

REQUEST FOR PROPOSAL

**For Supply and installation of
Equipment for Chemistry Laboratory**

Government Polytechnic Colleges

GOVERNMENT OF PUNJAB

**Department of Technical Education & Industrial Training, Takniki Sikhya Bhawan,
Plot. No. 1A, Sector 36A, Chandigarh
Ph 0172-2614031, 2614445
Fax 0172-614622**

1	Tender No.	TE/PURCHASE/CHEMISTRY/CS/2013
2	Total pages	32
3	Description	Supply and installation of Equipment for Chemistry Laboratory
4	EMD	Rs 50,000 only
5	Sale of Tender Document	11:00 A.M. 23-08-13
6	RFT Document cost	Rs 500/-
7	Last Date of Submission of online tender	12.00 Noon 18-09-13
8	Date of Opening of Technical bid	11.00 A.M. 20-09-13
9	Date of opening of Commercial Bid	11:00 A.M. 25-09-13

TABLE OF CONTENTS

SECTION	PAGE NO.
I INVITATION FOR BIDS	4
II GENERAL INTRODUCTION	6
III INSTRUCTIONS TO THE BIDDER	9
IV BIDDER'S QUALIFICATION	11
V SUBMISSION OF BIDS	12
VI TERMS AND CONDITIONS	13

ANNEXURES

I LIST OF ITEMS	16
II DETAILED TECHNICAL SPECIFICATIONS OF ITEMS	19
III PRE QUALIFICATION CHECKLIST	25

PERFORMAS

I BID PROPOSAL PERFORMA	26
II PARTICULARS OF BIDDER AND MANUFACTURER	28
III TECHNICAL DEVIATIONS	30
IV PRICE SCHEDULE	31
V COMMERCIAL DEVIATION	32

Section – I

1.0 Invitation for Bids:

1.1 General

- 1.1.1 This invitation of bid is for Supply & Installation of Equipment in Chemistry Laboratory.
- 1.1.2 Bidders are advised to study the RFT Document carefully. Submission of Tender shall be deemed to have been done after careful study and examination of the RFT Document with full understanding of its implications.
- 1.1.3 Sealed offers should be submitted to Director, Technical Education Punjab Chandigarh not later than the last date and time of submission.
- 1.1.4 All bids must be accompanied by proof of EMD deposited online in the account of Director, Technical Education & Industrial Training (Punjab) .
- 1.1.5 This RFT Document is not transferable.

1.12 Schedule for Invitation to Tender

- 1.2.1 The RFT Document shall be available online by paying tender fees of Rs. 500 and Tender Processing fee as per Punjab Infotech norms through online mode .
- 1.2.2 Last date and time for submission of Tender: 12.00 Noon 18-09-13
- 1.2.3 Date and Time of opening of bids
 - Technical bid 11.00 A.M. 20-09-13
 - Commercial Bid 11:00 A.M. 25-09-13
- 1.2.4 Validity of the bid: 6 months from the date of opening of tenders.
- 1.2.5 Schedule for delivery: Delivery, installation of Equipment within 60 days of signing of contract.
- 1.2.6 The number of Sites is approximately 7 and it can be reduced or increased. Final list will be provided along with LOI/order.
- 1.2.7 Failure to attach any document as well as requisite proof of EMD with the technical bid will tantamount to incompleteness of the tender and the bid in question shall be rejected straightway without assigning any reason and no argument/ communication in this regard shall be entertained
- 1.2.8 The work can be split between more than one bidder. In such a case, (based on the lowest quoted rates) the Bid Evaluation Committee will decide a benchmark Price and the short listed bidders will have to match

the so decided benchmark price. However, L1 will be given at least 50% or more depended from his capacity to execute the order within the specified limit and the others the balance proportionately depending upon their capacity to execute the order within the specified time.

1.2.9 Tenders not meeting specifications as per the RFT Document will be ignored.

1.2.10 The RFT document fee shall not be refundable under any circumstances. All disputes will be settled within the jurisdiction of Directorate of Technical Education & Industrial Training, Punjab, Chandigarh

1.2.11 Tenders which are not on the prescribed tender form will be rejected straightway. Telegraphic quotations will not be accepted

Note: The bidder shall upload bids on the website and shall submit necessary hard copies of all documents in Room No. 204, Second Floor, Directorate of Technical Education and Industrial Training, Plot No.1A, Sector 36A, Chandigarh before the opening of the Bids

The Director Technical Education Punjab shall not be responsible for any postal delay about non receipt/non delivery of the documents.

