GOVERNMENT OF ARUNACHAL PRADESH
DIRECTORATE OF HIGHER AND TECHNICAL EDUCATION
ITANAGAR
0360-2214416, 2211717(fax)
Website:- www.apdhte.nic.in
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TENDER DOCUMENT
FOR SUPPLY, INSTALLATION AND COMMISSIONING OF LABORATORY, WORKSHOP, CLASSROOM AND LIBRARY ITEMS
(OPEN TENDER IN TWO BIDS System)

No. DHTE/NIT/01/2013-14

To be submitted
to
THE DIRECTOR
HIGHER AND TECHNICAL EDUCATION
GOVERNMENT OF ARUNACHAL PRADESH
ITANAGAR

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GOVERNMENT OF ARUNACHAL PRADESH
DIRECTORATE OF HIGHER AND TECHNICAL EDUCATION
ITANAGAR

NOTICE INVITING TENDER

REF NO. DHTE/NIT/01/2013-14 Dated: Itanagar the 19th June'2014

Sealed tenders in two bids system are invited from reputed manufacturers or their authorized dealers for supply, installation and commissioning of laboratory, workshop, classroom and library items in the various Polytechnics of the State. The detailed tender document can be downloaded from the website www.apdhte.nic.in. Filled in tenders are to be submitted in the office of the undersigned within **03rd July'2014**.

The undersigned reserves the right to accept or reject any or all of the tenders without assigning any reason whatsoever.

(Dr. Joram Begi)
Director

INVITATION FOR BIDS

1. The Government of Arunachal Pradesh has approved setting up of Polytechnics in the following places under the Prime Minister's Mission on Skill Development with the programmes and annual intake as detailed below:

Sl. No.	Location of Polytechnics	Diploma Engineering Programmes	Annual intake
1.	Dirang in West Kameng District	Civil, Mechanical and Electrical	90 in each Polytechnic (30 in each programme)
2.	Laying in Kurung Kumey District	Civil, Mechanical and Electrical	
3.	Pasighat in East Siang District	Civil, Mechanical and Computer Science & Engineering	
4.	Namsai in Lohit District	Civil, Mechanical and Electrical	
5.	Roing in Dibang Valley District	Civil, Mechanical and Computer Science & Engineering	

The academic session in these Polytechnics are likely to start from July'2014.

2. Accordingly the Directorate of Higher and Technical Education, Government of Arunachal Pradesh (hereafter referred to as the Directorate) has decided to procure new items for establishing some of the laboratories and workshop in these 5 (five) Polytechnics through the current tender. It may later on be extended to other Polytechnics also.

3. The tender is divided into five packages as detailed below:

Sl. No.	Particulars	Quantity	Earnest Money Deposit (Rs.)
01.	**Chemistry Laboratory**	**One Package**	a) 2.00 (Two)lakhs
02.	**Physics Laboratory**	**One Package**	b) 2.00 (Two)lakhs
03.	**Furniture & Fixtures**	**One Package**	c) 2.00 (Two) lakhs
04.	**Computer Laboratory**	**One Package**	d) 4.00 (Four)lakhs
05.	**Workshop**	**One Package**	e) 4.00 (Four)lakhs

4. The bids are required to be submitted in **two parts for each of the package(s)**. One part is the Technical Bid and the other part is the Financial Bid. A bidder can bid for any one of the package or some or all of the packages. Accordingly the Earnest Money is to be deposited packagewise.

5. Evaluation of the bid will be made packagewise. A bidder has to quote for all the items in a package. **Bidders who do not quote for all the items are liable to be disqualified.**

6. The schedule of events and other details of the tender are as follows:

Sl. No.	Particulars	Details
i.	**Last Date and time of submission of Bids**	**1430 hrs of 3rd July' 2014**
ii.	**Venue, Date and time of opening of Bids**	**1500 hrs of 3rd July' 2014** **Director's Chamber,** Directorate of Higher & Technical Education, Itanagar
iii.	**Last Date for seeking clarifications, if any**	**1st July'2014**

iv.	**Bid validity**	**180 days from the date of opening of the Bid**
v.	**Earnest Money Deposit**	**As at Sl. No. 3**
vi.	**Contact Details**	**Dr. Joram Begi,** Director (Higher and Technical Education), Government of Arunachal Pradesh, Itanagar Ph No. 0360-2214416

7. Minimum Eligibility Criteria

A. The bidder should be Original Manufacturer having valid ISO/ISI certification or their authorized dealers having sufficient expertise and experience in the subject matter of the tender, having sound financial background and reliable warranty / service support capability to take total responsibility in execution of the contract in the Polytechnics located in various places of Arunachal Pradesh.

B. The average annual turnover of the bidder during the last three financial years should not be less than Rs. 1.00 crores for Packages at Sl. No. 01, 02 and 03 and Rs. 2.00 Crores for Packages at Sl. No. 04 and 05. The bidder should have earned profit for at least 2 years out of the last three financial years as evidenced from the Balance-Sheet of the Company.

C. The bidder should have experience of executing at least 1(One) Single Work Order for supply, installation and commissioning of similar instruments/apparatus/equipments of value not below Rs. 50.00 (Fifty) Lakhs for Packages at Sl. No. 01, 02 and 03 and Rs. 1.0 (One) Crore for Packages at Sl. No. 04 and 05 successfully during the last 3(Three) Financial Years. Self attested copy of the Purchase Order and/or Performance Report issued by the organization should be attached invariably along with the Technical Bid.

D. Bidders who do not meet the criteria or who have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance of not properly completing earlier contracts, inordinate delays in completion or financial failure, etc. are subject to be disqualified.

E. Any additional bid participation criteria / eligibility conditions etc. mentioned in the Technical Specifications sheet will also form part of the Qualification Requirements along with those mentioned above.

8. Queries and Amendment to the Bidding Document:

Any query regarding the tender document and discrepancies, if any, shall be directed to the Director in writing, minimum 3 days prior to the due date of submission of the tender. The Tender Issuing Authority will issue all clarifications, interpretations, meanings and specific directions, if any, in duplicate in writing to all the bidders. **One copy of these shall be duly signed (with seal) and submitted by the bidders along-with the bids.**

Further, at any time prior to the deadline for submission of Bids, the Directorate, for any reason may modify the bidding document, by amendment which shall be posted in the web-site of the Directorate.

INSTRUCTIONS TO BIDDERS

The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all required information and documents may result in the rejection of a bid and will be at the bidder's risk.

A. PREPARATION OF BIDS

1. Language of Bid

The Bid and all correspondence and documents relating to the bid exchanged by the bidder and the Directorate shall be written in English language, provided that any printed literature furnished by the bidder may be written in another language but it is to be accompanied by an English translation of its pertinent page(s) duly signed and verified as true English translation. The responsibility for the correctness of the translation will be solely and completely on the bidder and the Directorate shall not be responsible for any loss/likely loss due to error in translation whatsoever. In such cases, for the purpose of interpretation of the bid, the English translation shall only prevail.

2. Documents Comprising the Bid

The bid is required to be submitted in **two parts**. One part is the Technical Bid and the other part is the Financial Bid.

2.1 The Technical Bid prepared by the Bidder shall include the following without indicating the price in the Bid Form:

(i) Documents to establish Bidder's eligibility and qualification (As per ANNEXURE-I)
(ii)Declaration in the letter head of the bidder (As per ANNEXURE II)
(ii) Bid Security/Earnest Money Deposit as specified in the Invitation For Bids (IFB).
(iii) Authorization from all major manufacturers (As per ANNEXURE III)
(iv) Bidder's Performance Statement Form (As per ANNEXURE IV)
(v) Service Support Details Form (As per ANNEXURE V)
(vi) Technical Compliance Statement Form (As per ANNEXURE VI)

The Technical Compliance Statement Form should be filled in point by point by the bidder in compliance of the technical specifications. Any deviations should be clearly brought out in the bid.

2.2 The Financial Bid shall be submitted in the Format at Annexure-VII.

3. Bid Prices

The Bidder shall indicate the item wise unit prices and total bid prices of the goods in the Financial bid.

3.1 Prices indicated shall be entered separately in the following manner:

i) **Rate:** The rate should be quoted on **FOR** basis inclusive of all like packing, forwarding, insurance, freight, installation and commissioning charges, training of staff etc.
(ii) **Taxes:** The applicable taxes viz. VAT, CST, Service tax, Entry tax etc. should be mentioned separately.
(iii) No 'Form C' or 'Form D' shall be issued.
(iv) No other charges except those mentioned clearly in the bid will be paid.

3.2 Prices quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non - responsive and rejected.

4. Bid Currency

Prices shall be quoted in Indian Rupees only

5. Documents Establishing Bidder's Eligibility and Qualifications

The bidder shall furnish, as part of its technical bid, documents, establishing the bidders' eligibility to bid as per the minimum eligibility criteria and its qualifications to perform the contract if its bid is accepted.

6. Documents Establishing Goods' Conformity to Bid Document.

6.1 It must be ensured that the offers are strictly as per the given specifications. The documentary evidence of conformity of the goods and services to the Bid Document in the form of manual, leaflet, literature, drawings and data, should be submitted alongwith the Technical Bid.

The literature thus submitted should give a detailed description of the essential technical and performance characteristics of the goods.

6.2 The Bidder shall note that the standards for workmanship, material and equipment, and references to brand names or Catalogue numbers designated by the Directorate in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the Directorate's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications. Technically unsuitable offers, offers not confirming to tender schedule shall be rejected.

7 Bid Security/Earnest Money Deposit:

7.1 The Bidder shall furnish, as part of its bid, a bid Security/Earnest Money for an amount as specified in the Invitation For Bids. The bid security is required to protect the Directorate against the risk of Bidder's conduct, which would warrant the security's forfeiture.

7.2 The bid security shall be in Indian Rupees and shall be in the following forms:

(i) A Banker's Cheque or (ii) Demand Draft

drawn in favour of "the Director, Higher and Technical Education, Government of Arunachal Pradesh" payable at Itanagar.

7.3 Any bid not secured in accordance with Clause 7.2 above will be rejected as non-responsive.

7.4 Unsuccessful bidder's bid security will be discharged/returned as promptly as possible.

7.5 The successful bidder's bid security will be discharged upon the Bidder furnishing the performance security.

7.6 The bid security may be forfeited:

(i) If a bidder withdraws its bid during the period of bid validity or

(ii) If the successful bidder fails to furnish Order Acceptance and Performance Security in the prescribed format (Annexure VIII) within 15 days of issue of the supply order.

8. Period of Validity of Bids.

8.1 Bids shall remain valid for a period of 180 days after the date of bid opening prescribed. A bid offered for a shorter period may be rejected as non- responsive.

8.2 In exceptional circumstances, the Directorate may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing by cable, telex, fax or e mail.

9. Format and Signing of Bid

9.1 The Bidder shall submit the bids in two separate envelopes. One envelope shall contain **Technical Bid** and the other shall contain the **Financial Bid**.

9.2 The original and all copies of the bid shall be typed or written in indelible ink and all the pages shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract, except for un-amended printed literature.

9.3 Any interlineations, erasures or overwriting shall be valid only if the persons or persons signing the bid authenticate them.

B. SUBMISSION OF BIDS

10. Sealing and Marking of Bids

10.1 The bidder shall seal the Technical Bid and the Financial Bid in two separate envelops duly marked as "Technical Bid for _____(Package Sl No. ____)" and "Financial Bid for _____(Package Sl No. ____)" respectively. Both the envelopes shall then be sealed in one outer (main) envelope. **One outer envelope should contain bids for one package only.**

10.2 The **inner and outer envelopes shall**:

(i) Be addressed to " **The Director, Higher and Technical Education, Government of Arunachal Pradesh, Itanagar."**

(ii) Bear the Particulars, Reference No., Last Date For Submission of Tender, Date of Opening of Tender , Firm's Name & Address and a statement "Do not open before _____(time) hrs on _____(Date)." as per the IFB details.

