

**DIRECTORATE HEALTH SERVICES (SI) PUNJAB
PRIVAR KALYAN BHAWAN, SECTOR 34-A, CHANDIGARH**

TENDER NOTICE

Properly sealed tenders are invited by the Director Health Services (SI) Punjab from the Manufacturers/Authorized Suppliers for the supply of Laboratories Items for ESI Hospitals in the State of Punjab on prescribed form. The prescribed form alongwith detail of items, terms and conditions can be obtained from the cashier of this office on cash payment of Rs. 500/- (Rs. Five Hundred only) on any working day in between 10 am to 4 pm. Tenders on prescribed form must reach this office latest by 01.07.2012 till 1:00 pm either by post or in person and will be opened on the same day at 3:00 pm in the presence of bidders. Any postal delay will not be entertained.

Schedule dates for the Tenders are as follows:

- (1) Sale of Tender documents from: **11.06.2012 to 15.06.2012**
- (2) Late Date for submission of tenders upto **1:00 p.m. on 01.07.2012**
- (3) Date and Time of Opening of Tender at **3:00 p.m. on 01.07.2012**

Director Health Services (SI), Punjab

**DIRECTOR OF HEALTH SERVICES (SI), PUNJAB
PARIVAR KALYAN BHAWAN SECTOR 34-A, CHANDIGARH**

TENDER NOTICE

1. Quotation must be enclosed by manufacturer or their authorized distributor only having valid licence of Industry Department in a properly sealed envelope addressed to Director of Health Services (SI), Punjab (by designation and not by name). The quotation must be super scribed "Quotation for the Laboratory Equipment/Instruments & Items" as called in Tender Notice No. M&E-2012-2013. The quotation must reach in the office of Director, Health Services (SI), Punjab on or before 01-07-2012 at 1:00 pm and will be opened on the same day at 3:00 pm.
2. In the event of the quotation being submitted by a firm. It must be signed separately by each member thereof, or in the event of absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing him to do so or in the case of the company, the quotation should be executed in the manner laid down in the said company's articles of association. The signature on the quotation should be deemed to be authorized signature and specimen signature may be attested separately which should be attached with technical tender.
3. All the columns of the quotation form shall be duly properly and exhaustively filled in. The rate and unit shall not be over written and tender with cutting/over writing in rates and units will be rejected. The word " No quotation" shall be written across any or all of the items in the schedule for which a tenderer does not wish to tender.
4. Any omission in filling the columns of units and rate inclusive of taxes shall altogether debar quotations / tender form being considered.
5. All corrections other than in rates / units must be signed by the tenderers.
6. All the tenderers must submit sample as desired and sample of those machinery/equipment must be dispatched when asked for demonstration. The samples, if required of any items must be sent to the Director, Health Services (SI), Punjab, Chandigarh with freight paid. Freight to pay sample shall be left with Railway / Road Transport at tenderers risk and responsibility. The late sample will not be considered and tender of the firm will be rejected straightway.
7. Earnest money Rs. 25000/- for each Tender must be deposited by the manufacturing or authorized distributor firm in the shape of Fixed Deposit Receipt

(F.D.R.) only for rate contract period and pledged to the Director, Health Services (SI), Punjab, Chandigarh and the FDR must be accompanied with the technical tender, without which the tender will not be considered. The said amount will be regarded a forfeitable if any successful tenderer fails to supply goods or partial supply of machinery / equipment to the satisfaction of consignees within the stipulated period.

8. The successful tenderer will be required to deposit in addition as security or bank Guarantee for due performance of the contract an amount to 10% of the approximate value to the estimated supply.
9. The Director, Health Services (SI), Punjab will have the right of reject all or any of the quotations without any reason.
10. No tenders will be considered unless and until all the documents are properly signed.
11. In the event of tender being, accepted, the quotations will be converted into a contract which will be governed by the conditions on page no. 1 to 2 (Schedule 'B') page no. ___ to ___ read with terms and conditions.
12. Interested party is allowed to note the specification from the notice board of the Department or obtained photo copy of the specification on payment of Rs. 2/- per page in cash.
13. The complete tender document can be downloaded from the website of the department.
14. Tender forms and other details can be obtained from this office against cash payment of Rs. 500/- per tender.
15. Sale timings of the tender form will be from 10:00 am to 4:00 pm on all working days No, tender form will be sold on the last day of the receipt of the tender.
16. The tender of only those firms will be considered which will submit their Technical and Financial tender separately, according to the terms and conditions and it is also clearly mentioned that only those financial bids be opened who qualifying in technical bids.

Terms And Conditions:-

1. Rates should be quoted F.O.R. destination in Indian currency otherwise the same will be ignored straightway.
2. The firm should have at least three years Market Standing and should indicate the name of the station where the business stand.

3. The Director, Health Services (SI), Punjab, Chandigarh does not bind himself to accept the lowest tender and reserves to himself the right to reject any or all tenders without assigning any reasons thereof.
4. The conditions of contract schedule 'B' attached to the schedule "A" should be returned to this office duly signed along with the schedule "A" otherwise the tender will be ignored.
5. In case the date of opening of tender falls on the holiday declared by the Government, tenders will be opened on the next working day at the schedule time & venue.
6. Any tender which is not on the proper form or received late will not be considered.
7. Tenders without the earnest money of 10% for each items of the approximate cost will not be considered.
8. Offers are to be submitted in duplicate along with only one tender form in respect of each item. Offers not in duplicate will be ignored.
9. All the disputes will be settled within the jurisdiction to the head quarter of Director Health Services (SI) Punjab at Chandigarh.
10. The rates, of sale tax, inter-state tax, VAT or any other tax must be specifically mentioned failing which no tax will be allowed at subsequent stage.
11. The payment shall be released after the execution of the complete order at, destination & installation of the equipment and satisfactory performance.
12. Tender / offers of such of the firms as do not conform exactly according to the advertised specifications / terms and conditions will be ignored straightway.
13. All copies of the documents attached with the tender (even Photostat copies) should be attested by Gazatted Officer / Notary Public / Oath Commissioner otherwise the tender of the firm will be rejected.
14. Director, Health Services (SI) Punjab reserves the right to amend the terms and conditions at any time after the issue of Notice.
15. The suppliers / manufacturers must indicate trademark or name of manufacturer of the state offered by them, In case they are offering the stores on behalf of their principal they may submit authorization certificate for supply of billing to this effect.