Section – II

2.0 Scope of Work

Supply & Installation of Equipment for Various Sites

2.1 Introduction

- 2.1.1 The Department of Technical Education is in the process of establishing 7 New polytechnics. This RFT Document is to provide Equipment items to these new colleges.
- 2.1.2 This contract document gives the specifications, terms and conditions and other requirements of the Equipment to be supplied by the vendor. While the detailed specifications of all individual items are given in Annexure I .The format in which the commercial bid is to be submitted by the Bidder is given in Performa IV.
- 2.1.3 At present the department intends to establish 7 No's of Polytechnic in the State. However the exact quantity may be decided at the time of placing purchase order. Vendor may submit their quote as per format given in Performa IV.

2.2 General Instructions:

- 2.2.1 It is mandatory for Bidder to submit the compliance of each and every part of this RFT (including general instructions, terms & conditions, schedule, maintenance, specifications of each system given in Annexure I) in his Technical bid failing which the proposal will not be evaluated and will be rejected without any further notice/communication to the bidder.
- 2.2.2 This is a two part bid, Bidder therefore, shall submit separate technical and commercial bids in two different envelopes. The quote shall be inclusive of all the costs up to FOR destination, i.e. up to respective sites/locations in State of Punjab. The compliance statement for technical specifications, however, should be submitted along with the technical bid.

(a) **Technical Bid** shall consist of the following: -

- i) Technical Deviations, if any, from the terms and conditions and specifications as specified in the Bidding Documents (Performa-III). failing which, it would be assumed that there are no technical deviations and the full responsibility lies on the bidder.
- ii) Proof of EMD submitted online .

iii) All documents required as per Pre-Qualification checklist given in Annexure III.

(b) **Commercial Bid** consisting of the following: -

- i) Bid prices for the fine tuned Technical Specifications duly filled, signed and complete as per the Price Schedule on the prescribed Quotation Proforma (Proforma-IV). The Vendor must quote the basic price and total price inclusive of all taxes at FOR destination.
- ii) The Tenderer shall indicate the firm price for indicated Tasks / scope of work, the Terms of reference of which are given in the Technical specifications.
- iii) The Tenderer shall be required to give Item-wise/ activity wise Prices wherever applicable.
- iv) Conditional bids will not be entertained

2.2.3 The goods are required to be installed & commissioned at 7 No of locations in Punjab state. The list of locations and respective custodian at the site will be provided by Director Technical Education Punjab later.

2.2.4 RFT shall be treated by the successful Bidder as a 'rate contract'. Bidder shall provide the quote for items as per Performa IV. The prices quoted by the vendor shall be valid for 6 Months during which Director Technical Education Punjab may place the order multiple times for different quantities, depending on requirement.

2.2.5 The successful bidder (vendor) should stock required spares during warranty period to meet the uptime requirement.

2.2.6 The Rate contract will be entered into on FIRM & FIXED price only.

2.2.7 Vendor shall work out immediately after receiving order and in consultation with Director Technical Education Punjab, an implementation plan detailing various milestones to the effect that all activities falling under the scope of the contract get completed within stipulated delivery schedule.

2.2.8 As a part of maintenance philosophy, Vendor is to clearly focus on the Fault reporting mechanism by way of providing availability of no. of Maintenance/reporting centers help desk etc. and by way of reporting by phone, fax email etc.

2.2.9 The successful bidder shall be responsible for transportation and installation of the goods in question and other associated equipment at site. All the ordered items will be transported, installed by the vendor.

- 2.2.10 The goods in question shall be so designed that they are easily installable in the field. The actual number of site locations will be given separately. The names of contact person at each place (with alternative 2nd name, if available) will be furnished in the due course.
- 2.2.11 The Bidder shall submit the time schedule including supply & installation, of the complete work. However, this period shall, in any case, not be more than 60 days from the issue of order or site readiness, whichever is later. LD clause, as mentioned in the RFT Document will be applicable, if the time schedule promised by the bidder is not adhered to. Vendor shall work out, within 15 working days of the placement of the order and in consultation with Director Technical Education Punjab, an implementation plan detailing various milestones to the effect that all activities falling under the scope of the contract get completed within stipulated time.

Section III

3.0 Installation of Equipment :

3.1 Site Survey:

3.1.1 Vendor shall do the site survey for the sites for installation of Equipment & fixtures. Any non-suitability observed at site must be informed to user agency/respective nodal agency for corrective action.

3.2 Transportation:

3.2.1 Vendor shall cover transit insurance for value of the materials to be transported. This insurance policy shall cease once the equipments are safely handed over to the custodians of the respective sites.

3.2.2 All the items are to be transported safely with proper packing to each site with packing list containing all details of hardware packed with serial Nos. and quantity.

3.2.3 Vendor shall prepare delivery schedule for distribution of goods in consultation with respective nodal agencies and also inform site coordinator well in advance.

