

DIRECTORATE OF COLLEGIATE EDUCATION, CHENNAI, TAMILNADU**TENDER DOCUMENT****FOR THE SUPPLY AND DELIVERY OF SCIENCE LAB EQUIPMENTS TO 62
GOVERNMENT ARTS AND SCIENCE COLLEGES AT VARIOUS PLACES IN
TAMIL NADU**

1.	ADVERTISED ON	:	31.01.2018
2.	PRE-BID MEETING	:	12.02.2018 - 11.00 A.M.,
3.	LAST DATE & TIME FOR SUBMISSION OF TENDER	:	22.02.2018 - 3.00 P.M.,
4.	DATE & TIME OF OPENING OF TECHNICAL BIDS	:	22.02.2018 - 3.30 P.M.,

DIRECTORATE OF COLLEGIATE EDUCATION

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**TENDER DOCUMENT
FOR
THE SUPPLY AND DELIVERY OF SCIENCE LAB EQUIPMENTS
TO 62 GOVERNMENT ARTS AND SCIENCE COLLEGES AT VARIOUS
PLACES IN TAMIL NADU**

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DIRECTORATE OF COLLEGIATE EDUCATION, CHENNAI, TAMILNADU

1. THE SCOPE OF TENDER

The Supply and Delivery of Science Lab Equipments to 62 Government Arts and Science Colleges at various places in Tamil Nadu

The Collegiate Education Department intends to provide Science Lab Equipments for the practical oriented subjects like Physics, Chemistry, Botany and Zoology (Annexure I to IV) for the students studying in 62 Government Arts and Science Colleges located at various places in Tamil Nadu. As a part of providing Science Lab Equipments, the Directorate of Collegiate Education has been entrusted with the task of procuring Science Lab Equipments and delivering the same to the colleges in accordance with the procedures laid down in the Tamil Nadu Transparency in Tenders Act, 1998 and the Tamil Nadu Transparency in Tenders Rules, 2000.

The Directorate of Collegiate Education has proposed to procure Science Lab Equipments by entering into Contract as per specifications laid down in the Tender Documents.

The Successful Tenderer shall supply the Science Lab Equipments to the respective Colleges and make replacement of the defective procured Science Lab Equipments in the manner specified in the Tender.

The Tamil Nadu Transparency in Tenders Act, 1998 and the Tamil Nadu Transparency in Tenders Rules, 2000 shall apply to this Tender.

The Successful Tenderer shall work closely with the Directorate of Collegiate Education, Chennai in achieving the scheduled target.

DIRECTORATE OF COLLEGIATE EDUCATION, CHENNAI – 600 006,
TAMIL NADU

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2. NOTICE INVITING TENDER

RC.NO: 23318/N1/2012

Sealed Tenders are invited from the Manufacturers or the Authorized Dealers of Science Lab Equipments. Bidding will be conducted under two cover system conforming to the Tamil Nadu Transparency in Tender’s Act – 1998 and Rules 2000.

1.	Tender Inviting Authority	:	Director of Collegiate Education, Chennai-6
2.	(a) Name of the Work	:	Supply and Delivery of Science lab Equipments
	(b) Place of Execution	:	62 Government Arts and Science Colleges located at various places in Tamil Nadu.
3.	Tender Document available (at free of cost)	:	www.tndce.in and www.tenders.tn.gov.in
4.	(a) Earnest Money Deposit	:	Rs. 5,20,000 /- By way of Demand Draft in favour of “ Senior Accounts Officer, Directorate of Collegiate Education, Chennai-6 ” payable at Chennai.
	(b) Security Deposit	:	5% of the value of the tender work
5.	Date of Pre – Bid meeting	:	12.02.2018 - 11.00 A.M., Venue: Directorate of Collegiate Education, “E.V.K.Sampath Maaligai”, 9 th Floor, College Road, Chennai – 06
6.	Due Date, Time and Place for the submission of bids	:	22.02.2018 upto 3.00 P.M., in the Directorate of Collegiate Education in event of specified date for submission of bids is declared as holiday, bids will be received and opened on the next working day at the same time and venue.

8.	Date, Time and Place of Opening of Bids	:	22.02.2018 at 3.30 P.M., in the Directorate of Collegiate Education. Selection will be based on the least cost among the technically qualified bidders.
9.	Any other important Criteria pointed out by the Tender Inviting Authority	:	Can be seen in the tender document. Any clarification required may be sought from the office of the Directorate of Collegiate Education during office hours on all working days.

Consortium bids are not acceptable. For all other conditions / instructions please refer bid document

The Directorate of Collegiate Education shall not be responsible for any postal delay or any loss of Tenders in transit. The Director of Collegiate Education, Chennai - 06 reserves the right to amend or withdraw any of the Terms and Conditions in the Tender Document or to cancel/reject all the tenders received without giving any notice or assigning any reason.

The Tenderers are requested to view the above mentioned Websites for any changes / amendments / corrigenda in the Tender which may be issued up to 2 days before the last date for submission of the Tender.

Director of Collegiate Education

3. SPECIAL INSTRUCTIONS FOR SUBMISSION OF TECHNICAL BIDS & CHECK LIST

1. All pages of the Technical Bid should be signed by authorized signatory whose name should be communicated to the Directorate of Collegiate Education with office seal without any omission.
2. The notarized copies of performance certificate and Bankers certificates enclosed for the bids should be identified as the documents submitted by the bidder over the signature with office seal.
3. Any document/credential submitted without signature of authorized persons will not be considered for evaluation.
4. Bidder should produce the originals for the performance / client certificate for verification, whenever required with the copies of those certificates enclosed along with the bid.

The downloaded documents shall be properly page numbered and spiral bound and submitted along with necessary documents.

TENDERERS SHALL FILL IN THE CHECK LIST GIVEN BELOW**I. PART - A COVER – (TECHNICAL BID)**

SL. NO	DESCRIPTION	State Yes or No in writing	Indicate the relevant Page No.
1.	Whether the Tender is submitted in two envelopes as part –A Cover (Technical Bid) and part – B Cover (Price Bid)?		
2.	Whether Earnest Money Deposit (EMD) of Rs.5,20,000/- (Rupees Five lakh and twenty thousand only) in the form of Demand Draft drawn on any Nationalized Bank in favour of the “SENIOR ACCOUNTS OFFICER, DIRECTORATE OF COLLEGIATE EDUCATION, CHENNAI-6” payable at Chennai is enclosed?		
3.	Whether Profile of the Tenderer as per Annexure V is enclosed?		
4.	Whether Annual Turnover Statement for the past three years ending with 31.03.2017 as per Annexure – VI is enclosed?		
5.	Whether the details of supply orders executed during the past three years ending with 31.03.2017 as per Annexure VII including client certificates are enclosed?		
6.	Whether Letter of Authorization / Power of Attorney for signing the Tender Document as per Annexure VIII is enclosed on a Non-Judicial Stamp Paper of value of not less than Rs.20/-?		
7.	Whether Declaration for not having been blacklisted either by Directorate of Collegiate Education or by any other Govt., /Govt., undertaking as per Annexure IX is enclosed?		

8.	Whether Declaration in Annexure – X duly signed by the Tenderer is enclosed?		
9.	Whether declaration in Annexure – XI for supply of lab equipments as per specifications within 45 days is enclosed?		
10.	Whether a Declaration in Annexure XII that Tender forms downloaded from the websites have not been tampered is enclosed?		
11.	Whether duly attested Photo copy of the Certificate of Registration under GST is enclosed?		
12.	Whether Photo copy of the Income Tax Return duly signed by the Auditor for the last three years (2014-2015, 2015-2016 & 2016-2017) is enclosed?		
13.	Whether the tenderer is a Manufacturer or a Dealer offered?		
14.	Whether documentary evidence of unambiguous fulfillment of eligibility criteria for tendering are enclosed?		
15.	Whether the Tender Document in original are duly signed in each page by the authorized signatory?		

II.PART – B COVER (PRICE –BID)

SL.NO	DESCRIPTION	State Yes or No in words
1.	Whether Price – Bid in part B duly filled – in and signed is enclosed?	

4. INSTRUCTIONS TO THE BIDDERS (ITB)

1. General Instructions:

The Bidders are requested to go through the instructions, terms, conditions and specifications given in the Tender Document carefully. Omissions or Failure to furnish any or all the required information in the Tender Document shall result in rejection of their bid.

2. Definition of Terms and Expansion of Abbreviations:

1.	Tenderer/Bidder	Tenderer/Bidder means who makes a formal offer in pursuance of this tender.
2.	Successful Tenderer	Successful Tenderer means the Tenderer whose offer is accepted by the Tender Accepting Authority. The price arrived at by the Directorate of Collegiate Education after negotiation with L1.
3.	Manufacturer	Manufacturer means the firm which manufactures the equipments/ instruments of each item at his manufacturing plant.
4.	Dealer	Dealer means the firm which shall be an authorized dealer for the products manufactured by the manufacturer. They should have the authorization letter from the original manufacturer intended to supply the Science Lab Equipments.
5.	Day	A day means a Calendar day.
6.	Cost	Cost means the total cost to be incurred by the Directorate of Collegiate Education towards the purchase of Science Lab Equipments.

7.	Purchaser	Purchaser means the Directorate of Collegiate Education
8.	Delivery point	Delivery point means various Government Arts and Science Colleges in Tamil Nadu.
9.	TNDCE	Tamil Nadu Directorate of Collegiate Education
10.	Science Lab Equipments	Science Lab Equipments for Physics, Chemistry, Botany and Zoology as specified in the relevant Annexure (I to IV) in the Tender Document.
11.	EMD	Earnest Money Deposit
12.	SD	Security Deposit
13.	LOA	Letter of Acceptance
14.	GST	Goods and Services Tax

3. Bid Document:

The Bid Document consists of the following

- i. The Scope of Tender
- ii. Notice Inviting Tender
- iii. Special Instructions for submission of bids & Check list
- iv. Qualification Criteria
- v. General Instructions to the Bidders
- vi. Special Terms & Conditions of the Tender
- vii. Letter of the Tenderer
- viii. Specifications
- ix. List of Equipments
- x. Statements and Declarations
- xi. Price bid (Bill of Quantities)

4. Qualification Criteria:

Minimum Eligibility Requirements:

4.1 The Tenderer shall be a Manufacturer or an Authorized Dealer of Science Lab Equipments and should be in the field at least for previous three years as on 31.03.2017. The Manufacturer shall possess valid registration for the manufacturing of Science Lab Equipments issued by the competent Authority on or before 31.03.2014. The Dealer should have an authorization letter from their Manufacturer. **(Copy of valid Certificate of Registration under the relevant laws / Authorization Letter from the Manufacturer should be notarized and enclosed)**

4.2 **Turnover:** The annual turnover of the bidder should be Rs.2.00 Crores (Rupees Two Crore only) atleast in any one of the last three financial years i.e from 2014-15 to 2016-17. **(Attach certificate from Chartered Accountant along with audited balance sheet, profit and loss statement for the last 3 financial years i.e. from 01.04.2014 to 31.03.2017)**

4.3. **Past Experience:** The Tenderer should have supplied the Science Lab Equipments mentioned in Annexure I to IV in any one of the last three years i.e. from 2014-15 to 2016-17 to a minimum of any 5 No's in Physics, Chemistry and Botany (Annexure I, II& III) and any 10 No's in Zoology (Annexure IV) tendered to any 5 recognized State/Central Government Sectors / Educational Institutions / Colleges / Universities / Organisations. **(Supporting documents shall be enclosed along with the Tender including the Certificate issued by the client for having completed the supply).**

5. Change in Quantity:

Quantity given in the Tender Document is approximate and it is likely to vary. The Directorate of Collegiate Education, if necessary, at the time of placement of purchase order shall either reduce or increase the quantity mentioned in the tender to the extent of 25%.