10.3 If the outer envelope is not sealed and marked as required in Clause 10.2, the Directorate will assume no responsibility for the bid's misplacement or premature opening.

10.4 Bids sent by Telex, Cable, Fax or e-mail will be rejected outright.

11. Deadline for Submission of Bids

11.1 Bids must be received at the address specified under Clause 10.2 no later than the time and date specified in the Invitation For Bids. In the event of the specified date for the submission of Bids being declared a holiday for the Directorate, the Bids will be received upto the appointed time on the next working day.

11.2 The Directorate may, at its discretion, extend this deadline for submission of bids by amending the bid documents, in which case all rights and obligations of the Directorate and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

12. Late Bids

Any bid received by the Directorate after the deadline for submission of bids prescribed by it, pursuant to Clause 11, will be rejected outright.

C. OPENING AND EVALUATION OF BIDS

13. Opening of Bids

13.1 The Directorate will open all Technical Bids, in the presence of Bidders' representative(s) who choose to attend, as per the schedule given in Invitation For Bids.

13.2 The Bidders' representatives who are present shall sign the bid-opening sheet evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for the Directorate, the Bids shall be opened at the appointed time and location on the next working day.

13.3 The bidders' names, bid modifications or withdrawals, specifications, and the presence or absence of requisite bid security and such other details as the Directorate, at its discretion, may consider appropriate, will be announced at the time of opening. No bid shall be rejected at bid opening, except for late bid.

13.4 If in response to TWO BID enquiry, a single combined bid is submitted, it will be rejected outright. Similarly if 'FINANCIAL BID' has been found enclosed in the envelope marked 'TECHNICAL BID' the same shall also be rejected summarily.

14. Clarification of Bids

To assist in the examination, evaluation and comparison of bids, the Directorate may, at its discretion ask the bidder for any clarification(s) of its bid. The request for clarification and the response shall be in writing and no change in the price substance of the bid shall be sought, offered or permitted. However no post Bid clarifications at the initiative of the Bidder shall be entertained.

15. Evaluation & Comparison of Bids

15.1 The bids shall first be evaluated for their **"Technical Responsiveness"** which shall inter-alia include:

(i) Proof that the bidder is either manufacturer or an authorized dealer for items for which the bid is submitted and meets the minimum eligibility criteria

(ii) Compliance to technical specifications of the machinery/equipment for which the bid is submitted.

(iii) Details regarding the service support

(iv) Bidder's performance during the last 3 Financial Years

(v) Compliance to all other relevant terms and conditions of the tender.

If any of the above mentioned parameters are not fulfilled, the bid shall be considered as Technically non-Responsive and accordingly rejected.

15.2 All those Bidders whose Technical Bid has been found in order would be shortlisted. The Financial Bid of only such shortlisted bidders would be opened.

15.3 The evaluation & comparison shall be made PACKAGEWISE on the basis of the final total landing cost of purchase after all discounts, freight, forwarding, insurance, taxes, commissioning, installation and training of staff etc.

15.4 Conditional tenders/discounts etc. shall not be accepted.

15.5 Arithmetical errors in the priced bids will be rectified on the following basis:

If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its bid will be rejected.

16. Contacting the Directorate

16.1 No Bidder shall contact or attempt to contact the Directorate or anyone related to it on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the Directorate, the same should be done in writing.

16.2 Any effort by a Bidder to influence the Directorate in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

17. Post Qualification

17.1 In the absence of pre-qualification, the Directorate will determine to its satisfaction that the Bidder who is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily, in accordance with the criteria listed in **Invitation For Bid.**

17.2 The determination will take into account the Bidder's financial, technical, supply and support service capabilities. It will be based upon examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder as well as such other information as the Directorate deems necessary and appropriate.

17.3 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

18. Award Criteria

The Directorate will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder has been determined to be qualified to perform the contract satisfactorily.

19. Directorate's Right to Vary Quantities at the Time of Award

The Directorate reserves the right, at the time of award of contract, to order only some of the items of a package, increase or decrease the quantity of goods or services within the budgetary limit or change in location where goods are to be supplied from what was originally specified while floating the tender without any change in unit price or any other Terms and Conditions.

20. Directorate's Right To Accept Any Bid and To Reject Any or All Bids

The Directorate reserves the right to accept or reject any bid either in full or part, and to annul the bidding process at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the action.

21. Notification of Award

21.1 During the period of bid validity, the Directorate will notify the successful bidder in writing by registered letter or by cable or telex or fax or e mail that the bid has been accepted by way of a Purchase Order.

21.2 Upon the successful Bidder's furnishing of performance security, the Directorate will discharge its bid security to the unsuccessful bidders.

22. Performance Security

22.1 Within 15 days of the receipt of notification of award/purchase order from the Directorate, the successful Bidder shall furnish the performance security, in the Performance Security Form provided in the Invitation For Bid (Annexure VIII) amounting to 10% of the Order value.

22.2 Failure of the successful bidder to accept the order shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security and call for new bids.

23. Warranty

23.1 The Supplier warrants that the Goods supplied under this Bid are new, unused, of the most recent or current models and that, they incorporates all recent improvements in design and materials. The Supplier further warrants that all Goods supplied under this Bid shall have no defect arising from design, materials or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the final destination.

23.2 This warranty shall be **comprehensive** and **on site** for **3 (three) years** from the date of successful installation, commissioning, training and acceptance of the package to the satisfaction of the Directorate.

24. Payment

24.1 The method and conditions of payment to be made to the Supplier under this Contract shall be as per following:

80% payment shall be made against delivery in good condition at site and balance 20% after successful installation, commissioning, training of staff and acceptance of the package to the entire satisfaction of the Directorate.

24.2 The Supplier's request(s) for payment shall be made to the Directorate in writing, accompanied by an invoice describing the Goods delivered and the Services performed. The same has to be duly certified by designated Officer of the Directorate.

25. Prices

Prices charged by the Supplier for Goods delivered and Services performed under the contract shall not vary from the prices quoted by the Supplier in its bid.

GENERAL TERMS AND CONDITIONS

1. The Bidder should deliver the goods within stipulated time in the premises of the institution. The details of the delivery like location, contact person, designation shall be mentioned in the Purchase Order.
2. The Bidder will assume total responsibility in supply, installation and for the fault-free operation and maintenance of the goods during warranty period.
3. The Bidder shall be responsible for acquiring full insurance of the goods under contract to cover all risks (fire, burglary, act of terrorist, natural calamities etc.) valid till the commissioning of the goods. Should any loss or damage occur during this period, it shall be at Suppliers' risk and responsibility.
4. On successful installation, commissioning of the goods and training of the technical personnel, the acceptance certificate signed by the Bidder and the representative of the Directorate shall be issued. The date of such certificate will be deemed to be the date of acceptance of the supply and the WARRANTY of the goods shall start from that date.
5. Intellectual Property Rights:
   In the event of any claim asserted by a third party of infringement of copyright, patent, trademark, industrial design rights, etc arising from the use of these Goods or any part thereof in India, the vendor shall act expeditiously to extinguish such claims. If the vendor fails to comply and the Directorate is required to pay compensation to a third party resulting from such infringement, the vendor shall be responsible for the compensation including all expenses, courts costs, lawyer fees etc.
6. The bidder shall bear all the costs associated with the preparation and submission of its Bid and the Directorate will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the Bidding process.
7. The successful bidder shall not assign to others, in whole or in part, their obligation to perform under the contract, except with the prior written consent of the Directorate.
8. **Applicable Laws:**

8.1 The contract shall be interpreted in accordance with the laws prevalent in India.

8.2 **Compliance with all applicable laws**: The Bidder shall undertake to observe, adhere to, abide by, comply with and notify the Directorate about all laws in force or as made applicable in future, pertaining to or applicable to them, their business, their employees or their obligations towards them and all purposes of this Tender and shall indemnify, keep indemnified, hold harmless, defend and protect the Directorate and its employees/officers/staff/personnel/representatives/agents from any failure or omission on its part to do so and against all claims or demands of liability and all consequences that may occur or arise for any default or failure on its part to conform or comply with the above and all other statutory obligations arising from them.

8.3 **Compliance in obtaining approvals/ permissions/ licenses**: The Bidder shall promptly and timely obtain all such consents, permissions, approvals, licenses, etc., as may be necessary or required for any of the purposes of this bid or for the conduct of their own business under any applicable Law, Government Regulation/Guidelines and shall keep the same valid and in force during the term of the bid, and in the event of any failure or omission to do so, shall indemnify, keep indemnified, hold harmless, defend, protect and fully compensate the Directorate and its employees/ officers/ staff/ personnel/ representatives/agents from and against all claims or demands of liability and all consequences that may occur or arise for any default or failure on its part to conform or comply with the above and all other statutory obligations arising there from and the Directorate will give notice of any such claim or demand of liability within reasonable time to the bidder.

9. **Force majeure:**

If the performance as specified in this order is prevented, restricted, delayed or interfered by reason of fire, explosion, cyclone, floods, war, revolution, acts of public enemies, blockage or embargo, any law, order, proclamation, ordinance, demand or requirements of any Government or authority or representative of any such Government including restrict trade practices or regulations, strikes, shutdowns or labour disputes which are not instigated for the purpose of avoiding obligations herein, or any other circumstances beyond the control of the party affected, then notwithstanding anything here before contained, the party affected shall be excused from its performance to the extent such performance relates to prevention, restriction, delay or interference and provided the party so affected uses its best efforts to remove such cause of non-performance and when removed the party shall continue its sincere performance.

If a Force Majeure situation arises, the Bidder shall promptly notify the Directorate in writing of such condition, the causes thereof and the change that is necessitated due to the conditions. Until and unless otherwise directed by the Directorate in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

10. **Penalty for Default Delivery**

If the vendor fails to deliver the items within the stipulated period, the Directorate will impose a penalty of 5% of the order value for the items late delivered for a delay upto 15 days and after that 1% penalty for each day delay by the bidders.

In case the delay exceeds five weeks, Directorate reserves the right to cancel the order. In such an event vendor will not be entitled to or recover from the Directorate any amount by ways of damages, loss or otherwise. If orders are cancelled due to non delivery, the vendor and/or its agents/distributors will be debarred by the Directorate from participating in any future tenders.

11. **Termination**

The Directorate may at any time terminate the contract by giving written notice to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In this event, termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Directorate.

The Directorate reserves the right to cancel the contract in the event of happening one or more of the following conditions:

- Failure of the successful bidder to accept the contract and furnish the Performance Guarantee within specific period as stated in the Purchase order;
- Delay in offering equipments for pre-delivery Inspection; Delay in delivery beyond the specified period;
- Delay in completing installation / implementation and acceptance tests / checks beyond the specified periods;
- Serious discrepancy in hardware noticed during the pre-dispatch acceptance test.

In addition to the cancellation of purchase contract, the Directorate reserves the right to appropriate the damages through encashment of Performance Guarantee given by the Bidder.

12. **Resolution of Disputes**

It will be the Directorate's endeavor to resolve amicably any disputes or differences that may arise between the Directorate and the vendor from misconstruing the meaning and operation of the Tender and the breach that may result.

In case of Dispute or difference arising between the Directorate and the vendor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The Arbitrators shall be chosen by mutual discussion between the Directorate and the vendor OR in case of disagreement each party may appoint an arbitrator and such arbitrators may appoint an Umpire before entering on the reference. The decision of the Umpire shall be final and binding.