3.2.4 All additional taxes (Toll Tax, RTO Tax etc.) during transportation will be borne by the vendor.

3.3 Installation and Deployment:

3.3.1 The Installation and commissioning should be carried out at sites as per the list given by the respective nodal agencies/Director Technical Education Punjab and signature to be obtained in the form of 'Hand Over and Acceptance Certificate' from the users.

3.3.2 Logistic support in respect of installation & deployment will be the responsibility of the vendor.

3.3.3 During installation of goods, if any of the item is found faulty, vendor shall replace/ repair and make it operational

3.3.4 Vendor shall provide detailed installation schedule and manpower deployed for the installation and commissioning and inform respective Polytechnic.

3.3.5 Vendor shall inspect the quality of workmanship and report to the concerned site and get it certified from the respective incharge.

3.4 Acceptance Test:

3.4.1 Goods acceptance test will be carried out by the committee formed by the Director Technical Education, Punjab before the dispatch of the material at the vendor's site.

3.4.2 The goods plan for the checkout of required sites should be prepared by the vendor and duly approved by the respective nodal agencies/ Director Technical Education Punjab.

3.5 Maintenance Service:

3.5.1 Vendor for maintenance can be himself or vendor's authorized Party. However, the vendor will be a single contact point, which owns the maintenance activities of complete respective network.

3.5.2 All the items supplied against this order should be covered under onsite Warranty for a period of one year after the installation and acceptance of all the goods of that supply order against bad workmanship, manufacturing defects, etc. The warranty would not cover damage done by user.

3.6 Other Terms and Conditions:

3.6.1 The Supplier, once order is placed, has to complete the Supply & Installation of Equipment at sites within delivery schedule of 60 days given above. In case the supplier fails to complete this work in specified period or any extension there of allowed by Director Technical Education Punjab shall have the right to recover from the Supplier as Liquidated Damages (LD) a sum at the rate of 0.5 % (1/2 %) per week not exceeding the total cost of 10% of undelivered goods

3.6.2 Director Technical Education Punjab shall not be responsible for any accidental injury, death or any untoward incidents caused to the workman deployed during installation, testing and transportation or in any kind while executing the order.

Section – IV

4.0 Bidders Qualifications:

- 4.1 The bidder must be reputed company/firm or original manufacturer/ country distributor of the national repute or he may be authorized dealer/ distributor of original manufacturer with relevant experience to supply the Equipment for which the price is quoted in the tender form. The average annual turnover of bidder should be more than 5 lacs in last 3 preceding years. Attach balance sheet to prove the same.
- 4.2 The bidder must be in existence for last five years.
- 4.3 The bidder must be either an OEM or an authorized distributor/dealer of the OEM whose product is being quoted. The bidder shall attach authorisation of the OEM that he is authorised to bid in this specific tender on his behalf.

Section – V

5.0 Submission of Bids

- 5.1 The bid should be submitted to the office of Director Technical Education Punjab , Chandigarh not later than the last date of submission, in a sealed cover superscribed as “Bid for supply and installation of Equipment for Chemistry Laboratory”.
- 5.2 The bidder or a person/persons duly authorized by the bidder shall affix the bid with his seal. All pages of the bid, where signature required is not mentioned, shall be initialed by the bidder with his seal, except unamended, printed literature.
- 5.3 The Bidder is expected to carefully examine all instructions, forms, terms and specifications in the RFT Document. Failure to furnish all information required in the RFT Document or submission of a bid not substantially responsive to the RFT Document in every respect will be at the Bidder's risk and may result in the rejection of the bid.
- 5.4 This is a two part bid and Bidder, therefore, shall submit separate technical and commercial bids in two different sealed envelopes and further packed in the single sealed envelope mentioning the Tender Number, Due date and the full address of Bidder.
- 5.5 **Clarification regarding Tender Document:**
A prospective Bidder requiring any clarification of the RFT Document may contact the office of Director Technical Education Punjab, Chandigarh personally. The team will try to respond to the query there and then. However, submission of request for clarification will not entitle the Bidder for any extension of time in submission of the Tender Document.
- 5.6 **Amendments in the Tender Document:**
- 5.6.1 At any time up to the last date for receipt of bids, the Director Technical Education Punjab, Chandigarh may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFT Document by an amendment.
- 5.6.2 The amendment will be notified by general advertisement or through letter or by FAX or Email to the prospective Bidder/Bidders who have received the Tender Documents and the same will be binding on them.
- 5.6.3 In order to afford prospective Bidder/Bidders reasonable time, or otherwise for any other reason, in which to take the amendment into account in preparing their bids, the Director Technical Education Punjab may, at its sole discretion, extend the last date for the receipt of Bids. The decision to extend or not to extend the last date for the receipt of bids is at sole discretion of Director Technical Education Punjab and can't be challenged at any forum.

