Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab
C/o Director General School Education
Shiksha Bhawan (Punjab School Education Board). Block-E, 5th Floor, Phase-8, Ajitgarh (Mohali)
e-mail: dpise-punjab@gmail.co.in

Tender Document

For Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) for 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab (E-Tendering Mode only)

(Tender No.: Special/PCBkits for 6 Meritorious Senior Secondary Schools (works) Dated: 26-05-14)

Certified that this Tender Document contains (1-2) pages serially numbered. and General Condition contain pages no. (3-11) , Annexures contain on Page No. (12-14), Technical Bid contain on Page No. 15 and Financial Bid contain page no. (16-25)

Note: -

The prospective tenderer have the option to download the tender document from www.ssapunjab.org. OR www.etender.punjabgovt.gov.in, they have to pay fee of Rs. 1000/- (One Thousand Only) and Earnest Money Deposit have to pay of Rs. 6,60,000/- (Rupees Six Lakh Sixty Thousand only) by online payment, RTGS/NEFT, Debit/Credit card, internet banking and Processing Fees of Rs. 2247/- (Two Thousand Two Hundred Forty Seven only) of Punjab Infotech Ltd., Chandigarh through online. **Payments through Demand Draft are not acceptable.**

If cost of the Tender Document & Earnest Money Deposit are not paid as per above, bid will be rejected outrightly.

Aspiring bidders who have not obtained the User ID and Password for participating in e-tendering may obtain the same by registering in e-procurement portal (http://etender.punjabgovt.gov.in). The bidders once registered can participate in the tender of **Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) for 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab**

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You may contact for any query/problem relating to e-Tendering 0172-3934665,0172-3934667(Tele-Fax), 9257209340, 8054628821.

Tender Document for approval (Page No. 1 to 2)
General Conditions Page no. on 3-11
Annexures Page No. 12-14
Technical bid Page No. 15
Financial Bid Page no.-16-25

Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab for PCB Kits

TENDER NOTICE

Sr. No.	Particulars	Details
1	Tender Notice No	**Tender No.: Special/PCBkits for 6 Meritorious Senior Secondary Schools (works) Dated:- 26.05.2014**
2	Description of work	**For Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) for 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab. (Tender value approx. 66 Lakhs)**
3.	Cost of Tender Document	**Rs. 1,000/- (Rupees One thousand Only) (Non-Refundable)**
4.	Earnest Money Deposit	**Rs. 6,60,000/- (Rupees Six Lakh Sixty Thousand only) (Refundable)**
5.	Date & Time of Sale of Tender	**(Tender Notice will be given in newspapers and Tender document will be on wesbsite as www.etender.punjabgovt.gov.in)**
6.	Last date for submission of Tender	**17.06.2014 upto 12:00 p.m.**
7.	Opening of Tenders	**Technical bids will be opened on 19.06.2014 at 11.00 a.m. Financial Bids will be opened on 26.06.2014 at 11:00 am of those firms, who have been qualified in technical bids For Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) for 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab.**

Notes: -

(i) In case the date of opening of tender falls on a holiday, tenders will be opened on the next working day at the same time.

Bidders who have accepted the general terms & conditions given in Annexure 'A' can participate for this job.

Introduction:-

The aim of Govt. of Punjab is to create infrastructure and to provide better facilities for universal access to meritorious student in the state of Punjab for which six new meritorious school (Amritsar, Bathinda, Jalandhar, Ludhiana, Mohali & Patiala) is being opened. To promote science education, science labs have been constructed. To attain aim, it is necessary to provide science equipments, chemical and other required material in Physics, Chemistry and Biology Laboratories.

1. Terms & Conditions

1.1 Tender Cost of **Rs. 1000/- (Rupees One Thousand only)** as in the form of e-payment only**.**

1.2 Earnest Money Deposit of **Rs. 6,60,000/- (Rupees Six Lakh Sixty Thousand only)** as in the form of e-payment only**.**

1.3 Certificate as per Performa "I" for authorization and verification of authorized signatory in favour of person(s) authorized to sign the tender bid and all correspondence/documents, typed on Company Letter Head, stamped and signed by Proprietor/Partner(s)/Managing Director/Director must be uploaded.

1.4 An Affidavit on Non Judicial Stamp Paper of Rs. 10/- (Rupees Ten only) as per Performa "II" stamped and signed by the authorized signatory and duly attested by Public Notary must be uploaded.

1.5 Declaration, typed on Company Letter Head, stamped and signed by Authorized signatory (Performa –"III") must be uploaded.

1.6 Check list for Pre Qualification cum Technical Bid duly filled in stamped and signed by the authorized signatory (Performa –"V") must be uploaded.

1.7 Copy of PAN No (PAN Card) must be uploaded.

1.8 Copy of EPF No. (if firm covered under EPF Act.) and copy of Sale Tax No. and copy of SSI Registration Certificate with State Govt. must be attached. However all statutory obligations/liabilities like Salary, ESI, and PF as per labour laws for manpower employed will be the sole responsibility of the bidder.

1.9 Copies of latest income Tax return for last 3 years i.e. 2011-12, 2012-13 and 2013-14 must be uploaded.

1.10 The bidder must have Rs. 1.5 Crore (annually) turnover in supply of science laboratories material in schools/colleges or any education institute during the last three years for financial Session 2011-12 to 2013-14 . Copies of audited P&L accounts and balance sheets for the last 3 years must be uploaded.

1.11 Incomplete and Conditional Tender will not be accepted.

1.12 The rates quoted by the tenderer in the tender (Performa 'V') of should be the Net Rates including all taxes.

1.13 All the pages of the Tender submitted must be serially numbered, stamped and signed by the authorized signatory.

1.14 In case the bidder is an ISO certified then documentary proof must be uploaded.

1.15 The salts/chemicals should be L.R grades reagent of brand Nice, Thomas Baker, S.D. Fine, Alpha Chem, Sisco, Merck, Ranchem, BDH, Fisher, Spectrochem, Loba Chemie.

1.16 The material/apparatus used should conform to ISI norms, where and whenever applicable and available in the market.

1.17 The rate quote should be complete for all items included in the tender list which is annexed in Performa 'V'.

1.18 The consequent upon acceptance of Bid, the Tender Document will be deemed to be converted into Contract Agreement.

1.19 **A sample of the sealed science kit (including all items) as per annexed Performa 'V' in tender should be submitted along with the hard copy of tender document duly signed by authorized signatory.**

Annexure 'A'

2. Other General Conditions

2.1 Invitation Online tender for **Supply of Physics, Chemistry & Biology Material/ chemical/Equipments (PCB Kits) 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab.**

2.2 The **Supply of Physics, Chemistry & Biology Material/ chemical/ Equipments (PCB Kits) 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab** should conform to Technical Specifications mentioned in the Performa "IV".

2.3 Bidders are advised to study the Tender Document carefully. Submission of Tender shall be deemed to have been done after careful study and examination of the Tender Document with full understanding of its implications.

2.4 Offers should be submitted on web site www.etender.punjabgovt.gov.in not later than the last date and time of submission.