The Bidder shall continue to work under the Contract during the arbitration proceedings unless otherwise directed in writing by the Directorate or unless the matter is such that the work cannot possibly be continued until the decision of the Arbitrator or the umpire, as the case may be, is obtained.

Arbitration proceedings shall be held at Itanagar, Arunachal Pradesh, India and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English;

Notwithstanding anything contained above, in case of dispute, claim & legal action arising out of the contract, the parties shall be subject to the jurisdiction of courts at Itanagar, India only.

Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by fax and confirmed in writing to the other party's specified address. The same has to be acknowledged by the receiver in writing.

A notice shall be effective when delivered or on the notice's effective date, whichever is later.

SPECIAL TERMS & CONDITIONS

01. **Rates:** Rates quoted should be **FOR THE POLYTECHNICS as mentioned in the Invitation For Bids** with the taxes shown separately**.**

02. **Validity of Rates:** Quoted rates must be valid for **180 days** from the date of opening of tender.

03. **Literature a must**: All the tenders must be supported by the printed technical leaflet/literature and the specifications mentioned in the bid must be reflected/ supported by such printed technical leaflet/literature. The model and specifications quoted should **invariably be highlighted** in the leaflet/literature for easy reference.

04. Training of the technical personnel on operation of the equipments/machineries should be invariably conducted to the satisfaction of the Directorate.

05. **Dealership Certificate:** Dealers or Agents quoting on behalf of Manufacturer must enclose valid dealership certificate.

06. **Quality Certificates**: Valid certificate, as mentioned below, must be enclosed.
    (a) Manufacturer's certificate.
    (b) Manufacturer's ISO/ISI certificate.

07. **Delivery Time Limit:** Maximum within 45(forty-five) days from the date of issue of purchase order.

Sd/-
Director
Higher and Technical Education,
Govt. of Arunachal Pradesh
Itanagar

ANNEXURE-I

BIDDER'S DETAILS

FORMAT TO BE FILLED BY THE BIDDER

1. Name of the Bidder :

2. Status of the Bidder :
   (Attach documents to identify whether Manufacturer/Registered company/ Partnership/Proprietorship)
3. Whether dealer? :
   (Attach copy of certificate/authorization)
4. Trading licence No. (enclose photocopy) :

5. Name, Designation and Contact Details of the Bidder :

6. Permanent Account No. (PAN) (attach copy) :
7. Income Tax and/or Service Tax returns of previous three assessment years (attach photocopy) :
8. Turnover of last three years (in Rs.) :
   (Pl attach Annual Report & Balance Sheet/statement of Accounts of past three years duly authenticated by Chartered Accountant)

2011-12	2012-13	2013-14	Average

9. Name and address of bidder's bankers :

10. TAN No. :

11. Sales Tax Registration No. :

12. VAT Registration No. :

13. Latest VAT clearance certificate :

14. Details of Earnest Money Deposit :
    (B.C./D.D. No., Date and issuing Branch)

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

Dated signature & seal of the Authorized Person of the Bidder

ANNEXURE-II

(To be submitted on letterhead of the Bidder)

DECLARATION

1. I, Shri ……Proprietor/Partner/CEO/MD/Director/Authorized Signatory of M/S……..am competent to sign this declaration and execute the bid document.
2. I have carefully read and understood all the terms and conditions and other details and hereby convey my acceptance of the same.
3. The information/documents furnished along with the above application are true and authentic to the best of my knowledge and belief.
4. I/we am/are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
5. Each page of the tender document and papers submitted is authenticated, sealed and signed, and I take full responsibility for the entire documents submitted.
6. I also undertake that until a formal contract is prepared and executed, this bid, alongwith the Directorate's written acceptance thereof and the notification of award shall constitute a binding contract between us.
7. I/We understand that the Directorate is not bound to accept the lowest bid that it may receive and reserves the right to consider or reject any or all of the bids without assigning any reason what-so-ever.
8. I declare that the language of standard clauses etc. mentioned in this 'Bid Document' have not been tampered with / changed / modified in any manner whatsoever after downloading. If any such modification etc. is detected at any stage, the bid shall be rejected immediately and EMD shall also be forfeited.

Signature of the Authorized Person

Date: ……
Place: ……

Full Name: ……...
Ph No.
Fax No.
E-mail address:

Company Seal: …….

ANNEXURE -III

MANUFACTURERS' AUTHORIZATION FORM
(to be enclosed in the Technical Bid)

No. Dated _____

The Director,
Higher and Technical Education,
Govt. of Arunachal Pradesh
Itanagar

Dear Sir:
We……. who are established and reputable manufacturers of ……having factories at _____(address of factory) do hereby certify that M/s…… (Name and address of Agent) is our authorized dealer/agent and we authorize it to submit bids and to sign the contract with you for the goods manufactured by us against the NIT No._____.

We hereby extend our full guarantee and warranty as per Clauses as mentioned in the IFB or General Terms and Conditions of Contract for the goods and services offered by the above firm and manufactured by us.

Yours faithfully,
(Name)
(Name of manufacturers)

Note: This letter of authority should be on the **letterhead of the manufacturer** and should be signed by a person competent and having the power of attorney to bind the manufacturer.

ANNEXURE -IV

BIDDER'S PERFORMANCE STATEMENT FORM
(Major orders executed during the last three years)

N.B. : Self attested copies of Supply Order against supply of similar type of equipments from institutions or Performance Report issued by the Institution(s) against supply and installation be enclosed .

Order placed by(Full address of Purchaser including Contact No. and e-mail address)	Order No. and Date	Description and quantity of ordered equipment	Amount (in Rs.)	Date of Completion of delivery as per contract /Actual	Remarks indicating reasons for late delivery, if any	Has the equipment been installed satisfactorily?

Signature and Seal of the Manufacturer / Bidder

Place:
Date:

ANNEXURE -V

SERVICE SUPPORT DETAILS
(to be enclosed in the Technical bid)

Sl. No	Complete address of the location from which Service support will be extended including the telephone no., fax no. and e-mail address	Type of Service Support (Whether Own or through franchisee)	Details of the technical manpower in Service Support Centre including designation

Place:

Date:

Signature and Seal of the Manufacturer/Bidder

ANNEXURE – VI

01 CHEMISTRY LAB
TECHNICAL COMPLIANCE STATEMENT FORM

An item-by-item commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or deviations and exceptions to the provisions of the Technical Specifications should be given.

Compliance/Deviation statement should also give the page number(s) of the technical literature where the relevant specification is mentioned and the relevant portion should be highlighted / underlined.

(Technical literature/brochures/manuals should be attached along with this format)

Sl. No.	ITEM Parameter	Specifications	Vendors response towards compliance	Deviations (if any)	Page No of the literature
1.	**Digital Programmable Rate Melting Point & Boiling Apparatus- Oil Less** • Display : • Temperature Range: • Resolution : • Rate of Heating: • Sensor: • Hold: • Dimension:	• Digital 12mm LED • Upto 320 degree C • 1 degree C • 0.5, 1,2, & 5 degree C selectable after reaching preset temperature • RTD (PT-100)Temp. Sensor. • Facility to hold Temp. • 190 W x 215 D x 240mm H			
2.	**Bomb Calorimeter Digital** • 0.01 degree C Readout • One no. S.S. Bomb with Crucible, • 3000cc jacketed vessel • Motorized stirrer • Briquette press • Firing Unit • Pressure guage with copper pipe fitting • Digital thermometer				
3.	**Quartz two Stage Distiller with Safety control Unit & Quartz Boiler, Quartz**				

	Condensor • Conductivity : • Output capacity: • Heater Power: • Cooling Water Consumption: • Safety control Unit for above unit,	 • 0.1 to 0.5 µS/cm • 1.0 ltr/hr. • 2 KW • 40 ltr/hr.			
4.	**Micro Controller Based Digital pH/Temperature/mv Meter** • Width 16x2 alpha Numeric LCD Display having auto Temp Compensation along with Accessories pH Electrode • Temp Probe • Electrode Stand • Dust Cover				
5.	**Suction Pump (Motorized)**	• 0.5 HP motor			
6.	**Hot Air Oven** • Capacity:	 • 95 ltrs.			
7.	**Muffle Furnace Rectangular (Laboratory Model)**				
8.	**Digital Weighing Balance** • **Readability:** • **Capacity :**	 • **0.01gm** • **400gm**			
9.	**Redwood Viscometer** • Voltage Variac for better regulating the temp. for determination of Viscosity of Lubricating Oils and fuels • stainless steel jet electrically heated model with energy Regulator (Viscosity Below 2000secs.) **Accessories to be included:** • Thermometer with Calibration Certificate IP 8c • Thermometer with Calibration Certificate IP 9c • Thermometer with Calibration Certificate IP 10c				
10.	**Smoke Point Apparatus**				

	• as per ASTM D 1322				
11.	**Pensky Martenes Flash Point Tester** • digital indicator • Oil jet or gas jet test flame as per ASTM D 9310. Accessories to be included: • Spare Cup with lid for above • Thermometer ASTM 9c with Calibration Certificate • Thermometer ASTM 10 c with Calibration Certificate				
12	**Aniline point apparatus** • motorized stirrer & digital temp. indicator as per IP 2 & IS 1448 (P-3), ASTM D 611 **Accessories :** • Outer Jacket with Cork • Tube with Cork • Brass stirrer inner				
13	**Micro Processor Conductivity/TDS/Temperature Meter**				
14.	**Physical Balance** • Capacity • Resolution • Weight box	• 250gm • 0.2mg			
15.	**Hot Plate**				
16	Conical flask	• 250ml			
17	Conical flask	• 500 ml			
18	Beaker	• 100 ml			
19	Beaker	• 250 ml			
20	Beaker	• 500ml			
21	Beaker	• 1000 ml			
22	Pipette	• 10 ml			
23	Pipette	• 20 ml			
24	Pipette	• 25 ml			
25	Pipette stand	• capacity 28 nos. x 25 ml			
26	Pyknometer with thermometer	• 10 ml			
27	Pyknometer with thermometer	• 25 ml			
28	Reagent bottle	• 250 ml			

29	Reagent bottle	• 500 ml			
30	Regent bottle	• 1000 ml			
31	Reagent bottle	• 2000 ml			
32	Burette	• 50 ml			
33	Burette Stand with clamp				
34	Test Tube (normal)	• 55 ml capacity			
35	Test Tube Stand	• Capacity 20 nos.			
36	Measuring Cylinder	• 100 ml			
37	Measuring Cylinder	• 250 ml			
38	Measuring Cylinder	• 500 ml			
39	Measuring Cylinder	• 1000 ml			
40	Funnel, Diameter	• 100 mm			
41	Bunsen Burner for LPG Connection				
42	Silica Crucible with lid	• 25 ml			
43	Tong	• 6"			
44	Vacuum Desiccators	• 150 mm			
45	Distilled Water Bottle	• Capacity 10 Ltrs.			
46	Distilled Water Bottle	• Capacity 1Ltrs.			
47	Dropper with rubber teat				
48	Tripod Stand				
49	Stirring Rod				
50	Test Tube Holder				
51	Spirit Lamp				
52.	**Chemlab Simulation Software (1+10)Users license** **The following Lab Experiment should be done by the Software :** 1**.** Compare the pH of a buffer solution to a weak acid solution. 2. Perform strong acid base titration and plot titration curve. 3. Determine the atomic weight of magnesium by the amount of hydrogen gas evolved. 4. Examine the precision of three types of balances. 5. Examine the chemical behavior of ionic and covalent bonds. 6. Examine the reaction between cations and anions. 7. Examine the relationship between volume and temperature for gases at constant pressure. 8. Separate crude oil into its components using fractional	• The ChemLab Pro software should include the Lab Wizard tool which enables instructors to run, edit, and create lab simulations while the Standard edition enables students only to run lab simulations. • There should be two types of lab simulation files:- a) User-Defined Lab (UDL) files with a *.udl extension which can be created and edited by users with a Lab Wizard tool (available with Pro edition only)., b) pre-programmed simulation plug-ins with a *.dll extension that cannot be created or edited by users. • The Software should have a tool to			

	distillation. 9.Determine the specific heat of a metal. 10. Examine a simple double replace reaction. 11. Determine the molecular weight of a gas using the ideal gas law. 12. Create electrochemical cells and measure their voltages. 13. Examination of high temperature light emissions. 14. Determine the half life of a radioactive isotope. 15.Measure calcium and magnesium content in water by titration. 16. Determine the Heat of Neutralization for HCl with NaOH. 17. Determine the formula of a hydrate. 18.Determine the percentage of iron in an unknown iron (II) sulfate by redox titration. 19. Determine the salt content of water by titration. 20. Perform weak acid base titration and plot titration curve.	design chemistry lab simulations. It should be capable to translate experiments into ChemLab modules called User Defined Labs (UDL's) by asking one to supply it with documentation, chemical data and reaction formulas. • The Model ChemLab software should come with a range of pre-designed lab experiments for general chemistry at the high school and college level. • The Chem lab Software should be available for Windows 8/7/Vista/XP/ME/98/95, Windows 2000 & NT version 3.51 and higher, and Mac OSX operating systems. • The chem. Lab Software should be capable to run on a Network environment. • The Software should be capable to download upgrades as & when required			

