

**TENDER NOTICE No. 717/GVYTPGAC/RUSA 1.0 DT. 28.06.2019**

**TENDER DOCUMENT**  
**FOR SUPPLY OF**  
**LABORATORY INSTRUMENTS/EQUIPMENTS**



**GOVT. V.Y.T.P.G. AUTONOMOUS COLLEGE, DURG 91001(C.G.)**  
**(Former Name – Govt. Arts & Science College, Durg)**  
**NAAC Grade-A+, CPE Phase-III, DBT-Star College**  
**Ph.: 0788-2359688, Fax: 0788-2359688**  
**Website: [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in)**



**OFFICE OF THE PRINCIPAL**  
**GOVT. V.Y.T.P.G. AUTONOMOUS COLLEGE, DURG 491001(C.G.)**  
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**TENDER NOTICE FOR THE SUPPLY OF LABORATORY INSTRUMENTS/EQUIPMENTS**

1. Govt. V.Y.T.P.G. Autonomous College, Durg invites sealed tenders in two bid form (Technical & Financial) separately from reputed manufacturer/authorized dealers in India and abroad for supply of laboratory instruments/equipments indicated below as per technical specifications specified in bidding documents.
2. A complete set of tender documents may be purchased by interested eligible bidders from 01.07.2019 to 01.08.2019. (Working days 11.30 AM to 3.30 PM) On 01.08.2019 upto 11.30 AM up to 11.30 A.M. on submission of a written application with a non-refundable Bank-draft of Rs. 700/- (Rupees Seven Hundred) only towards cost of Tender Document in favour of " Govt. V.Y.T.P.G. Autonomous College, Durg " payable at Durg. The same can also be downloaded from College website: [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in) . In this case bid shall be accompanied along with a demand draft Rs. 700=00 as cost of tender document.
3. Tenders (technical & financial ) must be submitted in two separate envelopes on or before 3.00 P.M on **01.08.2019** at " Govt. V.Y.T.P.G. Autonomous College, Durg -491001, Chhattisgarh. Techno-commercial bids will be opened on the **02.08.2019 at 3.00 P.M onword** in the presence of bidders or their authorized representatives. Who would like to be present? The date of opening of financial bid will be communicated latter on to the successful bidders whose techno commercial bid is found suitable by the College.
4. All the tenders must be accompanied by bid security in accordance with the instructions given in bidding document.
5. Govt. V.Y.T.P.G. Autonomous College, Durg – 491001, Chhattisgarh reserves the right to reject any or all the bids without assigning any reason whatsoever.
6. In the event of date being declared as holiday, the date for submission and opening of bids shall be the following working day of the appointed date and time.
7. Terms and Conditions: As detailed in bidding documents.
8. List of laboratory instruments/equipments to be supplied;
  - (1) PI Set-Up (Spectrometer With Built In Emission Monochromator/Spectrograph And Software)
  - (2) Visible Spectrophotometer
  - (3) Real Time PCR
  - (4) Elisa Reader
  - (5) Top Pan Balance
  - (6) Ore Microscope With Photographic Attachment
  - (7) Digital pH Meter
  - (8) Photoelectric Colorimeter
  - (9) Binocular Polarizing Microscope
  - (10) Rfid Tag
  - (11) Hf Gate Antenna System
  - (12) HF Handheld Reader
  - (13) Interactive Device Unit (With Software)
  - (14) Short Throw Projector
  - (15) Desktop PC
  - (16) Medium back Fix Chair
  - (17) PA system

**Principal**  
Govt. V.Y.T.P.G. Autonomous College,  
Durg

**Enclosed**

1. BID Document – Instruction to bidder containing terms and condition.
2. Application Form – Annexure -I
3. BID form for technical bid – Annexure -II
4. Price Scheduled form – Annexure-III
5. Mandate form – For Electronic Fund transfer/RTGS transfer- Annexure –IV
6. Schedule of earnest money- Annexure-V
7. List of document are released of payment through L/C- Annexure-VI A & VIIA
8. Declaration sheet – Annexure-VII
9. Acceptance of terms & conditions of tender Annexure-VIII
10. Integritypact - our endeavour Annexure-IX
11. BID PARTICULARS Annexure-X



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### TENDER NOTICE

No. 717/GVYTPGAC/RUSA 1.0 DT. 28.06.2019

### TENDER NOTICE FOR THE SUPPLY OF LABORATORY INSTRUMENTS AND EQUIPMENTS

- 1 Govt. V.Y.T.PG College Durg invites sealed tender in two BID form (Technical and financial) separately and abroad for supply of Laboratory instruments/equipments as per technical specification specified in bidding documents.
- 2 The details of tender notice, eligibility of bidder, instructions to bidders, scope of work, bidding procedure and term & conditions are available in the bidding document. Bidding document may be downloaded from website- [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in). the schedules of bidding are here under.

1	Sale/Issue of BOQ/bidding document	From 01.07.2019 to 01.08.2019 Working days – 11.30 AM to 3.30 PM On 01.08.2019 upto 11.30 AM
2	Receipt of bids	Up to 01.08.2019 at 3.00 PM
3	Opening of Technical Bids	02.08.2019 at 3.00 PM onwards (Refer bid document)
4	Opening of financial Bids	Shall be informed to technically qualified bidders
5	Cost of BOQ/bidding document	Rs. 700=00 (demand draft in favor of Govt. V.Y.T.PG Autonomous College Durg)

- 3 All the bids must be accompanied by bid security in accordance with the bidding documents.

**Principal**  
**Govt.V.Y.T.PG Autonomous College**  
**Durg**

## CALENDER EVENT

<b>Date of Issue of Documents</b>	01.07.2019
<b>Date of sale of tenders</b>	From 01.07.2019 to 01.08.2019  Working days – 11.30 AM to 3.30 PM  On 01.08.2019 upto 11.30 AM
<b>Last Date of Submission</b>	01.8.2019 up to 3.00 PM
<b>Place of Submission of EOI Documents</b>	Office of the Principal Govt. V.Y.T.P.G. Autonomous College, Durg 491001(C.G.) G.E. Road Durg
<b>Date of opening of Technical Bid</b>	02.08.2019 – Item No.1,16 03.08.2019 – Item No.2, 5, 7, 8 05.08.2019 – Item No.3,4,17 06.08.2019 – Item No.6,9 07.08.2019 – Item No. 13,14,15 08.08.2019 – Item No. 10,11,12
<b>Date of opening of Financial Bid</b>	To be inform to technically successful bidder by email or phone
<b>Place of opening of EOI Documents</b>	Office of the Principal Govt. V.Y.T.P.G. Autonomous College, Durg 491001(C.G.) G.E. Road Durg
<b>Address</b>	Office of the Principal Govt. V.Y.T.P.G. Autonomous College, Durg 491001(C.G.) G.E. Road Durg
<b>Telephone No.</b>	0788-2359688

## INDEX

Sl. No.	Description	Page
1	Tender Notice	2
2	Calendar Event	4
3	General Terms And Conditions	6
4	Submission Of Bid	8
5	Earnest Money/ Security Deposit	10
6	Clarification Of Techno-Commercial Bids	11
7	Payment Conditions	14
8	Royalty And Patents	15
9	Rejection Of Bids	16
10	Application Form (Annexure-I)	17
11	Bid Form For Technical Bid (Annexure-II)	18
12	Price Schedule Form (Annexure-III)	36
13	Mandate Form For Electronic Fund Transfer/RTGS Transfer (Annexure-IV)	37
14	Schedule Of Earnest Money (Annexure-V)	38
15	List Of Documents For Release Of Payment Through L/C (Annexure-VI A & VI B )	39
16	Declaration Sheet (Annexure-VII)	40
17	Acceptance Of Terms & Conditions Of Bidder (Annexure-VIII)	41
18	Integrity Pact – Our Endeavour (Annexure-IX)	42
19	Bid Particulars (Annexure-X)	43
20	Technical Specification	44

# BID DOCUMENT

## 1.0 GENERAL TERMS AND CONDITIONS

- [A] (i) The Tender Document along with detailed specifications of the instruments/ equipments can be obtained in person from the office of the Principal, Govt. V.Y.T.PG Autonomous College Durg, Chhattisgarh on submission of prescribed tender fee in the form of demand draft drawn in favour of Govt. V.Y.T.PG Autonomous College Durg, Chhattisgarh Payable at Durg, Chhattisgarh.
- (ii) The bid document may also be downloaded from College Website: [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in) Bidders using downloaded tender forms from College website must submit cost of tender document by demand draft drawn in favour of Govt. V.Y.T.PG Autonomous College, Durg Payable at Durg along with technical bid. The bid form downloaded through College website submitted without tender fees will not be accepted.
- (iii) The Bid must be submitted in English. In the case of foreign manufacturers, the bids should be submitted by the authorized agents / representatives, they must enclose authorization letter issued by their manufacturer. In case of the equipments / instruments of Indian origin the bids shall be accepted from manufacturer or its authorized representative/agent.
- [B] The tender document is not transferable by the purchaser. The bid form in the tender document at Annexure-II will be used for technical bid. Tender document downloaded from the College website [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in) can also be used. Bids made on photocopy etc. will not be considered. Each sheet must be signed by the bidder. The price bid must be in the form provided herewith at Annexure-III. It should be sealed in separate envelope.
- [C] The tender will not be accepted from the firm to whom the document has not been issued by the College or bid form downloaded from the College website [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in) without tender fee.
- [D] The College reserves the right to accept or reject any or all the tenders in part or full without assigning any reason there of.
- [E] The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document carefully. Failure to furnish all information required by the bid documents or submission of a bid not substantially responsive to the bid document in every respect will be at the bidder's risk and may result in the rejection of its bid.
- [F] The College at its discretion may extend the last date of submission of tender and opening of tenders. The final authority for acceptance of a tender will rest with the Principal, Govt. V.Y.T.PG Autonomous College, Durg, Chhattisgarh who does not bind himself to accept the lowest tender and may accept or reject any or all of the bids received without assigning any reason.
- [G] Documents, literature, diagrams / leaflets, original catalogue of equipment and samples etc., enclosed with the bids shall become the property of the Govt. V.Y.T.PG Autonomous College Durg, Chhattisgarh without any cost.
- [H] **WARRANTY: The comprehensive warranty period will be for thirty six months (manufacturer Warranty + 2 year extended warranty)** starting from the date of successful commissioning of the instrument. Under this warranty, upon the receipt of such notice, supplier / agent shall, within the period specified, repair /replace the defective instrument or spare parts thereof at the ultimate destination. The supplier/agent shall take over the replaced parts/goods, in the event of any correction of defects or replacement of defective material. In such cases, the warranty for the corrected/replaced materials shall be extended to the left over period of warranty. The comprehensive warranty includes maintenance of equipments including spare parts etc.