6. Pre-Bid Meeting:

There will be a **Pre - Bid meeting on 12.02.2018 at 11.00 A.M., in the Directorate of Collegiate Education, DPI Campus, Chennai - 600 006, Tamil Nadu** during which the prospective Tenderers may seek clarifications about the Tender. The Tenderers shall send their queries, if any, in writing so as to reach the Directorate of Collegiate Education at least two days prior to the date of Pre – Bid meeting. The Tenderers shall view the Websites given in the Notice Inviting Tender for updated information like change in date / venue etc., of the Pre – Bid meeting as the Directorate of Collegiate Education may not be able to identify and communicate with the prospective Bidders at this stage. **Failure to attend the Pre - Bid meeting is not a disqualification as it is an optional.** In response to the relevant query of the prospective Tenderer, clarification will be given in writing. Only the clarifications given in writing shall be valid.

7. Clarification regarding the Tender Conditions:

a) A prospective Bidder requiring any clarification with respect to any Tender condition may address the Tender Inviting Authority by letter and he/she will respond in writing to any relevant query regarding the Tender conditions. However correspondence in this regard or delay in getting reply from the Directorate of

Collegiate Education shall not be taken as an excuse for delayed submission of tender or non submission of tender.

b) The clarifications to the relevant queries will also be uploaded on the website of the Directorate of Collegiate Education.

8. Amendments to the Tender:

(a) The Directorate of Collegiate Education reserves the right to amend the tender condition on the basis of clarifications sought for by the prospective Bidders; solely at its discretion up to 48 hours before 20.02.2018 (i.e) two days prior to the last date of submission of Tender. Such amendments shall be uploaded on the Websites: www.tndce.in and www.tenders.tn.gov.in

(b) At its discretion the Directorate of Collegiate Education may or may not extend the due date and time for the submission of bids on account of amendments / corrigenda, if any, issued subsequent to the date of Notice Inviting Tender.

(c) All the Bidders must periodically browse the above websites for any amendment of corrigendum issued in connection with this Tender. The Directorate of Collegiate Education, Tamil Nadu will not be responsible for the failure of the Tenderer to update or to have comprehensive understanding of the provisions of this tender document including the changes announced through the websites.

9. Language of the Bid:

The bid prepared by the Bidder as well as all correspondence and documents relating to the bid shall be written in English language only.

10. Non Transferability:

The Tender Document is **non transferable**. It shall not be endorsed and if endorsed it will be rejected.

11. Downloading of Tender Document:

(a) The tender document can be downloaded from the websites www.tndce.in and www.tenders.tn.gov.in on A4 size paper and computer printout alone should be submitted in the form of a booklet. Submission of tender document in any other form will be rejected.

(b) The Tenderer shall download corrigendum, if any, published subsequently and submit along with the tender. Otherwise the tender will be rejected. It is the responsibility of the Tenderer to check and have knowledge of any corrigendum/amendment issued and uploaded on the above websites.

(c) The Tenderer shall download tender document in original without any change/ addition / deletion and correction. If any change / addition / deletion are detected at any stage after the award of the tender, the EMD as well as S.D remitted by the Tenderer will be forfeited without any intimation and the Tenderer will also be black listed from participating in the subsequent tenders. Besides, such Tenderers are liable to be prosecuted.

12. Cost of Tendering:

The Tenderer shall bear all costs involved in the preparation and submission of tender and the Directorate of Collegiate Education shall in no case be responsible or liable for the costs of tendering incurred by the Tenderer, irrespective of the outcome of the tenders.

13. Bid Validity:

13.1. Bid shall remain valid for a period not less than (120 days). **One hundred and twenty days** after the deadline date for bid submission specified. **A bid valid for a shorter period shall be rejected by the Tender Inviting Authority as non – responsive.**

13.2. In exceptional circumstances, prior to expiry of the original time limit, the Tender Inviting Authority may request the bidders to extend the period of validity for a specified additional period. The request and the bidder's responses shall be made in writing or by mail. A bidder may refuse the request without forfeiting his bid security (EMD). A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of extension.

14. Earnest Money Deposit (EMD):

14.1 An Earnest Money Deposit of Rs. 5,20,000/- (Rupees Five Lakhs and Twenty Thousand Only) shall be paid along with the Technical Bid by way of Demand Draft obtained from a Nationalized / Scheduled Bank drawn in favour of **“Senior Accounts Officer, Directorate of Collegiate Education, Chennai-6”** payable at **Chennai. The Bank Guarantee towards EMD will not be accepted.**

14.2. The Earnest Money Deposit amount of the unsuccessful Tenderers will be returned after the award of the Contract pursuant to the selection of the successful Tenderer and on written request from the unsuccessful Tenderer. The Earnest Money Deposit amount held by the Directorate of Collegiate Education will not fetch any interest till it is refunded to the unsuccessful Tenderers.

14.3. The Earnest Money Deposit amount of the successful Tenderer will be adjusted against the Security Deposit (SD).

14.4. Any tender not accompanied by Demand Draft towards Earnest Money Deposit as in Sub – Clause (1) above shall be rejected summarily by the Directorate of Collegiate Education.

14.5. The Earnest Money Deposit amount shall be forfeited

(a) If the Tenderer withdraws the tender after the opening of Technical Bid during the validity period specified in the tender document

(b) In the case of a successful Bidder, if the Bidder fails to sign the agreement or to remit the security deposit within the specified time limit.

(c) If the bidder does not accept the correction of the bid price pursuant to clause 24(1).

14.6. Further the Directorate of Collegiate Education will blacklist the Contractor without prejudice to any action that may be taken against the contractor.

15. Submission of Tender:

15.1. Submission of Tender in Two Cover System:

Tender shall be submitted in two parts in original i.e. Part-A and Part-B. The Part –A cover shall contain the EMD and Technical Bid as per clause 15(2) and super scribed on the envelope as “Technical Bid- Part-A” “Tender for the Supply and Delivery of Science Lab Equipments to 62 Government Arts & Science Colleges”. On the Part-A Cover, the Name and Address of the Tenderer shall be written and sealed. The Part-B Cover shall contain the Price-Bid –super scribed on the envelope as, “Price

Bid Part-B”- “Tender for the Supply and Delivery of Science Lab Equipments to 62 Government Arts & Science Colleges”. On the Part-B cover, the Name and Address of the Tenderer shall be written and sealed. Both the covers i.e., Part-A, and Part-B shall be put in an envelope super scribing thereon “**Tender for the Supply and Delivery of Science Lab Equipments to 62 Government Arts & Science Colleges**” and the Name and Address of the Tenderer shall be written on that envelope and it shall be sealed. The sealed envelope addressed to the Tender Inviting Authority i.e., the Directorate of Collegiate Education shall be put in the box kept in the office of the Directorate of Collegiate Education within the scheduled time and date of submission of the Tender. It may also be sent by Post so as to reach the office of the Directorate of Collegiate Education within the date and time specified. Failure to reach so, it shall result in summarily the rejection of such Tenders. If the last date scheduled for submission of the tender happens to be a Government holiday for any reason, the sealed tenders may be submitted on the next working day before the specified time.

15.2. Documents to be furnished in the part –A cover in the following sequence:

- (a) Covering Letter
- (b) Letter of the Tenderer shall be duly signed by the authorized signatory in full with seal.
- (c) Crossed Demand Draft / Pay order towards EMD.
- (d) Annexure V to XII towards Statements and Declaration.
- (e) Profile of the Company.
- (f) Letter of Authorization / Power of Attorney for signing the Tender Document shall be on a Non-Judicial Stamp Paper of value not less than Rs.20/-. In the case of Public Sector Undertaking / Public/ Private Limited Companies, Authorization from the appropriate authority to sign the tender document must be enclosed along with Technical Bid. Tenders received without such authorization shall be rejected.

- (g) I.T. Returns for the last three years i.e., till 31.03.2017 (Photo copies to be Notarized and enclosed).
- (h) TIN Registration Number / GST and PAN Card (Photo Copies to be Notarized and enclosed).
- (i) Audited financial Statement Report with Profit and Loss Statement and Balance sheet for the last 3 financial years, i.e., from 2014-15 to 2016-17. **(Photo copies to be Notarized and enclosed)**

15.3. Details to be furnished in the Part-B (Price Bid) cover:

- (a) Covering Letter.
- (b) Bid Price for the work with each page signed, dated and stamped with the seal of the firm.
- (c) The offer shall be unconditional.
- (d) Offers giving lump sum price, without giving their break up as per the details required in the Price bid shall be liable for rejection.
- (e) The price quoted shall be inclusive of all and no additional claim on any ground shall be entertained including taxes.
- (f) Apart from the Schedule of Prices duly filled in, the Bidders shall not enclose any other documents or statements that influence the price except Discount / Rebate letter. In such an event, the Directorate of Collegiate Education shall summarily disqualify the Bidder and reject the bid.

15.4. Signing of Tender:

- (a) The tender shall be typed or written legibly in indelible ink and shall be signed by the Tenderer or a person duly authorized to bind the Tenderer to the contract. All pages of the tender shall be signed by the Tenderer or person(s) authorized to sign the Tender with the seal.

- (b) Any alterations, corrections or overwriting in the Tender document shall be invalid and the Tender will summarily be rejected.

16. Period of Validity of Rate:

The negotiated rates of L1 bidder approved by the Directorate of Collegiate Education shall be valid for a period of **one** year from the date of execution of the agreement.