Signature with seal……

ANNEXURE – VI

02 PHYSICS LAB

TECHNICAL COMPLIANCE STATEMENT FORM

An item-by-item commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or deviations and exceptions to the provisions of the Technical Specifications should be given.

Compliance/Deviation statement should also give the page number(s) of the technical literature where the relevant specification is mentioned and the relevant portion should be highlighted / underlined.

(Technical literature/brochures/manuals should be attached along with this format)

Sl. No.	ITEM Parameter	Specifications	Vendors response towards compliance	Deviations (if any)	Page No. of the Literature
1	Vernier Caliper (Precision)	0-50mm, least Count- 0.02mm			
2	Micrometer	(0-50mm) Least Count 1/100mm			
3	Spherometer	Least count 1/100mm			
4	Specific Gravity Bottle	50ml			
5	Physical Balance	Capacity 200gm, Sensitivity 1mg.			
6	Weight Box	Set of weights 1mg to 100 gms			
7	Simple Pendulum				
8	Measuring Tape	5m			
9	Stop Watch (Digital)	Digit Size 7 mm			
10	Boyles Law Apparatus & Gauge				
11	Resonance Apparatus Simple Brass	Set up for performing experiment on resonance			
12	Tunning Fork for resonance apparatus				
13	Spirit Level	Length 150mm long, made of Plastic			
14	Glass Slab(with needles)	Size 125x65 mm			
15	Drawing Board	40 x 40 cm			
16	Optical Bench Hexagonal Section	Length 1.5m			
17	Mirror Concave	Diameter 50 mm, FL 50, 75, 100 mm			
18	Mirror Convex	Diameter 50 mm, FL 50, 75, 100 mm			
19	Lens in Holder Double Concave	Dia- 50mm, FL-50mm			
20	Lens in Holder Double Convex	Dia-50 mm, FL-75mm			
21	Bar Magnet	Size 100x11x6mm approx, Material Alnico			
22	Magenetic Compass in Aluminium Case	Size 18 mm both side transparent			

23	Millivoltmeter DC	Range 0-100 mVolts			
24	Galvanometer DC	Range 35-0-35 mV			
25	Voltmeter DC	Range- 0-10 V			
26	Ammeter DC	Range 0-10AMP			
27	Power Supply	0-12 V, AC/DC			
28	Rheostat, Porcelain Pipe Closed type	Length 25cm, Resistance 10 OHMS, Current 5.7 AMPS			
29	Plug Key	One way			
30	Resistance Box	No. of Coils 8, Range 0.1-5 OHMS, Total Resistance 11			
31	Decade Resistance Box	Range in Units, Tens, Hundreds & Thousand OHMS Total Resistance in 11110 OHMS, Dials 4			
32	Post Office Box with Copper Connection wires				
33	Digital Multimeter	3 ½ digits			
34	Prism Hollow	Size 38mm			
35	Extra Flint Glass Prism	Size 32x32mm			
36	Crown Glass Prism	Size 32x32 mm			
37	Plane Mirrors with base	Size 150x50mm			
38	Thermometer Plastic	0-50 degree C			
39	Aluminium Cylinder	10, 20, 40mm (Dia) of length 40 mm			
40	Aluminium Rectangular Block	10x20x30 cu mm , 15x25x35 cu mm			
41.	**Law of Motion Kit :** Kit should be designed to study the linear motion of the object, elastic collision, Newton's law of motion and recording the path time diagram of linear motion using photo- gates. The runway should be used for all experiments and should be made of superior quality stainless steel having smooth surface with linear grooves for smooth motion of trolley and it should have stainless steel stoppers with rubber sheet at ends. A plastic pulley should be fixed at one end to hang a weight **The Following experiments should be done with this setup:** **1** To find the velocity of an object. **2** To determine the average speed of an object. **3.** To determine the acceleration of a moving object. **4.**To demonstrate the elastic collision.	**The Setup should include the following:** **1. Track for dynamic trolley** Dimension : 119.5 x 10cm (L x W) excluding pulley. Material : Stainless steel Pulley : Plastic, 50mm dia Scale : 0 to 115cm, graduated in mm. Surface : Smooth surface with low friction. **2. Dynamic Trolley** Dimensions : 155 x 77 x 55 mm (Lx W x H) approx. Material : Aluminium. Trigger : Pin press to release plunger. In-elastic collision : Via 2 nos. velcro pad. Stacking : Two or more trolleys			

	5 To demonstrate the law of conservation of energy. **6** To demonstrate the transfer of energy. **7** To plot a graph between velocity and time using picket fence.	with 2 nos. guiding pins Wheels : PVC, 4 nos. low frictions. Weight mount : 4mm socket at center to mount slotted weights Clamping screw : To attach ticker tape or thread. Suspension : Spring loaded. Additional weights : Slotted, 2 nos. 100gm. Weight : 600gm approx. **3. Digital Timer & Photogate** Display : 2 line LCD Type : Micro controller based Time resolution : 0.1 milli second Mode : Time, Speed & Acceleration Photogate : 2 Nos. Interface : USB Operating voltage : 5V DC Photogate detector : Infra-Red **4. Microcontroller based and in-built test functions.** Supplied with a pair of photogate and photogate mounting rod. **5. Boss Head** Object type : Square & round shape Object size : Up-to 13mm dia Material : Aluminium alloy Object can be hold both vertically and horizontly. **6. Accessories Dynamics Trolley:** **Item Name/Pulse Distance/ Socket** 1b picket/Block 10mm /4mm 2b picket./Block 10mm,/2 times 4mm 3b picket. /Block 10mm, /3 times 4mm 10b picket./Block 10mm/10 times 4mm **7. Slotted Masses** Weights : Stainless steel : 9nos. X 10gm Hanger : 10gm, Plastic Total weight : 100g			

Signature with seal……

ANNEXURE – VI

03 FURNITURE AND FIXTURES
TECHNICAL COMPLIANCE STATEMENT FORM

An item-by-item commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or deviations and exceptions to the provisions of the Technical Specifications should be given.

Compliance/Deviation statement should also give the page number(s) of the technical literature where the relevant specification is mentioned and the relevant portion should be highlighted / underlined.

(Technical literature/brochures/manuals should be attached along with this format)

Sl. No.	ITEM Parameter	Specifications (all dimensions in mm)	Vendors response towards compliance	Deviations (if any)	Page No of the literature
1.	Two seater Student Desk and Chair	(i) Desk cum Bench with laminated tops with rounded edge (1100Wx915D x 744H) (ii) Provision for shelf storage (iii) Hooks for hanging bags			
2.	Office Table	Wooden Top, square tube understructure with three drawers (1199Wx590Dx 75H)			
3	Office Table	Wooden Top, square tube understructure with both three and two drawers (1365Wx680Dx 75H)			
4.	Computer Table	600Wx450Dx750H			
5.	Computer Chair with arm	Task Chair with no tilt mechanism, metal pedestal			
6.	Plain Almirah	1980Hx915Wx485D			
7.	Visitors Chair	Best quality			
8.	Book Rack with Glass Door	(i) 4 (four) doors (ii) 914Wx320Dx1742H			
9.	High Back Executive Chair				
10.	Mid Back Executive Chair				
11.	Armless slim chair for students				
12.	Library Reading Table	1220Bx2440L			

Signature with seal……

ANNEXURE – VI

04 COMPUTER LAB
TECHNICAL COMPLIANCE STATEMENT FORM

An item-by-item commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or deviations and exceptions to the provisions of the Technical Specifications should be given.

Compliance/Deviation statement should also give the page number(s) of the technical literature where the relevant specification is mentioned and the relevant portion should be highlighted / underlined.

(Technical literature/brochures/manuals should be attached along with this format)

Sl. No.	Items Parameter	Specifications	Vendors response towards compliance	Deviations (if any)	Page No of the literature
1.	**Desktop Computer**				
	• Processor:	• Intel Corei3-3220 (third generation), 3.0 GHz, 6 MB Cache, 4 Cores or higher			
	• Motherboard:	• Intel H61 chipset based motherboard express or higher			
	• Memory slot	• 2 GB 1333MHz DDR3			
	• Hard Drive:	• 500 GB 7200 rpm Serial ATA HDD or higher			
	• DVD writer:				
	• Audio:	• Realtek High Definition integrated audio			
	• Video Controller:	• Intel HD graphics on board			
	• Keyboard:	• USB or PS/2 Standard Keyboard 104 keys			
	• Mouse:	• USB or PS/2 Optical mouse			
	• Ports:	• 4 USB ports, 1 serial, 1 parallel			
	• LAN connection:	• 10/100/1000 Mbps Ethernet Card integrated			
	• Cabinet:	• Mini- tower			
	• Monitor:	• 18.5” wide screen flat panel LCD/LED monitor with Analog and DVI input			
	• Warranty & Support:	• 3 years onsite standard warranty with next business day support			
	• Operating System:	• Microsoft Windows 8 Professional (64 bit			

	• Antivirus:	version) (Preloaded) • Macfee/Norton Internet Security with upgrades/updates for 36 months.			
2.	**Desktop Computer** • Processor: • Motherboard: • Memory slot • Hard Drive: • DVD writer: • Audio: • Web Camera • Video Controller: • Keyboard: • Mouse: • Ports: • LAN connection: • Cabinet: • Monitor: • Warranty & Support: • Operating System: • Antivirus:	• Intel Corei3-3220 (third generation), 3.0 GHz, 6 MB Cache, 4 Cores or higher • Intel H61 chipset based motherboard express or higher • 2 GB 1333MHz DDR3 • 500 GB 7200 rpm Serial ATA HDD or higher • Realtek High Definition integrated audio • Head phone with mic • Logitech • Nvidia GeForce Videocard with 2 GB RAM and VGA, DVI and HDMI interface • USB or PS/2 Standard Keyboard 104 keys • USB or PS/2 Optical mouse • 4 USB ports, 1 serial, 1 parallel • 10/100/1000 Mbps Ethernet Card integrated • Mini- tower • 18.5" wide screen flat panel LCD/LED monitor with Analog and DVI input • 3 years onsite standard warranty with next business day support • Microsoft Windows 8 Professional (64 bit version) (Preloaded) • Macfee/Norton Internet Security with upgrades/updates for 36 months.			