- [I] The tender would be regarded as turned down, if no award of contract has been obtained till the expiry of the tender validity. No separate communication will be made in this regard.
- [J] The items have to be supplied in standard packing at the Govt. V.Y.T.PG Autonomous College, Durg-491001 Chhattisgarh.
- [K] In case of the date of submission and the date of opening of tender is declared as Public Holiday, the tender shall be submitted and opened on the next working day at the same time.
- [L] The bid shall contain no interlineations, erasures or overwriting words except as necessary to correct errors made by the bidder, in such case, correction shall be initialed by the person or persons signing the bid.
- [M] Late and delayed tenders will not be considered and shall be returned unopened to the Bidder.
- [N] It is advised that the outside suppliers should send the tender through Registered Post. However, the local supplier may drop their tenders in tender Box kept in, Govt. V.Y.T.PG Autonomous College Durg, Chhattisgarh, for this purpose. In no case, tender should be handed over to any employee of the College.
- [O] Canvassing in any form will disqualify the bid.
- [P] Request for the tender document for bidding through Telex, Telegram, Telephone, Money Order and Tele-fax shall not be entertained.
- [Q] The tender Notice No. 717/PGAC/GVYTRUSA 1.0 Dt. **28.06.2019** along with the item code number (The item code number is given in the specification sheet against each item) must invariably be quoted in the bid and for further correspondence in this regard.
- [R] All the Tenders should be addressed to:

**Principal,  
Govt. V.Y.T.PG Autonomous College,  
Durg-491001, Chhattisgarh**

## 2.0 SUBMISSION OF BID

### SUBMISSION OF BIDS (Sealing and Marking of Bids)

Bid should be submitted in three Envelopes as mentioned below:-

**(i) Envelope – A (Duly Sealed):** Should contain

- (a) Application Form (Annexure-I)
- (b) Tender Fee in the form of Demand Draft for Rs. 700/-.
- (c) EMD in the form of Demand Draft for each Instrument (See Annexure-V)
- (d) Company/Firm registration details
- (e) Mandate form for electronic fund transfer/RTGS transfer (Annexure-IV)
- (f) Business turnover (must be >50 Lakhs) Per year, for last three successive years duly certified by the Chartered Accountants.
- (g) Income tax return (Last Three Years)
- (h) Declaration sheet (Annexure-VII)
- (i) GST Registration (Self Attested Photocopy)
- (j) PAN Card (Self Attested Photocopy)
- (k) TAN/TIN Number (Self Attested Photocopy)
- (l) Original Technical Catalogue of the quoted model and same should be available on the website.
- (m) Compliance Statement with relation to the technical specification as mentioned in the bidding document duly supported by the original catalogue.
- (n) Warranty & extended technical support certificate
- (o) Acceptance of terms & conditions of tender (Must be on Letter Head) (Annexure-XI)

This Envelope should be marked as

**“Envelope A – EMD/Bid Security”**

Item No. ....

Name and address of the bidder should be clearly written on this envelope.

**(ii) Envelope –B (Duly Sealed):** Should contain

- (a) Technical Bid (other than the Financial Bid) which will be submitted in the given format (Annexure –II) with a forwarding letter addressed to the Principal Govt. V.Y.T.PG Autonomous College Durg C.G. containing an undertaking that the Bid documents do not contain any amendment, and information given in the bid document are true & correct, failing which my participation in bid rejected without assigning any reason.

This Envelope should be marked as

**“Envelope B – Technical Bid**

**Item No.....**

**Name of Equipment .....”.**

Name and address of the bidder should be clearly written on this envelope. Signature of Bidder & Seal



(iii) **Envelope –C (Duly Sealed):** Should contain

(a) Financial Bid in standard format (Annexure –III) only giving the Individual price (including all the cost as mentioned in the bid document) in figures and in words also.

This Envelope should be marked as

**“Envelope C – Financial Bid”.**

Item No.....

Name of Equipment .....

Name and address of the bidder should be clearly written on this envelope.

**ALL THE ABOVE THREE ENVELOPES SHOULD BE PUT IN A LARGER ENVELOPE, SIGNED AND SEALED PROPERLY.**

**This envelope should be addressed to:**

**Principal, Govt. V.Y.T.PG Autonomous College Durg- 491001 C.G.**

This envelope must bear the following Identifications:

**i.) Bid for Purchase & Supply of Lab. Equipments for the F.Y.(2019-20) in College Premises.**

**ii) Bid Reference No. 717/GVYTPGAC/RUSA 1.0 DT. 28.06.2019**

**iii) DO NOT OPEN BEFORE: 02/08/2019 (3:00PM)**

**iv) Name & Address of the Bidder**

### 3.0 EARNEST MONEY/ SECURITY DEPOSIT

- [A] **The Earnest Money(3% of the estimated value)** as indicated in Bid document at **Annexure -V** must be submitted by the Bidder along with the Tender in the form of Demand Draft only drawn in favour of Principal, Govt. V.Y.T.PG Autonomous College Durg, Chhattisgarh payable at Durg, Chhattisgarh. It should be in Indian Rupees. The Indian agent / representative should furnish an authorization letter from their foreign Principal supplier authorizing to deposit the EMD on their behalf.
- [B] The Earnest Money shall be forfeited if a bidder withdraws or amends the tender in any respect within the period of validity of his tender or fails to submit security deposit or agreement within the specified period as mentioned in the tender document. Tender shall not be entertained where a bidder has not furnished adequate earnest money in the prescribed and acceptable form. In case, the instrument supplied is found defective and not attended by the supplier /authorized agent, the Security Money deposited by the supplier /their authorized Indian agent will also be forfeited.
- [C] Earnest money/ security deposit will not be taken from the following: Undertakings, Corporations, Autonomous bodies, Registered Societies Co-operative Societies which are controlled/ managed by Government, Govt. Undertakings and Companies of Union Government and Government of Chhattisgarh.
- [D] **Return of earnest money:** Unsuccessful bidder's earnest money will be discharged/ returned without any interest after the concerned purchase is finalized and that of successful bidders will be adjusted (without interest) in security deposit.
- [E] **The validity of tender would be for a minimum period of 365 days/31.03.2020 from the date of opening of tenders.** A Bid valid for a shorter period may be rejected by the Govt. V.Y.T.PG Autonomous College, Durg as non- responsive. In case the validity is to be extended; the Board may solicit the Bidder's consent to an extension on the period of validity and the bid shall remain valid for the extended, period mutually agreed for.
- [F] The prices should be quoted both in words and figures.
- [G] Arithmetical error will be rectified on the following basis:- If there is discrepancy between the unit price and total price that is obtained by the multiplying the Unit Price and quantity, the unit price shall prevail and the total price shall be corrected. If there is discrepancy between words and figures, the amount in words will prevail.
- [H] Tenders not in proper sealed cover or received through telegraphically or E-mail fax/telex will not be entertained.
- [I] Conditional Tenders will be rejected without assigning any reason.
- [J] The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized for this purpose. The letter of authorization should bear the signatures of only the authorized person of the firm. All pages of the Bid, except for un-amended printed literature shall be initialed by the person or persons signing the bid.

- 4.0 Clarification of Techno-commercial bids** To assist the techno -commercial examination , evaluation and comparison of bids the Govt. V.Y.T.PG Autonomous College, Durg may, at its discretion, ask the bidder for a clarification of its Techno- commercial bid. However, all responses to request for clarification shall be in writing, and, no change in the price bids be sought, offered or permitted.
- [A] Eventual suggestions for modification or subsidiary Tenders are principally not admissible.
- [B] **The specifications are clearly mentioned in the document and the Bidder is requested to submit Bid only if their offer strictly comply to these specifications. The bidding for the instruments having different specification will be on Bidder's risk as the Govt. V.Y.T.PG Autonomous College, Durg will not entertain such bids. Bids carrying the statement like "specification as per tender document" shall not be entertained. the product specifications supported by technical literature and list of users must be enclosed with Annexure II.**
- [C] The placement of work order/purchase order will be according to technical evaluation of the tender and after consideration of its price worthiness.
- [D] The price to be given in the tender are fixed prices, irrespective of rise in Materials prices etc., till the delivery of the overall consignment. No request regarding increase in the price of instruments etc., will be entertained after the submission of the tender.
- [E] The nomenclature of the instruments and spares will be invariably same in Pro-forma Invoice, Invoice, Packing list and all other relevant papers in case the Bidder is awarded with the purchase order for supply against its offer.
- [F] With the submission of his tender the bidder accepts the conditions of the tender.
- [G] If the instrument supplied is not in conformity with the specification other than asked for, it will have to be replaced at the risk and cost of the supplier. No freight and other charges for export and re-shipment will be paid by the Govt. V.Y.T.PG Autonomous College, Durg.
- [H] **The authorized Indian agent/representative should have minimum two years continuous agency/ partnership/ joint venture/ participation or collaboration with their principal foreign supplier.** The documentary proof of such agency ship/ authorization/ MOU should be submitted along with the technical part. If the bid of the firm does not contain the proof of such nomination/authorization, Indian agent will be rejected.
- [I] **The installation of the instruments is the entire responsibility of the supplier. It must be done either by the principal supplier or their authorized agents within 180 days from the date of opening of LC in case of foreign suppliers. For Indian supplier the installation should be completed within 60 days from the date of issue of purchase order.** The supplier or their authorized agent should be in touch with the Govt. V.Y.T.PG Autonomous College, Durg to know the exact day of receipt of stores supplied/ dispatched by them.
- [J] The list of instruments/equipments, their approximate quantity and point of delivery is given at Annexure-V and the detailed specification of the instrument are given in the tender document. The quantity mentioned in the tender document may be increased or decreased at the discretion of the Competent Authority in the Govt. V.Y.T.PG Autonomous College, Durg without assigning any reason.
- [K] Each and every folio of the tender must be signed by the bidder.

- [L] The Bid shall be considered only for those instruments for which the rates have been specifically quoted. The Govt. V.Y.T.PG Autonomous College, Durg further reserves the right to accept the tender for all the instruments or some of the instruments for which the tenderer has quoted the bid. The bidder should attach a separate list for the consumable/spares required for smooth operation of the instrument at least for three years (as optional items) and two copies of trouble shooting manuals, electric circuits etc. along with the bid. Combined EMD and consolidated bids will be rejected. **EMD and tender should be submitted separately for each equipment.**
- [M] Bidder has to provide training on operation and maintenance to Govt. V.Y.T.PG Autonomous College, Durg Officials of laboratory without any additional charges. However, training for sophisticated instrument will be provided by the bidder as specified in respective technical specifications of the instrument.
- [N] The instrument for which tenders are invited will have to be supplied within 30 days from the date of opening of LC if the goods are imported.(in the case of foreign suppliers the date of arrival of consignment at Indian port will be considered as the date of delivery). A period of 60 days will be allowed for delivery of equipment from the date issue of purchase order in the case of Indian manufacturers/suppliers.
- [O] After sales service is most important to be considered for comparison of the bids. Bid of those firms who do not have Indian / Local Agents to provide after sales and service during warranty period will not be considered. After sales service must be provided at the premises of the College Laboratory, by the manufacturer or authorized service provider. The instrument will not be sent to the service provider for the repair.
- [P] In case of imported instruments, the bid from Principals or their authorized agents will only be considered. The instrument price should be quoted on FOR Govt. V.Y.T.PG Autonomous College, Durg basis, the delivery shall be taken at Govt. V.Y.T.PG Autonomous College, Durg.
- [Q] The foreign bidders must indicate the following information in their Pro-forma invoice along with the Price Bid separately for each instrument/equipment.
- a) Country of Origin.
  - b) Port of Shipment.
  - c) Name & Address of beneficiaries Bank, Branch name with Account No.
  - d) Whether trans-shipment/partial shipment is required or not.
  - e) The Indian Agent's complete address, telephone & fax number.
- [R] (a) The items have to be supplied in standard packing. The foreign supplier should use the minimum possible packets and should reduce the size of the packing in volume to avoid extra demurrage in the bonded warehouse in India, if any.
- (b) Important Bank charges:** - All Bank charges within the country (in India) will be buyers account and all Bank charges outside the country should be borne by the supplier / beneficiary. The bidders may note this and quote the price of the instrument/ equipment accordingly. In the case of Foreign Suppliers, they will have to ensure shipment of the consignment as per the validity of the letter of credit established in this regard. In case of extension of supply date is sought, the bank charges towards the amendment of L.C. should be borne by the Beneficiary/Supplier.
- [S] Foreign Principals/their authorized Indian Agent shall intimate the buyer regarding the date of shipment well in advance. A copy of the invoice documents, air way bill, packing list, certificate of country of origin may be forwarded to the purchaser by fax immediately after shipment of the consignment to clear from custom authorities so as to avoid demurrage charges. The consignment is to be get cleared by supplier from custom and he will deliver the item at Govt. V.Y.T.PG Autonomous College, Durg