2.5 All bids must be accompanied by earnest money deposit of **Rs. 6,60,000/- (Rupees Six Lakh Sixty Thousand only) and Tender Cost of Rs. 1000/- (Rupees One Thousand only**) through Debit/Credit card, RTGS/NEFT & Internet Banking only.

2.6 This Tender document is not transferable.

2.7 Schedule for Invitation of Tender:-

2.7.1 Time and date for receipt of Tender: - 17.06.2014 **at 12:00 p.m.**

2.7.2 Time & Date of opening of technical bids: 19.06.2014 **at 11:00 a.m.**

2.7.3 Time & Date of opening of financial bids: 26.06.2014 **at 11:00 a.m.**

2.7.4 Validity of the tender will be upto 31-03-16.

2.8 The bidder shall strictly abide by the time schedule for **Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab** as per work order**.**

2.9 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may at its sole discretion, award the work to more than one bidder if the lowest rates of bidder are same.

2.10 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab reserves the right to cancel any or all the bids without giving any reason whatsoever.

2.11 The amendment will be notified by general advertisement, or website "www.ssapunjab.org" OR "http//e-tender.punjabgovt.gov.in."

3. Approach

3.1 Consequent upon issuance supply order to undertake the job in favour of the successful bidder, the concerned bidder shall deposit Performance security @ 10% of total value of work/supply order through Bank Guarantee/FDR/Demand Draft.

3.2 The quality of the material can be got tested/checked at random at the cost of the contractor by the technical Sub-Committees.

3.3 If the quality /standard of equipment , chemicals and other material is not found as per standard /specifications , the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may without prejudice to any other remedy for breach of contract, by written notice of the fault send to the bidder, terminate the contract in whole or part thereof.

4. TENDER EVALUATION: -

4.1 The bidders will selected for financial bid of this tender, who will qualify the technical bid.

4.2 The Earnest Money Deposit of selected bidders will be refunded after submission of Performance Security and the EMD's of the Unsuccessful bidders will be refunded after the completion of tender process.

5. Cost of submission of Tender document: -

5.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, including cost of presentation for the purposes of clarification of the bid, if so desired by the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

5.2 The Bidder is expected to carefully examine all instructions, forms, terms, and specifications in the Tender Document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect will be at the Bidder's risk and may result in the rejection of the bid.

6. Clarification regarding Tender Document:-

6.1 A prospective Bidder requiring any clarification of the Tender Document may contact the office of The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab personally. The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab will try to respond to the query then and there. However, submission of request for clarification will not entitle the Bidder for any extension of time in submission of the Tender Document.

7. Amendments in the Tender Document:-

7.1 At any time up to the last date for submission of bids, the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by any amendment.

7.2 The amendment will be notified by general advertisement, /website "ssapunjab.org," /through letter, FAX or Email to the prospective Bidder(s) who have received the Tender Document and the same will be binding on them.

7.3 In order to afford prospective Bidder(s) reasonable time, or otherwise for any other reason, in which to take the amendment into account in preparing their bids, the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may, at its discretion, extend the last date for the submission of their Bids.

8. Language of Bids:-

8.1 The Bids prepared by the Bidder and all correspondence and documents relating to the bids exchanged by the Bidder and the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

9. Selection Process:-

9.1 Assessment of the documents will be done by a committee constituted for this purpose. Those agencies who have submitted all necessary enclosures and fulfill eligibility criteria will be evaluated by the Committee.

10. Delays in the Supplier's performance: -

10.1 Delivery of Material and performance of the services shall be made by the bidder/ supplier in accordance with the schedule specified by the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab at the time of issuance of work/supply order.

10.2 Any unexcused delay by the supplier in the performance of its delivery obligations shall render the supplier for any or all of the following:

(i) Forfeiture of its performance security.

(ii) Imposition of liquidated damages; and

(iii) Termination of the contract for default.

11. Liquidated Damages: -

11.1 Subject to the Force Majeure clause, if the supplier fails to deliver any or all of the goods within stipulated period(s) specified in the work/supply order, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the supply order price, as liquidated damages, a sum equivalent to 2 % (two percent) of the price of the delayed Material or unperformed services for each week or part thereof for delay until actual delivery or performance, up to a maximum deduction of 10% of the delayed goods or services contract price. Once the maximum is reached, the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab might consider termination of the contract.

11.2 In addition, the supplier will be liable to be blacklisted and the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may levy penalties as per terms and conditions of the Tender Document.

11.3 In case of termination or cancellation of the contract, the supplier's EMD and/ or contract performance security will be forfeited.

12. Suspension of Payment: -

12.1 The client may after written notice of suspension to the supplier, suspend all payments to the supplier under the contract, if the supplier fails to perform any of its obligations under this contract provided that such notice of suspension.

12.2 Specifying the nature of the failure;

12.3 Requests the bidder to remedy such failure within a specified period from the date of receipt of such notice of suspension by the bidder.

13. Termination for default: -

13.1 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the contract in whole or part and forfeit his EMD/ Performance Security if:

(i) The supplier fails to deliver any or all of the goods within the time period(s) specified in the work/supply order, or any extension thereof granted by the purchaser.

(ii) The supplier fails to promptly replace any goods rejected when submitted for testing or subject to a recall ordered by the applicable regulatory authority due to unacceptable quality or rejected at the time of delivery or at later stage when opened; or

(iii) The supplier fails to perform any other obligation(s) under the contract.

(iv) The supplier, in the judgment of the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab has engaged in corrupt or fraudulent practices while competing for or in executing the contract.

13.2 In the event, the purchaser terminates the contract, in whole or in part, the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may procure, upon such terms and in such manner, as it deems appropriate, goods similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar Material. However, the supplier shall continue the performance of the contract to the extent not terminated.

14. Termination of insolvency: -

14.1 The purchaser may, at any time, terminate the contract by giving written notice to the supplier, without compensation to the supplier, if the supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

15. Termination for convenience:-

15.1 The purchaser may, by written notice sent to the supplier, terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the purchaser's convenience, the extent to which performance of work under the contract is terminated and the date upon which such termination becomes effective.

15.2 The goods that are complete and ready for supply as per mention in work order after the supplier's receipt of notice of termination shall be purchased by the purchaser at the contract terms and prices. For the remaining goods, the purchaser may elect to:

(i) Have any portion completed and delivered at the contract terms and prices, and/or

(ii) Cancel the remainder and pay to the supplier an agreed amount for partially completed goods and for material and part previously procured by the supplier.

16. "NO CLAIM" Certificate: -

16.1 The bidder shall not be entitled to make any claim, whatsoever, against the client under or by virtue of or arising out of this contract nor shall the client entertain or consider any such claim, if made by the bidder after he shall have signed a "no claim" certificate in favour of the client in such forms as shall be required by the client after the works are finally accepted.

17. Taxes and Duties: -

17.1 Suppliers shall be entirely responsible for all the taxes including incurred until delivery of the contracted goods to their final destination as prescribed by the purchaser.