17. Modification and Withdrawal of Tenders:

- (a) Tenderers may modify their tenders by giving notice in writing before the due date for submission.
- (b) The modification notice shall be prepared, sealed, marked and delivered in accordance with clause 15, with the outer and inner envelopes additionally marked “MODIFICATION” as appropriate.
- (c) No tenderer shall be allowed to withdraw the tenders after submitting the tender as per Rule 20 - A of Tamil Nadu Transparency in Tenders Rules 2000.
- (d) Withdrawal or modification of tender between the deadline for submission of tenders and the expiration of the original period of validity specified or as extended period may result in forfeiture of the EMD.

18. Opening of Tenders:

- (a) The Tenders received after the due date and time will not be considered. Tenders in unsealed cover or Tenders which are not signed in each page or in incomplete shape or through fax or by electronic mail or through any other manner which is not in accordance with the instructions specified in the Tender Document will not be accepted.

- (b) Tenders will be opened at the scheduled date and time in the office of the Directorate of Collegiate Education in the presence of the Tenderers or their representatives who are authorized to represent the Tenderers. The Representatives of Tenderers who attend the Tender opening shall produce the proof of their identity and the authorization letter from the Tenderers.
- (c) Envelopes marked modification shall be opened and the submission therein shall be read out.
- (d) If the day fixed for opening of the tender happens to be a Government holiday for any reason, the sealed tenders shall be opened on the next working day at the specified time.
- (e) Part-A cover containing Technical Bid shall be opened first. The supporting documents shall be cross-checked wherever required.
- (f) Provided that where more than one Tender is submitted by the same tenderer, the lowest eligible financial tender shall be considered for evaluation.

19. Criteria for Evaluation of Technical Bid:

Any Tender not containing the required documents and not fulfilling the qualification criteria indicated in the Tender document shall be summarily rejected.

19.1. Prior to the detailed evaluation of bids, the Employer will determine whether each Bid (a) meets the eligibility criteria (b) has been properly signed (c) is accompanied by the required EMD and (d) is substantially responsive to the requirements of the Bidding documents.

19.2. A substantially responsive bid is one which confirms to all the terms, conditions, and specifications of the tender documents, without material deviation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the supply; (b) which limits in any substantial way, inconsistent with the tender documents, the Employer's rights or the Bidder's

obligations under the contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

19.3. If a bid is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-confirming deviation or reservation.

20. Opening of Price Bid (Part-B Cover):

(a) Only the Price Bids of the Tenderers who are qualified in the Technical Bid shall be opened.

(b) The date, time and venue of opening of Part-B Cover i.e. Price Bid will be intimated separately to the qualified eligible Tenderers.

(c) The Price Bid will be opened on the intimated date and time in the presence of the Tenderers or their authorized representatives.

21. Evaluation of the Price Bid:

The Price Bid of the technically responsive tenders shall be evaluated and compared in accordance with the criteria specified. In the evaluation of the Price Bid, the following procedures shall be adopted as per Tamil Nadu Transparency in Tender's Act 1998 & Rules 2000.

21.1. In determining the lowest evaluated price, the following factors shall be considered.

(a) The quoted price shall be corrected for arithmetical errors;

(b) In cases of discrepancy between the prices quoted in words and in figures, lower of the two shall be considered;

(c) Where there is a discrepancy between the unit and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

(d) In the evaluation of the price of the goods which are subject to Central Duties and Central Excise Duty, the price shall be Determined as inclusive of such Duties.

(e) The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the bidder. If the bidder does not accept the correct amount the bid will be rejected, and the EMD may be forfeited.

21.2. Whether all the Tenderers are from the State of Tamil Nadu or from outside the State of Tamil Nadu, the GST shall be included for the evaluation of the Price Bid.

21.3. The Directorate of Collegiate Education is empowered to negotiate with the L1 Tenderer. In case where two or more tenderers quoted the same price, the Tender Accepting Authority shall negotiate with L1 bidders & if necessary arrive at final negotiated price for Supply and Delivery of Science Lab Equipments.

22. Approval of the Contract by the Board of Governors of the Directorate of Collegiate Education:

The contract shall be awarded only with the approval of the Directorate of Collegiate Education to the successful L1 Tenderer with whom negotiations were made.

23. Right to Accept / Reject any or all Bids:

The Tender Accepting Authority i.e. the Directorate of Collegiate Education reserves the right to accept or reject any or all of the tenders including the lowest in full or in part without assigning any reasons thereof and without thereby incurring any liability to the Bidder or Bidders who may be affected financially or otherwise to this effect.

24. Award of Contract:

After acceptance of the Tender by the Tender Accepting Authority, a Letter of Acceptance (LOA) will be issued to the successful tenderers. The Directorate of Collegiate Education has the right to issue LOA to more than one tenderer.

25. Payment of Security Deposit (SD):

(a) Successful Tenderers shall be required to furnish Security Deposit equivalent to 5% (Five Percent) of the value of the purchase order as a guarantee for the performance of the contract within 7 (Seven) days from the date of issue of Letter of Acceptance. The Demand Draft shall be obtained from any one of the Nationalized Banks / Scheduled Banks drawn in favour of “ SENIOR ACCOUNTS OFFICER, Directorate of Collegiate Education, Chennai-600 006” payable at Chennai or it may be in the form of unconditional, irrevocable Bank Guarantee valid for one (1) year. EMD amount shall be adjusted against Security Deposit and the balance amount shall be remitted in the form of Demand Draft of Bank Guarantee. Failure of the successful bidder to furnish the security deposit shall constitute sufficient grounds for cancellation of the award and forfeiture of the EMD.

(b) The Security Deposit shall be released to the Contractor after the performance of the Contract in full without deficiency or default and to the entire satisfaction of the Directorate of Collegiate Education, Chennai - 6 and on completion of the guarantee period of 12 months post supply. The Security Deposit so held by the Directorate of Collegiate Education, shall not earn any interest till it is released to the contractor. The release of the Security Deposit is subject to the forfeiture clauses in the Tender Document.

(c) The Security Deposit shall be forfeited if the Contractor fails to execute the agreement within the stipulated time or fails to perform the contract or part of the

contract. The Security Deposit shall also be liable for forfeiture for violation of any of the tender conditions or for the failure to supply the ordered quantity of goods in full properly and promptly.

26. Execution of Agreement:

(a) Upon receipt of the letter as per Annexure XIV of Award of Contract, the successful Tenderer shall execute the Agreement for the fulfillment of the Contract on a Non- Judicial Stamp Paper to the value of Rs.20/- within 15 days from the date of issue of the Letter of Acceptance. The Agreement shall be part and parcel of the Contract and binding on the Directorate of Collegiate Education and the Contractor.

(b) The Contractor shall not assign or make over the Contract, the benefit or burden thereof to any other person or persons or Body Corporate for the execution of the Contract or any part thereof.

27. Interpretation:

If any question / doubt arise with reference to the interpretation of any provisions of the Tender Document, the decision of the **Director of Collegiate Education** shall be final.

28. Corrupt or Fraudulent practices:

The Directorate of Collegiate Education requires that Bidders observe the highest standard of ethics during the evaluation and execution of supply. In pursuance, of this policy, the Directorate of Collegiate Education:

(a) Defines for the purposes of this provision the terms set for forth below as follows:

(i) 'Corrupt practice' means offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the evaluation process or in contract execution.

(ii) 'Fraudulent practices' means a misrepresentation of facts in order to influence the evaluation process or execution of a contract / supply to the detriment of the Directorate of Collegiate Education and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non competitive levels and to deprive the Directorate of Collegiate Education of the benefits of free and open competition.

(b) Will reject a proposal for award, if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

(c) Will declare a firm ineligible either indefinitely or for a stated period of time to be awarded a contract if it any time determines that the firm has engaged in corrupt and fraudulent practices in competing for or in executing the contract.

5. SPECIAL CONDITIONS OF THE TENDER

1. The Special Terms and Conditions of the Tender shall supplement the “GENERAL INSTRUCTIONS TO THE BIDDERS”.

2. Technical Specifications:

The Science Lab Equipments supplied by the Contractor shall conform to the technical specifications in **Annexure I, II, III & IV** of the Tender Document.

(a) Field Inspection:

If required, the Tender Technical Committee of the Directorate of Collegiate Education will inspect the manufacturing unit of the technically qualified tenderers with prior intimation.

3. Release of Purchase Order:

The Purchase Order shall be issued to the successful bidder only after payment of required Security Deposit and execution of agreement with Tamil Nadu Directorate of Collegiate Education as per clause 25 and 26 of Instruction to Bidders.

4. The time and quality of supply and delivery of Science Lab Equipments stipulated in the purchase order shall be deemed to be the essence of the Contract.

5. Supply.

a) Supply of all the ordered Science Lab Equipments commensurating with the technical specifications in **Annexure I to IV** shall be made within **Forty five days** from the date of issue of the Purchase order and the entire supply shall be completed within the time schedule specified in the purchase order.

b) The entire quantity of the quality Science Lab Equipments shall be delivered at the designated locations in the State of Tamil Nadu in good condition. The Transit /

Freight Charges, Insurance, all the Taxes including GST, Loading and Unloading charges and all other incidental charges for the supply and delivery of the ordered goods in good condition to the designated locations shall be borne by the Contractor at his own risk and cost.

c) In case of the Contractor from the states other than Tamil Nadu, it shall be their responsibility to get necessary interstate permit for the delivery of the ordered goods in time.

d) The working models should be commissioned in the presence of receiving officials.

6. PRE-DESPATCH INSPECTION:

6.1. The successful supplier shall arrange to supply one set of complete packages **(As per Annexure I to IV)** in conformity to Specifications for ensuring the quality for the entire supply. The approval of the Sample will be accorded by a Committee comprising of official from the concerned department, subjects experts. The committee shall certify each of the supply for adherence to the specified standards as in Annexure I to IV which is mandatory for payment.

7. Insurance:

The delivery of the Science Lab Equipments in fully packed and labeled condition as per the statutory norms and the specifications given in the Tender Document to the designated destinations in time shall be the responsibility of the Contractor. The transit loss/theft/pilferage/damage of the goods under any circumstance shall be the liability of the Contractor. Insurance and transit insurance of the goods shall be the liability of the Contractor.

8. Packing and Labeling:

a) The packing shall conform to relevant packing standards. The contractor should however, ensure that the materials reach their destination without damage/loss during transit by Rail or Road and subsequent storage.

b) Each equipment/instrument shall be packed in a pouch of appropriate size to avoid damage/breakage.

c) Appropriate quantity of equipment/instrument shall be packed in a corrugated box with sufficient buffer to avoid any damage during transit.

d) Each corrugated box shall be labeled and the label shall contain the following: NOT FOR SALE, Handle with care, Supply of Science Lab Equipments by the Department of Collegiate Education, Government of Tamil Nadu, Contractor's company code No., Quantity, Serial Number and the Date, Month and Year of manufacturing.