- [T] At any time prior to the deadline for submission of bids ,the buyer may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by an amendment.
- [U] The Amendment made by the competent authority in the tender document if any will be binding on the bidders.
- [V] In order to offer prospective bidder reasonable time in which to take the Amendment into account in preparing their bids, the purchaser may at its discretion, extend the deadline for the submission of bids.
- [W] According to the bidder, if the tender documents contain unclear points which could influence price calculations, the bidder has to inform the authority who is issuing the call of Tenders before submission of its Tender, either in writing or by fax, even if he has pointed out this earlier in any other form/reference.
- [X] The Packing, Forwarding, charges must be quoted according to the place of delivery at Govt. V.Y.T.PG Autonomous College, Durg. The supplier will be held liable for any damage, theft or loss during transit. The instruments are to be dispatched to the respective places directly and to be installed there, by the supplier under intimation to, Principal, Govt. V.Y.T.PG Autonomous College, Durg Office at Govt. V.Y.T.PG Autonomous College, Durg. **Please note that Performa Invoice must be separate for each instrument / equipment.**
- [Y] For the comparison of the rates quoted in different currencies by the bidders, the comparison will be done on the basis of conversion of currency in **Indian Rupees on the date of opening of technical bid of the tender.**

## 5.0 PAYMENT CONDITIONS

- [A] (i) **For Foreign Bidders:** - The foreign bidders should quote the price in foreign currency. In case, they have components and services of Indian agent, the same may be quoted in Indian Rupees. 100% payment will be released through irrevocable Letter of Credit in the name of foreign bidders for stores of foreign origin. **80% payment** will be made on shipment of the instrument/Equipments and on furnishing **Bank Guarantee/Bank Draft for 10 % of the purchase order as performance security**, .For release of payment the supplier shall submit documents as specified in **Annexure VI A 20% will be released** on satisfactory installation, training and commissioning of instrument / equipment. (ii)**For Indian bidders** 100% payment will be released on satisfactory supply installation, training and commissioning of the instrument and on furnishing **Bank Guarantee/Bank Draft for 10 % of the purchase order value as performance Security**. The supplier shall provide the documents with each instrument as mentioned at **Annexure- VI B**.
- [B] The defective, substandard and contrary to the specification of instruments, if supplied have to be replaced by the supplier at their cost and responsibility. In case of indigenous instrument/ equipment quoted by Indian firms/ representatives/ Indian agents of foreign supplier / manufacturers in rupee terms the payment will be made in Indian rupees directly after supply and satisfactory installation / commissioning.
- [C] Single bills against one order as per supply order mentioning item code and other details will be accepted.
- [D] The reference of supply order should be submitted for payment.

**6.0 LAWS AND REGULATIONS** The formation, validity and performance of this Contract shall be governed as to all matters by and under the laws and regulations of India and courts of Durg shall have exclusive jurisdiction in all matters arising under this Contract. The Supplier shall respect and abide by all laws and regulations of India and shall make its best effort to ensure that the personnel of the Supplier and their dependents, while staying in India, shall respect and abide by all laws and regulation of India. The Supplier shall protect, absolve and indemnify the Board, and their representatives from any claim, loss or damage arising from any non compliance alleged or proved, without claiming them for payment.

**7.0 FORCE MAJEURE** Vendor shall not be considered in default if delay in delivery occurs due to causes beyond his control such as acts of God, natural calamities, civil, wars, strikes, fire frost, floods, riots and acts of usurped power. Only those causes which have a duration of more than seven calendar days shall be considered cause of force majeure. A notification to this effect duly certified by the Local Chamber of Commerce/Statutory Authorities shall be given by the Vendor to the buyer by registered letter. In the event of delay due to such cases a length of time equal to the period of force majeure or at the option of the buyer may be extended, the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of buyer. In the event of such cancellation the vendor shall refund any amount advanced by the Purchaser and deliver back any material issued to him by the Purchaser and release facilities, if any, provided by the Purchaser.

## 8.0 INJURY AND DAMAGE

- [A] **Injury or Death of Persons** The Supplier shall be liable for and shall indemnify the Govt. V.Y.T.PG Autonomous College, Durg against any liability, loss, claim or proceedings, whatsoever arising under any statue or law in respect of personal injury or death or any disability caused by the carrying out the Works.

- [B] Damage to Property** The Supplier shall be liable for and shall indemnify the College against and insure and cause any Manufacturers and subcontractors to insure against any expense, liability, loss claim or proceedings in respect of any damage whatsoever to any real or personal property for any one occurrence in so far as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission or default of the Supplier or any person for whom the supplier is responsible or any Manufacturers and subcontractors or person whom the Manufacturers and subcontractors are responsible. For the any damage between places of supply to college, supplier will be fully responsible for that.

## **9.0 ROYALTY AND PATENTS**

- [A]** The Supplier shall pay all royalties and licenses fees for the use of any patented item, whether it may be an invention, method, arrangement, article, process or appliance used in connection with the performance of the Contract. The supplier shall indemnify and save harmless the College against any and all costs, damages and expenses of any nature or kind whatsoever which may arise out of or result from a claim by any person, firm or corporation that the manufacture, purchase, use of sale of any of the inventions, methods, arrangements, articles processes or appliances used in connection with the performance of this Contract infringes any patent of such other rights. The Supplier shall, at the request of the College, defend the College against any suit brought to enforce any such claim at the Suppliers expense.

- [B]** In case any such patented item used on or in conjunction with the Works is in suit held to constitute and infringement of its use enjoined, the supplier shall either secure for the College the right to continue using the said item by suspension of the enjoinder, by procuring for the College a license or otherwise, or will replace such items with a non-infringing item or modify it so that it becomes non- infringing or with the College approval remove the said enjoined item and refund to the Board the sums paid thereof.

- 10.0 EFFECTIVENESS** This Contract shall come into force and effect on the date of the Letter of Award and shall be in force until the expiry of the warranty period and all the payments have been made to the Supplier.

- 11.0 Forfeiture of earnest money:-** The earnest money will be forfeited in the following cases:
- (i) When bidder withdraws or modifies the offer after opening of tender but before acceptance of tender.
  - (ii) When bidder does not execute the agreement if any, prescribed within the specified time.
  - (iii) When the bidder does not deposit the security money .

- 12.0 Insurance:-** The goods will be delivered at the destination in perfect condition. The supplier, if he so desires, may insure the valuable goods against loss by theft, destruction or damage, by fire, flood, under exposure to whether or otherwise viz., (war rebellion, riot, etc.,). The insurance charges will be borne by the supplier and College will not reimburse such charges

## **13.0 Inspection:-**

- (a) The Member of Technical Committee shall have right for inspection of the instrument/equipments at premises of the bidder. In case of foreign supply, the bidder is required to submit the certificate of testing, materials and workmanship of the instrument /equipments machineries during manufacturing process or afterwards as may be decided.
- (b) The bidder shall furnish complete address of the premises of his office, godown and workshop with contact number of responsible person where inspection can be made together with name and address of the person who is to be contacted for the purpose. In case of those dealers who have newly entered in business a letter of introduction from their bankers will be necessary.

**14.0 Rejection of Bids:**

- A. If bidders give wrong information in their bid, University reserves the right to reject such bids at any stage and forfeit the Earnest Money Deposit / Performance Bank Guarantee and cancel the order, if awarded.**
- B. Incomplete bids are liable to be rejected.**
- C. If the technical offer contains any price information the offer will be summarily rejected.**
- D. Canvassing in any form in connection with the tender is strictly prohibited and the bids submitted by the bidder who resort to canvassing are liable for rejection.**
- E. Unsigned tenders/bids, unattested corrections and over writing by bidders are also liable for rejection.**
- F. The schedule for accepting the tenders shall be strictly followed- late tenders shall not be accepted.**
- G. Bids submitted without supporting documents as mentioned or required to submit with bids are liable to be rejected.**
- H. The bidder must confirm in their bid acceptance in full of the terms and conditions in this enquiry. Any non-acceptance or deviations from the terms and conditions must be clearly brought out. However, bidder must note carefully that any conditional offer or any deviation from the terms and conditions of this enquiry may render /liable the quotation for rejection.  
Each page of the tender document including all annexure duly stamped and signed by the bidder must be submitted along with the tender bid and tender should be page numbered.**

**15.0** The bidder shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good condition such loss and shortage found at the checking/inspection of the materials by the consignee. "No extra cost" on such account shall be admissible.

**16.0** The Principal can repudiate the contract for the supply, at any time, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording of the reasons for repudiation.

**PRINCIPAL**





**OFFICE OF THE PRINCIPAL**  
**GOVT. V.Y.T.P.G. AUTONOMOUS COLLEGE, DURG 91001(C.G.)**  
(Former Name – Govt. Arts & Science College, Durg)  
NAAC Grade-A+, CPE Phase-III, DBT-Star College  
Ph.: 0788-2359688, Fax: 0788-2359688  
Website: [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in)



**Annexure-I**

**APPLICATION FORM (To be filled by the bidder)**

1	Name and full address of the: Bidder including Telegraphic Address/Telex No. and Fax No.	
2	Name and designation of the Head of the Firm/supplier and his Telephone No.	
3	i. In case the supplier is located out of Chhattisgarh; specify the authorized Distributor's or Agent's Address in Durg, if any.	
	ii. Name, Designation, Address Telephone & Fax Numbers of the Authorized Person who may be Contacted during the process of the Purchase concerned under this document (Applicable for all the suppliers)	
4	Instrument item Code Number(s) quoted for :	
5	Whether Earnest Money Deposited: Yes / No If yes (Amount: in Rs.) , /Demand Draft No, Date, and Name of Issuing Bank	
6	Tender document fees Rs 700/- details DD / Cash receipt No, Date and Name of Issuing Bank	
7	Income Tax Clearance Certificate: Attached (Latest) with PAN Number Yes or No . All the terms and conditions of the tender documents have been read carefully and are accepted	

**Place:**

**Date :**

**Legally Binding Signature with stamp**

**BID FORM FOR TECHNICAL BID [ITEM NO. -1]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise is should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 1

Name of Equipment

**PL Set-up (Spectrometer with built in Emission monochromator/spectrograph and software)**

Compliance Checklist/Table

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	<b>Spectrometer with built-in Emission Monochromator/Spectrograph and software</b>					
	Ocean Optics USB2000+XR1-ES-FL	Fluorescence Spectrometer 200-1025 nm, 200u Slit, L4 light collection Lens				
2	<b>Light Source with Excitation Filter</b>					
	PX-2	Pulsed Xenon Lamp, 220 Hz, 220-750 nm, ~5500 hrs at 50 Hz				
3	USB-ADP-PX2	Adapter pkg. to connect spectrometer to PX-2				
4	LVF-UV-H	Single High-pass UV Linear Variable Filter, 230-500 nm				
5	LVF-CUV-ADP	Adapter to hold LVF in filter slot of a cuvette holder				
6	<b>Optical Fibers</b>					
	P600-1-SR	Solarization Resistant Optical Fiber Pach Cord, 1 m				
7	<b>Sample Compartment</b>					
	CUV-UV-FL	Cuvette Holder, 1-cm path, for fluorescence, 200-2000 nm ss				
8	<b>Option for Backscattering Probe for Powders &amp; Solids</b>					
	R400-7-SR	Reflection or Backscattering probe 200-1100 nm				
9	RPH-1	Probe Holder				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -2]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 2