18. Confidentiality:-

18.1 The bidder and their personnel shall not, either during the term or after expiration of this contract, disclose any proprietary or confidential information relating to the services, contract or the client's business or operations without the prior written consent of the client.

19. Use of contract documents and information: -

19.1 The supplier shall not, without the prior written consent of the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab**,** disclose the contractor any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the **Project Director** in connection therewith to any person other than person employed by the bidder in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

19.2 The bidder shall not, without the prior written consent of the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab make use of any document or information.

19.3 Any document other than the contract itself shall remain the property of the **Project Director** and shall be returned (in all copies) to the client on completion of the bidder's performance under the contract, if so required by the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab.

20. Force Majeure: -

20.1 Notwithstanding the provisions of the bid, the bidder shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform the obligations under the contract, is the result of an event of Force Majeure.

20.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the bidder and not involving the bidder's fault of negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab either in its sovereign or contractual capacity, wars, or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

20.3 If a Force Majeure situation arises, the bidder shall promptly notify the client in writing of such conditions and the cause thereof. Unless otherwise directed by the client in writing, the bidder shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab may terminate this contract, by giving a written notice of minimum 30 days to the bidder, if , as a result of Force Majeure, the bidder is unable to perform a material portion of the contract for a period of more than 60 days.

20.4 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab has the right to impose an additional penalty as he deems fit in case the general get up of the Material is defective and/ or standard of production is not satisfactory.

20.5 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab can also forfeit the whole bill amount of the firm in case of grave defects of very bad material.

21. <u>Corrupt or Fraudulent practices</u>: -

21.1 The project requires the clients as well as the bidders to observe the highest standards of ethics during procurement and execution of their contracts. In pursuance of this policy, the project defines, for purpose of this provision, the terms set forth below as follow:

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

(ii) "Fraudulent Practice" means misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the client, and includes collusion practice among bidders (prior to or after bid submission) designed to establish bid price at artificial, non- competitive levels and to deprive the client of the benefits of free and fair competition.

22. <u>Time schedule for completion of supply</u>: -

22.1 A time limit for delivery of material required will ordinarily be fixed by the authority issuing the work order in, each case, having regard to the quantum, nature and magnitude of the work involved.

23. <u>Force Majeure:-</u>

23.1 Notwithstanding the provisions of the bid, the bidder shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform the obligations under the contract, is the result of an event of Force Majeure.

24. <u>Arbitration:-</u>

24.1 All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the sole arbitrator i.e. the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab**.** The award of the sole arbitrator shall be final and binding on both the parties under the provisions of the Arbitration and Conciliation Act, 1996 or by statutory modification re-enactment thereof for the time being in force. Such arbitration shall be held at Mohali.

24.2 In all matters and disputes arising hereunder the appropriate Courts at Mohali shall have jurisdiction to entertain and try them.

25. Miscellaneous: -

25.1 The tender should be signed by the Proprietor/ Partner(s)/ Managing Director/Director of the firm. If the tender is signed by authorized signatory then it should be accompanies with an undertaking/certificate by the proprietor/ partner/ Managing Director/Director that he/they would be responsible for the commitments made by the authorized signatory. The undertaking/certificate as per Performa "II" should also bear 3 signatures of the authorized signatory duly attested by the Proprietor/Partner(s)/Managing Director/Director.

25.2 The successful bidder must note that all the conditions of the tender and contract, given here are final. The tender once submitted shall remain valid for a period of 90 days from the last date fixed for their receipt in the office and cannot be withdrawn/ altered/ cancelled in part or as a whole during this period. No request for any relaxation or amendment or change in any of the conditions intimated by any firm would be considered in all matters relating to the interpretation of any conditions of the tender or the contract, the decision of the **Project Director** shall be final and binding on the printer.

25.3 **Approved rates should be valid upto 31 March, 2016. The Supply order will be placed in whole or in parts within the stipulated period as per the demand of the school.**

25.4 Physical verification of the firm's premises may be done if need be by the committee constituted by the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab.

25.5 In case a bidder adopts corrupt and fraudulent practices including fraud and misrepresentation of facts and tries to influence the tender process by any illegal means or tries to put any pressure to any authority dealing with the tendering process, his EMD shall be forfeited.

25.6 Any breach of the contract by the firm or failure to supply a given quantity of the science kits, or failure to show progress of the work, the department will have to rescind the contract by giving the notice and earnest money of the tenders shall be forfeited. If the material is of a low or poor or inferior quality, which is not in accordance to the specification as accepted in the tender, the Department will have a right to rescind the contract in all the above mentioned circumstances. The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab reserves the right to forfeit the EMD or security deposit or both. Further, if the material supplied is of sub-standard then the department also has right to deduct the 20% payment out of total payment for which the firm is entitled. The Department has also right to return the sub-standard material to the supplier firm at the cost of the firm and to forfeit the entire payment amount and the firm shall be asked to supply fresh material as the specifications demanded earlier, if department thinks so.

25.7 The material should be as per specification. Suitable deductions will be made from the supplier's bill on account of defective supply of material and broken items. In case Material are totally rejected the Material will be destroyed without any payment for it. The decision of the Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab, on the report of the technical officers of the department shall be final in this respect.

25.8 Any violation of any terms and conditions of this tender would result in forfeiture of earnest and security money along with cancellation of contract in addition to other penal action as per the provisions of criminal/ civil law.

25.9 <u>The Tenderer should be Manufacturer, Supplier or may be Authorized dealer.</u>

26. <u>Other Terms & Conditions</u>

26.1 DPI (SE), Punjab will review the performance of the material supplied by the successful bidder and will take action as deemed fit in case of supply of material will be not satisfactory. If required their security deposit can be forfeited.

26.2 The **Supply of material/equipments/chemicals for Physics, Chemistry & Biology (PCB Kits) for 6 Meritorious Senior Secondary School (for Senior Secondary Classes) in the State of Punjab** will be awarded purely on e-tender process.

26.3 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab will review the performance of the selected bidders and reserves its right to withdraw the tender at any time.

26.4 Any other information in regard to tender will be enumerated in the tender document for job from time to time.

26.5 The Project Director, Society for promotion of Quality Education for Poor and Meritorious Students of Punjab reserves its right to terminate the contract of any agency/agencies in case of change in the Government procedures or unsatisfactory services.

26.6 Only price/specification quoted in E-Tender will be accepted. Hard copy will be opened in specific circumstances at the whole discretion of DGSE-Cum-Chairman Standing Purchase Committee.

SECTION – VI

PERFORMA – "I"

(Referred to clause no. 1.3)

(To be typed on Company Letter Head)

TO WHOM SO EVER IT MAY CONCERN

I _____

*Proprietor/Partner(s)/Managing Director/Director of M/s _____

_____ do

hereby authorize Mr. /Mrs._____ S/o __

_____ R/o _____

_____ to sign the tender document for **Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab in respect of Tender No:** Special/PCBkits for 6 Meritorious Senior Secondary Schools (works)**Dated:- 26-05-14** on my/our behalf.

Further it is certified that the decision taken by him/her on the spot of tender and thereafter are final and will be binding on us.