9. Guarantee and Replacement:

9.1. The entire materials shall be guaranteed for satisfactory operation, free of defects for a continuous period of 12(Twelve) months from the date of receipt of equipment in good condition at site.

9.2. Any defects noticed during this period shall be rectified free of cost at the colleges concerned within 1 (one) week from the date of receipt of intimation of defect/failure from the said colleges.

9.3 A written guarantee guaranteeing the Directorate of Collegiate Education against defects in the materials supplied, either in materials or workmanship should be furnished preferably along with the initial bill for 85% for a period of 12 months (Twelve months) from the date of receipt of materials at site in good condition.

9.4 Any defects or failure occurring within the guarantee period due to faulty design, poor workmanship and bad quality of raw materials used shall be rectified within a week / replaced on free of cost within two (2) weeks on receipt of intimation from the purchaser / user department on such defects or failures. If they are not rectified or replaced within this period, the contractor shall pay the liquidated damages as per the liquidated damages clause in the contract for the delay from the date of receipt of intimation for the defects or failures. A Guarantee Certificate in the above form shall be submitted along with the initial bill of 85% of the supplied items. Any expenditure incurred in the transportation of SCIENCE LAB EQUIPMENTS for rectification or replacement will be to the suppliers account.

9.5 The tenderers who quote from outside Tamil Nadu may indicate whether any service centers are available in Tamil Nadu, so as to rectify / repair the equipments / instruments that are defective / failed within guarantee period without delay.

10. Payment Term:

- (a) No advance payment shall be made.
- (b) The Contractor shall raise the bill only after the completion of supply and delivery in all the Colleges as per the purchase order on time.
- (c) The bill raised by the Contractor shall have all Registration Numbers printed on the Bill. The validity of the Tax Registration during the currency period of the contract shall be the sole responsibility of the contractor.
- (d) The Directorate of Collegiate Education shall process the bill for payment of 85% of the bill only after completion of the supply delivery. **Based on the certificates issued by the committee for the quality and the certificates issued by the College Principals for the receipt of the Science lab equipments in good condition, the bills**

will be admitted. The Directorate of Collegiate Education shall settle 85% of the bill within a reasonable time after the receipt of the hard copy of the delivery notes.

(e) The Directorate of Collegiate Education shall recover any dues from the contractor if found to be recoverable on a later date in the audit even after the final settlement of the Bill. The contractor shall be liable to pay such dues to the Directorate of Collegiate Education.

(f) The remaining 15% of the Bill shall be paid after three months from the date of complete supply and commissioning of the ordered quantity of Science Lab Equipments as per the Purchase order and the Delivery schedule.

11. Liquidated Damages and Penalty:

(a) If the Contractor fails to deliver the Science Lab Equipments as per the Purchase Order and the Delivery Schedule specified by the Directorate of Collegiate Education, the Directorate of Collegiate Education shall have the right to impose penalty of 1% of the value of the order for every week of delay or part thereof after the due date of delivery for a period of two weeks and thereafter at the rate of 5% of the value of the delayed supply for each week of delay or part for another two weeks of delay. The Directorate of Collegiate Education shall have the right to make purchase from outside at higher rates if the delay continues even after the expiry of the aforesaid period of four weeks for which penalty is imposed on the contractor and the loss sustained by the Directorate of Collegiate Education to this effect shall be deducted from the bill of the contractor and / or from the security Deposit of the Contractor. The total Liquidated damages shall not exceed 10% (Ten Percent) of the contract value.

b) The Directorate of Collegiate Education shall have the right to terminate the Contract of the Contractor who fails to deliver the Science Lab Equipments in full as per the Purchase Order and the Delivery Schedule.

c) The Directorate of Collegiate Education shall have the right to place the Purchase Order with the other eligible Tenderer(s) if the supply is delayed beyond four weeks after the due date and it shall be at the risk and cost of the Contractor who is in default. The Directorate of Collegiate Education also reserves the right to take any other action against the Contractor in default for the loss and the consequential loss sustained by the Directorate of Collegiate Education.

d) Materials will be deemed to have been delivered only when all its component parts and its accessories are also delivered. If certain components and accessories are not delivered in time the whole materials will be considered as delayed unless, the missing parts are delivered. The Liquidated damages will also be levied for the quantity not supplied as is done for the delayed supplies. If supplies effected in part could not be beneficially used by the Colleges (due to such incomplete supply), liquidated damage will be worked out on the basis of contract price of such materials which could not be beneficially used and not on the value of delayed portion only.

e) The Directorate of Collegiate Education shall have the right to blacklist the Contractor for breach of any Conditions and Terms of the Tender/Agreement at any point of time.

12. Termination of Contract:

12.1. Termination for Default:

a) The Directorate of Collegiate Education may, without prejudice to any other remedy for breach of Contract by the Contractor, terminate the contract in whole or part, by a 15 days' written notice of breach of Contract to the Contractor,

i. if the Contractor fails to deliver any or all of the goods within the time schedule specified in the Purchase Order, or within any extension thereof granted by the Directorate of Collegiate Education.

- ii. if the Contractor fails to perform any of the obligation(s) under the Contract .
- iii. if the Contractor is found to have involved in fraudulent, corrupt and unfair practices in competing for or in executing the Contract.

b) If the Directorate of Collegiate Education terminates the Contract in whole or in part, the Directorate of Collegiate Education may procure, upon such terms and in such manner as it deems appropriate, the goods similar to those supplied and delivered and in that case the Contractor whose contract is terminated in whole or in part shall be liable to the Directorate of Collegiate Education for any additional costs involved in procuring and supplying the goods to the designated destinations. However, the Contractor shall continue the performance of the Contract to the extent not terminated. The Directorate of Collegiate Education reserves the right to take further action against the Contractor whose Contract has been terminated in whole or in part.

12.2. Termination for Insolvency:

The Directorate of Collegiate Education may terminate the contract at any time by giving 15 days' written notice to the Contractor without compensation to the Contractor and without incurring any liability if the Contractor becomes bankrupt or otherwise insolvent. Such termination shall not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Directorate of Collegiate Education.

12.3. Termination for Convenience:

The Directorate of Collegiate Education may terminate the Contract in whole or in part at any time during the validity period of the Contract for its convenience by giving 15 days' written notice and without compensation to the Contractor. The notice of termination shall specify that termination is for the Directorate of Collegiate Education's convenience, the extent to which the Contract is terminated, and the date

upon which such termination becomes effective. The termination of the contract is without prejudice to the penal consequences and damages for which the Contractor shall be liable for violation of the Contractual obligations.

13. Force Majeure:

a) Force Majeure means an event beyond the control of the Contractor and not involving the Contractor's fault of negligence and not foreseeable. Such event may include but are not limited to the acts of Nature such as fire, floods, epidemics, etc., and other events such as wars, revolutions, quarantine restrictions, etc.

b) If a Force Majeure situation arises, the Contractor shall promptly notify the Directorate of Collegiate Education of such conditions and the causes thereof through e-mail within 24 hrs of such event. The e-mail communication shall be followed by a report with documentary evidence to be sent to the Directorate of Collegiate Education within 3 days from the date of occurrence of such event. Unless otherwise directed by the Directorate of Collegiate Education in writing, the Contractor shall continue to perform his obligations under the Contract to a reasonably practical extent and shall seek all reasonable alternative means for effective performance of the Contract in time.

c) In the event of Force Majeure, the delivery period will be extended for a period equivalent to the period during which Force Majeure event was in existence. For this period the Contractor shall not be liable to pay penalty. Further if the performance in whole or part, of any obligation under this Contract is prevented or delayed by reason of Force Majeure for a period exceeding 21 days, the Directorate of Collegiate Education may at its option and discretion terminate the Contract.

d) The price quoted by the bidder and accepted by the Directorate of Collegiate Education shall remain fixed and firm during the extended period during which Force

Majeure was in existence. Force Majeure shall not have any bearing on the price quoted by the Contractor in the Tender.

14. Conciliation & Arbitration:

14.1. Conciliation:

If any dispute or difference arises between the Directorate of Collegiate Education and a Contractor with regard to the Contractual obligations, the same shall be referred to a Conciliator and settled by Conciliation as per the provisions of the Arbitration and Conciliation Act, 1996. The Conciliator shall be nominated by the Director of Collegiate Education. Conciliatory efforts are mandatory in tune with the Alternative Disputes Resolution (ADR) process before invoking the Arbitration Clause. The Conciliator shall endeavor to conclude his proceedings within three weeks from the date of reference of a dispute or claim to him.

14.2. Arbitration:

In case of any dispute or difference arising between the Directorate of Collegiate Education and the Contractor relating to any matter arising out of or connected with the Contract which still remains unsettled even after Conciliation, such dispute or difference shall be referred to the Arbitrator nominated by the Director of Collegiate Education. The Arbitral proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996. If the Arbitrator for any reason has to discontinue the Arbitration before completion of the arbitral proceedings, the Director of Collegiate Education shall nominate another eligible and suitable person as Arbitrator and such Arbitrator may continue the proceedings from the stage at which his predecessor has discontinued or may proceed from the stage at which his predecessor has discontinued or may proceed de novo. The Arbitral Award shall be final and binding on both the Directorate of Collegiate Education and the Contractor.

No part of the contract shall be suspended by the Contractor on the ground of pendency of the Arbitral Proceedings.

The venue of Arbitration shall be at Chennai. The language to be used in the Arbitral proceedings shall be in English.

15. Jurisdiction:

The courts in the city of Chennai alone shall have the jurisdiction to try any matter or dispute or reference between the Directorate of Collegiate Education and the Contractors arising out of the Contract.

6. LETTER OF THE TENDERER

To

The Director of Collegiate Education,
Directorate of Collegiate Education,
Chennai -6

Sir/Madam,

I / We do hereby tender / offer to the Tamil Nadu Directorate of Collegiate Education for the “ Supply and Delivery of Science Lab Equipments to 62 Government Arts & Science Colleges” conforming to the technical specifications and to the conditions stated in the annexed contract and specification attached here to.

I / We have understood that the requirement of the Directorate is noted the details of the materials to be supplied and have carefully understood the conditions of contract and the specifications with all the stipulations of which I / We agree to comply.

I / We hereby undertake to complete delivery of the materials at the places mentioned in the specification, within the time limit specified by the Directorate.

I am / We are quite aware that quality of the materials and time of delivery are the essence of this contract and accordingly, I / We would adhere to the same.

I / We further agree that I / We would not withdraw this tender either in full or in part. If by chance, I / we have to withdraw the offer, I / we agree that the EMD paid will be forfeited by the Directorate, without any notice to me / us.

I / We affirm that in any previous tender to the Tamil Nadu Directorate of Collegiate Education, I / we have not committed any fraud by furnishing wrong information and the Directorate had not written to us alleging fraud in our transaction with the Directorate.