Name of Equipment **VISIBLE SPECTROPHOTOMETER**

Compliance Checklist/Table

	Technical Specification	Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
		Yes	No		
1	<b>WAVELENGTH</b>	Range - 340 to 999 nm			
		Accuracy - $\pm 2.0$ nm			
		Readout - 1 nm step			
		Bandwidth - 5.0 nm			
2	<b>PHOTOMETRIC</b>	Range - -0.04 to 2.5 Abs			
		Accuracy - $\pm 0.005$ Abs at 1.0 Abs			
		Repeatability - $\pm 0.005$ Abs			
		Resolution - 0.1 in % T mode 0.001 Abs in Abs mode			
		Digital Readout - 2 line 20 characters LCD			
		Drift - $\pm 0.003$ Abs/hour at 500 nm			
		Baseline Flatness - $\pm 0.005$ Abs			
		Stray Light - Less than 0.3%T at 370 nm			
3	<b>GRATING</b>	600 lines/mm			
4	<b>SOURCE</b>	Tungsten -Halogen lamp			
5	<b>DETECTOR</b>	Silicon Photodiode			
6	<b>SAMPLE HOLDER</b>	Two-position manual sample changer or factory installed single position holder for 20 mm/50 mm (Max) path length cell.			
7	<b>MINIMUM VOLUME</b>	1 MI In 4 MI Cuvette			
8	<b>0,100%T, ORDER CUTOFF SETTING</b>	Automatic			
9	<b>OPERTAING MODES</b>	i) Single Wavelength ii) Multi Wavelength (max 6) iii) Scan			
10	<b>MEASURING MODES</b> K-Factor Range Concentration Range	i) Absorbance ii) % Transmittance iii) Concentration (with factor and curve fitting) 0.100 to 9999 with floating Decimal point 0.100 to 9999 with floating Decimal point			
11	<b>DATA PROCESSING</b>	1) Peak Pick (6 peaks in Abs value) 2) Spectrum printout (on Epson compatible Dot Matrix printer)			
12	<b>DATA PRESENTATION Display Hard Copy</b>	2 line 20 char. Alphanumeric LCD On printer (Graph and Data both)			
13	<b>PRINTER PORT</b>	Epson compatible 80 Column Dot Matrix			
14	<b>RS 232 PORT</b>	PC Link data transfer			
15	<b>POWER</b>	230V $\pm 10\%$ , 50 Hz			
16	<b>DIMENSIONS</b>	420 (W) x 310 (D) x 125 (H) mm			
17	<b>WEIGHT</b>	6.5 kg (Approx)			
18	<b>ACCESSORIES</b>	2 matched 10 mm path length Glass cuvettes			
19	<b>ACCESSORIES</b>	<ul style="list-style-type: none"> <li>• 4- Position automatic length Glass cuvettes</li> <li>• Holder for 50 mm cylindrical and rectangular Cuvettes</li> <li>• Epson compatible 80 column D.M. Printer</li> <li>• Standard RS 232 interface for Window based PC link Software for Spectrum Display, Storage/Retrieve, Peak-Pick, Point-Pick, 1<sup>st</sup> to 4<sup>th</sup> Derivatives, Zoom, Averaging/Subtraction of Two Scans</li> </ul>			

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -3]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise is should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 3

Name of Equipment

REAL TIME PCR

Compliance Checklist/Table

S. No.	Technical Specification	Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
		Yes	No		
1	Max. ramp rate °C/Sec.	2.5			
2	Average ramp rate, °C/se	2			
3	Heating and Cooling Method	Pettier			
4	Lid, °C	Heats up to 105			
5	Temperature				
	Range	0-100°C			
	Accuracy	±0.2°C of Programmed target at 90 °C			
	Uniformity	±0.4 well- to well within 10 Su. Of arrival at 90 °C			
6	Gradient	Operational range – 30 - 100 °C Programmable upon – 1 to 24°C			
7	Optical Detection	Excitation – 6 Filtered LEDs			
		Detection – 6 Filtered Photodiodes			
		Range of excitation			
		Emission, Wavelengths- 450-730 nm			
		Sensitivity – Detection of One copy of target sequence in human genomic DNA			
	Dynamic range – 10 Orders of Magnitude				
8	Scan Time	All channels su-12 su			
		FAM/SYBR, Green only – 3 Su			
9	Software				
10	Operating System	Windows XP			
		Windows 7			
		Windows-10			
11	Multiplex analysis	Up to 5 targets per well			
12	Sample Capacity well	96			
13	Sample Size	10-125 ml			
14	Communication interface	USB 2.0			
15	Dimensions	33x46x36/13x18x14 cm/in			
16	Weigth	21/47 kg/16 at prox.			

Note : - All software, Electricals & other requirements should be properly licensed & Approved by competent authority in any case proxy will not be considered.

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -4]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 4

Name of Equipment

**ELISA READER**

Compliance Checklist/Table

	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	<b>Human Machine Interface</b>	Touch Panel/Keypad				
2	<b>Linear Measurement Range 0.000 to 3.500 Absorbance Unit</b>	0.000 to 3.500 whichever is higher ,from 0 to 1.5 A +- 3% from 1.5 to 3.5A				
3	<b>Drift</b>	<0.005 A/hr				
4	<b>Photometric Linearity</b>	2.5 A				
5	<b>Optical Measurement</b>	8 channel				
6	<b>Type of Filter</b>	Narrow band interface				
7	<b>Wave length</b>	405nm, 450nm, 492nm, 630nm & four Optional				
8	<b>Half Band width</b>	10nm +- 2nm				
9	<b>Selection</b>	Automatic by stepper Motor				
10	<b>Light source</b>	Tungsten halogen lamp,20W				
11	<b>Display</b>	6 Graphics LCD, Negative Blue ,STN				
12	<b>Curve Plotting</b>	2.5 Graphical Representation on printer				
13	<b>plate carrier movement</b>	Precisely through the stepper motor				
14	<b>Printer</b>	Built in thermal printer 52 columns				
15	<b>Memory</b>	Battery backup for 250 test & More than 2500results				
16	<b>Analysis Mode</b>	Absorbance(normal & diff.)				
17	<b>Power</b>					
	<b>Wattage</b>	75 Watts				
	<b>Voltage</b>	115-230volts+-10%, 50/60Hz				
	<b>Operating position</b>	On horizontal flat, rigid & vibration free surface				
18	<b>Operating condition</b>					
	<b>Temp.</b>	from +18 C to 35 C				
	<b>Relative humidity</b>	up to 80%				
19	<b>Storage condition</b>					
	<b>Temp.</b>	from-10 C to 40 C				
	<b>Relative humidity</b>	Up to 80%				
	<b>Enclosure</b>	ABS Fire Retardant				
	<b>Size (cm)</b>	36 x 36 x 22(LxBxH)				
	<b>Weight</b>	10kgs				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -5]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 5

Name of Equipment

**Top Pan Balance**

Compliance Checklist/Table

	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
<b>1</b>	Capacity	220 gms				
<b>2</b>	Readability	0.1 mg				
<b>3</b>	Repeatability (Standard Deviation)	≤ 0.1 mg				
<b>4</b>	Linearity	+/-0.2mg				
<b>5</b>	Response Time	3 secs.				
<b>6</b>	Operating ambient Temp.	5-40 <sup>0</sup> C 20-85%				
<b>7</b>	Temperature Coefficient Sensitivity (ppm/C)	±2ppm/ <sup>0</sup> C (no condensation)				
<b>8</b>	Pan Size (mm) approx	φ 91				
<b>9</b>	Main body dimensions (mm) approx.	213(W)x356(D)x338(H)				
<b>10</b>	Weight (kg) approx	6.2 kg				
<b>11</b>	Power requirement	12v, 1A				
<b>12</b>	Calibration	Internal				

Signature of the Bidder

## BID FORM FOR TECHNICAL BID [ITEM NO. -6]

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - **06**

Name of Equipment **ORE MICROSCOPE WITH PHOTOGRAPHIC ATTACHMENT**

Compliance Checklist/Table

	Technical Specification	Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no. of datasheet catalogue/brochure in support of specification
		Yes	No		
1	Trinocular microscope for visualizing opaque objects in polarized light as well as thin sections used for petrographic, crystallographic, geological and mineralogical studies, low positioned controls.				
2	Coaxial coarse and fine focusing adjustment effected from both sides, with graduated drum, each division equals 2/1000 mm., with ball bearing type self centred quadruple revolving nosepiece circular centering rotatable stage with degree calibration, with two lens aplanatic Abbe condenser with rotatable polarizer mount having 15 degree calibration.				
3	Analyser provided in a slide which can be swung in and out of the microscope tube. The polaroids of high grade imported make.				
4	Incident ray illuminator provided with iris diaphragm and built in incident ray polarizer, low voltage halogen lamp (6V/20W). The filament of the halogen lamp can be centred with the help of adjustment provided in the halogen lamp housing. The incident light illuminator with a slot for filter, for which two filters must be supplied.				
5	Heat resistance filter filled in the incident light illuminator between halogen lamp and polarizing filter.				
6	Beam splitter for incident light illumination, with switch over knob for transmitted light illumination. A slot size 12 mm x 4 mm provided in the tube at 45 degree to the polarizer axis for compensators.				
7	Built in halogen lamp (6V-20W) illuminator in the base, with collector lens and a low voltage variable transformer. Input 220 VAC, 50 Hz, with adjustable output voltage and on and off switch.				
8	Three objectives (strain free) 5x, 10x and 40 x and 2 paired eyepieces. One pair widefield eyepieces WF 15x. Trinocular head with adjustable intraocular distance.				
9	Digital camera for micro imaging system PMB. High resolution, Nikon make digital camera with 3" LCD effectively 16 mega pixel with digital and optical zoom to give images of impressively high quality, which is coupled to a microscope by using a suitable microscope adapter to take microphotographs. These photographs can be transferred to a computer to display the captured images and videos on the monitor or to take prints with a high resolution colour inkjet printer or the image can be stored on the hard disc of the computer.				
10	High resolution Nikon digital camera 16 mega pixel with standard accessories, LCD : 3" TFT LCD Monitor Lens : 4.2 x Optical Zoom lens Digital Zoom : 2x Digital Zoom Standard Accessories : Lens cap, strap, Battery, Battery charger, USB cable, Audio/Video cable, manual book. Microscope adapter Censico make. AC adapter to used in place of battery. Memory card 4 GB, Image capture card.				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -7]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 7

Name of Equipment      **DIGITAL pH METER**

**Compliance Checklist/Table**

	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	<b>pH Range</b>	0 to 14.00 pH				
2	<b>Millivolt Range</b>	0 to $\pm 1999$ mV				
3	<b>Slope Correction</b>	85% to 115%				
4	<b>Resolution</b>	0.01 pH, 1 mV in mV mode				
5	<b>Repeatability</b>	$\pm 0.01$ pH $\pm$ digit for pH $\pm 1$ mV $\pm$ digit for mV				
6	<b>Standardization Range</b>	$\pm 1$ pH (Approx)				
7	<b>Temp. Compensation</b>	0 to 100 <sup>0</sup> C Dig. Display (Manual)				
8	<b>Display</b>	3 1/2 – Digit Red Led Seven Segment with automatic polarity & decimal point				
9	<b>Power</b>	230V $\pm 10\%$ 50 Hz				
10	<b>Dimension</b>	235 (W) X 185 (D) X 85 (H) mm				
11	<b>Weight</b>	1.25 Kg (Approx)				
12	<b>Accessories</b>	Combined Electrode Stand & Clamp				
13	<b>Optional Accessories</b>	Pt. Electrode & Calomel Electrode for Potentiometric Titration Temp. Sensor pt 100				

Signature of the Bidder



**BID FORM FOR TECHNICAL BID [ITEM NO. -8]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 8

Name of Equipment      **PHOTOELECTRIC COLORIMETER**

Compliance Checklist/Table

	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no. of datasheet catalogue/brochure in support of specification
			Yes	No		
<b>1</b>	<b>Wavelength Range</b>	400 nm to 700 nm with 8 optical filters				
<b>2</b>	<b>Filter's peak wavelength (typical)</b>	420 nm, 440 nm, 490 nm, 520nm, 540 nm, 570nm, 600nm, 700nm.				
<b>3</b>	<b>Measuring Modes</b>	% T & Abs				
<b>4</b>	<b>Photometric Resolution</b>	1% T & 0.01 in Abs upto 1.99 Abs (O.D.)				
<b>5</b>	<b>Display</b>	3-Digit LED				
<b>6</b>	<b>Sample Value</b>	1 ml in 4 ml Test tube				
<b>7</b>	<b>Source</b>	White LED				
<b>8</b>	<b>Detector</b>	Hermetically Sealed Photodiode				
<b>9</b>	<b>Power</b>	230 V $\pm$ 10%, 50 Hz				
<b>10</b>	<b>Dimension</b>	160 (W) X 200 (D) X 100 (H) mm				
<b>11</b>	<b>Weight</b>	1.5 Kg (Approx)				
<b>12</b>	<b>Accessories</b>	Four test tubes				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -9]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 9