Section VI

6.0 Terms and Conditions of the Tender:

6.1 Payment Terms for Equipment:

- 6.1.1 75% of the Contract value shall be paid on delivery of materials in packed condition at end sites on pro rata basis.
- 6.1.2 25% payment will be released on satisfactory installation of the entire Equipment items in pro rata basis.

6.2 Performance Bank Guarantee (PBG)

- 6.2.1 The successful bidder will have to execute contract agreement and deposit a performance bank guarantee for an amount equivalent to 10 % of the contract value within 15 days of the issuance of LOI/Order. The PBG would be valid for a period 6 months, failing which the LOI/order shall be withdrawn at the discretion of the Department and the EMD of the bidder shall be forfeited.

6.3 Time Schedule:

- 6.3.1 The supply & installation of Equipment at end sites shall be completed within 60 days of order/LOI upon successful bidder or sites readiness, whichever is later.

6.4 Penalty Clause for Late Delivery/Installation:

- 6.4.1 In case supplies are not made within the delivery dates or any extension thereof, LD @ 0.5% (zero point five percent) of the order value or part thereof of the undelivered portion for each calendar week of delay shall be recovered from the bills. However, the total Liquidated Damages shall not exceed 10% (ten percent) of the total value of each order.

6.5 Termination for Default:

- 6.5.1 The Director Technical Education may, without prejudice, to any other remedy for breach of contract, by written notice of default sent to the Bidder, terminate the contract in whole or in part of it and forfeit EMD/ PBG if:
- (i) The qualified Bidder fails to deliver any or all of the obligations within the time period (s) specified in the contract, or any extension thereof granted by the Director Technical Education Punjab.

- (ii) The qualified Bidder fails to perform any of the obligation(s) under the contract.
- (iii) The qualified Bidder becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or effect any right of action or remedy which has accrued to the Director Technical Education Punjab .

6.6 Force Majeure:

6.6.1 Notwithstanding the provisions of the tender, 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 failure to perform its obligations under the contract is the result of an event of Force Majeure.

6.6.2 For the purposes of this Clause, 'Force Majeure' means an event beyond the control of the Bidder like acts of the Government of Punjab/ Director Technical Education Punjab either in its sovereign or contractual capacity, war or revolution, fire, any natural calamity, floods, epidemics, quarantine restrictions and freight embargoes.

6.6.3 If a Force Majeure situation arises, the qualified Bidder shall promptly notify the Director Technical Education Punjab in writing of such a condition and the cause thereof. Unless otherwise directed by the Director Technical Education Punjab 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 Director Technical Education Punjab may terminate this contract, by giving a written notice of minimum 15 working days to the Bidder, if as a result of Force Majeure; the Bidder is unable to perform a material portion of the services for a period of more than 30 days

6.7 Standard of Performance:

6.7.1 The qualified Bidder shall carry out the services and carry out its obligations under the contract with due diligence, efficiency and economy in accordance with generally accepted norms techniques and practices used in the industry. The Bidder/bidders shall also adhere to professional standards recognized by international professional bodies. The Bidder/bidders shall employ appropriate advance technology and safe and effective equipment, machinery, material and methods. The Bidder/Bidders shall always act in respect of any matter relating to this

contract, as faithful advisors to the board and shall, at all times support and safeguard the Board's legitimate interests in any dealings with the third party.

6.8 Arbitration:

6.8.1 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 Principal Secretary/Secretary to Government of Punjab, This is notwithstanding the fact that the sole arbitrator may be connected in any manner with the official process of finalizing the Contract. 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 reenactment thereof for the time being in force. Such arbitration shall be held at Chandigarh.

6.9 Jurisdiction:

6.9.1 In all matters and disputes arising hereunder the appropriate Courts at Chandigarh alone shall have jurisdiction to entertain and try them.

LIST OF ITEMS**ANNEXURE I**

- **Equipment is to be supplied in 7 polytechnic colleges. These are Government Polytechnic College Behram (Dist. Nawanshahr), Badbar (Dist. Barnala), Ranwan (Dist. Fatehgarh Sahib), Begowal (Dist. Kapurthala), KotKapura (Dist. Faridkot), Fatuhi Khera (Dist. Mukatsar), Baretta(Dist. Mansa)**
- **Requirement for one polytechnic college is as below**
- **Detailed specifications for item No. 1 to 66 are given in Annexure II**