His/her three signatures are attested below:

Signature (1)	Signature (2)	Signature (3)
(of person authorized)	(of person authorized)	(of person authorized)

Attested by

Proprietor/Partner(s)/Managing Director/Director

* Strike out whichever is not applicable.

PERFORMA – "II"

(Referred to clause no. 1.4)

(To be submitted by the bidder firm on non judicial stamp paper of Rs. 10/- (Rupees Ten only) duly attested by Public Notary along with Technical Bid)

AFFIDAVIT

I, _____ s/d/o _____ r/o _____ in capacity of Proprietor/Partner(s)/Managing Director/Director/Authorized Signatory of M/s _____ _____ do hereby solemnly affirm and declare that:

1. I/we have read all terms and conditions of the Tender Document carefully and undertake to abide by them faithfully.
2. My/our organization does not have any legal suit/criminal case pending against it for violation of PF/ESI/MW Act or any other law.
3. My/our firm has not been blacklisted or debarred by any state or Central government organization.
4. My/our firm has not been involved in the supply of spurious Material and has not been penalized by Project Director any state or Central government organization for misrepresentation or for adopting corrupt practices.
5. The information furnished in all parts of this Tender Document is accurate and true to the best of my knowledge.
6. My/our firm shall not pay any type of commission to any person in regards to this tender.
7. My/our firm will not place any other material in addition in any case to the order placed by the **Project Director.**
8. I/we fully understand that in case of above certificate/declaration are found false, I/we shall be liable to any penalty as per terms & conditions including criminal/civil prosecution under law.

Deponent

Date:

Place:

Verification:

I, _____ s/d/o _____ r/o _____ in capacity of Proprietor/Partner(s)/Managing Director/Director/Authorized Signatory of M/s _____ _____ hereby solemnly affirm and declare that the above affidavit is true and correct and no part of it is false and nothing has been concealed there from.

Deponent

Date:

Place:

PERFORMA – "III"

(Referred to clause no. 1.5)

(To be typed on Company Letter Head)

DECLARATION

To,

The Project Director,
Society for promotion of Quality Education for Poor and Meritorious Students of Punjab C/o Director General School Education
Punjab School Education Board,
Block-E,5th Floor, Ph-8, Mohali.

Subject: **For Supply of Physics, Chemistry & Biology Material/Equipment (PCB Kits) for 6 Meritorious Senior Secondary Schools (for Senior Secondary Classes) in the State of Punjab**

Dear Sir,

We, the undersigned Bidder, having read and examined in detail the specifications and all bidding documents in respect of **Tender No.** Special/PCBkits for 6 Meritorious Senior Secondary Schools (works) **Dated:- 26-05-14** do hereby propose to provide services as specified in the bidding document.

1 The terms and conditions of this proposal are valid for a period of 90 calendar days from the last date of submission of bids.

SECURITY DEPOSIT

I have paid tender cost Rs _____/- and Earnest money to Rupees _____/- through RTGS/NEFT/E-payment.

QUALIFYING DATA

We confirm having submitted qualifying data as required by you in your tender document. In case you require any further information/documentary proof in this regard before financial bid, we agree to furnish the same in time to your satisfaction. We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of our knowledge & belief.

Thanking you,

Yours faithfully,

(Signature)

PERFORMA-"IV"

CHECK LIST FOR PRE QUALIFICATION CUM TECHNICAL BID

Sr. No.	Description	Give Details or write Upload/Not Upload/Yes/No.
1.	Name of the Company/Firm/Organization	
2.	Nature of the Company/Firm/Organization (Govt./Public/Private/Partnership/ Proprietorship)	
3.	Address	
4.	Phone and Fax No.	
5.	E-Mail ID	
6.	Whether Tender Cost of Rs. 1,000/- by e-payment only**.** (clause 1.1) write Yes/No	
7.	Whether Security deposit of Rs. 6,60,000/- by e-payment only**.** (clause 1.2) write Yes/No.	
8.	Whether Certificate for authorize signatory as per Performa "I" uploaded (clause 1.3) write Upload/Not upload	
9.	Whether An Affidavit as per Performa "II" uploaded (clause 1.4) write Upload/Not upload	
10.	Whether Declaration as per Performa "III" typed on Company letter head uploaded (clause 1.5) write Upload/Not upload	
11.	Whether Copy of PAN Card uploaded (clause 1.7) write Upload/Not upload	
12.	Whether Copy of EPF No. (if firm covered under EPF Act.) uploaded (clause 1.8) write Upload/Not upload/Not Applicable	
13.	Whether Copy of Sale Tax No. & SSI Registration Certificate uploaded (clause 1.8) write Upload/Not upload	
14.	Whether Copy of latest Income Tax Return for last three years (of financial Year 2010-11 to 2012-13) (clause 1.9) write Upload/Not upload	
15.	Whether Copy of audited P&L accounts and Balance Sheets for last three years & last three years turnover 1.50 crore annually for financial session 2010-11 to 2012-13 must be uploaded (clause 1.10) write Upload/Not upload	
16.	Whether Tender is unconditional (clause 1.11 write Yes/No.	
17.	Whether the firm is an ISO? write Yes/No, if yes then documentary evidence uploaded on page no. (clause 1.14) write Upload/Not upload.	
18.	A sample of the sealed science kit (including all items) as per annexed Performa 'V' in tender should be submitted along with the hard copy of tender document duly signed by authorized signatory.	

PERFORMA – "V"

(Referred to clause no. 1.13)

(FINANCIAL BID)

Subject :- Physics/chemistry / Biology **As it relates**

Sr. No.	Name of Item along with Specification	Quantity	Rate Quoted (In Figure and In words)
Lab Appratus required for physics lab for(Class 10+1) for group of 25 students			
1	Vernier caliper 125mm with Wheel Drive Antirust stain less Steel	24	
2	Screw Gauge 25mm (Least Count =0.001cm) Semi Circular Brass Body, Screw of Stain less Steel antimagnetic with rachet stop, arrangement.	24	
3	Spring balance (Body made up of acrylic) 250 gm capacity.	12	
4	Spherometer made of gun metal screw, legs of stainless steel,head divided in 100 divisions reading upto 0.001 cm, vertical scale 10-0-10	24	
5	Physical Balance, with brass beam, teak wood polished showcase, capacity 250 gm, sensitivity 1 mg double door.	2	
6	Stop watch mechanical (1/10 sec in metal case)	8	
7	Parellogram law of forces apparatus,(Gravesand' Appratus), comprising of black plywood board, 3 sets of M.S chrome plated slotted wts of 250 gm each (50gm x 5) with hooks, 2 metalic pullies, plumb line.	8	
8	Projectile appartaus comprising of 1 plywood D (angled from 0-180°) fitted on Superior board of size 24" x 4",fitted with metter rule having water jet arrangement fitted with it	4	
9	Young Modulus apparatus, made on searles pattern brass frame with dead weight and clamp, dead weight 1kg, screw graduated micrometer with LC 0.001 cm, 1kg Hanger, 1/2 kg slotted weights, a wire roll 250 gm, rigid support for hanging apparutus.	4	
10	Hook's law apparatus, (Helical Spring), adustable mirror scale mounted on a sturdy support 50 cm High, supplied with an adustable hook and wieght hanger of 250 gm (50gm x 5)	8	
11	Travelling Microscope , with length 165 cm horizontally & 14 cm verticaly, provied with Stain less Steel scale. Vernier reading 0.01mm, (with Horizontal and Vertical motion with achromatic objectives with 10 x Ramsden eye piece with Stain less Steel Scale & vernier packed in an appropriate plywood polished case.	6	
12	**Surface Tension apparatus :** capillary tubes with different bores,capillary stand provided with a tipped needle of adjustable height, a glass dish, with adjustable table.	6	
13	Newton's law cooling apprataus with copper calorimeter single stirrer & Lidstand.	8	
14	Inclined Plane (with border) Size 600 x100 mm Friction less top (glass top), Hinged to the Base at one end & provided with a pulley for the forced Cord at the other end, Provided with a roller of steel/chrome plated of size 80 mm, stainless steel pan & one trolley Arc of size 6.5 (inch) and 35 angle (approx), wooden block with hook.	8	
15	Viscocity Apparatus Graduated cylinder 100 cm long made of glass and diameter 32mm including steel/lead balls & gylicerine bottle of 500 ml. Cylinder is fitted on cast iron base. The whole unit to be fitted with scale of size 100cm	6	