Name of Equipment      **Binocular polarizing Microscope**

**Compliance Checklist/Table**

	Technical Specification	Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
		Yes	No		
1	Binocular polarizing microscope for visualizing objects (thin sections) in transmitted polarized light.				
2	Used for petrographic, crystallographic, geological and mineralogical studies. Low positioned controls.				
3	Coaxial coarse and fine focusing adjustment effected from both sides, with graduated drum, each division equals 2/1000 mm, with ball bearing type self centred quadruple revolving nosepiece.				
4	Circular centering rotatable stage with degree calibration, with two lens aplanatic Abbe condenser with rotatable polarizer mount having 15 degree calibration. Analyser provided in a slide which can be swung in and out of the microscope tube.				
5	High grade Polaroids of imported make				
6	Bertrand lens which can be swung in and out, a slot size 12mm x 4 mm provided in the tube at 45 degree to the polarizer axis for compensators.				
7	Built-in halogen lamp (6V-20 W) illuminator in the base with collector lens and a low voltage variable transformer. Input 220 V AC, 50 Hz, with adjustable output voltage and on and off switch.				
8	3 objectives (strain free) 5 x, 10x and 40 x and 2 paired eyepieces. One pair widefield eyepieces WF 10 X (1 cross hair scale eyepiece) & one pair widefield eyepieces WF15x Binocular head with adjustable interocular distance.				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -10]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 10

Name of Equipment **RFID Tag**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Application	Book, File, Magazine, journal, Document				
2	Chip	Philips I CODE SLI				
3	Frequency	13.56 MHz				
4	Protocol	ISO 15693				
5	Size	80 x 50 mm				
6	Read distance	Up to 1 mt (Approx.) with recommended Library Security Gate				
7	Warranty	10 years on logic circuit and replacement if found during tagging				
8	Memory	1024 bits R/W EEPROM				
9	Antenna	Aluminum				
10	Password	32 bit password protected				
11	Data Retention	10 years				
12	Programming cycle	100000				
13	Operating Temp	-25 degree cel.TO +70 degree cel.				
14	Storage Temp.	-20 degree cel.TO +80 degree cel.				
15	Adhesive	Yes				
16	Packing	Roll Form				
17	Weight	<1 gram				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -11]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 11

Name of Equipment **HF Gate Antenna System**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Operating Frequency	13.56 MHz				
2	Power Supply	AC 230V / 50Hz				
3	Power consumption	30W max				
4	Transmitting Power	0.5W to 6W variable				
5	Read Range	Up to 1 m with pair of gates				
6	Communication Interface	RS-232 / Ethernet				
7	Supported Transponders	ISO 15693				
8	Operating Temperature	-10°C to +60°C				
9	Communication Parameters	Baudrate: 115200 Kbps				
10	Dimensions	1530 X 550 X 30 mm				
11	Weight (1 Panel)	20kg				
12	Housing Material	ABS				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -12]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 12

Name of Equipment **HF Handheld Reader**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Operating Frequency	13.56 MHZ				
2	Power Supply	5 V / 3 A DC Adapter				
3	Antenna	Internal Antenna				
4	Main Battery	Lithium Ion 3.7V, 2800mAh (Rechargeable)				
5	CPU	400 MHz processor				
6	Transmitting Power	Upto 1 W max.				
7	Read Range	Up to 10cm				
8	Communication Interface	USB				
9	Supported Transponders	ISO 18000-3 Mode 1				
10	Indicators	Touchscreen Display, Buzzer				
11	Operating Temperature	0°C to 40°C				
12	Storage Memory	Expandable Upto 1 GB				
13	Weight	500 gms approx				
14	Dimensions	19 cm L x 9 cm W x 4.5 cm H				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -13]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 13

Name of Equipment **Interactive Device Unit (With Software)**

Compliance Checklist/Table

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Movement Detection Technology	3-D Optical				
2	Tracking Active Area (max projection size recommended)	Up to 100" for 16:9 aspect ratio (Wide angle) & up to 80" for 4:3 aspect ratio				
3	View angel (Vertical)	95 deg				
4	View angel (Horizontal)	110 deg				
5	View angel Diagonal)	170 deg				
6	T/R Range	0.6 / 0.4 / 0.2 / 0.16				
7	Tracking Speed	60-70 FPS (can be extrapolated upto 200 FPS)				
8	Ambient Light Resistance Technology	830nm +/- 20 & 650nm +/-20 dual band tracking technology (Visible and IR bands)				
9	Simultaneous Touch Point Support	255 (System configuration dependent)				
10	Calibration Technology	Automatic as well as Manual Calibration				
11	Connectivity Interface	Mini USB				
12	Max USB Transmission Distance	15 ft				
13	Power Requirement	5 V				
14	Power Consumption	< 1W				
15	Operating & Storage Environment	Temperature : -10 to +60 degree; Humidity: 0% to 95%				
16	Accuracy	+ / - 2 px				
17	Response Time	Upto 195Mn dots/sec				
18	Resolution	Sub-pixel upto 6768 x 4320 pxsq (native 752x480)				
19	Data Refresh Rate	Upto 195 million dots/sec, USB bandwidth around 200 MBPS				
20	Optimised Cursor Jittering	7 point bezier algorithms histogram				
21	White Board	88 inch				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -14]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 14

Name of Equipment **SHORT THROW PROJECTOR**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Type	Short Throw Projector Blue light shield, Color Boost 3 D, Display mode, wall-color Compensation/Black-board mode				
2	Brightness	3500 Lumens				
3	Resolution	1024 x 768 XGA				
4	Contrast Ratio	20000:1				
5	Aspect Ratio	DLP with 4:3 with support for 16:9				
6	Throw ratio	Short-throw 0.617:1				
7	Projection System	0.55" DarkChip TM 3 DMD				
8	Lamp life	10000 Hours (ExtremeEco)				
9	Inbuilt Speaker	16 w				
10	Connectors	Analog RGB/Component Video (D-sub) x 1 HDMI (Video, Audio, HDCP) x 1 PC Audio (Stereo mini jack) x 1 Composite Video (RCA) x 1 PC Audio (Stereo mini jack) x 1 DC Out (5V/1A, USB Type A) x 1 Analog RGB (D-sub) x 1				
11	Accessories	Wall mount arm kit				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -15]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.

Item no. - 15

Name of Equipment                    **DESKTOP PC**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
<b>1</b>	<b>General</b>					
	Colour	Black				
<b>2</b>	<b>System Features</b>					
	Cache Memory	4 MB				
	Processor Name	Core i3				
	Processor Brand	Intel				
	Processor Frequency	2.2 GHz with Turbo Boost up to 3.4 GHz				
	Operating System	Windows 10 professional with Backup CD/Pen Drive				
	Processor Model	8130U				
<b>3</b>	<b>Memory</b>					
	Memory Slots	1 x DDR4 Slot				
	System Memory	4 GB DDR4				
	Memory Detail	1 x 4 GB				
<b>4</b>	<b>Display</b>					
	Touchscreen Support	No				
	Display Size	21.5 inch				
	HD	Yes				
	Full HD	Yes				
	Display Resolution	1920 x 1080 Pixel				
	Display Type	Full HD LED Backlit Display				
<b>5</b>	<b>Graphics</b>					
	Integrated Graphic Processor	Intel UHD Graphics 620				



<b>6</b>	<b>Webcam</b>				
	Sensor resolution	1 Megapixel			
	Built-in Webcam	Yes			
<b>7</b>	<b>Storage</b>				
	Storage Interface	SATA			
	Reading speed	5400 RPM			
	Hard Drive	1 TB			
<b>8</b>	<b>Audio</b>				
	Built-in Microphone	Built-in Microphone			
	Other Audio features	Built-in Speakers, Sonic Master Premium			
<b>9</b>	<b>Power</b>				
	Power Consumption	65 W			
<b>10</b>	<b>Connectivity</b>				
	USB	1 x USB 2.0, 4 x USB 3.1 (1st Gen)			
	Bluetooth	v4.1			
	Headphone Jack	Yes			
	HDMI	Yes			
	Other Ports	1 x DC Power In, 1 x Ethernet Port (RJ45)			
<b>11</b>	<b>Network</b>				
	Wireless	IEEE 802.11ac			
	Ethernet	10/100/1000 Mbps			
<b>12</b>	<b>Input Devices</b>				
	Mouse	Wireless Mouse			
	Keyboard	Wireless Keyboard			
<b>13</b>	<b>Dimensions</b>				
	Height	387 mm			
	Width	489 mm			
	Depth	51 mm			
	Weight	4.8 kg			

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -16]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.
4. Before Bid please inspect the sample of chair in College office.

Item no. - 16

Name of Equipment **MEDIUM BACK FIX CHAIR**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	Arm	With out Arm				
2	Seat Details	Depth – 16”				
		Width – 15.5”				
3	Back details	Height – 12”				
		Width – 15.5”				
4	Lag Dimension	17” x 16” x 17”				
5	Total weight	Not less than 5400 gm (5.4 Kg)				
6	Fabric	Crap fabric				
7	Cushion Quality	Heavy Duty				
8	Pipe – Dimeter	01”				
9	Pipe Gauge	20 gauge				
10	Height of the seat from bottom	19”				
11	Height of back from bottom	34”				
12	Bottom bushes for pipe skid protection	Inner type plastic standard quality				

Signature of the Bidder

**BID FORM FOR TECHNICAL BID [ITEM NO. -17]**

Please do not write the Price

1. The technical compliance bid must be in this sheet only, otherwise it should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered
2. All the columns of this sheet should be filled in compulsorily by the bidder, nearly asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in the sheet. Any false statement should render the breach of basic foundation of the tender.
4. Before Bid please inspect the sample of chair in College office.

Item no. – 17

Name of Equipment

**PA SYSTEM**

**Compliance Checklist/Table**

S. No.	Technical Specification		Features Available in equipment		Any deviation from specification	Corresponding page no and s.no./para no.of datasheet catalogue/brochure in support of specification
			Yes	No		
1	<b>PA Amplifier with built in digital player</b>					
	Power output	50 Watt RMS at 10% THD/75W RMS max.				
	Input Channels	Mic. 3 x Mic 0.6mV/4.7k $\Omega$				
		Aux: 1xAux 100mV/330k $\Omega$				
	Freq. Resp.	50-15000Hz $\pm$ 3dB				
	Tone Controls	Bass: $\pm$ 10dB at 100 Hz Treble : $\pm$ 10dB at 10 kHz				
	Speaker Output	4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ & 100V				
	Digital Player	MP3 Player with USB Reader & Remote Control				
	Dim/Wt	W305xH120xD305 mm/7.00kg.				
2	<b>Column Speaker</b>					
	Input power	15W RMS 23 W Max.				
	Power Taps	15/10/5/2.5 W				
	Imp./Voltage	100V,				
	Freq. Resp.	150-15000Hz				
	SPL (1W/1m)	91.5dB				
	Speakers	3x5"x3"				
	Dimension (mm)	W115, H 524, D 89				
	Wt.	2.50 kg.				
3	<b>PA Wireless Microphone</b>					
	<b>Receiver</b>					
	Audio Output	0-50mV				
	Freq. Resp.	40-15,000Hz				
	Antenna	Telescopic				
	Power Reqd.	AC 220-240V for AC adaptor				
	<b>Transmitter</b>					
	RF Output Power	10 m W(Max.)				
Modulation Mode	FM					
4	<b>Head Band Microphone</b>					
	Mic Element	Condenser, Cardioid				
	Freq. Resp.	50-16,000Hz				
	Sensitivity	5.6m V/Pa				
	Impedance	1000 $\Omega$				
	Cable Length	1.25m				
5	<b>Cables, Accessories, Installation</b>					

Signature of the Bidder

## Price Schedule form

Price Schedule for Goods Being Offered from India/Abroad in INR  
(Separate form to be used for each item offered)

**Name of the Bidder/Tenderer:**  
**Name & Model No of offered good:**  
**Tender No.:**

S. No.	Details	Price per Unit in INR
1	Ex-works, Ex-warehouse, Ex-show room off the shelf price	
2	GST payable, if contract is awarded(5%)	
	C.G.S.T.(%)	
	S.G.S.T. (%)	
	I.G.S.T. (%)	
3	Packing & forwarding up to station of dispatch, if any	
4	Charges for inland transportation, insurance to ultimate destination i.e. NIT, Raipur, if any	
5	Installation, Commissioning and training Charges, If any	
6	<b>Any other charges (Please specify)</b>	
<b>Total Price ( Sum of S. No 1 to 6) FOR Govt. V.Y.T.PG Autonomous CollegeDurg (Chhattisgarh)</b>		

Total Bid price in Indian currency \_\_\_\_\_

In words: \_\_\_\_\_

Name \_\_\_\_\_

Business Address \_\_\_\_\_

**Note:**

- (a) The cost of optional items shall be indicated separately.
- (b) Price should be quoted in prescribed format only as per above.