Sr.No.	Name of the Item	Qty
1	Evaporating China dish, Approx. O.D. x Ht = 80x45 mm	60
2	Evaporating China dish Approx. O.D. x Ht = 105x55 mm	60
3	Glass rod	50
4	Kohlraush flask (mud flask)	30
5	Silica crucible with lid	60
6	Titration flask 100 ml	30
7	Titration flask 250 ml	30
8	Watch glass	60
9	Winchester bottles, Clear glass, with glass stopper	10
10	Winchester bottles, amber colour, with glass stopper	4
11	Chemical Thermometer	10
12	Ostwald Viscometer	30
13	Vacuum filtering kit	5
14	Burette (Acrylic)	10
15	Digital electronic balance	2
16	Chemical balance	10
17	Weight Box	10

18	Muffle furnace with LCD display (optional) Laboratory model	1
19	Hot Air Oven (Stainless Steel), Chamber size (HxWxD)=24"x18"x18", With 2 shelves, Capacity-125 L,	1
20	Hot Air Oven (Stainless Steel), Chamber size (HxWxD)=18"x18"x18", With 2 shelves, Capacity-125 L	1
21	Digital Melting point apparatus	4
22	Hot Plate electric with energy regulator	2
23	Heating mantles (made from Glass-Yarn) With energy regulator, Capacity- 500ml	3
24	Heating mantles (made from Glass-Yarn) With energy regulator, Capacity- 250ml	3
25	Redwood Viscometer No. 1	10
26	Able's flash point apparatus	10
27	pH Meter (pen type)	10
28	Digital pH meter	4
29	Refrigerator (For Laboratory use)	1
30	Fume Hood Chamber	1
31	Bunsen Burner	40
32	Burette clamp	40
33	Burette stand	40
34	Clay pipe Triangle	40
35	Copper voltmeter	10
36	Crucible tongs	40
37	Ordinary Filter paper	1 reem
38	Spatula	40
39	Test tube holder	40
40	Test tube stand, polypropylene made, can hold test tubes of 12 mm dia	2
41	Test tube stand, polypropylene made, can hold test tubes of 15 mm dia	2
42	Tipod stand, Height 125 mm	30

43	Tipod stand, Height 150 mm	15
44	Tipod stand, Height 200 mm	15
45	Wash bottle	30
46	Wire gauze	40
47	Battery Eliminator	5
48	Milliammeter (0-500 mA)	5
49	Ammeter (0-3 A)	5
50	Voltmeter (0-2 V)	5
51	Rheostat(10 Ohm, 4A)	5
52	Slotted Weight Set Brass With Hanger, Each set contains 9 Weights and 1 Hanger; 10g x 9 + 10g Hanger	10
53	Slotted Weight Set Brass With Hanger, Each set contains 9 Weights and 1 Hanger;20g x 9 + 20g Hanger	10
54	Slotted Weight Set Brass With Hanger, Each set contains 9 Weights and 1 Hanger;50g x 9 + 20g Hanger	10
55	Stop Watch, Analog, 15 Minute, 1/10 Second, Single Action	5
56	Resistance Box, Plug Type	5
57	One Way Key	5
58	Milli voltmeter (0-500 mA)	5
59	Periodic Table	1
60	Charts for chemistry lab	10
61	Copper wires	0.5
62	Zinc wire	0.5
63	Copper stripe	0.5
64	Zinc stripe	0.5
65	Cloth cladded Connecting wires	100
66	Copper cladded plastic plate 5 x 5 cm	200

TECHNICAL SPECIFICATIONS

ANNEXURE II

1	Evaporating China dish,
	Approx. O.D. x Ht = 80x45 mm, Glazed Porcelain made , flat bottom with spout
2	Evaporating China dish
	Approx. O.D. x Ht = 105x55 mm Glazed Porcelain made , flat bottom with spout
3	Glass rod
	8 mm dia, round,12" 12" borosilicate glass
4	Kohlraush flask (mud flask)
	50 ml with cup at top,made of low expansion borosilicate glass
5	Silica crucible with lid
	30 ml Porcelain, Tall form , glazed inside and outside, complete with lid. Can withstand 800oC
6	Titration flask
	100 ml Flask, Erlenmeyer, graduated,conical, made of low expansion 3.3 borosilicate glass
7	Titration flask
	250 ml Flask, Erlenmeyer, graduated,conical, made of low expansion 3.3 borosilicate glass
8	Watch glass
	50 mm diameter Flint glass. Well annealed with fine polished edges
9	Winchester bottles
	2500 ml Clear glass, with glass stopper
10	Winchester bottles
	2500 ml amber colour,with glass stopper
11	Chemical Thermometer
	Range 0 - 360°C Mercury filled 30 cm long, from imported capillary, screen printed graduation
12	Ostwald Viscometer
	80-100 sec borosilicate glass,standard size,college pattern,centre support
13	Vacuum filtering kit