I / We further confirm that in case, any of the information noted above is found to be incorrect, I / We will be liable for any action under the terms of the tender / contract including termination of the contract and forfeiture of the Earnest Money / Security Deposit.

I / We hereby undertake and agree to pay the Security Deposit as per the tender conditions within seven days from the date of receipt of the purchase order.

I / We undertake to sign the contract with the Directorate on the lines of the tender conditions in the tender documents.

I / We further agree that the acceptance of the tender conditions would, by itself, constitute a valid and concluded contract binding on me / us, even if separate contract is not signed.

I / We further agree that in the event of my / our failing to deposit securities mentioned above or to produce the latest income tax and sales tax (GST) clearance certificate or to execute the Contract within the period of fifteen days as referred to above, the sum of **Rs.5,20,000/-** deposited with the tender shall be forfeited by the Directorate of Collegiate Education and in addition, the Director, Directorate of Collegiate Education, shall be entitled to cancel the contract and there upon arrange for any other person or persons to supply the materials herein before mentioned and I / We agree to be liable for all damages, losses, charges and expenses arising from or by reason or such failure on our part.

I / We hereby further agree and undertake that:

a. In case, there is any defect found in the Science Lab Equipments or in any part of the Equipment delivered, we undertake to replace the same by a new one.

b. If the Science Lab Equipments delivered is found to have even the slightest damage, due to any reason like in the process of transportation, the equipment / instrument should be replaced by a new one.

I / We hereby declare that I / We agree to do the various acts, deeds and things referred to herein, for enabling the Directorate to procure the Science Lab Equipments conforming to specifications.

Having fully understood the tender conditions and the above undertaking in this letter, we sign thisDay ofat Chennai.

Yours faithfully,

Authorized Signature :

Name & Title of Signatory :

.....

Name of the Bidder :

.....

Address :

ANNEXURE - I

7. TECHNICAL SPECIFICATIONS FOR THE SCIENCE LAB EQUIPMENTS

SCIENCE LAB EQUIPMENTS TECHNICAL SPECIFICATION PHYSICS-INDENT Items required			
Sl.No	Name of the Item	Specification	Quantity Required Tentatively
1.	Transistor Power Supply with Digital Display	<ul style="list-style-type: none"> • DC 0-30V; 2A Power Supply; Pre-Regulator. • Floating DC supply Voltages. • Automatic over load protection. • Digital display for voltage and current. • Constant voltage and constant current operation. • Low ripple voltage. • Setting Resolution: Voltage 100mV; Current: 10mA. • Stability: $\leq 25\text{mV AT } 30\text{V}/2\text{A}$. • Dimension W198 x D278 x H 90 mm • Recovery time: $\leq 50 \mu\text{s}$. • Weight: 4Kg (approx) Accuracy: $\pm 1\% +1$ digit. 	32
2.	Digital Balance	<p>Product Description Capacity</p> <ul style="list-style-type: none"> • 0-150gm L.C 0.1/0.01/0.001gm. • 0-200gm L.C 0.1/0.01/0.001gm. • 0-300gm L.C 0.1/0.01/0.001gm. • Response time : 3 to 4 secs. • Housing Dimension: 195x275x406mm. • Pan size: 90mm. • Weight: 6.7kg (approx). • Readability: 0.001g. • Repeatability: $\pm 0.001\text{g}$. • Linearity: $\pm 0.002\text{gm}$. 	57

3.	Travelling Microscope	<ul style="list-style-type: none"> • Two motion travelling microscope. • Travel Horizontal 165mm and vertically 120 mm. • vernier reading to 0.01 mm. • Microscope consisting of 10X Eyepiece Ramsden. • Achromatic 2" or 3" focal length objective. • Dimension: 200mmx100mmx150mm. • Weight: 5 to 8 kg (approx). 	48
4.	CRO Dual Trace	<ul style="list-style-type: none"> • Analog; Band width - DC-20MHz. • Sweep rate - Division Mag x 5. • vertical deflection system. • deflection factor: 5mv/Div to 10V/C°; 1-2-5 sequence of 11 steps. • Accuracy : ±5%. • Bandwidth: 20MHz. • Rise time: 17.5ns or less. • cut off Frequency : 10Hz or less. • CMRR - 10 to 1 at 20MHz. • Max safe input vol: 400V (DC or AC) peak X-Y operation. • Deflection factor 5mv/ div ~ 10v/div. • Dimension Cathode Raytube: 80Dvx10Div (1 Div = 1cm). • Housing Dimensions: 320mm (L) x 124mm (W) x 380mm (D). • Weight: 7.2kg (approx). 	32
5.	Spectrometer	<ul style="list-style-type: none"> • Heavy metallic casting base. • Slit -stainless steel. • Sliding slit shutter • Rotating prism table independent of Verniers. • Calibrated scale: Scale is 1/2degrees. • A cover Plate fully protected. • Accuracy of calibration + .001% • Two Verniers are provided reading to 1 minute of the Arc. 	73

		<ul style="list-style-type: none"> The Objectives are 1" clear aperture with 10x RAMSDEN eyepiece weight: 13kg (approx). 	
6.	Micro - Processor 8085	<ul style="list-style-type: none"> Inlet 8085A CPU @ 6.144 MHz clock speed. Memory: ROM 8KB expandable up to 32KB. EPROM: 8KB expandable up to 32KB. Ni- Cd Battery back-up for RAM. Keyboard & Display 21 keys multi function key board with double short characters. Input: 230V AC Output: +5v/3.5A +12V/150mA. 	32
7.	Hot Plate	<ul style="list-style-type: none"> Size (inch) 10*12. Material SS Rating 1.5KW. Voltage 230volt. Shape: rectangular. 	16
8.	Transistor Power Supply with digital display(Dual)	<ul style="list-style-type: none"> Dual DC 2x0-30V /2A power supply. Floating DC supply voltages. Automatic over load protection. Digital Display for Voltage and current. Constant voltage and constant current Operation. Low ripple voltage. Resolution Voltage: 100mV Current: 10 m A. Stability: 2.5 mV at 30 V/2A. Recovery Time: $\leq 15 \mu\text{s}$. Accuracy $\pm (1\% +1 \text{ digit})$. Dimension: W 285x D (410) x H 88 mm. Weight: 4.7 Kg (approx). 	41
9.	Youngs' Modulus Elliptic/ hyperbolic - Co-ordinate Microscope	<ul style="list-style-type: none"> Micrometer travel 25mm- Least count .01mm. Sodium vapour lamp complete setup (35W). 	41

	Sodium lamp, Lens Weight Hanger	<ul style="list-style-type: none"> • Knife edge with rigid base height 180mm. • Weight hanger clamp, • Weights, Lens, glass plate, Beam splitter plate, optical flat. • Travel in x-direction 150 mm; Y-direction; 100mm. • Main screw length 200mm; pitch:1mm for travel in x-direction. • Screw in Y-direction threaded length 140mm. pitch:1mm. • Micro scope magnification:100x. 	
10.	CRO Digital Display	<ul style="list-style-type: none"> • Horizontal: Scan speed Range :1ns/div-50s/div. • Vertical: Band width 60MHz. • Rise time ≤ 1.2ns Dynamic range ± 5 div. • D.C gain accuracy:1mV/div $\pm 8\%$. • Display type: 5.7" with LCD. • Display Resolution 320. • HorizontalxRGBx234 Vertical pixels. • Display Constrast: 150:1. • Supply voltage: 240V AC. • Power consumption: less then 50VA. • Size: W (303mm) H (154mm) D (133mm). • Weight: 2.4 kg. 	41
11.	Micro Controller 8051 Kit	<ul style="list-style-type: none"> • 8051 micro controller -12MHz clock speed. • Memory RAM(Program) - 32KB(Data) - 32KB. • EPROM(Program) - 32KB. • HEX Keyboard - 25 Keys hexadecimal keyboard and six digit seven segment display. 	41
12.	Function generator/ Audio Frequency Oscillator	<ul style="list-style-type: none"> • Frequency range : 0.3Hz to 10MHz. • Sine wave frequency range 0.3Hz to 10MHz. • Square wave frequency range - 0.3Hz 	73

		<ul style="list-style-type: none"> - 10MHz. • Triangular wave frequency range 0.3Hz to 10MHz. • Supply 230v \pm10% 50Hz. • Power consumption 30VA. • Operating condition 0 to 50 RH95%. • Dimensions: W-205; H-95; D: 292mm. • Weight 2.4kg. • Frequency display accuracy: up to 2Hz \pm(1%+3D). • Display: 16.2 dot matrix LCD display: 2Hz-2MHz:\pm(5×10^{-3}+1D). 	
13.	He-Ne laser with Optical Bench - grating holder and accessories for particle size determination	<ul style="list-style-type: none"> • Standard 1/4-inch threaded hole for tripod or optical bench mounting. • Mechanical slide shutter over front aperture to block laser beam. • Rear and cap with power switch Lamps. • Full length rubber strip on the under side labels and safety features to meet U.S CDRH regulations. • 105 to 230v AC, 50Hz. • Set up of 13 slides. • Convex lens: 2pieces. • Focal Length=10cm and 20cm. • Dimension: optical bench 1.5m. 	41
14.	Four Probe Apparatus	<ul style="list-style-type: none"> • Voltmeter Display:3½ digit. • 7 segment LED auto polarity & decimal indication. • Voltage range: X 1 (0-200 Mv DC) & 10(0-2V DC). • Current display: 3½ digit. • 7 Segment LED. • Current range -0-20MA DC. • Ovenspowersupply:45V AC. • Input Voltage 220V, 50Hz. • Accuracy: \pm0.1% of reading\pm1 digit. 	41

ANNEXURE – II

SCIENCE LAB EQUIPMENTS TECHNICAL SPECIFICATION CHEMISTRY - INDENT Items required			
Sl.No	Name of the Item	Specifications	Quantity Required Tentatively
1.	Potentiometer (Digital)	<ul style="list-style-type: none"> • Digital potentiometer 318. • High quality Precision manual instrument. • Accurate End point. • Uniform Stirrer. • mv Range : 0- ±1999. • Resolution: 1mV. • Readout: 3 1/2 digit LED. 	122
2.	Conductivity Meter (Digital) with Cell	<ul style="list-style-type: none"> • Digital Conductivity meter 304. • Manual Instrument, convenient for routine analysis. • Range: 0 μS - 200 ms. • Resolution: 0.1 μS. • Temperature: 0°C - 100°C (Manual). • Readout: 3 digits LED. 	137
3.	Electrical Centrifuge	<ul style="list-style-type: none"> • Laboratory Centrifuge (with 8 X 15 ml swing out Head) • Capacity 400 Rotor Capacity (ml) 8 X 15 ml, Type of Head Swing out Head. • Number of Tubes – 8. 	56
4.	Digital Photocolorimeter	<ul style="list-style-type: none"> • Micro Processor Photo colorimeter. • Wave length Range: 400 - 700 nm. • Resolution: 1% T. • 0.01 Abs. • Conc.1 	41

