch: 1 Pole, 2 Way Toggle type. Indicators 	2

		<ul style="list-style-type: none"> • 230V , 50 Hz, Power Supply • Suitable meters on the ETB and connecting leads and operating manual 	
3	Digital Electronics Lab Trainer Kit	<p>Digital Logic Circuits Experiment Trainer comprises of following :</p> <p>DC Power Supplies (+ 5V, 1A; +3V to +15V, 500 mA (variable) - 3V to -15V, 500 mA (variable), Pulse Switches, Pulse Generator, Sockets (20 pins), 8 bit Data Switches, LED display, Logic Probe and Digital display and suitable logic circuit ICs.</p> <p>The trainer system should be capable of performing the following experiments on logic circuits:</p> <p>Study the operation of :</p> <ul style="list-style-type: none"> • Logic AND gate and verify its Truth table • Logic OR gate and verify its Truth table • Logic NOT gate and verify its Truth table • Logic NAND gate and verify its Truth table • Logic NOR gate and verify its Truth table • RS Flip-flop and verify its Truth table • JK Flip-flop and verify its Truth table • D Flip-flop and verify its Truth table • Logic algebra • Application of logic gate circuit • Implementation of simple logic design • Digital combinational logic circuits • Application of D Flip-flops as Shift Register • Application of JK Flip-flops as Up-Down Counter • 	2
4	Power Electronics Lab Trainer	<p>Power Electronics Lab Trainer Kit Comprising of :</p> <p>Inbuilt DC/AC Power Supplies, Breadboard, Pulse Generator, Frequency & Duty Cycle Control, Variable Load, Isolation Transformer, Controlled Rectifier Circuits.</p> <p>The trainer kit should be suitable to perform the following experiments:</p> <ul style="list-style-type: none"> • VI characteristics of Power devices • Study of Single Phase Thyristor Firing Scheme • Single Phase Controlled Rectifiers • DC to DC Chopper • Single Phase Inverter • V-I Characteristics of SCR • R, R-C Triggering Circuit • SCR Triggered by UJT • V-I Characteristics of TRIAC 	2

		<ul style="list-style-type: none"> • V-I Characteristics of UJT • V-I Characteristics of MOSFET • V-I Characteristics of IGBT • UJT Relaxation Oscillator 	
5	Control System Lab Trainer	<p>Control System Lab Trainer Comprising of:</p> <p>Technical Specification: Operating Voltage : +5V, - 5V, +12V, -12V Servo Motor : +5VDC DC Motor : +12VDC 0 Temperature Sensor : 10mV/ C Light Sensor : Photo Conductive Cell (LDR) Light Source : 2 LED's V/F : Input 0-5V Output 0-5 KHz (Approximately) F/V : Input 0-5 KHz Output 0-5V (Approximately) V/I : 4 to 20mA Clock Generator : 0-43.50KHz SPST Relay : +5V DPDT Relay : +5V De-Bounce Switch : Monostable (5V output) Buzzer : +5V, Switches : IR Switch, DIP switch Test Points : 25 DAQ Analog Inputs : 4 Inputs with 10 bit resolution DAQ Analog Output : 2 Output 10 bit resolutions DAQ Digital Inputs : 11 TTL Inputs DAQ Digital Outputs : 11 TTL Outputs DAQ Unity gain amplifier : 2 (0V to 10V) DAQ Frequency Counter : 0 to 6MHz (Square Wave) DAQ PC Interface : USB 2.0 Mains Supply : 230V +/- 10%, 50/60Hz Power Consumption : 4VA</p> <p>Should be able to perform the following Experiments: - Study & observe Voltage to Frequency converter - Study & observe Frequency to Voltage converter - Study & implement Light intensity control using PWM method - Study & observe Characteristic of Photoconductive cell(LDR) - Study & observe Motor speed & input characteristics - Study & implement Bidirectional Motor speed control - Study & implement Tachogenerator using F/V converter - Study & implement Motor control using PWM method - Study & observe position control of DC Motor - Study & observe position control of Servo Motor - Study & implement DC Motor control (open Loop & Close loop) - Study & implement Temperature control (Open Loop & Close Loop)</p>	1

6	Digital Storage Oscilloscope	Digital Storage Oscilloscope: <ul style="list-style-type: none"> - 4 Channel - Bandwidth 50 MHz - Sampling Rate 1GS/s - Color LCD Display - With probes, and power supply cord - 	2
7	Digital Multimeter	Digital Multimeter: 4 ½ Digit, Provision to measure AC/DC parameters (Voltage & Current), 0-1000V DC, 750 V AC, 2/200mA to 20A Current Range, Continuity testing, Resistance, Diode testing, data hold and capacitance measurement facility.	4
8	Display Boards /Charts	Educational Display Boards/Charts/Cut section/Blocks (for Electrical, Mechanical/Civil/other ASH Labs)	L/S

For (Authorized Signatory)

Name of the firm.....