Seal & Signature of Bidder

**MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER**

Date: / /

The Principal  
Govt. V.Y.T.PG Autonomous College  
Durg (Chhattisgarh)  
491001

Sub: Authorization for release of payment / dues from Govt. V.Y.T.PG Autonomous College  
Durg (Chhattisgarh)through Electronic Fund Transfer/RTGS Transfer.

Name of the Party/Firm/Company/Institute:			
Address of the Party: City_____			
Pin Code_____			
E-Mail ID_____			
Mob No:_____			
Permanent Account Number_____			

**3. Particulars of Bank**

Bank Name		Branch Name	
Branch Place		Branch City	
PIN Code		Branch Code	
MICR No			
(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name , branch name and code number)			
IFS Code:(11 digit alphanumeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

**DECLARATION**

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Registrar, Indian Institute of Technology Jammu responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**Signature & Seal of the Authorized Signatory of the Party**

Certified that particulars furnished above are correct as per our records

Bankers Stamp: Date: \_\_\_\_\_

**Signature of the Authorized Official from the Bank**

*N.B: Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable.*

## Schedule of Earnest Money

List of instrument/equipments with code no. And delivery destination

S. No.	Description of Instrument	Instrument / Equipment code No.	Approx. Qty. Nos	Estimated Cost (Rs.)	Earnest Money Amount (in Rs.) 3% of the estimated cost
1	PL Set-up (Spectrometer with built in Emission monochromator/spectrograph and software)	Item No. - 1	1	700000	21000
2	VISIBLE SPECROPHOTOMETER	Item No. - 2	3	225000	6750
3	REAL TIME PCR	Item No. - 3	1	200000	6000
4	ELISA READER	Item No. - 4	1	200000	6000
5	Eletronic Top Pan Balance	Item No. - 5	1	43500	1305
6	ORE MICROSCOPE WITH PHOTOGRAPHIC ATTACHMENT	Item No. - 6	1	75000	2250
7	DIGITAL pH METER	Item No. - 7	5	45000	1350
8	PHOTOELECTRIC COLORIMETER	Item No. - 8	5	80000	2400
9	Polarizing Microscope	Item No. - 9	1	50000	1500
10	RFID Tag	Item No. - 10	40000	225000	6750
11	HF Gate Antenna System	Item No. - 11	1	125000	3750
12	HF Handheld Reader	Item No. - 12	1	100000	3000
13	Interactive Device Unit (With Software)	Item No. - 13	1	40000	1200
14	SHORT THROW PROJECTOR	Item No. - 14	1	40000	1200
15	DESKTOP PC	Item No. - 15	5	40000	1200
16	MEDIUM BACK FIX CHAIR	Item No. - 16	62	80600	2418
17	PA SYSTEM	Item No. - 17	3	45600	1368

## **Annexure – VI A**

### **LIST OF DOCUMENTS FOR RELEASE OF PAYMENT THROUGH L/C.**

#### **Equipment of Foreign Origin:**

- 1) Four (4) copies of the Manufacturer / supplier's invoice showing the Equipment's description, quantity, unit price and total amount
- 2) Original and Four (4) copies of the negotiable clean, on-board bill of landing marked freight prepaid and four copies of non-negotiable bill of landing;
- 3) Four copies of the packing list identifying contents of each package
- 4) Insurance certificate
- 5) Manufacturer and Suppliers warranty certificate
- 6) Factory test and inspection certificate
- 7) Certificate of country-of origin

## **Annexure – VI B**

#### **Equipment to be Supplied by Indian Manufacturer:**

Upon delivery of the Equipment to the transporters, the Supplier shall notify the Board and mail the following documents to the Board.

- 1) Four copies of the Supplier's invoice showing the Equipment's description, quantity, unit price and total amount
- 2) Supplier's and/or Manufacturer's warranty certificate
- 3) Factory test & inspection certificate by manufacturer.
- 4) Insurance certificate

## &lt;&lt; Organization Letter Head &gt;&gt;

**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 requirement and intent of specification.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. 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.

NAME & ADDRESS OF THE Vendor/ Manufacturer / Agent	
Phone	
Fax	
E-mail	
Contact Person Name	
Mobile Number	
TIN Number	
PAN Number	
(In case of on-line payment of Tender Fees) UTR No. (For Tender Fee)	
(In case of on-line payment of EMD) UTR No. (For EMD)	

**(Signature of the Tenderer)**

**Name:**

**Seal of the Company**



**Acceptance of terms & conditions of tender(Must be on Letter Head)**

Date:

To,  
The Principal  
Govt. V.Y.T.PG Autonomous College  
Durg (Chhattisgarh)  
491001

Subject: Acceptance of Terms & conditions of Tender.

**Tender ref. No.: GVYTPGAC/RUSA 1.0 DT. 26.06.2019**

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned Tender enquiry no. from the Website: [www.govtsciencecollegedurg.ac.in](http://www.govtsciencecollegedurg.ac.in)
2. I/We hereby certify that I/we have read entire terms & conditions of the tender documents from Page 01 to 60 (including all documents like annexure, schedules etc.) which form part of the tender document and I/we shall be abide by the terms & conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by Govt. V.Y.T.PG Autonomous College Durg (Chhattisgarh) to have also been taken into consideration, while submitting this acceptance letter.
4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in totality/entirely.
5. In case any provisions of this tender are found violated, Govt. V.Y.T.PG Autonomous College Durg (Chhattisgarh) shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/right against Govt. V.Y.T.PG Autonomous College Durg (Chhattisgarh) in satisfaction of this condition.
6. I/We confirm that we or our proprietor/Director/Partner have not been blacklisted or debarred or declared ineligible for corrupt/fraudulent practices either indefinitely or for a particular period of time by any Government or other agency. I/we further declare that no criminal case is registered on pending against the firm/company or its owner/partners/directors anywhere in India. Also there are no contractual restrictions or legal disqualifications or other obligations which prohibit the applicant from entering into tender process.

**(Seal & Signature of the bidder)**

## GOVT.V.Y.T.PG AUTONOMOUS COLLEGE DURG C.G.

## INTEGRITYPACT - OUR ENDEAVOUR

To create an environment where Business Confidence is built through Best Business Practices and is fostered in an atmosphere of trust and respect between providers of goods and services and their users for the ultimate benefit of society and the nation.

<b>GOVT.V.Y.T.PG AUTONOMOUS COLLEGE DURG COMMITMENT</b>	<b>PARTY'S COMMITMENT</b>
To maintain the highest eithical standards in business and professions.	Not to bring pressure recommendations from outside GSECL to influence its decision.
Ensure maximum transparency to the satisfaction of stakeholders.	Not to use intimidation, threat, inducement or pressure of any kind on GSECL or any of it's employees under any circumstances.
To ensure to fulfill the terms of agreement / contract and to consider objectively the viewpoint of parties.	To prompt and reasonable in fulfilling the contract, agreement, legal obligations.
To ensure regular and timely release of payments on due dates for work done.	To provide goods and / or services timely as per agreed quality and specifications at minimum cost to GSECL.
To ensure that no improper demand is made by employees or by any one on our behalf.	To abide by the general discipline to be maintained in our dealings.
To give maximum possible assistance to all the Vendors / Suppliers / Service Provider and other to enable them to complete the contract in time.	To be true and honest in furnishing information.
To provide all information to Suppliers / Contractors relating to contract / job which facilitate him to complete the contract / job successfully in time.	Not to divulge any information, business details available during the course of business relationship to other without the written consent of GSECL.
To ensure minimum hurdles to vendors / suppliers / contractors in completion of agreement / contract / work order.	Not to enter in to carter / syndicate / understanding whether formal / non-formal so as to influence the price.

**Seal & Signature**  
**(Principal , Govt.V.Y.T.PG**  
**Autonomous College Durg )**

**Seal & Signature**  
**(Party's Authorized Person)**  
**Name :**

**BID PARTICULARS**

<b>1</b>	Name of the Supplier :	
<b>2</b>	Address of the Supplier :	
<b>3</b>	Availability of demonstration of equipment :	Yes / No
<b>4</b>	Tender cost enclosed: : D.D. No. _____ Bank _____ Amount _____	Yes/No if yes
<b>5</b>	EMD enclosed D.D. No. _____ Bank _____	Yes / No if Yes
<b>6</b>	Name and address of the Officer/contact person to whom all references shall be made regarding this tender enquiry	
	Name :	
	Address :	
	Telephone No. :	
	Fax No. :	
	Mobile No :	
	e-Mail :	
	Web :	

# **Technical Specification**

**Item no. – 1**

Name of Equipment

**PL Set-up (Spectrometer with built in Emission monochromator/spectrograph and software)**

**Compliance Checklist/Table**

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	<b>Spectrometer with built-in Emission Monochromator/Spectrograph and software</b>	
	USB2000+XR1-ES-FL	Fluorescence Spectrometer 200-1025 nm, 200u Slit, L4 light collection Lens
<b>2</b>	<b>Light Source with Excitation Filter</b>	
	PX-2	Pulsed Xenon Lamp, 220 Hz, 220-750 nm, ~5500 hrs at 50 Hz
<b>3</b>	USB-ADP-PX2	Adapter pkg. to connect spectrometer to PX-2
<b>4</b>	LVF-UV-H	Single High-pass UV Linear Variable Filter, 230-500 nm
<b>5</b>	LVF-CUV-ADP	Adapter to hold LVF in filter slot of a cuvette holder
<b>6</b>	<b>Optical Fibers</b>	
	P600-1-SR	Solarization Resistant Optical Fiber Pach Cord, 1 m
<b>7</b>	<b>Sample Compartment</b>	
	CUV-UV-FL	Cuvette Holder, 1-cm path, for fluorescence, 200-2000 nm ss
<b>8</b>	<b>Option for Backscattering Probe for Powders &amp; Solids</b>	
	R400-7-SR	Reflection or Backscattering probe 200-1100 nm
<b>9</b>	RPH-1	Probe Holder