		<ul style="list-style-type: none"> • K factor 1 • Absorbance: 0-1.99A. • Concentration : 0.1 - 199 M. 	
5.	Hot Plate with Magnetic Stirrer	<ul style="list-style-type: none"> • Stirrer with hotplate. • maximum stirring quantity (Water) (Liters) :2 Liter . • Stirring paddle Q-19 (A 9 X 35 mm) (PTFE Coated). • Dimensions (WXDXH): 200X225X185mm (mm). • Power : 300 W. 	29
6.	Digital Electronic Balance (4 Digit)	<ul style="list-style-type: none"> • TWC 623L 124 g 0.0002 g ϕ 80mm. • TXC 623L 124 g 0.0002 g ϕ 80mm. 	51
7.	Digital Electronic Balance (3 Digit)	<ul style="list-style-type: none"> • 220 g readability 0.001g pan size 100 x 100mm Calibration – External. 	11
8.	Digital Control Hot air oven	<ul style="list-style-type: none"> • Temperature - 250°C 45 X 45X 60 cm (Size). Stainless Steel (Inside Chamber Material). 	29
9.	Vacuum Pump (8 taps) 1Hp motor - Single Phase	<ul style="list-style-type: none"> • Max Air flow (cpm) Hp 200V 8.0. • Max Vacuum (Hg) 27 – 75. • Voltage (Single Phase) 115/220. • Max. Amps 5.9/2.5. • Motor Capacity (WATTS) 680. • Motor Speed (Rpm) 1750. • Noise Level (dBA at 3 feet) 56. 	41
10.	Digital Automatic Thermostat	<ul style="list-style-type: none"> • Double walled in construction. • inner chamber made of stainless steel. • outer chamber made of mild steel with powder coating. • Glass window is fixed on the front for both side clear observation while immersion test. • The gap between chambers filled with High Grade Glass wool to minimize the heat loss. • Temperature Range from above 5°C and temperature controlled by 	17

		<p>digital temperature indicator cum controlled with a high speed stirrer with a motor of 1/2 HP is filled to the unit for continuous stirring to operate 230 Volts AC only.</p> <ul style="list-style-type: none"> • Size in inches & Dimensions 1. 12"x10"x8" 1.5 (D) 2. 18"x12"x10" 2.0 (D) 3. 18"x14"x12" 2.5 (D) 	
11.	Ice Maker	<ul style="list-style-type: none"> • Quick Ice Making. • Different sized ice cubes makes upto 33lbs of ice per day. • creates small, medium or large ice cubes. • Ultra quiet operation. • Ice storage capacity: 1.8 lbs. • Water reservoir capacity : 2.2 liters. 	9
12.	pH Meter	<ul style="list-style-type: none"> • Calibration Auto/ manual Storage 2300 V 50 Hz. • Display 16 X 2 alpha numeric. • LCD Display . • Range: 0 to 14 pH, 0 to 1999.9mV, Temperature 0 to 100°C. • Resolution: 01 pH 0.1 mV Temperature 0-1°C Accuracy : 0.01 pH 1 digit mV. • Temperature 0.10. • Power: Upto 100 Samples. • accessories: pH electrode, Temperature Probe, Electrode Stand, Buffer solution, Dust cover, manual. 	20
13.	Refrigerator with Stabilizer	<ul style="list-style-type: none"> • 275 L: Digital inverter compressor. • Frost Free. • Auto Fridge defrost to stop ice-build up. • Built in stabilizer. 	10
14.	Electric Bunsen	<ul style="list-style-type: none"> • Aluminium body constructed by mild steel for heating. 	50

		<ul style="list-style-type: none"> • Temperature range upto 800°C. • rating 350 w and mains 230V. • Energy regulator can be used for regulating the heater. 	
15.	Electrical Waterbath	<ul style="list-style-type: none"> • Double walled, electric automatic. • Temperature controls. • Inside Chamber made of stainless steel and outer of mild steel painted with cover - 12 holes. 	25
16.	Flame Photometer	<ul style="list-style-type: none"> • Micro controller. • Controlled automation for ease operation. • Determination upto four elements with single aspiration (Na, K, Li & Ca) upto 5 point calibration; frequently used measurement set ups can be stored and recalled. • Restandardization with single stand available. • 20 - Character - 4 -line alpha numeric. • LCD readout for adequate user interfaces. • Built in time clock for date and time of analysis. • Printer port for compatible dot matrix/ ink jet printers to get hard copy. • Printout facility for individual sample. 	2
17	Melting Point Apparatus (Digital)	<ul style="list-style-type: none"> • Display: Digital 3 1/2 Digit. • Bright LED. • Accuracy : 1 %, • Operation: Fully automatic. • Dimensions: L405 X B360 X H 235 mm (approx) Weight: 5 kg (approx). • Power: 230 V + 10, 50 Hz, Accessories capillary tube - 100 Nos Cleaning Tool - 1No. 	10

ANNEXURE – III

SCIENCE LAB EQUIPMENTS
TECHNICAL SPECIFICATION
BOTANY -INDENT
Items required

Sl.No	Name of the Item	Specifications	Quantity Required Tentatively
1.	Student Compound Microscope 10 x , 45 x 100 x (Objective) 5 x , 10 x (Eye Piece)	<ul style="list-style-type: none"> • Detachable graduated mechanical stage. • Sub stage illuminator - ML - 1 Workable on 220V. • Huyenian Eyepiece - H5 x, H10x. • Pointer Eyepiece - 5x, 10x or 15x Oil Immersion - 100x. • Two lens abbe condenser continuously variable Iris Diaphragm and swing out filter holder. 	291
2.	Colorimeter	<ul style="list-style-type: none"> • % T & Abs 1 ml sample volume. • Display: 3 Digit LED. • Light Source: White LED Eight Optical filters on a turret to cover 400-700 nm. 	16
3.	Autoclave	<ul style="list-style-type: none"> • Vertical autoclave - standard (STWL) with low water level alarm and cut off. Inside, outside chamber and reservoir are fully stainless steel. • Flange, fly screw cross pin are stainless steel lid fitted with pressure gauge, safety valve, extra safety valve. 	40

		<ul style="list-style-type: none"> • Manual exhaust valve, vacuum breaker cum purge valve. • S.S.wire mesh carrier, heater cover stand. moulded rubber/geoprene gasket. • Drain valve at bottom operating pressure 15 psi; sterilization temperature: 121°C. • Working chamber 45x71 cm/113 ltrs. S.S carrier 2 of 40x30cm. • Heater 350 KW 	
4.	Laboratory Refrigerator (500 Ltrs)	<ul style="list-style-type: none"> • Fridge with freezer. • Laboratory refrigerator - No frost, ultra frost. • Temperature range + 2 to + 8°C. • CFC. • Digital temperature controller. • Double glazed glass door. 	45
5.	LCD Projector	<ul style="list-style-type: none"> • 3600 Lumens colour light output. • Dual HDMI port, 5V. • USB supply to power PC sticks extra long Lamp replacement time - 10,000 hour. • Versatile connection to smart devices. 	40
6.	Digital pH Meter	<ul style="list-style-type: none"> • High quality precision. • Manual Instrument. • pH range 0-14, 0.01pH resolution. • mv range. • 0 - ±1999 1mV resolution. • Read out 3 1/2 digit LCD. 	44

7.	Waterbath S.S. 6 holes	<ul style="list-style-type: none"> • Thermostat with circulation Max Temp: 100°C. • SS - 6 holes. • 220V, Volume 22.5L 	17
8.	Dissection Microscope	<ul style="list-style-type: none"> • Portable: Stable Round base metallic hand rest. • Plano - concave mirror in fork. • Eyepiece - 10x, 20x. • Object stage size - 100mm x 100mm. 	142
9.	Microwave Oven	<ul style="list-style-type: none"> • Microwave frequency - 2450 MHz. • Power source- 230 W. • Microwave power - 1400 W. • Convection power consumption - 1850W. • Grill power consumption - 950 W. • Microwave output - 900 W. • Dimensions - 281 x 483 x 390 mm. 	40
10.	Digital Spectrophotometer Visible	<ul style="list-style-type: none"> • Microcontroller based 2 line 20 characters LCD. • 340 - 999nm Range % T & Abs cone measuring mode 5nm. • Band width 4 position automatic simple layer. 	30
11.	Variable Pipette 20 μ L - 200 μ L	<ul style="list-style-type: none"> • Material PVDF/SS Range 20μL to 200 μL. 	21
12.	Variable Pipette 100 μ L - 1000 μ L	<ul style="list-style-type: none"> • Material PVDF/SS Range 100μL to 1000 μL. 	21
13.	Poly Acrylamide Gel Electrophoresis Unit with power pack	<ul style="list-style-type: none"> • Vertical Mini Gel systems. • No of Sample 7. • Buffer Volume-250mL. • Dimensions -13cm x10cm x 12cm. • Power supply - LCD Indicator 	23

		Input - 220V AC 50-60 Hz Output - 50,100,150,200 & 250 V.	
14.	Hot Plate	<ul style="list-style-type: none"> • Input Voltage 450 W, 230 V. • 370°C with digital temperature control. 	16
15.	Polymerase Chain Reaction Thermo Cycler	<ul style="list-style-type: none"> • Block Capacity 25 x .2 ml + 16 x 0.5 ml. • Non - gradient Program memory 100. • Dimension (LxWxH) 267 X 220 X 253 mm. 	2
16.	Trinocular Microscope With Camera	<ul style="list-style-type: none"> • 40x- 1600x - focal trinocular Microscope. • Detachable C- Mount adapter. • 3D- 2 layer mechanical stage with coarse and fine focussing Digital camera with advanced editing processing. • Measuring software for windows with system output. 	5
17.	Flame Photometer	<ul style="list-style-type: none"> • Microprocessor based automatic ignitor. • Automatic gas shut off calibration curve programmability storage for 700 samples optional PC Compatibility. 	2
18.	Laminar Air Flow Chamber 3'X3'	<ul style="list-style-type: none"> • Deep/Minipleat - HEPA – Prefilter • Transparent Front door. • UV - Lamp illumination. • IS 304 grade SS Workable. • Manometer/ Minihelic Gauge. • Gas Cock, Castors - power sockets and power chords W 3' x D 2' x H 2'. 	3