Complete address.....

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Seal Stamp.....



DIRECTOR-PRINCIPAL

Government Hydro Engineering College Bandla (Bilaspur)

Camp at RGEC Kangra at Nagrota Bagwan, Distt. Kangra (HP)-176047 .

SECTION-D
PRICE SCHEDULE

S.N	Description of item	Qty	Cost per unit (Rupees).	Total Cost (Rupees).
1	Basic Electrical lab Trainer Module	2		
2	Basic Electronics Lab Module	2		
3	Digital Electronics Lab Trainer Kit	2		
4	Power Electronics Lab Trainer	2		
5	Control System Lab Trainer	1		
6	Digital Storage Oscilloscope	2		
7	Digital Multimeter	4		
8	Display Boards /Charts	l/s		

Total Bid Price (Excluding Taxes in Rs) _____

(In words) _____

Date _____

Place _____

(Signature of the bidder with seal)
Name and Address-----

Bm

TERMS AND CONDITIONS

1. Bidders are required to submit the attested copy of Registration (latest) clearly mentioning the period of validity. Any firm failing to submit the same will not be entertained.
2. Rate has to be quoted for complete set (including all sub-parts/accessories, if any) of machinery/equipment to be supplied.. Bidder quoting the lowest rate for complete set shall only be considered fulfilling all other requisite conditions.
3. The tenderer shall submit the latest income tax return statement. This will help in assessing the capability of the bidder to supply the items mentioned in the schedule of bid document.
4. The bidder shall also submit the proof that it is ~~sales~~^{GST} tax payee. The attested photocopy of the same is required to be submitted along with the bid document.
5. The rates quoted should be F.O.R. destination at Govt. Hydro Engineering College Bandla (Bilaspur), Camp at RGGEC Kangra at Nagrota Bagwan-176047. The rates must also include installation/Demonstration and Training expenses, if any.
6. Standard GST rates are applicable, if any.
7. The duly constituted College Committee shall inspect the material to satisfy itself for verifying specifications as mentioned in bid document.
8. The supplier shall be required to complete the delivery at college (including inspection) within stipulated days as mentioned in the supply order.
9. The items/equipments shall remain under Guarantee/Warranty by the supplier.
10. The Guaranty/Warranty shall be effective from the actual date of installation in case of items of machinery and equipment.
11. 100% payment will be made within one month against physical delivery of inspected/accepted stores duly supported with satisfactory inspection note and after receipt of correct goods at consignee site/destination.
12. Successful bidder has to give the Bank Account Detail such as account name, number, IFSC code of bank, bank name, branch and PAN. Also provide AADHAR number in case the account is on the name of a person. Payment will be directly paid to account holder by Govt. treasury after completing all the required formalities.
13. Earnest money as mentioned in the document shall be required to be paid by the tenderer along with the tender document in shape of account payee demand draft or duly pledged fixed deposit receipts in favor of the Director-cum-Principal, Govt. Hydro Engineering College Bandla (Bilaspur), Camp at RGGEC Kangra at Nagrota Bagwan-176047.
14. Performance security as mentioned in the document shall be obtained from the successful tenderer on the award of the contract in the shape of account payee demand draft or duly pledged fixed deposit receipts or bank guarantee from commercial bank will remain valid for one year from the date of completion of the contract if the supplier fails to repair the damaged/replaced within the one year guarantee/warrantee period, the performance security will be forfeited.
15. Refund of amount of security and earnest money deposited by the firm will be made after three months from the date of expiry of contract or after the date of satisfactory completion of the given supply orders. Keeping in view both these conditions while making applications for the refund of the amount of security. The concerned firm will have to furnish a certificate that the supply of all the supply orders received by it has been made to the consignee according to the prescribed specifications to their entire satisfaction.