16	Resonance apparatus (A Metallic Resonance tube and reservior, fitted with 100 cm long scale printed with mm on both side. The reservior having sliding arrangement on MS chrome plated rod.	10	
17	Double inclined track , one steel ball, two wooden blocks.	4	
18	Bimetalic strips Brass, iron with wooden handle	8	
19	Mass box in 1-2-2-5 series upto 200 gms. brass chrome plated (analytical) Packed in wooden case	8	
20	Metallic Bob with hook 18mm ± 2mm brass.	12	
21	Metallic rectangular block (which can be dipped in 250 ml measuring cylinder)	20	
22	Metallic spherical body (1 cm dia)	20	
23	Plastic beaker 250 ml	20	
24	Sono meter large size,brass fitting with two sharp edged knife edges & cast iron weight set of 2.5kg (Including hanger, slotted weights 0.5 kg)	8	
25	Tuning Fork (heavy weight stain less steel) set of 8 pc (including rubber pad)	8	
26	Thermo meter (Half Degree centigrade) filled with mercury 0-100 C	16	
27	Glass slab 75mm±5mmx50mm±5mmx18mm±2mm (Crown Glass/Flint Glass)	24	
28	Meter rod 100cm ± 2mm wooden and metallic	8 each	
29	Magnifying glass with Steel handle	12	
30	Finger Clamp made of brass,prongs cross one another, Finger clamps holds up to 60mm dia,stand made of cast iron base of size 8" x 5", rod length & dia 24" x 1/2".	12	
31	Splitted wooden cork	40 pcs	
32	Boyle's Law apparatus with graduated scale of 0 to 100 cm with mm divisions.	6	
33	Fortin's barometer.	2	
34	Glass beaker (250ml)	16	
35	Tripod stand	12	
36	wire gauge	8	
37	Round bottle glass flask fitted with rubber cork with one central hole.	8	
38	Water bath	4	
where ISI marked items are available in the market, only those (ISI marked) must be supplied			
Lab Appratus required for Physics lab for (Class 10+2) for group of 25 students			
1	Glass prism 2" x 2" Fine quality,(Crown Glass/Flint Glass)	30	
2	Magnetic compass 50mm ± 5mm both side glass transparent Dia 18mm in aluminium case	8	
3	Bar Magnet 50mm ± 5mm (Alnico)	4 selts	
4	Drawing Boards soft wood 300x450±10mmx18mm±2mm	50	
5	Rechargeable cell with charger	8	
6	Resistance box plug type 0- 5000 Ohms fitted with brass plugs of plastic heads, contact blocks made of brass which are fitted on bakelite base. The whole assembly fitted on a appropriate polished wooden box	12	
7	Resistance box plug type 0- 1000 Ohms fitted with brass plugs of plastic heads, contact blocks made of brass which are fitted on bakelite base. The whole assembly fitted on a appropriate polished wooden box	12	
8	Optical bench, 1.5 meter long, double steel rods,(chromium plated) having cast iron feet with leveling screws, four uprights (two having slow transfer motion), two lens holders, two opticals steel needle.(one rod marked with mm scale.	8	
9	Common emitter Transistor,(PNP,NPN) characteristics apparatus fitted with terminals & two meters with regulated power supply.	8	

10	Zener diode characteristics apparatus fitted with terminals & two meters with regulated power supply.	8	
11	P.N junction diode apparatus with terminals and two meters with regulated power supply.	8	
12	Constantan wire 28 SWG on a plastic reel 100 gm	2	
13	Digital multi meter	4	
14	Analogue Multimeter	4	
15	Mirror strip with holder 100x25 mm ± 2mm	20	
16	Resistance coils (2,5,10,20, ohms) with brass terminal.	4 (sets) x 12	
17	Voltmeter (0-5V) , Square type grade A	12	
18	Galvanometer 30-0-30 ,Grade A Square type	12	
19	DC Ammeter (0-3 Amp),Square type grade A	12	
20	DC Milliammeter (0-500 mA)	12	
21	DC Ammeter (0-1.5 Amp) Square type grade A	12	
22	Battery eliminator 2 Amp 0-12 volt in steel cabinet, socket.	12	
23	Potentiometer 4 wired Brass Connection with 1 meter rod with pencil jockey & brass terminals fitted with constantan wire.	8	
24	Slide wire bridge specially designed to take accurate reading on thick plywood board with brass, chrome plated strip having brass chrome plated terminals complete with pencil jockey.	8	
25	Copper Connecting wire double cloth covered 500gm	8	
26	One way key with brass block with brass terminals.	20	
27	Two way key with brass block with brass terminals.	16	
28	Rheostat standard grooved patterns 5.6" diameter and length 10".	12	
29	Convex Lens dia 2 inch focal length 15 cm	20	
30	Convex Lens dia 2 inch focal length 20 cm	20	
31	Concave lens dia 2 inch focal length 15 cm	20	
32	Concave lens dia 2 inch focal length 20 cm	20	
33	Concave mirror 15 cm F.L. dia 2"	20	
34	Concave mirror 20 cm F.L. dia 2"	20	
35	Convex mirror 15 cm F. L dia 2"	20	
36	Convex mirror 20 cm F. L dia 2"	20	
37	Step down transformer (220V to 6V)with electromagnet (to find frequency of a.c current).	4	
38	Pair of Polaroids (including white plastic sheet)	4	
39	Wooden optical bench including wooden uprights to hold translucent screen in wooden frame,wire guage screen fitted in wooden frame,lens/spherical mirror.	4	
40	Measuring Cylinder 250ml, borosilicate glass	12	
41	Holder for two convex lens (lenses in contact)	8	
42	Cell holder for 4 'D' type cells box outer size 135 x 75 x 35 mm with cover.	16	
43	Manganin/Eureka wire roll (250 gm)	4	
44	Wooden wedge	16	
where ISI marked items are available in the market, only those (ISI marked) must be supplied			
Apparatus for 50 students (Two Batches of 25 each)			
Chemistry Lab Requirement for XI and XII Class **Chemical List (L.R.)**			
1	Aceitic Acid Glacial 500ml	3	
2	Acetone 500ml	2	
3	Acetamide 250gm	2	
4	Ammonia Solution 500ml	6	
5	Acetaldehyde 500ml	2	
6	Aluminium Potassium Sulphate 500gm	2	
7	Aluminium Chloride 250gm	2	
8	Aluminium Nitrate 500gm	2	