ANNEXURE – IV

SCIENCE LAB EQUIPMENTS TECHNICAL SPECIFICATION			
ZOOLOGY -INDENT			
Items required			
Sl.No	Name of the Item	Specifications	Quantity Required Tentatively
1.	Analytical Centrifuge	<ul style="list-style-type: none"> • 8x15 ml swing out head 	8
2.	Autoclave	<ul style="list-style-type: none"> • Media Preparator cum autoclave. • Capacity: 9L. • Dimension: 750x650x500mm. 	9
3.	Bacteriological Incubator	<ul style="list-style-type: none"> • Standard double wall fabrication. • Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. • 12"x12"; • Temp.range 10°-110° C – thermostat. 	3
4.	Binocular Dissection Microscope	<ul style="list-style-type: none"> • Dissecting Microscope Black stoving paint and hard instrumental chromium plating. • 10-20x high quality magnification. • High definition 75mm bull eye lens. 	120
5.	BOD Incubator	<ul style="list-style-type: none"> • 450x400x820mm. • Stainless Steel Material. • Sensor – PT-100. • Volume – 85-400 L • Flush fitting insulated door with magnetic gasket. • Inner door of Plexi glass. 	3
6.	Colorimeter	<ul style="list-style-type: none"> • Microprocessor photo colorimeter. • Standard glass filter. 	8

		<ul style="list-style-type: none"> • Wavelength 400-700nm. • Minimum volume - 1ml. • Display - 3-5 digits - LED Display. • Transmittance 0-100%. • Absorbance 0-1.99 	
7.	Conductivity Meter	<ul style="list-style-type: none"> • Display 16x2 Alpha numeric and LCD Display. • Range 0.1 μS to 100 μS. • Resolution 0.01 μS. 	1
8.	Refrigerated Centrifuge	<ul style="list-style-type: none"> • Angle Rotor. • Low sound fitted with vacuum legs for better grip. • Vibration free. • CFC free refrigeration 	9
9.	Deep Freezer	<ul style="list-style-type: none"> • Capacity 300 liters. • Robust construction for heavy duty use. • -18°C, • High energy efficient compressor. 	12
10.	Digital Balance (0.001 Accuracy)	<ul style="list-style-type: none"> • 300 x 0.001g x 1mg. • Digital Analytical Balance Precision Scale. 	30
11.	Digital Camera with Stand	<ul style="list-style-type: none"> • 18MP Digital SLR Camera with 18.55 mm lens + 55-250mm lens. • 18MP APS-C. • CMOS sensor and DIGIC 4+. • 9-Point AF with 1 center cross - type AF point. • Wi-Fi and NFC supported. • Lens Mount with stand. 	9
12.	Digital Colony Counter	<ul style="list-style-type: none"> • 3 Digit LED display. • Range: 0-999 counts. • 125 memory locations. • Data restoration even after power failure. 	4

13.	Dissolved Oxygen Meter	<ul style="list-style-type: none"> • LCD. • Size: 29 mm X 28 mm. • Dual function LCD. • Accuracy - Dissolved Oxygen + 0.1 mg /liter. • Temperature - 0.8°C. • Weight - 176 gms. • 180X40X40mm. 	1
14.	Egg Incubator	<ul style="list-style-type: none"> • Automatic Egg turner. • Temperature and Humidity display. 	11
15.	Electric Bunsen Burner	<ul style="list-style-type: none"> • 350 W to work on 220 / 240/VAC 50 Hz. • Maximum Temperature upto 800°C. 	38
16.	Electrophoresis	<ul style="list-style-type: none"> • Five overlapping ranges. • Two 3 digit LED Display. • Timer. • Pair of leads. • 300 mm X 265 mm X 155 mm. • 6 kg, with power pack unit. 	7
17.	Flame Photometer	<ul style="list-style-type: none"> • Microprocessor with printer interface. • Auto flame failure Detection. • Sample Data Storage Facility. • Four Measurements in Single Aspiration. • Setup Storage Facility. • Curve Calibration Programmability using Maximum of 5 standards. • Multiple Calibration Curve Saving Facility. • Direct Results in ppm and meq. 	5
18.	Haemocytometer	<ul style="list-style-type: none"> • Light and unbreakable. • German complete haemocytometer set. 	35
19.	Haemoglobinometer Digital	<ul style="list-style-type: none"> • LED based optics. • Highly accurate and stable. 	4

20.	Heating Mantle	<ul style="list-style-type: none"> • Capacity – 500 ml for round bottom flask. • Electrical Heating equipment. • Works at 220-240 V. 	17
21.	Hot Air Oven	<ul style="list-style-type: none"> • Stainless Steel. • 600 x 600 x 600 mm. • Powder coated. • Digital temperature controller cum indicator. 	6
22.	Hot Plate	<ul style="list-style-type: none"> • Thick gauge with mild steel body. • 25 X 40 cm. • Thermostat. 	1
23.	Laminar Air Flow	<ul style="list-style-type: none"> • Working table size 2' x 2'. • No. of motor – 1. • HEPA Filter. • Sterilization by UV Germicidal Tube in work area. 	3
24.	Magnetic Stirrer	<ul style="list-style-type: none"> • Magnetic Stirrer with Hot Plate designed to mix solutions. • Max.speed of the stirrer 1200 rpm. • The stirring bar coated with Teflon. 	2
25.	Micro Centrifuge	<ul style="list-style-type: none"> • Rotor capacity 20 ml. • Max.speed 16,000 rpm • AC/DC universal. • Power supply 220-240 V. • Single phase. • 280 X 350 X 290 mm. 	3
26.	pH Meter	<ul style="list-style-type: none"> • Range 0.00-14.00 pH. • Resolution - 0.01 pH. • Input impedance - 10^{12} Ohms. • Display- 3.5 digit LED display with auto polarity & decimal, Calibration. • Dimension - 205 (W) X 130 (D) X 65 (H) • Accessories : pH Electrode, 	6

		Stand, Rod, Clamp and Dust cover	
27.	Students Microscope with LED	<ul style="list-style-type: none"> • Material - Cast Iron & Brass. • Color – Black. • Weswox 100 x - 675 x. • LED Display. 	345
28.	Microtome	<ul style="list-style-type: none"> • Razor 120 mm and honing stone. • Feed range 1-50 micron. • complete with 3 object holder. • 1 razor. • 1 oil can. • Rexin cover. 	3
29.	Muffle Furnace	<ul style="list-style-type: none"> • Outer chamber - mild steel sheet. • Inner chamber - Prefabricated ceramic mould. • PID digital temperature controller cum indicator. • Ceramic wool & mineral wool insulation temperature - 1200°C. 	3
30.	Double Door Refrigerator	<ul style="list-style-type: none"> • Freezer and Refrigerator combi - model, 500 Liters capacity, 635 x 711 x 1880 mm. 	7
31.	Round Bottom Glass Double Distillation Unit	<ul style="list-style-type: none"> • Glass. • Vacuum distillation. • 1340 x 590 x 700 mm. • Voltage - 220 / 50 Hz. • Frame Material - Stainless Steel. • Receiving Flask - 5 liter. • Condenser - Vertical Condenser. • Temp.Range - 0° - 400° C. 	11
32.	Rotary Vacuum Evaporator	<ul style="list-style-type: none"> • A/C Non sparking geared drive unit. • Support stand fitted with jack arrangement. 	1

		<ul style="list-style-type: none"> Continuously variable speed regulator. Thermostatically controlled water bath. Double coil glass condenser. Evaporating flask cap - 1000 ml. 	
33.	Salinometer	<ul style="list-style-type: none"> Generic 0 - 50 percent Salinity. With Refractometer. Concentration Detection Salinometer. LED Display. 	1
34.	Shaker Incubator	<ul style="list-style-type: none"> Temperature range from room temperature to 100°C. Temp. Controlled by Thermostat. Double walled, inner wall made of Stainless steel. Oscillation tray riding on ball rollers. Shaking speed range 40 to 140 rpm. 	5
35.	Spectrophotometer	<ul style="list-style-type: none"> Range - 340 - 1020 nm. Percentage transmission. Absorbance & K-factor measurement. LED 3 digit display for data. Sample holder accommodating glass cuvettes of 10 to 50 mm path length. 	9
36.	Tissue Homogenizer	<ul style="list-style-type: none"> Power - 900 W. Maximum loading - 600 ml. Clamp to hold 6 x 50 ml vials. Front loading tube holder position. Optimum sample interaction processing. LED Display. 	5

37.	Trinocular Microscope	<ul style="list-style-type: none"> • Illumination System: 6 V 20 W halogen lamp. • Observation tube: Trinocular observation tube (inclination 45). • Diopter adjustment on the left. • Eyepiece (10x) : CWHK 10x (LB eyepiece 10x), F.N 18mm, anti-fungus (x2). 	13
38.	Microscope Research	<ul style="list-style-type: none"> • 40x to 400x magnification (up to 1600x with digital zoom) and 4.3" LCD touch screen. • 5 MP CMOS built-in digital camera and 4 fully achromatic objective lenses: 4x, 10x, 20x, 40x. • Adjustable LED bottom illumination and 180 degree rotatable LCD screen. • Fully mechanical stage. • Coarse and fine focus knobs. 	5
39.	Turbidity Meter	<ul style="list-style-type: none"> • 0-1000 NTU in 4 Ranges (Automatic). • LED source. • Detector Photodiode. • 2 line 16 ch.LCD display. • Calibration & Data stored in Memory. • Printer Port. • 160 x 200 x 100 mm. • 1.5 Kg. • Flat Bottom Test tubes. 	2
40.	Vortex Mixer	<ul style="list-style-type: none"> • Liquid container with spiral plate. • Blending speed by human pressure size adjustment. • 0 – 2500 rpm • Step less speed regulation. 	3

41.	Water Analyser	<ul style="list-style-type: none">• Storage memory for 1000 samples.• Computer and Printer attachment facility.• User friendly and menu driven software.• Parameter: Turbidity / pH / Conductivity / TDS / ORP / DO / Temp.	8
42.	Water Bath	<ul style="list-style-type: none">• Stainless Steel inner chamber size 300 x 300 x 175 mm / 4 racks.• Sturdy construction.	9

8. STATEMENTS AND DECLARATIONS

ANNEXURE – V

PROFILE OF THE TENDERER

The Tenderer shall furnish the following details without fail.

- a) Name of the Organization :
- b) Nature of the Organization :
(i.e. Public Sector Undertaking / Public Ltd / Private Ltd Company)
- c) Number and Year of Registration / Incorporation :
- d) Address of the Registered Office of the Company / Firm with phone, Fax, and Email ID. :
- e) Manufacturer or Dealer :
(Proof for manufacturer from the competent authority or authorization letter from the manufacturer in case of Dealer shall be enclosed)
- f) Audited annual report for the last three financial years :
(copy of the same along with Technical Bid shall be enclosed)
- g) A copy of PAN card attested by the company secretary or Director or the Auditor shall be enclosed.