3.	LCD Projector with Screen:	• 3000 lums • 500 hrs lamp life with LAN connectivity including ceiling mounting			
4.	Server (alongwith racks): • Processor family • Number of Processors • Processor core available • Maximum memory • Memory Slots • Memory type • Expansion slots • Network controller • Maximum Drive Bays • Storage Controller • Form Factor • Management • Warranty & Support: • Operating System:	• Intel® Xeon® E5-2400 product family • 2 or more • 6 or higher • 192 GB • 12 DIMM slots • DDR3 RDIMM OR UDIMM • 6 • 1GB 361i Ethernet Adapter, 2 ports per controller • 4, LFF SATA or 18 LFF SAS/SATA/SSD or 24 SFF SAS/SATA/SSD • Dynamic Smart Array B120i or smart array P420i • 5U, fully configured • iLO management Engine, insight control • 3 years onsite standard warranty with next business day support • MS Windows 2008 Server Standard R2 64Bit single OLP NL (Academic). • Windows Server 2008 SNGL OLP NL(Academic) UsrCAL • SCO Unix Open Server Enterprise 6.0 (20 User License) (Academic) • SCO Unix Open Server Development System License (Academic) • SCO Unix 6.0 media kit CD pack			
5.	UPS	• 30 KVA (3Phase in, 3Phase out) IGBT based			

		On-line UPS system with 3 hour backup using sealed maintenance free batteries including battery rack and interconnecting cables with OT STANDBY UNIT. • 3 years onsite standard warranty with next business day support			

Signature with seal……

ANNEXURE – VI

05 WORKSHOP

TECHNICAL COMPLIANCE STATEMENT FORM

An item-by-item commentary on the Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or deviations and exceptions to the provisions of the Technical Specifications should be given.

Compliance/Deviation statement should also give the page number(s) of the technical literature where the relevant specification is mentioned and the relevant portion should be highlighted / underlined.

(Technical literature/brochures/manuals should be attached along with this format)

Sl. No.	Item Parameter	Specifications	Vendors response towards compliance	Deviations (if any)	Page No of the literature
1.	**DRILLING MACHINE,BENCH TYPE(PILLAR)** • Drilling Capacity (in Still) • Column Diameter: • Spindle Centre to back Distance: • Spindle Nose to Table Distance: • Spindle Nose to Base Distance: • Table Travel: • Taper in Spindle: • Numbers of Speed: • Range of Speed: • Table Size: • Base Size (Machined Area): • Spindle Travel : • Column Length: • Overall Height with Pulley Guard: • V-Belt Section: • Motor • Overall Base size	 • 25 mm. • 87.5 mm • 254 mm • 685 mm • 1080 mm • 310 mm • M.T.-3 • 8 Speed • 73x1980 RPM • 390 mm • 360x370 mm • 252 mm • 1460 mm • 1740 mm • B- 52 • 1440 RPM 3 Phase 440 Volts: 1 H.P. • 600x390 mm			
2.	**CENTER LATHE MACHINE 3JAW CHUCK (with all standard accesssories & tools)** **CAPACITY:** • Height of centre: • Swing over slide: • Swing over bed: • Swing in gap: • Admit Between: • Width of bed: • Length of bed: **HEAD STOCK:**	 • 165mm. • 190mm. • 315mm. • 500mm. • 725 mm. • 240 mm. • 1370 mm.			

	• Hole throughout the Spindle: • Taper Bore In spindle: • Spindle Nose & Size: • Range of spindle speed: • Spindle speed: **TREADS PITCHIES** • Metric Treads: • Inches tread: **LEAD SCREW** • Diameter: • Treads: **TAIL STOCKS** • Tapper born in sleeve: • Sleeve travel: Sleeve dia: **CARRIAGE** • Compound slide swiveling degree: • Cross slide travel: • Cross slide size Top slide travel	• 40mm. • MT – 5. • 6 T.P.I • 50 to 1200 RPM. • 8. • 17/0.5 to 15 mm pitch. • 40/2 to 6 tpi. • 25.4 mm. • 4 T.P.M. • MT-3. • 125mm. • 38mm. • 45-0-45. • 175 mm. • 150 mm X 350 mm • 100 mm.			
3.	**CENTER LATHE MACHINE 4JAW CHUCK (with all standard accesssories & tools)** **CAPACITY:** • Height of centre: • Swing over slide: • Swing over bed: • Swing in gap: • Admit Between: • Width of bed: • Length of bed: **HEAD STOCK:** • Hole throughout the Spindle: • Taper Bore In spindle: • Spindle Nose & Size: • Range of spindle speed: • Spindle speed: **TREADS PITCHES** • Metric Treads: • Inches tread: **LEAD SCREW** • Diameter: • Treads: **TAIL STOCKS** • Tapper born in sleeve	• 165mm. • 190mm. • 315mm. • 500mm. • 725 mm. • 240 mm. • 1370 mm. • 40mm. • MT – 5. • 6 T.P.I • 50 to 1200 RPM. • 8. • 17/0.5 to 15 mm pitch. • 40/2 to 6 tpi. • 25.4 mm. • 4 T.P.M.			

	• Sleeve travel: • Sleeve dia: **CARRIAGE** • Compound slide swiveling degree: • Cross slide travel • Cross slide size • Top slide travel	• MT-3. • 125mm. • 38mm. • 45-0-45. • 175 mm. • 150 MM x 350 MM. • 100 mm.			
4,	**SHAPING MACHINE** **(with all standard accesssories & tools)** • Machine Size: • Maximum Stroke: • Length of Ram: • Max. Dist. of table to Ram: • Min. Dist. of table to Ram: • Max. Vertical travel to tool slide: • Length and width to table top: • Length and width of table slide: • Len of cross slide: • Width of Ram: • No of Speeds: • HP Required (1440)	 • 18" • 20" • 36" • 15" • 2" • 4" • 18"x12" • 30"x11" • 30" • 10" • 3 • 2			
5	**PLANNING MACHINE** **(with all standard accesssories & tools)** • Planning size (ft): • Length of Table (mm): • Max.Travel of Table (mm): • Max.Planning Width (mm): • Max.Height Under Cross Rail (mm): • No. of Tool Post On Cross slide • Motor H.P • Length of Bed :	 • 4 Ft • 1300 mm. • 1200 mm. • 900 mm. • 900 mm. • 1. • 3. • 1900 mm.			
6.	**MILLING MACHINE** **(with all standard accesssories & tools)** • Face of Body: • Surface of Table: • No. of Tee-Slots: • Size of Tee-Slots: • Swivel either side of centre: • Cross: • Vertical Traverse: • Longitudinal Traverse: • Standard Arbor: • Taper of Spindle: • No. of Spindle Speed: • Range of Spindle Speed: • Dia of Spindle: • No. of Longitudinal Feed: • Electricals:	 • 9" • 42" x 9" • 3 • ½" • 45" • 7" • 15" • 19" • 1" • M.T.3 • 6 • 60 to 545 • 2½" • 2 • 2 H.P.			

	• Coolant Tank Capacity: • Height: • Floor Space:	• 3 Gallons • 60" • 35" x 20".			
7.	**SLOTTING MACHINE** **(with all standard accesssories & tools)** • Stroke: • Longitudinal Movement: • Cross Movement: • Speed Adjustment: • Ram Adjustment: • H.P. • Size	 • S10 mm to 150 mm. • 200 mm. • 110 mm. • 3 Speed. • 150 mm. • 1 H.P. • 250x150 mm			
8.	**TIG WELDING MACHINE** **(with all standard accesssories & tools)** • Open Circuit Voltage: • Welding Current Range MMAW TIG: • Maximum continuous hand welding current at 60% duty cycle (rated output) MMAW/TIG: • Maximum continuous automatic welding current at 100% duty cycle MMAW/TIG: • Type of welding current regulation: • Current selection range: • Insulation Class: • (Approx) Dimension LxHxW mm:	 • 100 Volts DC • 10-400 Amps. DC • 400 Amps. DC. • 310 Amps. DC. • Stepless • Single • 'H' • 675 x 350 x 690			
9.	**MIG WELDING MACHINE** **(with all standard accesssories & tools)** • Mains supply, Ph x V, Hz: • Open circuit voltage, V DC (Max) : • Welding current range, A : • Welding current at 60% duty cycle, A: • Welding current at 100% duty cycle, A : • Insulation class: • Type of cooling: • Dimensions, l x w x h, mm:	 • 3 x 415, 50 • 55 • 60 – 400 • 400 • 310 • H • Forced Air • 675 x 350 x 690			
10.	**ELECTRIC ARC WELDING MACHINE** **(with all standard accesssories & tools)** • Effective input current,: • Fuse (slow),: • Mains cable, Ø mm² : **Permitted load at (MMA)** • 60% duty cycle, A/V: • 100% duty cycle, A/V: **Permitted load at (TIG)** • 60% duty cycle, A/V: • 100% duty cycle, A/V:	 • 21.4A • 32A • 4C x 4 • 400 / 36. • 310 / 32.4. • 400 / 26. • 310 / 22.4.			

	• Power factor at maximum current: • Efficiency at maximum current, % : • Setting range (TIG/MMA), A: • Open circuit voltage (OCV), V:	• 0.93 • 85 • 20 - 400 • 68 (400i)78 (400i XC)			
11.	**GAS WELDING MACHINE** **(with all standard accesssories & tools)** • Helmet. • Goggle. • Mask. • Hand gloves. • Safety shoes. **MACHINE TOOLS** • Cutogen 5: • IOX 13 B (OXY) Regulator: • IDA 4B (ACETYLENE) Regulator: • Nozzle A-Type 3/64: • FR 18Pair for oxygen &Acetylene: • LPG 18B Regulator: • Protex RO for oxygen: • Protex RA for Acetylene • Holder Handicool:				
12	**PORTABLE DRILLING MACHINE** **(with all standard accesssories & tools)** • Drilling Dia. In wood: • Drilling Dia. In steel: • No- load speed:	• 25mm. • 10mm. • 0-2600rpm.			
13	**GRINDING MACHINE** **(with all standard accesssories & tools)** • Grinding Machine. • Portable Type. • Angle Grinder.				