9	Aluminium Sulphate 500gm	2	
10	Aluminium Phosphate 250gm	2	
11	Ammonium Sulphide 500ml	2	
12	Ammonium Acetate 500gm	2	
13	Ammonium Chloride 500gm	4	
14	Ammonium Carbonate 500gm	2	
15	Ammonium Bi Carbonate 500gm	2	
16	Ammonium Ferrous Sulphate 500gm	6	
17	Ammonium Molybdate 50gm	2	
18	Ammonium Sulphate 500gm	2	
19	Ammonium Oxalate 500gm	2	
20	Ammonium Phosphate 500gm	2	
21	Ammonium Thiosulphate 500gm	2	
22	Aniline 500ml	2	
23	Barium Chloride 500gm	2	
24	Barium Sulphate 500gm	2	
25	Benzene 500ml	2	
26	Benzamide 250gm	2	
27	Benzaldehyde 500ml	2	
28	Benzoic Acid 250gm	2	
29	Benedict Solution 250ml	2	
30	Bleaching Powder 500gm	2	
31	Bromine Water 500ml	2	
32	Bromo Phenol Blue 100ml	2	
33	Cadmium Nitrate 100gm	2	
34	Cadmium Carbonate 100gm	2	
35	Calcium carbide 250gm	2	
36	Calcium Chloride fused 500gm	2	
37	Calcium Carbonate 500gm	2	
38	Calcium Hydroxide (Lime Water) 500ml	4	
39	Carbondi sulphide 250 ml	2	
40	Castor Oil 250ml	2	
41	Cotton Seed Oil 250ml	2	
42	Cerric Ammonium Nitrate 100gm	2	
43	Chlorine Water 500ml	2	
44	Chloroform 500ml	2	
45	Cinnamic Acid 250gm	2	
46	Cobalt Acetate 100gm	2	
47	Cobalt Chloride 100gm	2	
48	Cobalt Nitrate 50gm	2	
49	Copper Chloride 500gm	2	
50	Copper Sulphate 500gm	6	
51	Copper Metal Turning 250gm	2	
52	Charcoal Activated 250gm	2	
53	Di Nitro Phenyl Hydrazine 25gm	2	
54	Dextrose 500gm	2	
55	Distilled Water 5lit	2	
56	Di Methyl Glyoxime 25gm	2	
57	Di Phenyl Amine 100gm	2	
58	Petrolium Ether 500ml	2	
59	Ferric Ammonium alum crystal 250gm	2	
60	Fehling Solution A 500ml	2	
61	Fehling Solution B 500ml	2	
62	Ferric Chloride 250gm	4	
63	Ferrous Sulphate 500gm	5	
64	Ferrous Sulphide sticks 500gms	5	
65	Glycerine 500 ml	2	

66	Gelatine 250gm	2	
67	Gum Accica 250gm	2	
68	Ground Nut oil 250ml	2	
69	Hydrogen peroxide 6% (20 Volumes) 500ml	2	
70	P.H.Paper 1-14 pk of 200lvs	4	
71	Iodine 25gm	2	
72	Lead Peroxide 250gm	2	
73	Lead Acetate 250gm	3	
74	Lead Chloride 250gm	2	
75	Lead Sulphate 250gm	2	
76	Litmus solution blue 500ml	3	
77	Litmus solution red 500ml	3	
78	Litmus paper red pk of 200lvs	6	
79	Litmus paper Blue pk of 200lvs	6	
80	Magnesium Sulphate 500gm	2	
81	Magnesium Chloride 500gm	2	
82	Magnesium Ribbon 25gm	4	
83	Manganese Dioxide 500gm	2	
84	Manganese Sulphate 250gm	2	
85	Manganese Chloride 500gm	2	
86	Millons Reagent 125ml	1	
87	Methyl Orange 50gm	2	
88	Methyl Yellow 50gm	2	
89	Mercuric Iodide 100gm	2	
90	Mercuric Chloride 100gm	2	
91	Alpha-Napthol 250gm	2	
92	Beta-Napthol 250gm	2	
93	Ninhydrine 10gm	2	
94	Nesslers Reagent 100ml	3	
95	Nickel Chloride 100gm	2	
96	Nickel Nitrate 100gm	2	
97	Oxalic Acid 500gm	3	
98	Parafin liquid Heavy 500ml	2	
99	Phenolphthalein powder 50gm	2	
100	Phenol 500gm	2	
101	Potassium Sulphate 500gm	2	
102	Potassium Oxalate 500gm	2	
103	Potassium Nitrate 500gm	2	
104	Potassium Nitrite 250gm	2	
105	Potassium Chloride 250gm	3	
106	Potassium Chromate 250gm	2	
107	Potassium Dichromate 250gm	2	
108	Potassium Iodide 50gm	2	
109	Potassium Hydroxide Pellets 250gm	2	
110	Potassium Permagnate 250gm	5	
111	Potassium ferricyanide 250gm	2	
112	Potassium ferrocyanide 250gm	2	
113	Potassium Thiocyanate 250gm	2	
114	Resorcinol 50gm	2	
115	Silver Nitrate 10 gm	2	
116	Schiffs Reagent 250ml	2	
117	Sodium Acetate 500gm	2	
118	Sodium oxalate 500gm	2	
119	Sodium Thiosulphate 500gm	2	
120	Sodium Chloride 500gm	2	
121	Sodium Bi Carbonate 500gm	2	
122	Sodium Carbonate 500gm	2	