**Item no. – 2**

Name of Equipment **VISIBLE SPECROPHOTOMETER**

**Compliance Checklist/Table**

		Technical Specification
<b>1</b>	<b>WAVELENGTH</b>	Range - 340 to 999 nm
		Accuracy - $\pm 2.0$ nm
		Readout – 1 nm step
		Bandwidth – 5.0 nm
<b>2</b>	<b>PHOTOMETRIC</b>	Range - -0.04 to 2.5 Abs
		Accuracy - $\pm 0.005$ Abs at 1.0 Abs
		Repeatability - $\pm 0.005$ Abs
		Resolution – 0.1 in % T mode 0.001 Abs in Abs mode
		Digital Readout – 2 line 20 characters LCD
		Drift - $\pm 0.003$ Abs/hour at 500 nm
		Baseline Flatness - $\pm 0.005$ Abs
		Stray Light – Less than 0.3%T at 370 nm
<b>3</b>	<b>GRATING</b>	600 lines/mm
<b>4</b>	<b>SOURCE</b>	Tungsten –Halogen lamp
<b>5</b>	<b>DETECTOR</b>	Silicon Photodiode
<b>6</b>	<b>SAMPLE HOLDER</b>	Two-position manual sample changer or factory installed single position holder for 20 mm/50 mm (Max) path length cell.
<b>7</b>	<b>MINIMUM VOLUME</b>	1 MI In 4 MI Cuvette
<b>8</b>	<b>0,100%T, ORDER CUTOFF SETTING</b>	Automatic
<b>9</b>	<b>OPERTAING MODES</b>	i) Single Wavelength ii) Multi Wavelength (max 6) iii) Scan
<b>10</b>	<b>MEASURING MODES</b>  K-Factor Range Concentration Range	i) Absorbance ii) % Transmittance iii) Concentration (with factor and curve fitting) 0.100 to 9999 with floating Decimal point 0.100 to 9999 with floating Decimal point
<b>11</b>	<b>DATA PROCESSING</b>	1) Peak Pick (6 peaks in Abs value) 2) Spectrum printout (on Epson compatible Dot Matrix printer)
<b>12</b>	<b>DATA PRESENTATION</b> <b>Display</b> <b>Hard Copy</b>	2 line 20 char. Alphanumeric LCD On printer (Graph and Data both)
<b>13</b>	<b>PRINTER PORT</b>	Epson compatible 80 Column Dot Matrix
<b>14</b>	<b>RS 232 PORT</b>	PC Link data transfer
<b>15</b>	<b>POWER</b>	230V $\pm 10\%$ , 50 Hz
<b>16</b>	<b>DIMENSIONS</b>	420 (W) x 310 (D) x 125 (H) mm
<b>17</b>	<b>WEIGHT</b>	6.5 kg (Approx)
<b>18</b>	<b>ACCESSORIES</b>	2 matched 10 mm path length Glass cuvettes
<b>19</b>	<b>OPTIONAL ACCESSORIES</b>	<ul style="list-style-type: none"> <li>• 4- Position automatic length Glass cuvettes</li> <li>• Holder for 50 mm cylindrical and rectangular Cuvettes</li> <li>• Epson compatible 80 column D.M. Printer</li> <li>• Standard RS 232 interface for Window based PC link Software for Spectrum Display, Storage/Retrieve, Peak-Pick, Point-Pick, 1<sup>st</sup> to 4<sup>th</sup> Derivatives, Zoom, Averaging/Subtraction of Two Scans</li> </ul>

**[ITEM NO. -3]**

Name of Equipment - REAL TIME PCR

Compliance Checklist/Table

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	<b>Max. ramp rate °C/Sec.</b>	2.5
<b>2</b>	<b>Average ramp rate, °C/se</b>	2
<b>3</b>	<b>Heating and Cooling Method</b>	Pettier
<b>4</b>	<b>Lid, °C</b>	Heats up to 105
<b>5</b>	<b>Temperature</b>	
	<b>Range</b>	0-100°C
	<b>Accuracy</b>	±0.2°C of Programmed target at 90 °C
	<b>Uniformity</b>	±0.4 well- to well within 10 Su. Of arrival at 90 °C
<b>6</b>	<b>Gradient</b>	Operational range – 30 - 100 °C
		Programmable upon – 1 to 24°C
<b>7</b>	<b>Optical Detection</b>	Excitation – 6 Filtered LEDs
		Detection – 6 Filtered Photodiodes
		Range of excitation
		Emission, Wavelengths- 450-730 nm
		Sensitivity – Detection of One copy of target sequence in human genomic DNA
		Dynamic range – 10 Orders of Magnitude
<b>8</b>	<b>Scan Time</b>	All channels su-12 su
		FAM/SYBR, Green only – 3 Su
<b>9</b>	<b>Software</b>	
<b>10</b>	<b>Operating System</b>	Windows-10
<b>11</b>	<b>Multiplex analysis</b>	Up to 5 targets per well
<b>12</b>	<b>Sample Capacity well</b>	96
<b>13</b>	<b>Sample Size</b>	10-125 ml
<b>14</b>	<b>Communication interface</b>	USB 2.0
<b>15</b>	<b>Dimensions</b>	33x46x36/13x18x14 cm/in
<b>16</b>	<b>Weigth</b>	21/47 kg/16 at prox.

**Note : - All software, Electricals & other requirements should be properly licensed & Approved by competent authority in any case proxy will not be considered.**

[ITEM NO. -4]

Name of Equipment- **ELISA READER**

Compliance Checklist/Table

Technical Specification	
<b>1</b>	<b>Human Machine Interface</b> Touch Panel/Keypad
<b>2</b>	<b>Linear Measurement Range 0.000 to 3.500 Absorbance Unit</b> 0.000 to 3.500 whichever is higher ,from 0 to 1.5 A +- 3% from 1.5 to 3.5A
<b>3</b>	<b>Drift</b> <0.005 A/hr
<b>4</b>	<b>Photometric Linearity</b> 2.5 A
<b>5</b>	<b>Optical Measurement</b> 8 channel
<b>6</b>	<b>Type of Filter</b> Narrow band interface
<b>7</b>	<b>Wave length</b> 405nm, 450nm, 492nm, 630nm & four Optional
<b>8</b>	<b>Half Band width</b> 10nm +- 2nm
<b>9</b>	<b>Selection</b> Automatic by stepper Motor
<b>10</b>	<b>Light source</b> Tungsten halogen lamp,20W
<b>11</b>	<b>Display</b> 6 Graphics LCD, Negative Blue ,STN
<b>12</b>	<b>Curve Plotting</b> 2.5 Graphical Representation on printer
<b>13</b>	<b>plate carrier movement</b> Precisely through the stepper motor
<b>14</b>	<b>Printer</b> Built in thermal printer 52 columns
<b>15</b>	<b>Memory</b> Battery backup for 250 test & More than 2500results
<b>16</b>	<b>Analysis Mode</b> Absorbance(normal & diff.)
<b>17</b>	<b>Wattage</b> 75 Watts
	<b>Voltage</b> 115-230volts+-10%, 50/60Hz
	<b>Operating position</b> On horizontal flat, rigid & vibration free surface
<b>18</b>	<b>Temp.</b> from +18 C to 35 C
	<b>Relative humidity</b> up to 80%
<b>19</b>	<b>Temp.</b> from-10 C to 40 C
	<b>Relative humidity</b> Up to 80%
	<b>Enclosure</b> ABS Fire Retardant
	<b>Size (cm)</b> 36 x 36 x 22(LxBxH)
	<b>Weight</b> 10kgs



[ITEM NO. – 5]

**Name of Equipment- Top Pan Balance**

**Compliance Checklist/Table**

	Technical Specification	
<b>1</b>	Capacity	220 gms
<b>2</b>	Readability	0.1 mg
<b>3</b>	Repeatability (Standard Deviation)	$\leq 0.1$ mg
<b>4</b>	Linearity	+/-0.2mg
<b>5</b>	Response Time	3 secs.
<b>6</b>	Operating ambient Temp.	5-40 <sup>0</sup> C 20-85%
<b>7</b>	Temperature Coefficient Sensitivity (ppm/C)	$\pm 2$ ppm/ <sup>0</sup> C (no condensation)
<b>8</b>	Pan Size (mm) approx	$\phi$ 91
<b>9</b>	Main body dimensions (mm) approx.	213(W)x356(D)x338(H)
<b>10</b>	Weight (kg) approx	6.2 kg
<b>11</b>	Power requirement	12v, 1A
<b>12</b>	Calibration	Internal

**[ITEM NO. -6]**

Name of Equipment - **ORE MICROSCOPE WITH PHOTOGRAPHIC ATTACHMENT**

Compliance Checklist/Table

	Technical Specification
1	Trinocular microscope for visualizing opaque objects in polarized light as well as thin sections used for petrographic, crystallographic, geological and mineralogical studies, low positioned controls.
2	Coaxial coarse and fine focusing adjustment effected from both sides, with graduated drum, each division equals 2/1000 mm., with ball bearing type self centred quadruple revolving nosepiece circular centering rotatable stage with degree calibration, with two lens aplanatic Abbe condenser with rotatable polarizer mount having 15 degree calibration.
3	Analyser provided in a slide which can be swung in and out of the microscope tube. The polaroids of high grade imported make.
4	Incident ray illuminator provided with iris diaphragm and built in incident ray polarizer, low voltage halogen lamp (6V/20W). The filament of the halogen lamp can be centred with the help of adjustment provided in the halogen lamp housing. The incident light illuminator with a slot for filter, for which two filters must be supplied.
5	Heat resistance filter filled in the incident light illuminator between halogen lamp and polarizing filter.
6	Beam splitter for incident light illumination, with switch over knob for transmitted light illumination. A slot size 12 mm x 4 mm provided in the tube at 45 degree to the polarizer axis for compensators.
7	Built in halogen lamp (6V-20W) illuminator in the base, with collector lens and a low voltage variable transformer. Input 220 VAC, 50 Hz, with adjustable output voltage and on and off switch.
8	Three objectives (strain free) 5x, 10x and 40 x and 2 paired eyepieces. One pair widefield eyepieces WF 15x. Trinocular head with adjustable intraocular distance.
9	Digital camera for micro imaging system PMB. High resolution, Nikon make digital camera with 3" LCD effectively 16 mega pixel with digital and optical zoom to give images of impressively high quality, which is coupled to a microscope by using a suitable microscope adapter to take microphotographs. These photographs can be transferred to a computer to display the captured images and videos on the monitor or to take prints with a high resolution colour inkjet printer or the image can be stored on the hard disc of the computer.
10	High resolution Nikon digital camera 16 mega pixel with standard accessories, LCD : 3" TFT LCD Monitor Lens : 4.2 x Optical Zoom lens Digital Zoom : 2x Digital Zoom Standard Accessories : Lens cap, strap, Battery, Battery charger, USB cable, Audio/Video cable, manual book. Microscope adapter Censico make. AC adapter to used in place of battery. Memory card 4 GB, Image capture card.

**[ITEM NO. -7]**

Name of Equipment- DIGITAL pH METER

Compliance Checklist/Table

Technical Specification		
1	<b>pH Range</b>	0 to 14.00 pH
2	<b>Millivolt Range</b>	0 to ±1999 mV
3	<b>Slope Correction</b>	85% to 115%
4	<b>Resolution</b>	0.01 pH, 1 mV in mV mode
5	<b>Repeatability</b>	± 0.01 pH ± digit for pH ± 1 mV ± digit for mV
6	<b>Standardization Range</b>	± 1 pH (Approx)
7	<b>Temp. Compensation</b>	0 to 100 <sup>0</sup> C Dig. Display (Manual)
8	<b>Display</b>	3 <sup>1/2</sup> – Digit Red Led Seven Segment with automatic polarity & decimal point
9	<b>Power</b>	230V ±10% 50 Hz
10	<b>Dimension</b>	235 (W) X 185 (D) X 85 (H) mm
11	<b>Weight</b>	1.25 Kg (Approx)
12	<b>Accessories</b>	Combined Electrode Stand & Clamp
13	<b>Optional Accessories</b>	Pt. Electrode & Calomel Electrode for Potentiometric Titration Temp. Sensor pt 100

[ITEM NO. -8]

Name of Equipment- PHOTOELECTRIC COLORIMETER

Compliance Checklist/Table

Technical Specification		
1	<b>Wavelength Range</b>	400 nm to 700 nm with 8 optical filters
2	<b>Filter's peak wavelength (typical)</b>	420 nm, 440 nm, 490 nm, 520nm, 540 nm, 570nm, 600nm, 700nm.
3	<b>Measuring Modes</b>	% T & Abs
4	<b>Photometric Resolution</b>	1% T & 0.01 in Abs upto 1.99 Abs (O.D.)
5	<b>Display</b>	3-Digit LED
6	<b>Sample Value</b>	1 ml in 4 ml Test tube
7	<b>Source</b>	White LED
8	<b>Detector</b>	Hermetically Sealed Photodiode
9	<b>Power</b>	230 V $\pm$ 10%, 50 Hz
10	<b>Dimension</b>	160 (W) X 200 (D) X 100 (H) mm
11	<b>Weight</b>	1.5 Kg (Approx)
12	<b>Accessories</b>	Four test tubes

[ITEM NO. -9]

Name of Equipment- **Binocular polarizing Microscope**

Compliance Checklist/Table

	<b>Technical Specification</b>
<b>1</b>	Binocular polarizing microscope for visualizing objects (thin sections) in transmitted polarized light.
<b>2</b>	Used for petrographic, crystallographic, geological and mineralogical studies. Low positioned controls.
<b>3</b>	Coaxial coarse and fine focusing adjustment effected from both sides, with graduated drum, each division equals 2/1000 mm, with ball bearing type self centred quadruple revolving nosepiece.
<b>4</b>	Circular centering rotatable stage with degree calibration, with two lens aplanatic Abbe condenser with rotatable polarizer mount having 15 degree calibration. Analyser provided in a slide which can be swung in and out of the microscope tube.
<b>5</b>	High grade Polaroids of imported make
<b>6</b>	Bertrand lens which can be swung in and out, a slot size 12mm x 4 mm provided in the tube at 45 degree to the polarizer axis for compensators.
<b>7</b>	Built-in halogen lamp (6V-20 W) illuminator in the base with collector lens and a low voltage variable transformer. Input 220 V AC, 50 Hz, with adjustable output voltage and on and off switch.
<b>8</b>	3 objectives (strain free) 5 x, 10x and 40 x and 2 paired eyepieces. One pair widefield eyepieces WF 10 X (1 cross hair scale eyepiece) & one pair widefield eyepieces WF15x Binocular head with adjustable interocular distance.