14	**RADIAL DRILLING MACHINE** **(with all standard accesssories & tools)** **Machine Capacity: 25 / 650** • Drilling (M.S): • Drilling (C.L): • Boring: • Tapping (M.S): • Tapping (C.L): **Drilling Head** • Spindle Nose • Spindle Nose Outside Dia • Spindle Silver Dia • Travel of Spindle **Working Range** • Column dia • Dis. From spindle to base Min/Max • Dis. From Column to Centre Min/Max • Drilling head traverse • Drilling Radius • Travel Of arm **Base Plate** • Height of base plate • Working Surface • Width of Cast Side • Overall Dim. (L x W x H)	 • 25 • 32 • 40 • 15 • 20 • M.T.3 • 40 • 70 • 190 • 130mm • 150 x 850mm • 380 x 650mm • 300mm • 715mm • 700mm • 125mm • 500 x 710mm • 15 mm • 1100 x 800 x 1600			
15	**Wood Turning Lathe** • Length of bed • Height of Centre • Width of bed • Admit b/w centres • No. of spindle speed • Face chuck dia • RPM • Motor (HP)	 •6” •8” •8” •42” •3 •10” •740-350 •1.5 HP			
16	Rip Saw	• 12” • 14”			
17	Tenon Saw	• 12” • 18”			
18	Dovetail Saw	• 12” • 18” • 24”			
19	Firmer chisel with Handle	• ½” • ¾” • 1” • 1¼” • 1½” • 2”			

20	Beveled Edge Firmer Chisel with Handle	• ½” • ¾” • 1” • 1¼” • 1½” • 2”			
21	Mortise Chisel with Handle	• 8mm • 10mm • 12mm			
22	Triangular File	• 6”			
23	Rectangular File	• 10” • 12”			
24	Hacksaw Blade 12x½x18TPI	• Carbon • HSS • Bi-Metal			
25	Mallet (Wooden Hammer)	• 2½” • 3” • 3½” • 4”			
26	Ball Pein Hammer	• 200gms • 300gms • 500gms • 800gms			
27	Hacksaw frame Metal Handle	• 12”x1”			
28	Steel Rule	• 12” • 24”			
29	Drill Bit HSS	• 6mm • 8mm • 10mm • 12mm			
30	Jack Plane	• 7” length			
31	Carpentry bench vice	• 7” size			
32	Welding Rods	• 4mm (1pkt contains 60 rods)			
33	Knife File	• 6” • 8” • 10”			
34	Steel Tape	• 03meters			
35	Thread Cutter				
36	Claw Hammer				
37	Pincer				

Signature with seal……

ANNEXURE – VII

01 CHEMISTRY LAB
FINANCIAL BID

Sl. No.	ITEM	Specifications	Quantity (A)	Basic Price (in Rs.) (both in figures & words) (B)	Taxes (in Rs.)			Rate (in Rs.) (F)=(B+C+D+E)	Amount (in Rs.) (A)x(F)
					CST/Unit (C)	VAT/Unit (D)	OTHERS Pl. Specify (E)		
1.	**Digital Programmable Rate Melting Point & Boiling Apparatus- Oil Less** • Display : • Temperature Range: • Resolution : • Rate of Heating: • Sensor: • Hold: • Dimension:	• Digital 12mm LED • Upto 320 degree C • 1 degree C • 0.5, 1,2, & 5 degree C selectable after reaching preset temperature • RTD (PT-100)Temp. Sensor. • Facility to hold Temp. • 190 W x 215 D x 240mm H	05 nos.						
2.	**Bomb Calorimeter Digital** • 0.01 degree C Readout • One no. S.S. Bomb with Crucible, • 3000cc jacketed vessel • Motorized stirrer • Briquette press • Firing Unit • Pressure guage with copper pipe fitting • Digital thermometer		05 nos.						
3.	**Quartz two Stage Distiller with Safety**		05 nos.						

	control Unit & Quartz Boiler, Quartz Condensor • Conductivity : • Output capacity: • Heater Power: • Cooling Water Consumption: • Safety control Unit for above unit,	• 0.1 to 0.5 µS/cm • 1.0 ltr/hr. • 2 KW • 40 ltr/hr.							
4.	**Micro Controller Based Digital pH/Temperature/mv Meter** • Width 16x2 alpha Numeric LCD Display having auto Temp Compensation along with Accessories pH Electrode • Temp Probe • Electrode Stand • Dust Cover		05 nos.						
5.	**Suction Pump (Motorized)**	• 0.5 HP motor	05 nos.						
6.	**Hot Air Oven** • Capacity:	• 95 ltrs.	10 nos.						
7.	**Muffle Furnace Rectangular (Laboratory Model)**		10 nos.						
8.	**Digital Weighing Balance** • **Readability:** • **Capacity :**	• **0.01gm** • **400gm**	10 nos.						
9.	**Redwood Viscometer** • Voltage Variac for better regulating the temp. for determination of Viscosity of Lubricating Oils and fuels • stainless steel jet electrically heated model with energy Regulator (Viscosity Below 2000secs.) **Accessories to be included:**		05 nos.						

	• Thermometer with Calibration Certificate IP 8c • Thermometer with Calibration Certificate IP 9c • Thermometer with Calibration Certificate IP 10c								
10.	**Smoke Point Apparatus** • as per ASTM D 1322		10 nos.						
11.	**Pensky Martenes Flash Point Tester** • digital indicator • Oil jet or gas jet test flame as per ASTM D 9310. Accessories to be included: • Spare Cup with lid for above • Thermometer ASTM 9c with Calibration Certificate • Thermometer ASTM 10 c with Calibration Certificate		10 nos.						
12	**Aniline point apparatus** • motorized stirrer & digital temp. indicator as per IP 2 & IS 1448 (P-3), ASTM D 611 **Accessories :** • Outer Jacket with Cork • Tue with Cork • Brass stirrer inner		10 nos.						
13	**Micro Processor Conductivity/TDS/Temperature Meter**		10 nos.						
14.	**Physical Balance** • Capacity • Resolution • Weight box	• 250gm • 0.2mg	05 nos.						
15.	**Hot Plate**		05 nos.						
16	Conical flask	• 250ml	250 nos.						

17	Conical flask	• 500 ml	150 nos.						
18	Beaker	• 100 ml	200 nos.						
19	Beaker	• 250 ml	200 nos.						
20	Beaker	• 500ml	100 nos.						
21	Beaker	• 1000 ml	50 nos.						
22	Pipette	• 10 ml	100 nos.						
23	Pipette	• 20 ml	200 nos.						
24	Pipette	• 25 ml	200 nos.						
25	Pipette stand	• capacity 28 nos. x 25 ml	50 nos.						
26	Pyknometer with thermometer	• 10 ml	100 nos.						
27	Pyknometer with thermometer	• 25 ml	100 nos.						
28	Reagent bottle	• 250 ml	500 nos.						
29	Reagent bottle	• 500 ml	200 nos.						
30	Regent bottle	• 1000 ml	25 nos.						
31	Reagent bottle	• 2000 ml	25 nos.						
32	Burette	• 50 ml	250 nos.						
33	Burette Stand with clamp		200 nos.						
34	Test Tube (normal)	• 55 ml capacity	1000 nos.						
35	Test Tube Stand	• Capacity 20 nos.	50 nos.						
36	Measuring Cylinder	• 100 ml	50 nos.						
37	Measuring Cylinder	• 250 ml	50 nos.						
38	Measuring Cylinder	• 500 ml	50 nos.						
39	Measuring Cylinder	• 1000 ml	25 nos.						
40	Funnel,	• Diameter 100 mm	200 nos.						
41	Bunsen Burner for LPG Connection		25 nos.						
42	Silica Crucible with lid	• 25 ml	150 nos.						
43	Tong	• 6"	150 nos.						
44	Vacuum Desiccators	• 150 mm	25 nos.						
45	Distilled Water Bottle	• Capacity 10 Ltrs.	25 nos.						
46	Distilled Water Bottle	• Capacity 1Ltrs.	150 nos.						
47	Dropper with rubber teat		150 nos.						
48	Tripod Stand		25 nos.						

49	Stirring Rod		200 nos.						
50	Test Tube Holder		150 nos.						
51	Spirit Lamp		75 nos.						
52.	**Chemlab Simulation Software- (1+10)** **Users License** **The following Lab Experiment should be done by the Chem Lab:** 1**.** Compare the pH of a buffer solution to a weak acid solution. 2. Perform strong acid base titration and plot titration curve. 3. Determine the atomic weight of magnesium by the amount of hydrogen gas evolved. 4.: Examine the precision of three types of balances. 5. Examine the chemical behavior of ionic and covalent bonds. 6.Examine the reaction between cations and anions. 7.Examine the relationship between volume and temperature for gases at constant pressure. 8. Separate crude oil into its components using fractional distillation. 9.Determine the specific heat of a metal. 10. Examine a simple double replace reaction. 11. Determine the molecular weight of a gas using the ideal gas law. 12. Create electrochemical cells and measure their voltages. 13. Examination of high temperature light emissions. 14**.** Determine the half life of a	• The ChemLab Pro software should include the Lab Wizard tool which enables instructors to run, edit, and create lab simulations while the Standard edition enables students only to run lab simulations. • There should be two types of lab simulation files:- a) User-Defined Lab (UDL) files with a *.udl extension which can be created and edited by users with a Lab Wizard tool (available with Pro edition only)., b) pre-programmed simulation plug-ins with a *.dll extension that cannot be created or edited by users. • The Software should have a tool to design chemistry lab simulations. It should be capable to translate experiments into ChemLab modules called User Defined Labs (UDL's) by asking one to supply it with documentation, chemical data and reaction formulas. • The Model ChemLab software should come with a range of pre-designed lab experiments for general chemistry at the high school and college level. • The Chem lab Software should	05 Nos.						

	radioactive isotope. 15.Measure calcium and magnesium content in water by titration. 16. Determine the Heat of Neutralization for HCl with NaOH. 17. Determine the formula of a hydrate. 18.Determine the percentage of iron in an unknown iron (II) sulfate by redox titration. 19**.** Determine the salt content of water by titration. 20. Perform weak acid base titration and plot titration curve.	be available for Windows 8/7/Vista/XP/ME/98/95, Windows 2000 & NT version 3.51 and higher, and Mac OSX operating systems. • The chem. Lab Software should be capable to run on a Network environment. • The Software should be capable to download upgrades as & when required							

(Total amount in words……..……..) only

Date :
Place :

Signature of the authorized signatory

Name:…….
Designation:…….……

Note:

Bidder should go through the relevant instructions in tender documents before preparing the Financial Bid

ANNEXURE – VII

02 PHYSICS LAB
FINANCIAL BID

Sl. No.	ITEM	Specifications	Quantity (A)	Basic Price (in Rs.) (both in figures & words) (B)	Taxes (in Rs.)			Rate (in Rs.) (F)=(B+C+D+E)	Amount (in Rs.) (A)x(F)
					CST/Unit (C)	VAT/Unit (D)	OTHERS Pl. Specify (E)		
1	Veriner Caliper (Precision)	0-50mm, least Count- 0.02mm	75 nos.						
2	Micrometer	(0-50mm) Least Count 1/100mm	75 nos.						
3	Spherometer	Least count 1/100mm	75 nos.						
4	Specific Gravity Bottle	50ml	75 nos.						
5	Physical Balance	Capacity 200gm, Sensitivity 1mg.	25 nos.						
6	Weight Box	Set of weights 1mg to 100 gms	50 nos.						
7	Simple Pendulum		50 nos.						
8	Measuring Tape	5m	50 nos.						
9	Stop Watch Digital	Digit Size 7 mm	75 nos.						
10	Boyles Law Apparatus & Gauge		15 nos.						
11	Resonance Apparatus Simple Brass		25 nos.						
12	Tunning Fork for resonance apparatus		50 nos.						
13	Spirit Level	Length 150mm long, made of Plastic	25 nos.						
14	Glass Slab(with needles)	Size 125x65 mm	150 nos.						
15	Drawing Board	40 x 40 cm	150 nos.						

16	Optical Bench Hexagonal Section	Length 1.5m	25 nos.						
17	Mirror Concave	Diameter 50 mm, FL 50, 75, 100 mm	100 nos.						
18	Mirror Convex	Diameter 50 mm, FL 50, 75, 100 mm	100 nos.						
19	Lens in Holder Double Concave	Dia- 50mm, FL-50mm	100 nos.						
20	Lens in Holder Double Convex	Dia-50 mm, FL-75mm	100 nos.						
21	Bar Magnet	Size 100x11x6mm approx, Material Alnico	75 nos.						
22	Magnetic Compass in Aluminium Case	Size 18 mm both side transparent	150 nos.						
23	Millivoltmeter DC	Range 0-100 mVolts	50 nos.						
24	Galvanometer DC	Range 35-0-35 mV	50 nos.						
25	Voltmeter DC	Range- 0-10 V	50 nos.						
26	Ammeter DC	Range 0-10AMP	50 nos.						
27	Power Supply	0-12 V, AC/DC	50 nos.						
28	Rheostat, Porcelain Pipe Closed type	Length 25cm, Resistance 10 OHMS, Current 5.7 AMPS	50 nos.						
29	Plug Key	One way	50 nos.						
30	Resistance Box	No. of Coils 8, Range 0.1-5 OHMS, Total Resistance 11	50 nos.						
31	Decade Resistance Box	Range in Units, Tens, Hundreds & Thousand OHMS Total Resistance in 11110 OHMS, Dials 4	50 nos.						
32	Post Office Box with Copper Connection wires		50 nos.						