123	Sodium Hydroxide pellets 250gm	3	
124	Sodium bi Sulphite500gm	2	
125	Sodium Metal 100gm In Liquid Parafin	2	
126	Sodium Nitroprusside 50gm	3	
127	Sodium Nitrate 500gm	2	
128	Sodium Nitrite 500gm	2	
129	Sodium Sulphate 500gm	2	
130	Sodium Sulphide 250gm	2	
131	Sodium Sulphite 250gm	2	
132	Salicylic Acid 500gm	2	
133	Strontium Chloride 100gm	2	
134	Starch Soluble 500gm	2	
135	potassium bromide 250 gm	2	
136	Urea 500gm	2	
137	Universal Indicator Solution 500ml (pH range 1-14)	3	
138	Zinc Dust 100gm	2	
139	Zinc Chloride 250gm	2	
140	Zinc Sulphate 500gm	2	
***** Salts /Chemicals Should be of Standard Brands Nice,Thomas Baker,S.D.Fine,Alpha Chem, Sisco, Merck, Ranchem, BDH, Fisher, spectrochem, Loba Chemie.all chemicals must be L.R grade			
***** As per State/ Central Govt. Instructions, Banned items should not be quoted/supplied			
Specification for Science Lab Equipment & Consumable for Class 10+1 & 10+2			
1	Buchner Funnel 4” Porcelain	4	
2	Bunsen Burner(150mm) without stop cock of thick brass tube with screw type air regulator, Chrome plated with painted base	8	
3	Blow pipe 8” chrome plated heavy	30	
4	Bottle Brush (Medium)	30	
5	Beaker Graduated 20-80 with spout 100ml Borosilicate glass	50	
6	Beaker Graduated 50-200 with spout 250ml Borosilicate glass	50	
7	Beaker Graduated 100-400 with spout 500ml Borosilicate glass	50	
8	Burette 50ml, sub-division 0.10ml, tolerance .10ml, Borosilicate ISI with PTFE key Stop cock	50	
9	Conical Flask 250ml (Borosilicate)	50	
10	Capillary Tubes(round) both ends open pack of 100pcs	2	
11	Centrifugal machine of regular quality, hand driven with 4 poly tubes	2	
12	chromatographic glass jar with cover having hook for paper chromatography, single paper hanging with 100 chromatography paper sheets of size, 20x10cm	8	
13	Chemical Analytical balance	2	
14	Cork borer brass, heavy type, Chrome plated set of 3	2	
15	Charcoal block 4”X1” packet of 12 pcs	4	
16	China Dish 4” Porcelain	50	
17	Copper plate 175X37.5mm±5mm with terminal	4	
18	Chart Periodic Table(150X100cm±5cm) laminated both sides with plastic roller	2	
19	Desiccator with cover (neutral glass) 6"	2	
20	Dropper 8” neutral glass with rubber teat	40	
21	Dropping/Reagent bottle with interchangeable dropper and rubber teats(neutral Glass) 125ml	40	
22	Dropping/Reagent bottle with interchangeable dropper and rubber teats(neutral Glass) 250ml	40	

23	Dropping/Reagent bottle with interchangeable dropper and rubber teats(neutral Glass) 500ml	20	
24	Funnel 50mm (Borosilicate Glass)	40	
25	Funnel 100mm(Borosilicate Glass)	40	
26	Fusion Tubes ordinary glass pkt of 200 tubes	Two Pack	
27	Filter Paper No. 1, dia 12.5 cm 100 circles ordinary	20	
28	Flask round bottom of 250 ml capacity, socket size 24/29	4	
29	Finger Clamp 65mm to hold Liebig condenser	4	
30	Filtering Flask, Heavy wall, bolt neck with tabulation (to be used with Buchner funnel) (Borosilicate Glass)	4	
31	Glass Tube 7mm 1Kg pack (borosilicate glass)	4	
32	Glass Rod 8”	50	
33	Graduated Pipette 10ml with sub-division 0.10ml	4	
34	Hard boiling glass tube 25ml	20	
35	Kipp’s Apparatus Plastic 500ml capacity with stop cock and jet	2	
36	Liebig condenser socket and cone 24/29 300mm effective length with adapter	4	
37	Measuring Cylinder 10ml (Borosilicate Glass)	10	
38	Measuring Cylinder 50ml(Borosilicate Glass)	10	
39	Measuring Cylinder 100 ml(Borosilicate Glass)	10	
40	Measuring Cylinder 500ml(Borosilicate Glass)	10	
41	Pestle and Mortar 5”	10	
42	Platinum Wire 35X0.2mm fused in glass rod and fitted in test tube	10	
43	Pipette Single Mark Borosilicate glass 10ml	50	
44	Pipette Single Mark Borosilicate glass with 20ml	50	
45	Porous pot(porcelain)	2	
46	Round Bottom Flask 100ml (Borosilicate Glass)	4	
47	Rubber corks single hole and two hole assorted	Two Pack	
48	Rubber corks No. 2,3,4,5,6,7,8 pack of 5pcs each	Two Pack	
49	Ordinary Rubber Hose 8mm 2meter	Two	
50	Stand made of cast iron with painted base 8”x5”, Rod chrome plated of size 24”x1/2” with burette clamp	30	
51	Stop watch single button Mechanical	2	
52	Sand paper	4 Sheets	
53	Spirit lamp (aluminium) with cap	50	
54	Spatula stainless steel one end spoon 8”	50	
55	Stirrer (neutral Glass)	50	
56	Separating Funnel 250ml pear shape Borosilicate glass with PTFE Stop cock	4	
57	Test Tube 15x125mm±2mm (borosilicate glass) with rim packed in grooved plastic tray of capacity 10 pieces packed in 50 pcs box	2	
58	Test Tube 12x75±1mm (borosilicate glass)	200 Pcs	
59	Test Tube 15x150 ±2mm (borosilicate glass)	200 Pcs	
60	Test Tube stand 6 tube plastic	50	
61	Test tube holder wooden handle 175mm ±15mm	50	
62	Test tube brush cleaner	40	
63	Tripod stand 6inch x 4 inch triangular	50	
64	Triangular file	4	
65	Thermometer alcohol filled -10C to 110C ½ division	20	
66	Thermometer mercury 0-300C 2/1 division	20	
67	Voltmeter 0-10 V with stand	2	
68	Volumetric Flask 250ml Borosilicate glass with single mark and interchangeable stopper	8	
69	Volumetric Flask 500ml Borosilicate glass with single mark and interchangeable stopper	4	
70	Volumetric Flask 1000ml Borosilicate glass with single mark and interchangeable stopper	4	