	A 250ml vacuum filtering flask, a hand vacuum pump, 60mm (dia) Buchner funnel with approximate 200ml capacity, 6cm filter paper, connection tubing, and a rubber stopper. The stopper hole is specially cut to hold the Buchner funnel.
14	Burette (Acrylic)
	50 ml With TPX stopcock & teflon plunger, colour white transparent
15	Digital electronic balance
	Single pan (electrical with digital wt. indicator) Pan size-110 mm Capacity -200 g Sensitivity - 0.001g
16	Chemical balance
	With gun metal beam, Double door glass case, made of teak wood polished. With nickle plated fittings and the balance is mounted on substantial sunmica wooden base provided with levelling screws. The hangers have double hook and pans are detachable. Capacity - 200 g sensitivity - 0.002 g
17	Weight Box
	1mg to 200g, stainless steel, wooden box with fractional weights & forceps
18	Muffle furnace with LCD display (optional) Laboratory model
	Single cavity, Cavity size(HxWxD) = 200mmx200mmx300mm, Max. temperature 1000°C & working temp. 900°C
19	Hot Air Oven (Stainless Steel)
	Chamber size (HxWxD)=24"x18"x18", With 2 shelves, Capacity-125 L,
20	Hot Air Oven (Stainless Steel)
	Chamber size (HxWxD)=18"x18"x18", With 2 shelves, Capacity-125 L,
21	Digital Melting point apparatus
	Aluminium block accepting 3 capillaries & a thermometer. Max temp upto 350 C having low/high provision with energy regulator. To work on 220/230 V AC
22	Hot Plate electric with energy regulator
	Rectangular 30 x 25 cm cast iron plate
23	Heating mantles (made from Glass-Yarn) With energy regulator

	Capacity- 500ml, 200 watt Can withstand temp. upto 350 C, body made from non-rusting aluminium. To work on 220/230 V AC.
24	Heating mantles (made from Glass-Yarn) With energy regulator
	Capacity- 250ml, 200 watt Can withstand temp. upto 350 C, body made from non-rusting aluminium. To work on 220/230 V AC.
25	Redwood Viscometer No. 1
	Electrically heated with energy regulator for temperature control along with accessories such as thermometer & electronic stop watch
26	Able's flash point apparatus
	With oil cup cover, fitted stirrer, thermometer socket, stainless steel water bath & stand, electrically heated
27	pH Meter (pen type)
	Portable pH meter pen type, battery operated, digital display
28	Digital pH meter
	Deluxe pH Meter with auto temp. compensation, combination pH electrode & RTD probe, 3-1/2 digit LED display, Table model
29	Refrigerator (For Laboratory use)
	Approx 300 lt capacity
30	Fume Hood Chamber
	Chamber size (wxDxH) = 4' x 2'-1/2 x 3'
31	Bunsen Burner
	5" x 3" Nickel-plated bunsen burner with tapered, serrated stem and 5/16" ID tubing & 11/16" ignition collar for stabilizing flame, and adjusting air intake. To be used with natural gas. Measuring 5" H x 3" Base.
32	Burette clamp
	Constructed out of sheet metal. Rubber covered jaws for securely gripping of Burettes. For One Burette
33	Burette stand
	Base size : 5" x 8" Rod length : 24" Rod dia : 3/8" Made of rugged cast iron for extra stability, chemical resistant finish and chrome plated rod
34	Clay pipe Triangle
	2" side length Clay pipe stem, iron wire, improved twisted wire style. Galvanized iron wire, prevents rust from occurring.

35	Copper voltmeter
	Three thick copper plates with brass terminals suspended from a bakelite cover in an inert plastic jar.
36	Crucible tongs
	9-1/2" long, Serrated tips for firm grip, Stainless Steel
37	Ordinary Filter paper
	Appr. 45 x 55 cm sheet
38	Spatula
	6" size Stainless steel, one end flat, one end spoon
39	Test tube holder
	Chrome plated
40	Test tube stand
	4 rows x 12 columns polypropylene made, can hold test tubes of 12 mm dia
41	Test tube stand
	4 rows x 12 columns polypropylene made, can hold test tubes of 15 mm dia
42	Tipod stand
	Height 125 mm Stainless steel made, triangular top
43	Tipod stand
	Height 150 mm Stainless steel made, triangular top
44	Tipod stand
	Height 200 mm Stainless steel made, triangular top
45	Wash bottle
	250 ml Polyporpylene with detachable pipe
46	Wire gauze
	5" X 5" with ceramic center
47	Battery Eliminator
	Output 2-12 V.D.C in steps of 2, 4, 6, 8, 10 & 12 Volts Comprising a heavy duty transformer wound with copper wire with high lamination to avoid losses, selector switch & bridge rectifiers (consists of full wave silicon diode bridge rectifier) with jewel light and safety fuse.