33	Digital Multimeter	3 ½ digits	10 nos.						
34	Prism Hollow	Size 38mm	75 nos.						
35	Extra Flint Glass Prism	Size 32x32mm	75 nos.						
36	Crown Glass Prism	Size 32x32 mm	75 nos.						
37	Plane Mirrors with base	Size 150x50mm	75 nos.						
38	Thermometer Plastic	0-50 degree C	10 nos.						
39	Aluminium Cylinder	10, 20, 40mm (Dia) of length 40 mm	75 nos.						
40	Aluminium Rectangular Block	10x20x30 cu mm , 15x25x35 cu mm	75 nos.						
41.	**Law of Motion Kit :** Kit should be designed to study the linear motion of the object, elastic collision, Newton's law of motion and recording the path time diagram of linear motion using photo- gates. The runway should be used for all experiments and should be made of superior quality stainless steel having smooth surface with linear grooves for smooth motion of trolley and it should have stainless steel stoppers with rubber sheet at ends. A plastic pulley should be fixed at one end to hang a weight **The Following experiments should be done with this setup:** **1** To find the velocity of an object. **2** To determine the average speed of an object. **3.** To determine the acceleration of a moving object. **4.**To demonstrate the elastic collision. **5** To demonstrate the law of conservation of energy.	**The Setup should include the following:** **1. Track for dynamic trolley** Dimension : 119.5 x 10cm (L x W) excluding pulley. Material : Stainless steel Pulley : Plastic, 50mm dia Scale : 0 to 115cm, graduated in mm. Surface : Smooth surface with low friction. **2. Dynamic Trolley** Dimensions : 155 x 77 x 55 mm (Lx W x H) approx. Material : Aluminium. Trigger : Pin press to release plunger. In-elastic collision : Via 2 nos. velcro pad. Stacking : Two or more trolleys with 2 nos. guiding pins Wheels : PVC, 4 nos. low frictions. Weight mount : 4mm socket at center to mount slotted weights Clamping screw : To attach ticker tape or thread. Suspension : Spring loaded. Additional weights : Slotted, 2 nos. 100gm.	05 Nos						

	6 To demonstrate the transfer of energy. **7** To plot a graph between velocity and time using picket fence.	Weight : 600gm approx. **3. Digital Timer & Photogate** Display : 2 line LCD Type : Micro controller based Time resolution : 0.1 milli second Mode : Time, Speed & Acceleration Photogate : 2 Nos. Interface : USB Operating voltage : 5V DC Photogate detector : Infra-Red **4. Microcontroller based and in-built test functions.** Supplied with a pair of photogate and photogate mounting rod. **5. Boss Head** Object type : Square & round shape Object size : Up-to 13mm dia Material : Aluminium alloy Object can be hold both vertically and horizontly. **6. Accessories Dynamics Trolley:** **Item Name/Pulse Distance/ Socket** 1b picket/Block 10mm /4mm 2b picket./Block 10mm,/2 times 4mm 3b picket. /Block 10mm, /3 times 4mm 10b picket./Block 10mm/10 times 4mm **7. Slotted Masses** Weights : Stainless steel : 9nos. X 10gm Hanger : 10gm, Plastic Total weight : 100g							
	TOTAL AMOUNT for the Package:								

(Total amount in words……..) only

Date :
Place :

Signature of the authorized signatory

Name:…….

Designation:……..*Note:*

Bidder should go through the relevant instructions in tender documents before preparing the Financial Bid

ANNEXURE – VI

03 FURNITURE AND FIXTURES
FINANCIAL BID

Sl. No.	ITEM	Specifications	Quantity (A)	Basic Price (in Rs.) (both in figures & words) (B)	Taxes (in Rs.)			Rate (in Rs.) (F)=(B+C+D+E)	Amount (in Rs.) (A)x(F)
					CST/Unit (C)	VAT/Unit (D)	OTHERS Pl. Specify (E)		
1.	Two seater Student Desk and Chair	(i) Desk cum Bench with laminated tops with rounded edge (1100Wx915D x 744H) (ii) Provision for shelf storage (iii) Hooks for hanging bags	425nos.						
2.	Office Table	Wooden Top, square tube understructure with three drawers (1199Wx590Dx 75H)	25 nos.						
3	Office Table	Wooden Top, square tube understructure with both three and two drawers (1365Wx680Dx 75H)	20 nos.						
4.	Computer Table	600Wx450Dx750H	250 nos						
5.	Computer Chair with arm	Task Chair with no tilt mechanism, metal pedestal	250 nos.						
6.	Plain Almirah	1980Hx915Wx485D	50 nos.						
7.	Visitors Chair	Best quality	70 nos.						
8.	Book Rack with Glass Door	(i) 4 (four) doors (ii) 914Wx320Dx1742H	75 nos.						
9.	High Back Executive Chair		05 nos.						

10.	Mid Back Executive Chair		50 nos.						
11.	Armless slim chair for students		125 nos.						
12.	Library Reading Table	1220Bx2440L	10 nos.						
				TOTAL AMOUNT for the Package:					

(Total amount in words……..) only

Date :

Place :

Signature of the authorized signatory

Name:…….

Designation:……

Note:

Bidder should go through the relevant instructions in tender documents before preparing the Financial Bid

ANNEXURE – VI

04 COMPUTER LAB
FINANCIAL BID

Sl. No.	ITEM	Specifications	Quantity (A)	Basic Price (in Rs.) (both in figures & words) (B)	Taxes (in Rs.)			Rate (in Rs.) (F)=(B+C+D+E)	Amount (in Rs.) (A)x(F)
					CST/Unit (C)	VAT/Unit (D)	OTHERS Pl. Specify (E)		
1.	**Desktop Computer** • Processor: • Motherboard: • Memory slot • Hard Drive: • DVD writer: • Audio: • Video Controller: • Keyboard: • Mouse: • Ports:	• Intel Corei3-3220(third generation), 3.0 GHz, 6 MB Cache, 4 Cores or higher • Intel H61 chipset based motherboard express or higher • 2 GB 1333MHz DDR3 • 500 GB 7200 rpm Serial ATA HDD or higher • Realtek High Definition integrated audio • Intel HD graphics on board • USB or PS/2 Standard Keyboard 104 keys • USB or PS/2 Optical mouse • 4 USB ports, 1 serial, 1 parallel • 10/100/1000 Mbps	160 nos.						

	• LAN connection: • Cabinet: • Monitor: • Warranty & Support: • Operating System: • Antivirus:	Ethernet Card integrated • Mini- tower • 18.5" wide screen flat panel LCD/LED monitor with Analog and DVI input • 3 years onsite standard warranty with next business day support • Microsoft Windows 8 Professional (64 bit version) (Preloaded) • Macfee/Norton Internet Security with upgrades/updates for 36 months.							
2.	**Desktop Computer** • Processor: • Motherboard: • Memory slot • Hard Drive: • DVD writer: • Audio:	• Intel Corei3-3220 (third generation), 3.0 GHz, 6 MB Cache, 4 Cores or higher • Intel H61 chipset based motherboard express or higher • 2 GB 1333MHz DDR3 • 500 GB 7200 rpm Serial ATA HDD or higher • Realtek High Definition integrated audio • Headphone with mic • Logitech	40 nos.						

	• Web-camera • Video Controller: • Keyboard: • Mouse: • Ports: • LAN connection: • Cabinet: • Monitor: • Warranty & Support: • Operating System: • Antivirus:	• Nvidia GeForce Videocard with 2 GB RAM and VGA, DVI and HDMI interface • USB or PS/2 Standard Keyboard 104 keys • USB or PS/2 Optical mouse • 4 USB ports, 1 serial, 1 parallel • 10/100/1000 Mbps Ethernet Card integrated • Mini- tower • 18.5" wide screen flat panel LCD/LED monitor with Analog and DVI input • 3 years onsite standard warranty with next business day support • Microsoft Windows 8 Professional (64 bit version) (Preloaded) • Macfee/Norton Internet Security with upgrades/updates for 36 months.							
3.	LCD Projector with Screen:	• 3000 lums • 500 hrs lamp life with LAN connectivity including ceiling mounting	15 nos.						

4.	Server (alongwith racks): • Processor family • Number of Processors • Processor core available • Maximum memory • Memory Slots • Memory type • Expansion slots • Network controller • Maximum Drive Bays • Storage Controller • Form Factor • Management • Warranty & Support: • Operating System:	• Intel® Xeon® E5-2400 product family • 2 or more • 6 or higher • 192 GB • 12 DIMM slots • DDR3 RDIMM OR UDIMM • 6 • 1GB 361i Ethernet Adapter, 2 ports per controller • 4, LFF SATA or 18 LFF SAS/SATA/SSD or 24 SFF SAS/SATA/SSD • Dynamic Smart Array B120i or smart array P420i • 5U, fully configured • iLO management Engine, insight control • 3 years onsite standard warranty with next business day support • MS Windows 2008 Server Standard R2 64Bit single OLP NL (Academic).	11 nos.						

		• Windows Server 2008 SNGL OLP NL(Academic) UsrCAL • SCO Unix Open Server Enterprise 6.0 (20 User License) (Academic) • SCO Unix Open Server Development System License (Academic) • SCO Unix 6.0 media kit CD pack							
5.	UPS	• 30 KVA (3Phase in, 3Phase out) IGBT based On-line UPS system with 3 hour backup using sealed maintenance free batteries including battery rack and interconnecting cables with OT STANDBY UNIT. • 3 years onsite standard warranty with next business day support	05 nos.						
	TOTAL AMOUNT for the Package:								

(Total amount in words……..) only
Date :
Place :

Signature of the authorized signatory

Name:…….
Designation:……..……

Note:

Bidder should go through the relevant instructions in tender documents before preparing the Financial Bid

ANNEXURE – VII

05 WORKSHOP
FINANCIAL BID

Sl. No.	ITEM	Specifications	Quantity (A)	Basic Price (in Rs.) (both in figures & words) (B)	Taxes (in Rs.)			Rate (in Rs.) (F)=(B+C+D+E)	Amount (in Rs.) (A)x(F)
					CST/Unit (C)	VAT/Unit (D)	OTHERS Pl. Specify (E)		
1.	**DRILLING MACHINE,BENCH TYPE(PILLAR)** • Drilling Capacity (in Still) • Column Diameter: • Spindle Centre to back Distance: • Spindle Nose to Table Distance: • Spindle Nose to Base Distance: • Table Travel: • Taper in Spindle: • Numbers of Speed: • Range of Speed: • Table Size: • Base Size (Machined Area): • Spindle Travel : • Column Length: • Overall Height with Pulley Guard: • V-Belt Section: • Motor • Overall Base size	 • 25 mm. • 87.5 mm • 254 mm • 685 mm • 1080 mm • 310 mm • M.T.-3 • 8 Speed • 73x1980 RPM • 390 mm • 360x370 mm • 252 mm • 1460 mm • 1740 mm • B- 52 • 1440 RPM 3 Phase 440 Volts: 1 H.P. • 600x390 mm	05 nos.						