71	Volumetric Flask 2000ml Borosilicate glass with single mark and interchangeable stopper	4	
72	Watch glass ordinary 4”	12	
73	White Glazed tiles 6”x 6”	50	
74	Wicks for burner	Two Pack	
75	Water bath, copper, Dia 6” with concentric rings	4	
76	Wash bottle LDP 500ml	50	
77	Wire Gauge with frame 4” x4”	50	
78	Water Trough 10” (Neutral glass)	2	
79	Weight analytical 1mg to 100gm in wooden box, all weights chrome plated, supplied with forceps	2	
80	Zinc Plate 150x50mm±5mm with terminal	4	
where ISI marked items are available in the market, only those (ISI marked) must be supplied			
Biology Lab Requirment for XI and XII Class			
1	Dissecting Microscope ISI Marked	12	
2	Student Microscope ISI Marked complete with two eye piece, 10x & 15x and two objectie 10x & 45x fitted in wooden box	24	
3	Microscopic Glass Slide 76x26x1.1mm ISI Marked pk of 50 slides	20	
4	Petri dishes 100mm Borosilicate Glass	20	
5	Petri dishes 90mm Plastic Polypropylene	20	
6	Cover slips 18x18mm pack of 10gm	40	
7	Forcep 6" with fine tip (Stainless steel)	50	
8	Needles with plastic handle 4"	50	
9	Spirit lamps stainless steel	24	
10	Test tube 15x150mm±1mm (borosilicate glass) with rim	60	
11	Test Tube stand for 15mm diameter test tube 8 hole Plastic	10	
12	Beakers 100ml (borosilicate glass)	24	
13	Bloting paper 40x40cm pk of 50 sheet	4	
14	Watch Glass ordinary glass 4"	50	
15	Measuring cylinder 100 ml Plastic Polypropylene	10	
16	Dropper Glass 4" with rubber teat	20	
17	Desicator with cover 160mm (normal glass)	2	
18	Funnel 75mm (borosilicate glass)	24	
19	Test Tube Holder Wooden Handle size 175mm +/- 15mm	50	
20	Chromatography Paper 10cmx10cm pk of 20 sheet	4	
21	Conical Flask 250ml (borosilicate glass)	24	
22	Rubber cork for Conical Flask 250ml	24	
23	Butter Paper 40x40cm pk of 20 sheet	10	
24	Balance Electronic Digital cap. 500gm L.C.100mg	2	
25	Filter paper No. 1 Dia 12.5 cm superior pack of 100 circles	10	
26	Glass rod 8"	20	
27	Tripod stand 6 inch ,cast iron top & chrome plated legs	24	
28	Reagent Bottle N.M with interchangble stopper 250 ml (borosilicate Glass)	20	
29	Slide box Cap.50 pc slides plastic	4	
30	Permanent slides of Bacteria Bacillus	4	
31	Permanent slides of Bacteria Coccus	4	
32	Permanent slides of Bacteria Spirillum	4	
33	Permanent slides of Bacteria Vibrio	4	
34	Permanent slides of Algae oscillatoria	4	
35	Permanent slides of Algae spirogyra	4	
36	Permanent slides of Fungi rhizopus	4	

37	Permanent slides of Fungi Yeast	4	
38	Permanent slides of L.S.Male Shoot-Funaria	4	
39	Permanent slides of L.S.Female Shoot-Funaria	4	
40	Permanent slides of Amoeba	4	
41	Permanent slides of Plant Tissue Parenchyma	4	
42	Permanent slides of Plant Tissue Callenchyma	4	
43	Permanent slides of Plant Tissue Sclerenchyma	4	
44	Permanent slides of Xylem	4	
45	Permanent slides of phloem	4	
46	Permanent slides of Animal Tissue Squamous epitheliun	4	
47	Permanent slides of Muscular Tissue Striated	4	
48	Permanent slides of Muscular Tissue Non Striated	4	
49	Permanent slides of Muscular Tissue Cardiac	4	
50	Permanent slides of Nerve fiber	4	
51	Permanent slides of Mitosis all stages	2set	
52	Permanent slides of Meiosis all stages	2set	
53	Permanent slides of T.S.Dicot Stem and monocot stem	4	
54	Permanent slides of T.S.Dicot Root and monocot Root	4	
55	Permanent slides of Mammalian blood smear	4	
56	Permanent slides of pollen germination	4	
57	Permanent slides of testis (mammalian)	4	
58	Permanent slides of ovary (mammalian)	4	
59	Permanent slides of blastula (amphibian ,mammal)	4	
60	Permanent slides of ent amoeba histolytica, plasmodium	4	
61	Permanent slides of fungi - genra (Microsporum , Trichophyton & Epidermophyton)	6 (2 each)	
62	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Tape worm	2	
63	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing L.H Silk Moth	2	
64	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Cockroach	2	
65	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Earthworm	2	
66	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing ascaris Male and ascaris Female	2	
67	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Liver Fluke	2	
68	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing leech	2	
69	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Prawn	2	
70	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing L.H. of Honey bee	2	
71	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Snail	2	
72	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing types of lichens	2	
73	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing of epiphytic root	2	
74	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing of insectivorous Plants	2	
75	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing aquatic plants eichhornia, hydrilla, certophyllum	2	
76	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Marchantia (liver wort), Funaria (moss)	2	
77	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing Ferns	2	
78	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing pinus (gymnosperm)	2	

79	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing monocotyledonous Plant	2	
80	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing dicotyledonous Plant	2	
81	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing modifications of tap roots, adventious roots	2	
82	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing modifications of stem	2	
83	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing modification of leaves	2	
84	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing different types of inflorescence	2	
85	Charts showing Human Physiology (Reproductive system male & female ,respiratery & circulatory system , excretory, digestive system , skelton system) size 50x75 cm ± 2cm both side laminated with plastic rollers	10 (2 each)	
86	Charts of animal like hornedtoad , Kangaroo rat, camel size 50x75 cm ± 2cm both side laminated with plastic rollers	2	
87	Charts of Starfish,Rohufish, Frog , Freshwater Fish, Marine bony fish (Lophius) size 50x75 cm ± 2cm both side laminated with plastic rollers	2	
88	Charts size 50x75 cm ± 2cm both side laminated with plastic rollers showing analogous & Homologous organs in various plants & animals	2	
89	Model of LH Cockroach Fiber Glass 18" x 24" on base	2	
90	Model of LH Frog fiber glass 18" x 24" on base	2	
91	Human Skelton made of fiber glass, disarticulated , stand size 5 feet	2	
92	Leishmans stain 250 ml	1	
93	Mercury Metal 20 gm	1	
94	Potassium Hydroxide Pellets 250gm	1	
95	Safranine 50gm	1	
96	Glycerine 500 gm	1	
97	Sodium Chloride 500gm	1	
98	Cobalt Chloride 100gm	1	
99	Benedict Solution 250ml	1	
100	Fehling Solution No1 500ml	1	
101	Fehling Solution No2 500ml	1	
102	Biuret Reagent 200ml	1	
103	Millions Reagent 125ml	1	
104	Sudan III 100ml	1	
105	Sodium Hydroxide pellets 250gm	1	
106	Iodine 50gm	1	
107	Acetone 500ml	1	
108	Petrolium Ether 60-80 deg C 500ml	1	
109	Phenol Red 50gm	1	
110	Sulphosalicylic Acid 200ml	1	
111	Smith Reagent 250ml	1	
112	Boric Acid 250gm	1	
113	P.H.Paper 2-10.5 pk of 200lvs	1	
114	Potassium Chloride 250gm	1	
Note: 1. The chemicals should be L.R. Grade and brand like E.merc S.D's Ranken Qualigen, Loba chenia SRL, Hi-media, Alha Chem, Thomas Baker, B.D.H Sigma, Spectro Chen			
2. ISI Marked items which are available in the market only those ISI marked items must be supplied.			

Note: -

- **Prize of whole kit should be inclusive of all taxes .**
- **The bidder will quote a whole kit rate in figure separately only in excel sheet in website www.etender.punjabgovt.gov.in.**
- **The numbers of item specified in each subject may be increase or decrease.**
- **The PCB kits material supplied by the bidder at F.O.R basis. The destination will be at district Head quarter of the concerned district provided by this office along with work/supply order.**
- **The Bidders are advised to visit on web site www.etender.punjabgovt.gov.in regularly for further information please.**
- **For more information may contact to Phone No. 0172-2214393**