**[ITEM NO. -10]**  
**Name of Equipment - RFID Tag**  
**Compliance Checklist/Table**

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Application	Book, File, Magazine, journal, Document
<b>2</b>	Chip	Philips I CODE SLI
<b>3</b>	Frequency	13.56 MHz
<b>4</b>	Protocol	ISO 15693
<b>5</b>	Size	80 x 50 mm
<b>6</b>	Read distance	Up to 1 mt (Approx.) with recommended Library Security Gate
<b>7</b>	Warranty	10 years on logic circuit and replacement if found during tagging
<b>8</b>	Memory	1024 bits R/W EEPROM
<b>9</b>	Antenna	Aluminum
<b>10</b>	Password	32 bit password protected
<b>11</b>	Data Retention	10 years
<b>12</b>	Programing cycle	100000
<b>13</b>	Operating Temp	-25 degree cel.TO +70 degree cel.
<b>14</b>	Storage Temp.	-20 degree cel.TO +80 degree cel.
<b>15</b>	Adhesive	Yes
<b>16</b>	Packing	Roll Form
<b>17</b>	Weight	<1 gram

[ITEM NO. -11]

Name of Equipment - **HF Gate Antenna System**  
Compliance Checklist/Table

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Operating Frequency	13.56 MHz
<b>2</b>	Power Supply	AC 230V / 50Hz
<b>3</b>	Power consumption	30W max
<b>4</b>	Transmitting Power	0.5W to 6W variable
<b>5</b>	Read Range	Up to 1 m with pair of gates
<b>6</b>	Communication Interface	RS-232 / Ethernet
<b>7</b>	Supported Transponders	ISO 15693
<b>8</b>	Operating Temperature	-10°C to +60°C
<b>9</b>	Communication Parameters	Baudrate: 115200 Kbps
<b>10</b>	Dimensions	1530 X 550 X 30 mm
<b>11</b>	Weight (1 Panel)	20kg
<b>12</b>	Housing Material	ABS

**[ITEM NO. -12]**  
**Name of Equipment - HF Handheld Reader**  
**Compliance Checklist/Table**

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Operating Frequency	13.56 MHZ
<b>2</b>	Power Supply	5 V / 3 A DC Adapter
<b>3</b>	Antenna	Internal Antenna
<b>4</b>	Main Battery	Lithium Ion 3.7V, 2800mAh (Rechargable)
<b>5</b>	CPU	400 MHz processor
<b>6</b>	Transmitting Power	Upto 1 W max.
<b>7</b>	Read Range	Up to 10cm
<b>8</b>	Communication Interface	USB
<b>9</b>	Supported Transponders	ISO 18000-3 Mode 1
<b>10</b>	Indicators	Touchscreen Display, Buzzer
<b>11</b>	Operating Temperature	0°C to 40°C
<b>12</b>	Storage Memory	Expandable Upto 1 GB
<b>13</b>	Weight	500 gms approx
<b>14</b>	Dimensions	19 cm L x 9 cm W x 4.5 cm H



**[ITEM NO. -13]**

Name of Equipment **Interactive Device Unit (With Software)**  
Compliance Checklist/Table

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Movement Detection Technology	3-D Optical
<b>2</b>	Tracking Active Area (max projection size recommended)	Up to 100" for 16:9 aspect ratio (Wide angle) & up to 80" for 4:3 aspect ratio
<b>3</b>	View angel (Vertical)	95 deg
<b>4</b>	View angel (Horizontal)	110 deg
<b>5</b>	View angel Diagonal)	170 deg
<b>6</b>	T/R Range	0.6 / 0.4 / 0.2 / 0.16
<b>7</b>	Tracking Speed	60-70 FPS (can be extrapolated upto 200 FPS)
<b>8</b>	Ambient Light Resistance Technology	830nm +/- 20 & 650nm +/-20 dual band tracking technology (Visible and IR bands)
<b>9</b>	Simultaneous Touch Point Support	255 (System configuration dependent)
<b>10</b>	Calibration Technology	Automatic as well as Manual Calibration
<b>11</b>	Connectivity Interface	Mini USB
<b>12</b>	Max USB Transmission Distance	15 ft
<b>13</b>	Power Requirement	5 V
<b>14</b>	Power Consumption	< 1W
<b>15</b>	Operating & Storage Environment	Temperature : -10 to +60 degree; Humidity: 0% to 95%
<b>16</b>	Accuracy	+ / - 2 px
<b>17</b>	Response Time	Upto 195Mn dots/sec
<b>18</b>	Resolution	Sub-pixel upto 6768 x 4320 pxsq (native 752x480)
<b>19</b>	Data Refresh Rate	Upto 195 million dots/sec, USB bandwidth around 200 MBPS
<b>20</b>	Optimised Cursor Jittering	7 point bezier algorithms histogram
<b>21</b>	White Board	88 inch

**[ITEM NO. -14]**  
**Name of Equipment - SHORT THROW PROJECTOR**  
**Compliance Checklist/Table**

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Type	Short Throw Projector Blue light shield, Color Boost 3 D, Display mode, wall-color Compensation/Black-board mode
<b>2</b>	Brightness	3500 Lumens
<b>3</b>	Resolution	1024 x 768 XGA
<b>4</b>	Contrast Ratio	20000:1
<b>5</b>	Aspect Ratio	DLP with 4:3 with support for 16:9
<b>6</b>	Throw ratio	Short-throw 0.617:1
<b>7</b>	Projection System	0.55" DarkChip TM 3 DMD
<b>8</b>	Lamp life	10000 Hours (ExtremeEco)
<b>9</b>	Inbuilt Speaker	16 w
<b>10</b>	Connectors	Analog RGB/Component Video (D-sub) x 1HDMI (Video, Audio, HDCP) x 1 PC Audio (Stereo mini jack) x 1 Composite Video (RCA) x 1 PC Audio (Stereo mini jack) x 1 DC Out (5V/1A, USB Type A) x 1 Analog RGB (D-sub) x 1
<b>11</b>	Accessories	Wall mount arm kit

**[ITEM NO. -15]**Name of Equipment - **DESKTOP PC**

Compliance Checklist/Table

<b>S.No.</b>	<b>Technical Specification</b>	
<b>1</b>	<b>General</b>	
	Colour	Black
<b>2</b>	<b>System Features</b>	
	Cache Memory	4 MB
	Processor Name	Core i3
	Processor Brand	Intel
	Processor Frequency	2.2 GHz with Turbo Boost up to 3.4 GHz
	Operating System	Windows 10 professional with Backup CD/Pen Drive
	Processor Model	8130U
<b>3</b>	<b>Memory</b>	
	Memory Slots	1 x DDR4 Slot
	System Memory	4 GB DDR4
	Memory Detail	1 x 4 GB
<b>4</b>	<b>Display</b>	
	Touchscreen Support	No
	Display Size	21.5 inch
	HD	Yes
	Full HD	Yes
	Display Resolution	1920 x 1080 Pixel
	Display Type	Full HD LED Backlit Display
<b>5</b>	<b>Graphics</b>	
	Integrated Graphic Processor	Intel UHD Graphics 620
<b>6</b>	<b>Webcam</b>	
	Sensor resolution	1 Megapixel
	Built-in Webcam	Yes
<b>7</b>	<b>Storage</b>	
	Storage Interface	SATA
	Reading speed	5400 RPM
	Hard Drive	1 TB
<b>8</b>	<b>Audio</b>	
	Built-in Microphone	Built-in Microphone
	Other Audio features	Built-in Speakers, Sonic Master Premium
<b>9</b>	<b>Power</b>	
	Power Consumption	65 W
<b>10</b>	<b>Connectivity</b>	
	USB	1 x USB 2.0, 4 x USB 3.1 (1st Gen)
	Bluetooth	v4.1
	Headphone Jack	Yes
	HDMI	Yes
	Other Ports	1 x DC Power In, 1 x Ethernet Port (RJ45)
<b>11</b>	<b>Network</b>	
	Wireless	IEEE 802.11ac
	Ethernet	10/100/1000 Mbps
<b>12</b>	<b>Input Devices</b>	
	Mouse	Wireless Mouse
	Keyboard	Wireless Keyboard
<b>13</b>	<b>Dimensions</b>	
	Height	387 mm
	Width	489 mm
	Depth	51 mm
	Weight	4.8 kg

**[Item No. – 16]**

**Name of Equipment - MEDIUM BACK FIX CHAIR**

**Compliance Checklist/Table**

<b>S. No.</b>	<b>Technical Specification</b>	
<b>1</b>	Arm	With out Arm
<b>2</b>	Seat Details	Depth – 16”
		Width – 15.5”
<b>3</b>	Back details	Height – 12”
		Width – 15.5”
<b>4</b>	Lag Dimension	17” x 16” x 17”
<b>5</b>	Total weight	Not less than 5400 gm (5.4 Kg)
<b>6</b>	Fabric	Crap fabric
<b>7</b>	Cushion Quality	Heavy Duty
<b>8</b>	Pipe – Dimeter	01”
<b>9</b>	Pipe Gauge	20 gauge
<b>10</b>	Height of the seat from bottom	19”
<b>11</b>	Height of back from bottom	34”
<b>12</b>	Bottom bushes for pipe skid protection	Inner type plastic standard quality

[ITEM NO. – 17]

Name of Equipment - PA SYSTEM

**Compliance Checklist/Table**

S. No.	Technical Specification	
1	<b>PA Amplifier with built in digital player</b>	
	Power output	50 Watt RMS at 10%THD/75W RMS max.
	Input Channels	Mic. 3 x Mic 0.6mV/4.7k $\Omega$
		Aux: 1xAux 100mV/330k $\Omega$
	Freq. Resp.	50-15000Hz $\pm$ 3dB
	Tone Controls	Bass: $\pm$ 10dB at 100 Hz Treble : $\pm$ 10dB at 10 kHz
	Speaker Output	4 $\Omega$ , 8 $\Omega$ , 16 $\Omega$ & 100V
	Digital Player	MP3 Player with USB Reader & Remote Control
	Dim/Wt	W305xH120xD305 mm/7.00kg.
2	<b>Column Speaker</b>	
	Input power	15W RMS 23 W Max.
	Power Taps	15/10/5/2.5 W
	Imp./Voltage	100V,
	Freq. Resp.	150-15000Hz
	SPL (1W/1m)	91.5dB
	Speakers	3x5"x3"
	Dimension (mm)	W115, H 524, D 89
	Wt.	2.50 kg.
3	<b>PA Wireless Microphone</b>	
	<b>Receiver</b>	
	Audio Output	0-50mV
	Freq. Resp.	40-15,000Hz
	Antenna	Telescopic
	Power Reqd.	AC 220-240V for AC adaptor
	<b>Transmitter</b>	
	RF Output Power	10 m W(Max.)
	Modulation Mode	FM
4	<b>Head Band Microphone</b>	
	Mic Element	Condenser, Cardioid
	Freq. Resp.	50-16,000Hz
	Sensitivity	5.6m V/Pa
	Impedance	1000 $\Omega$
	Cable Length	1.25m
5	<b>Cables, Accessories, Installation</b>	