16. The earnest money of the bidders whose tender has not been approved/qualify would be return after proper scrutiny.
17. The tenders not confirming to the specifications/descriptions mentioned in bid schedule will be summarily rejected.
18. If the date of accepting/opening the tenders happens to be holiday, the tenders will be opened on the next day at the same time.
19. Telegraphic, Fax, Conditional and tenders without earnest money shall not be accepted.
20. Govt. Hydro Engineering College Bandla (Bilaspur) reserves the right to accept or reject any or all tenders without assigning any reason.
21. The bidders shall keep their offer open for 6 months from the date of opening the tenders. A bid valid for shorter period may be rejected by the purchaser as non-responsive.
22. The Principal may appoint a "Negotiation Committee" if required.
23. The bidder will be responsible for damage or loss in transit and replace goods broken with in 10 days from the date of notice thereof.
24. GST rates shall be indicated separately otherwise rates will be deemed to be inclusive of such levies and taxes and no future increase in duty/taxes will be allowed.
25. Incase where it has not been specifically indicated in the schedule that only manufacturer can participate in tenders, in such cases the tenderers other than manufacturers should attach authorization letter from such principal manufacturer along with the tender.
26. The tender form along with the earnest money and forwarding letter on Letter Head Pad of the firm should be sent through Regd. Post/Speed Post/By Hand well in advance so as to reach to the office of Director-cum-Principal, Govt. Hydro Engineering College Bandla (Bilaspur), Camp at RGGEC Kangra at Nagrota Bagwan-176047 i.e **21-12-2019 up to 2:00PM**. The offer should be sent in a sealed envelope clearly indicating on the top the tender number, due date and the category of items.
27. All the bidders are required to sign each paper of the bid document along with the stamp of their respective organization. Without signature and stamp the tender submitted by them are likable for rejection.
28. The bidder has to attach the supporting documents/catalogues for all the items.
29. All the disputes shall be settled with in the jurisdiction of Sub-Judge Court, Kangra, Distt. Kangra H.P.
30. The earnest money deposited by the tenderers shall be forfeited in the following events:
 - i) A modification or withdrawal of tender after the deadline of submission of tenders and during the validity period.
 - ii) Refusal by the tenderer to accept an arithmetical error or otherwise appearing on the face of the tender.
 - iii) Failure on the part of the successful tenderer to provide performance security for the execution of the contract.
 - iv) Failure on the part of the successful tenderer to execute the contract as per terms and conditions of the tender.

B

31. The purchaser may, at its discretion, extend deadline for the submission of bids by amending the bidding documents, in which case all rights and obligations of the purchasers and bidders previously subject to the deadline will thereafter be subjected to the deadline as extended.
32. The purchaser has the right to ask the supplier(s) to produce the sample of the item(s) for the purpose of comparison of prices and to evaluate technically before placing supply order to the firm.
33. The purchaser or its representative shall have right to inspect or test the goods to confirm their conformity to the contract. The inspection and tests may be conducted on the premises of the supply at his costs.
34. The purchaser reserves the right to increase or decrease the quantity of goods to be procured.
35. An excused delay by the supplier in the performance of its delivery obligations shall rendered the supplier to any or all of the following:
 - i) Forfeiture of its bids security and its performance security.
 - ii) Imposition of liquidated damage.
 - iii) Termination of the contract for default.
36. If at any time during performance of the contract, supplier encounter conditions impeding timely delivers of the goods and performance of the services, the supplier shall promptly notify the purchaser in writing of the facts of delay, its likely duration and its causes as soon as practicable after the receipt of the supplier notice. The purchaser shall evaluate the situation and may at its desecration extend the supplier time for the performance.

Special Conditions

1. All the items mentioned in the schedule shall be preferred from the single vender.
2. The bidder must be a manufacturer or in supplying business as authorized distributor/stockiest for at least three years.
3. The bidder who is a potential authorized supplier/stockiest/dealer in the same business during last three years shall be preferred

I/We herewith enclose a sum of Rs. _____ as earnest money (EMD) in form of demand draft or equivalent and should I/We fail to execute an agreement embodying the above mentioned terms and conditions agree that the above sum as EMD shall be forfeited to the Director-cum-Principal, Govt. Hydro Engineering College Bandla (Bilaspur), Camp at RGGEC Kangra at Nagrota Bagwan-176047

ALL THE ABOVE TERMS & CONDITIONS ARE ACCEPTABLE TO US

For (authorized Signatory)
Name of the Firm: _____
Complete Address: _____

Seal Stamp