Note: The Tenderer shall enclose documentary proof for the above without fail.

ANNEXURE – VI**ANNUAL TURNOVER STATEMENT FOR TENDERER**

The annual turnover of M/s.....for the past three financial years are given below and certified that the statement is true and correct.

Sl No.	Years	Turnover in lakhs (Rs.)
1.	2014-2015	
2.	2015-2016	
3.	2016-2017	

Date:

Seal:

**Signature of the Tenderer
with seal**

**Signature of The Auditor /
Chartered Accountant
(Name in Capital with
Registration Number)**

ANNEXURE – VII**STATEMENT OF SUPPLY ORDERS EXECUTED DURING THE PAST
THREE YEARS****(To be filled in by the tenderer)**

Sl No.	Name & Address of the Organisation	P.O.No. & Date	Qty	Value of order in Rs.Lakhs	Scheduled Date of completion of order	Actual Date of Completion of order
1	2	3	4	5	6	7

COMPANY SEAL**SIGNATURE : _____****DESIGNATION : _____****COMPANY : _____****DATE : _____**

ANNEXURE – VIII

FORMAT OF AUTHORISATION LETTER

To

The Director,

Directorate of Collegiate Education,

D.P.I. Campus, College Road,

Chennai -600 006

We hereby irrevocably authorize_____ (type the Name and Address of the Bidder) to submit a Bid and subsequently negotiate and sign the contract with the Directorate of Collegiate Education relating to Tender Ref. R.C.No.23318/N1/2012

Signature of the Proprietor / Partner

Place:

Date :

Note: Signature of the Authorized person should be attested.

ANNEXURE – IX

DECLARATION

I / Wehaving the registered office at
..... hereby declare that the Firm /
Company or its Partners / Shareholders have not been blacklisted by the Directorate of
Collegiate Education or any Undertaking / Corporation / Board of the Central / State
Government.

Signature of the Tenderer
with Seal

ANNEXURE – X

DECLARATION FORM

I / Wehaving the registered office atdeclare that I / We have carefully read all the terms and conditions of Tender floated by the Tamil Nadu Directorate of Collegiate Education, Chennai vide Tender Ref.No.23318/N1/2012 for the Procurement of Science Lab Equipments to 62 Government Arts and Science Colleges strictly conforming to the specification as given in the Tender Document and I / We shall abide by all the conditions set forth therein. I / We also undertake to take back the rejected defective equipment / instrument at our risk & cost replace the same within the stipulated time.

Signature of the Tenderer
with Seal

ANNEXURE – XI

CERTIFICATE

It is certified that I / We have offered to supply all the four Subject Equipments (Annexure I – IV) within a period of 45 days.

Signature of the Tenderer
with Seal

ANNEXURE – XII

CERTIFICATE

I / We having office atdeclare that the tender forms downloaded from the websites www.tndce.in and www.tenders.gov.in have not been tampered with / modified in any manner. In case, if the same is found to be tampered with / modified, my / our Tender shall be summarily rejected.

Signature of the Tenderer
with Seal

BANK GUARANTEE FOR SECURITY DEPOSIT

To: _____ [name of Employer]
 _____[address of Employer]

WHEREAS _____[name and address of Contractor] (hereinafter called “ the Contractor “) has undertaken, in pursuance of Tender No. _____dated _____ to execute _____
 [name of Contract and brief description of Works] (hereinafter called “the Contract”);

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

AND THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ [amount of guarantee] _____ [in words], such sum being payable in the types and proportion of currencies in which the Contract Price is payable , and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____[amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 6 Calendar months from the date of issue of certificate of completion.

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____

An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract including additional security for unbalanced Bids, if any and denominated in Indian Rupees.

ANNEXURE – XIII

AGREEMENT FORM

(To be filled by the tenderer in a non – judicial stamp paper of value not less than Rs.20/-)

THIS AGREEMENT made theday of 20
.....between

(Name and Address of the Purchaser) represented by the Director of Collegiate Education

(hereinafter “ the purchaser “) of one part and (Name and Address of the Supplier)

..... (hereinafter “ the Supplier “) represented by
.....

(Name of the Authorized Signatory and Designation), Aged.....years, residing at
.....

..... (Full Residential Address of the Signatory) of the other
part:

WHEREAS the purchaser is desirous that certain Goods and ancillary services should be provided by the Supplier, viz .,

(Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of (Contract Price in Words and Figures) (hereinafter “ the Contract Price”)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.
 - (a) the Bid Form and Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract
 - (e) the Special Conditions of Contract ; and
 - (f) the purchaser's Notification of Award
3. In consideration of the payments to be made by the purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

BRIEF PARTICULARS OF THE GOODS AND SERVICES WHICH SHALL BE SUPPORTED / PROVIDED BY THE SUPPLIER :

Delivery schedule:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the said (For the purchaser)
in the presence of

Signed, Sealed and Delivered by the

Said (For the Supplier) (Signature, Name,
Designation and Address with Office Seal)

In the presence of

1) (Signature, Name and Address of witness)

2) (Signature, Name and Address of witness)

PART – B**10. PRICE BID****(TO BE FURNISHED IN PART – B COVER)****RATES OFFERED FOR SCIENCE LAB EQUIPMENTS AS PER SPECIFICATIONS**

Name of the Equipments	Quantity Offered Nos.	UNIT PRICE		(GST)% Percentage	Unit Price Rs.P. (inclusive of all)
		Ex-Works Price Rs.P.	Freight & Insurance Charges Rs. P		
1	2	3	4	5	6

SIGNATURE

DESIGNATION
WITH COMPANY SEAL

DATE :

PRICE BID**SCIENCE LAB EQUIPMENTS
PHYSICS**

Sl. No.	Name of the Item	Quantity Required Tentatively	Rate per unit in Rs.P	Amount in Rs.P
1.	Transistor Power Supply with Digital Display	32		
2.	Digital Balance	57		
3.	Travelling Microscope	48		
4.	CRO Dual Trace	32		
5.	Spectrometer	73		
6.	Micro - Processor 8085	32		
7.	Hot Plate	16		
8.	Transistor Power Supply with digital display(Dual)	41		
9.	Youngs' Modulus Elliptic/hyperbolic - Co-ordinate Microscope Sodium lamp, Lens Weight Hanger	41		
10.	CRO Digital Display	41		
11.	Micro Controller 8051 Kit	41		
12.	Function generator/ Audio Frequency Oscillator	73		
13.	He-Ne laser with Optical Bench - grating holder and accessories for particle size determination	41		
14.	Four Probe Apparatus	41		

PRICE BID

SCIENCE LAB EQUIPMENTS CHEMISTRY				
Sl.No.	Name of the Articles & Description	Quantity Required Tentatively	Rate per unit in Rs.P	Amount in Rs.P
1.	Potentiometer (Digital)	122		
2.	Conductivity Meter (Digital) with Cell	137		
3.	Electrical Centrifuge	56		
4.	Digital Photocolorimeter	41		
5.	Hot Plate with Magnetic Stirrer	29		
6.	Digital Electronic Balance (4 Digit)	51		
7.	Digital Electronic Balance (3 Digit)	11		
8.	Digital Control Hot air oven	29		
9.	Vacuum Pump (8 taps) 1Hp motor - Single Phase	41		
10.	Digital Automatic Thermostat	17		
11.	Ice Maker	9		
12.	pH Meter	20		
13.	Refrigerator with Stabilizer	10		
14.	Electric Bunsen	50		
15.	Electrical Waterbath	25		
16.	Flame Photometer	2		
17.	Melting Point Apparatus (Digital)	10		

PRICE BID

**SCIENCE LAB EQUIPMENTS
BOTANY**

Sl.No.	Name of the Articles & Description	Quantity Required Tentatively	Rate per unit in Rs.P	Amount in Rs.P
1.	Student Compound Microscope 10 x , 45 x 100 x (Objective) 5 x , 10 x (Eye Piece)	291		
2.	Colorimeter	16		
3.	Autoclave	40		
4.	Laboratory Refrigerator (500 Ltrs)	45		
5.	LCD Projector	40		
6.	Digital pH Meter	44		
7.	Waterbath S.S. 6 holes	17		
8.	Dissection Microscope	142		
9.	Microwave Oven	40		
10.	Digital Spectrophotometer Visible	30		
11.	Variable Pipette 20 μ L - 200 μ L	21		
12.	Variable Pipette 100 μ L - 1000 μ L	21		
13.	Poly Acrylamide Gel Electrophoresis Unit with power pack	23		
14.	Hot Plate	16		
15.	Polymerase Chain Reaction Thermo Cyclor	2		
16.	Trinocular Microscope With Camera	5		
17.	Flame Photometer	2		
18.	Laminar Air Flow Chamber 3'X3'	3		

PRICE BID

**SCIENCE LAB EQUIPMENTS
ZOOLOGY**

Sl. No.	Name of the Articles & Description	Quantity Required Tentatively	Rate per unit in Rs.P	Amount in Rs.P
1.	Analytical Centrifuge	8		
2.	Autoclave	9		
3.	Bacteriological Incubator	3		
4.	Binocular Dissection Microscope	120		
5.	BOD Incubator	3		
6.	Colorimeter	8		
7.	Conductivity Meter	1		
8.	Refrigerated Centrifuge	9		
9.	Deep Freezer	12		
10.	Digital Balance (0.001 Accuracy)	30		
11.	Digital Camera with Stand	9		
12.	Digital Colony Counter	4		
13.	Dissolved Oxygen Meter	1		
14.	Egg Incubator	11		
15.	Electric Bunsen Burner	38		
16.	Electrophoresis	7		
17.	Flame Photometer	5		
18.	Haemocytometer	35		
19.	Haemoglobinometer Digital	4		
20.	Heating Mantle	17		
21.	Hot Air Oven	6		

Sl. No.	Name of the Articles & Description	Quantity Required Tentatively	Rate per unit in Rs.P	Amount in Rs.P
22.	Hot Plate	1		
23.	Laminar Air Flow	3		
24.	Magnetic Stirrer	2		
25.	Micro Centrifuge	3		
26.	pH Meter	6		
27.	Students Microscope with LED	345		
28.	Microtome	3		
29.	Muffle Furnace	3		
30.	Double Door Refrigerator	7		
31.	Round Bottom Glass Double Distillation Unit	11		
32.	Rotary Vacuum Evaporator	1		
33.	Salinometer	1		
34.	Shaker Incubator	5		
35.	Spectrophotometer	9		
36.	Tissue Homogenizer	5		
37.	Trinocular Microscope	13		
38.	Microscope Research	5		
39.	Turbidity Meter	2		
40.	Vortex Mixer	3		
41.	Water Analyser	8		
42.	Water Bath	9		