2.	**CENTER LATHE MACHINE 3JAW CHUCK (with all standard accesssories & tools)** **CAPACITY:** • Height of centre: • Swing over slide: • Swing over bed: • Swing in gap: • Admit Between: • Width of bed: • Length of bed: **HEAD STOCK:** • Hole throughout the Spindle: • Taper Bore In spindle: • Spindle Nose & Size: • Range of spindle speed: • Spindle speed: **TREADS PITCHIES** • Metric Treads: • Inches tread: **LEAD SCREW** • Diameter: • Treads: **TAIL STOCKS** • Tapper born in sleeve: • Sleeve travel: Sleeve dia: **CARRIAGE** • Compound slide swiveling degree: • Cross slide travel: • Cross slide size	 • 165mm. • 190mm. • 315mm. • 500mm. • 725 mm. • 240 mm. • 1370 mm. • 40mm. • MT – 5. • 6 T.P.I • 50 to 1200 RPM. • 8. • 17/0.5 to 15 mm pitch. • 40/2 to 6 tpi. • 25.4 mm. • 4 T.P.M. • MT-3. • 125mm. • 38mm.	08 nos.						

	• Top slide travel	• 45-0-45. • 175 mm. • 150 mm x 350 mm • 100 mm.							
3.	**CENTER LATHE MACHINE 4JAW CHUCK (with all standard accesssories & tools)** **CAPACITY:** • Height of centre: • Swing over slide: • Swing over bed: • Swing in gap: • Admit Between: • Width of bed: • Length of bed: **HEAD STOCK:** • Hole throughout the Spindle: • Taper Bore In spindle: • Spindle Nose & Size: • Range of spindle speed: • Spindle speed: **TREADS PITCHES** • Metric Treads: • Inches tread: **LEAD SCREW** • Diameter: • Treads: **TAIL STOCKS** • Tapper born in sleeve	 • 165mm. • 190mm. • 315mm. • 500mm. • 725 mm. • 240 mm. • 1370 mm. • 40mm. • MT – 5. • 6 T.P.I • 50 to 1200 RPM. • 8. • 17/0.5 to 15 mm pitch. • 40/2 to 6 tpi. • 25.4 mm. • 4 T.P.M.	08 nos.						

	• Sleeve travel: • Sleeve dia: **CARRIAGE** • Compound slide swiveling degree: • Cross slide travel • Cross slide size • Top slide travel	• MT-3. • 125mm. • 38mm. • 45-0-45. • 175 mm. • 150 MM X 350 MM. • 100 mm.							
4,	**SHAPING MACHINE** **(with all standard accesssories & tools)** • Machine Size: • Maximum Stroke: • Length of Ram: • Max. Dist. of table to Ram: • Min. Dist. of table to Ram: • Max. Vertical travel to tool slide: • Length and width to table top: • Length and width of table slide: • Len of cross slide: • Width of Ram: • No of Speeds: • HP Required (1440)	 • 18" • 20" • 36" • 15" • 2" • 4" • 18"x12" • 30"x11" • 30" • 10" • 3 • 2	05 nos.						
5	**PLANNING MACHINE** **(with all standard accesssories & tools)** • Planning size (ft): • Length of Table (mm): • Max.Travel of Table (mm): • Max.Planning Width (mm): • Max.Height Under Cross Rail (mm): • No. of Tool Post On Cross slide • Motor H.P	 • 4 Ft • 1300 mm. • 1200 mm. • 900 mm. • 900 mm. • 1. • 3.	05 nos.						

	• Length of Bed :	• 1900 mm.							
6.	**MILLING MACHINE** **(with all standard accesssories & tools)** • Face of Body: • Surface of Table: • No. of Tee-Slots: • Size of Tee-Slots: • Swivel either side of centre: • Cross: • Vertical Traverse: • Longitudinal Traverse: • Standard Arbor: • Taper of Spindle: • No. of Spindle Speed: • Range of Spindle Speed: • Dia of Spindle: • No. of Longitudinal Feed: • Electricals: • Coolant Tank Capacity: • Height: • Floor Space:	 • 9" • 42" x 9" • 3 • ½" • 45" • 7" • 15" • 19" • 1" • M.T.3 • 6 • 60 to 545 • 2½" • 2 • 2 H.P. • 3 Gallons • 60" • 35" x 20".	05 nos.						
7.	**SLOTTING MACHINE** **(with all standard accesssories & tools)** • Stroke: • Longitudinal Movement: • Cross Movement: • Speed Adjustment: • Ram Adjustment: • H.P. • Size	 • S10 mm to 150 mm. • 200 mm. • 110 mm. • 3 Speed. • 150 mm. • 1 H.P. • 250x150 mm	05 nos.						
8.	**TIG WELDING MACHINE** **(with all standard accesssories & tools)**		05 nos.						

	• Open Circuit Voltage: • Welding Current Range MMAW TIG: • Maximum continuous hand welding current at 60% duty cycle (rated output) MMAW/TIG: • Maximum continuous automatic welding current at 100% duty cycle MMAW/TIG: • Type of welding current regulation: • Current selection range: • Insulation Class: • (Approx) Dimension LxHxW mm:	• 100 Volts DC • 10-400 Amps. DC • 400 Amps. DC. • 310 Amps. DC. • Stepless • Single • 'H' • 675 x 350 x 690							
9.	**MIG WELDING MACHINE** **(with all standard accesssories & tools)** • Mains supply, Ph x V, Hz: • Open circuit voltage, V DC (Max) : • Welding current range, A : • Welding current at 60% duty cycle, A: • Welding current at 100% duty cycle, A : • Type of Welding Voltage/Current Regulator: • Insulation class: • Type of cooling: • Dimensions, l x w x h, mm:	• 3 x 415, 50 • 55 • 60 – 400 • 400 • 310 • YES • H • Forced Air • 675 x 350 x 690	05 nos.						
10.	**ELECTRIC ARC WELDING MACHINE** **(with all standard accesssories & tools)** • Effective input current,: • Fuse (slow),: • Mains cable, Ø mm² :	• 21.4A • 32A • 4C x 4	08 nos.						

	Permitted load at (MMA) • 60% duty cycle, A/V: • 100% duty cycle, A/V: **Permitted load at (TIG)** • 60% duty cycle, A/V: • 100% duty cycle, A/V: • Power factor at maximum current: • Efficiency at maximum current, % : • Setting range (TIG/MMA), A: • Open circuit voltage (OCV), V:	 • 400 / 36. • 310 / 32.4. • 400 / 26. • 310 / 22.4. • 0.93 • 85 • 20 - 400 • 68 (400i)78 (400i XC)							
11.	**GAS WELDING MACHINE** **(with all standard accesssories & tools)** • Helmet. • Goggle. • Mask. • Hand gloves. • Safety shoes. **MACHINE TOOLS** • Cutogen 5: • IOX 13 B (OXY) Regulator: • IDA 4B (ACETYLENE) Regulator: • Nozzle A-Type 3/64: • FR 18Pair for oxygen &Acetylene: • LPG 18B Regulator: • Protex RO for oxygen: • Protex RA for Acetylene • Holder Handicool:		08 nos.						
12.	**PORTABLE DRILLING MACHINE** **(with all standard accesssories & tools)**		8 nos.						

	• Drilling Dia. In wood: • Drilling Dia. In steel: • No- load speed:	• 25mm. • 10mm. • 0-2600rpm.							
13.	**GRINDING MACHINE** **(with all standard accesssories & tools)** • Grinding Machine. • Portable Type. • Angle Grinder.		10 nos.						

14.	**RADIAL DRILLING MACHINE** **(with all standard accesssories & tools)** **Machine Capacity: 25 / 650** • Drilling (M.S): • Drilling (C.L): • Boring: • Tapping (M.S): • Tapping (C.L): **Drilling Head** • Spindle Nose • Spindle Nose Outside Dia • Spindle Silver Dia • Travel of Spindle **Working Range** • Column dia • Dis.From spindle to base Min/Max • Dis.From Column to Centre Min/Max • Drilling head traverse • Drilling Radius • Travel Of arm **Base Plate** • Height of base plate • Working Surface • Width of Cast Side • Overall Dim. (L x W x H)	 • 25 • 32 • 40 • 15 • 20 • M.T.3 • 40 • 70 • 190 • **Working Range** • 130mm • 150 x 850mm • 380 x 650mm • 300mm • 715mm • 700mm **Base Plate** • 125mm • 500 x 710mm • 15 mm • 1100 x 800 x 1600	05 nos.						
15	**Wood Turning Lathe** • Length of bed • Height of Centre • Width of bed • Admit b/w centres • No. of spindle speed • Face chuck dia • RPM	 •6” •8” •8” •42” •3 •10” •740-350	05 nos.						

	• Motor (HP)	• 1.5 HP							
16	Rip Saw	• 12” • 14”	75 nos. 75 nos.						
17	Tenon Saw	• 12” • 18”	75 nos 75 nos						
18	Dovetail Saw	• 12” • 18” • 24”	75 nos 75 nos 75 nos						
19	Firmer chisel with Handle	• ½” • ¾” • 1” • 1¼” • 1½” • 2”	75 nos 75 nos 75 nos 75 nos 75 nos 75 nos.						
20	Beveled Edge Firmer Chisel with Handle	• ½” • ¾” • 1” • 1¼” • 1½” • 2”	75 nos 75 nos 75 nos 75 nos 75 nos 75 nos.						
21	Mortise Chisel with Handle	• 8mm • 10mm • 12mm	75 nos 75 nos 75 nos..						
22	Triangular File	• 6”	75 nos.						
23	Rectangular File	• 10” • 12”	75 nos. 75 nos.						
24	Hacksaw Blade 12x½x18TPI	• Carbon • HSS • Bi-Metal	50nos. 50 nos. 50 nos.						

25	Mallet (Wooden Hammer)	• 2½” • 3” • 3½” • 4”	50 nos. 50 nos. 50 nos. 50 nos.						
26	Ball Pein Hammer	• 200gms • 300gms • 500gms • 800gms	150 nos. 150 nos. 150 nos. 150 nos.						
27	Hacksaw frame Metal Handle	• 12”x1”	50 nos.						
28	Steel Rule	• 12” • 24”	50 nos. 50 nos.						
29	Drill Bit HSS	• 6mm • 8mm • 10mm • 12mm	150 nos. 150 nos. 150 nos. 150 nos.						
30	Jack Plane	• 7” length	50 nos.						
31	Carpentry bench vice	• 7” size	25 nos.						
32	Welding Rods	• 4mm (1pkt contains 60 rods)	250 nos.						
33	Knife File	• 6” • 8” • 10”	50 nos. 50 nos. 50 nos.						
34	Steel Tape	• 03meters	100 nos.						
35	Thread Cutter		50 nos.						
36	Claw Hammer		150 nos.						
37	Pincer		100 nos.						
	TOTAL AMOUNT for the Package:								

(Total amount in words……..) only

Date :
Place :

Signature of the authorized signatory

Name:…….
Designation:…….

Note:

Bidder should go through the relevant instructions in tender documents before preparing the Financial Bid

Signature with seal……

ANNEXURE-VIII

(In the letterhead of the Bank)

PERFORMANCE BANK GUARANTEE

To,

The Director
Higher & Technical Education,
Govt. of Arunachal Pradesh
Itanagar

WHEREAS ..... (Name of Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract No..... dated,..... 20... to supply..... ..... (Description of Goods and Services) hereinafter called "the order".

AND WHEREAS it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the order.

AND WHEREAS we have agreed to give the Supplier a Guarantee:
THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the order and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors
.....
.....
.....
Date.....20....
Address:.....
.....
.....

All correspondence with reference to this guarantee shall be made at the following address:

The Director
Higher and Technical Education
ESS Sector, Near Civil Secretariat
Itanagar 791 111
Arunachal Pradesh