48	Milliammeter (0-500 mA)
	D.C. 65mm dia, scale length 55 ±2mm, overall size 85mm, accuracy class index ± 2.5 F.S.D. Mounted bakelite desk stand with lock type terminals.
49	Ammeter (0-3 A)
	D.C. 65mm dia, scale length 55 ±2mm, overall size 85mm, accuracy class index ± 2.5 F.S.D. Mounted bakelite desk stand with lock type terminals.
50	Voltmeter (0-2 V)
	D.C. 65mm dia, scale length 55 ±2mm, overall size 85mm, accuracy class index ± 2.5 F.S.D. Mounted bakelite desk stand with lock type terminals.
51	Rheostat(10 Ohm, 4A)
	With protected cover, wounded with heavily oxidised resistance wire upon a tube, Fitted with 4mm. safety socket terminals.
52	Slotted Weight Set Brass With Hanger
	Each set contains 9 Weights and 1 Hanger; 10g x 9 + 10g Hanger
53	Slotted Weight Set Brass With Hanger
	Each set contains 9 Weights and 1 Hanger; 20g x 9 + 20g Hanger
54	Slotted Weight Set Brass With Hanger
	Each set contains 9 Weights and 1 Hanger; 50g x 9 + 20g Hanger
55	Stop Watch, Analog, 15 Minute, 1/10 Second, Single Action
	Dial is divided into 30 seconds with 1/10 second graduations. Has 0 to 15 minute registry. Easy to read numerals. Housed in a plated metal case with glass covered dial. Mechanical 15 jewel lever movement. Start, stop, and reset operations are accomplished by a single button by successive depressions. Rewinding is done using anti-clockwise crown movement every eight hours. Supplied in a high impact plastic case. No batteries required.
56	Resistance Box, Plug Type

	Superior quality Heavy Brass metal blocks size 1/2" bound to bakelite plate by means of nuts and screws securing rigid fixation . Plug heads machine moulded, of heavy insulated bakelite. Boxes made of Teak-wood and nicely polished. (0.1-10 Ohm, Total Resistance 21 Ohm, No. of Coils 5)
57	One Way Key
	Two brass blocks with 4mm insulated terminals are mounted on a moulded base, an accurately tapered plug with a fluted top fits into the tapered hole between the two blocks, ensuring very low contact resistance.
58	Milli voltmeter (0-500 mA)
	D.C. 65mm dia, scale length 55 ±2mm, overall size 85mm, accuracy class index ± 2.5 F.S.D. Mounted bakelite desk stand with lock type terminals.
59	Periodic Table
60	Charts for chemistry lab
61	Copper wires
62	Zinc wire
63	Copper stripe
64	Zinc stripe
65	Cloth cladded Connecting wires
66	Copper cladded plastic plate 5 x 5 cm

PRE-QUALIFICATION CHECKLIST**ANNEXURE III**

Name of bidder: _____

RFT No. TE/PURCHASE/CHEMISTRY/CS/2013To be submitted alongwith **Technical Bid**

Sr No	Condition / Item	Yes / No / Description	Page / Sr No	Remarks
1	Bid Proposal performa sheet duly filled in, signed and complete in all respects. (Performa- I)			
2	Qualifying data duly filled in as per relevant performa provided in the bid proposal that the Bidder is eligible to bid and is qualified to perform the contract, if its bid is accepted (Performa -II)			
3	Proof of Earnest Money Deposit (EMD = 50,000) submitted online			
4	Proof of Average annual turnover of Rs. 5 Lacs (Rs. Five lac only) in last 3 preceding years..Attach Balance sheets of reference period			
5	The Bidder should attach proof of having executed at least one deal for supply of Equipment to any Govt institution.			
6	Affidavit stating that rates quoted in the tender are not higher than those quoted to any State or Centre			
7	Certificate stating that -the company was not blacklisted by any government. -the company have sufficient manufacturing capacity or resources to supply the material			
8	The Bidder must have valid PAN issued by Income Tax Authorities, India. Attach Proof.			
9	Prime bidder to have valid state Sales Tax and CST Number, anywhere in India.			
10	The bidder would indicate make & model of the equipment .			

Signature of the bidder

BID PROPOSAL PROFORMA's
Performa - I

Bidder's Proposal Reference No. & Date :

Bidder's Name & Address :

Person to be contacted :

Designation :

Telephone No.

Telex No.:

Fax No:

To:

**Director Technical Education & Industrial Training
Punjab, Chandigarh**

Subject: For Supply & Installation of Equipment for Chemistry Laboratory.

Dear Sir,

1.0 We, the undersigned Bidders, having read and examined in detail the specifications and all bidding documents in respect of supply of hardware item do hereby propose to provide hardware as specified in the bidding document.

2.0 PRICE AND VALIDITY

2.1 All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 120 days from the last date of submission of bids.

2.2 We do hereby confirm that our bid prices include all taxes and cess including Income Tax.

2.3 We have studied the Clauses relating to valid Indian Income Tax and hereby declare that if any Income Tax, Surcharge on Income Tax and any other Corporate Tax is altered under the law, we shall pay the same.

3.0 EARNEST MONEY

Signature of the bidder

We have enclosed the required proof of earnest money submitted online in the Pre Qualification bid envelope. It is liable to be forfeited in accordance with the provisions of bid document.

4.0 DEVIATIONS

We declare that all the services shall be performed strictly in accordance with the fine tuned Technical specifications and other bid document except the deviations as mentioned in the Technical deviation Performa (Performa III) Further we agree that additional conditions, if any, found in the proposal documents, other than those stated in deviations Performa, shall not be given effect to.

5.0 BID PRICING

We further declare that the prices stated in our proposal are in accordance with your terms & conditions in the bidding document.

6.0 QUALIFYING DATA

We confirm having submitted in qualifying data as required by you in your bid document. In case you require any further information/documentary proof in this regard before evaluation of our bid, we agree to furnish the same in time to your satisfaction.

7.0 CONTRACT PERFORMANCE SECURITY

We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee as per terms of bid document.

7.1 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.

7.2 Bid submitted by us is properly sealed and prepared so as to prevent any Subsequent alteration and replacement.

7.3 We understand that you are not bound to accept the lowest or any bid you may receive.

Thanking you,
Yours faithfully,

Date:
Place:
Business Address:

(Signature)
Name:
Designation:
Seal

Performa- II

PARTICULARS OF BIDDER & MANUFACTURER

BIDDER'S PARTICULARS FOR BID NO.	TE/PURCHASE/CHEMISTRY/CS/2013
1. Name of the Bidder	_____
2. Address of the Bidder	_____ _____ _____
3. Year of Establishment	_____
4. Annual turnover of the firm for the last 3 successive years.	_____ _____
5. Name of the consortium firm (if any)	_____ _____ _____
6. Address of each consortium firm	_____ _____ _____
7. Service Centre details	_____ _____ _____
8. Availability of spare parts, components (Yes/No)	_____
9. Bidder's proposal number & date	_____
10. Name & address of the contact person to whom all references shall be made regarding this bid	_____ _____ _____

Telephone No.
Fax No.

Signature of the bidder

<i>Department of Technical Education, Punjab</i>	<i>Request For Tender (RFT) for Supply and installation of Equipment for Chemistry Laboratory</i>

As of the this date the information furnished in all parts of this form is accurate and true to the best of my knowledge.

Witness:

Signature _____

Signature _____

Name _____

Name _____

Designation _____

Designation _____

Address _____

Address _____

Company _____

Company _____

Date _____

Date _____

Company Seal

(With name & designation of the person signing the bid)

Performa- III
TECHNICAL DEVIATIONS

To be submitted along with **Technical Bid**

Subject: For Supply and Installation of Equipment for Chemistry Laboratory

RFT No. TE/PURCHASE/CHEMISTRY/CS/2013

Dear Sir,

Following are the Technical deviations & variations from the exceptions to the specifications and conditions of the tender. These deviations and variations are exhaustive. Except these deviations and variations, the entire work shall be provided as per your specifications and documents.

Sr. No.	Clause No.	Page No.	Statement of deviations and variations
--------------------	-----------------------	---------------------	---------------------------------------------------

Date

Signature

Name

Place

Seal

Performa- IV**PRICE SCHEDULE (In Rs.)**To be submitted along with **Commercial Bid****Subject: For Supply and Installation of Equipment for Chemistry Laboratory****RFT No. TE/PURCHASE/CHEMISTRY/CS/2013****Unit cost / Total cost of items**

Sr. No.	Item Description.	Unit cost (inclusive of all taxes)	Total cost (inclusive of all taxes)

Note – The above mentioned quantities are approximate and it can vary.**Date****Signature****Name****Place****Seal**

Performa-V**COMMERCIAL DEVIATIONS**

To be submitted along with **Commercial Bid**

Subject: For Supply and Installation of Equipment for Chemistry Laboratory

RFT No. TE/PURCHASE/CHEMISTRY/CS/2013

Dear Sir,

Following are the Commercial deviations & variations from the exceptions to the specifications and conditions of the tender. These deviations and variations are exhaustive. Except these deviations and variations, the entire work shall be provided as per your specifications and documents.

Sr. No.	Clause No.	Page No.	Statement of deviations and variations
--------------------	-----------------------	---------------------	---------------------------------------------------

Date

Signature

Name

Place

Seal

Signature of the bidder