16. Minimum delivery period must be quoted clearly in the offer.
17. The tenderer should certify unequivocally that the stores offered conform strictly to the advertisement specifications for the offer.
18. Incomplete or conditional offer on corporating price maintained & force majeure etc. will not be entertained.
19. Tenderers should certify in their offers that rates quoted by them are not higher than those quoted to DGS&D and State Govt.
20. Tenderers should indicate their sale tax / VAT registration number of their offers.
21. The firm should have service center within in Punjab or in Chandigarh beyond this tender will not be entertained. The supplier shall arrange to provide free sales services for one year from the date of receipt of goods / installation / satisfactory services report at destination. Any delay in providing prompt after sale services will make supplier liable to pay the charges to their carried out at their risk and cost.
22. The quantity shall subject to increase or decrease.
23. The firm should should have been in existence for three years alongwith proof of Industry Department and a copy of Registration certificate: of the particular item as offered in the tender must be enclosed.
24. The manufacture should have full fledge testing Laboratory so that product equipment if produces / manufacture should be tested internally.
25. The firm should not have been blacklisted by the Govt. of India or any other State Govt. Affidavit to this effect dully notorised must be submitted along with the offer.
26. The manufacturer or authorized distributor firm should quote the rates and proof of manufacturing product must be attached. Rates quoted would be inclusive of installation charges.
27. Other conditions of machinery and equipment purchase policy should be / will also be applicable.
28. Rates approved in this tender will be valid up to one year from the issue date of supply order.
29. Rates for AMC (Annual Maintenance Contract) and CMC should be quoted alongwith the financial bid which shall be merged in the rate of the items quoted by the tendered firm for finalizing the rate of

product. The bidder must also submit in Cover "B" which should be put in Financial Bid his rates for Comprehensive Maintenance Contract (CMC) for next five years after the expiry of warranty period and the evaluation of the L1 bidder will be declared after including the CMC/AMC rates offered by the company. However it will be the discretion of the Purchaser to enter or not to enter in CMC with the supplier after the warranty period.

30. Manufacturers should also certify that the quoted items are indigenous and manufacturing in their own industry. An affidavit duly notarised to this effect must be attached with the technical tender.
31. It should have its turnover of at least of Rs. 1 Crore (Rupees One Crore only) in the last financial year. A certificate to this effect duly certified by the competent authority i.e. Chartered Accountant be submitted along with technical bid failing which the tender of the firm will not be considered.
32. The firm quoting the rates for any of the equipment must supply the original literature as well. In case the firm fails to supply the literature their offers is liable to be rejected. Drawings and design shall not be accepted.
33. The equipment to be supplied should have guaranteed for 3 years.

For Director Health Services (SI), Punjab

DIRECTOR HEALTH SERVICES (SI) PUNJAB CHANDIGARH

SCHEDULE - A

I/We hereby quote to supply the goods and material specified in the under written schedule in the manner in which and within the time specified as per forth in the condition of contract at _____ to _____ at the rate given in the schedule below. The condition on page _____ to _____ will be binding upon us in the event of acceptance of our tender. I/We hereby enclose herewith receipt for a sum of Rs. _____ security money and should I/We fail to execute an agreement obeying the said conditions and deposit security as laid down in the form within 10 days of the acceptance of our tender. I/We hereby agree that the above sum of security shall be forfeited to Director, Health Services (SI), Punjab.

Sr. No.	General description of stores	Quantity	Unit	ISI Speci. No.	Tender rate	Packing	Name of actual Mfg.	Country of origin
1	2	3	4	5	6	7	8	9

F.D.F.

All rates for delivery are free of transportation charges to destination of the site.

Date the _____ day of _____ 2012

Signature _____

Address

Signature of Tenderer & Stamp

Note: Please do not forget to fill in all the above columns. Any correction must be signed by the tenderer. No over writing is allowed.

SCHEDULE – B

CONDITIONS OF CONTRACT

1. This contract will remain valid upto one year from the date of issue of letter. In the event of any breach of the terms and conditions at an time on the part of contraction part the contract may be terminated by the Director, Health Services (SI), Punjab, Chandigarh without any compensation to the contractor.

If at any time document submitted / information given by the firm in the tender is found to be false / erroneous the award will be cancelled.

Any change in the constitution of the firm shall be notified forthwith by the contractor in writing to the Director, Health Services (SI), Punjab. During the currency of the Rate Contract any such change shall not relieve any former member of the firm any liability under contract.

No new partner / partners shall be accepted into the firm by the contractor in respect of this contract unless he / they agree to abide by all its items, condition and deposit with the Director, Health Services (SI), Punjab and written agreement to this effect. The contractor receipt of acknowledgement or that of any partner subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.

2. The contractor will supply only genuine machinery as described in column 2 of Schedule 'A' from time to time in such quantities in column 3 of scheduled 'A' for use of office / institution(s) Departments under Administrative control of the Directorate. But the tenderers must undertake to supply the quantities mentioned in the list required by Director, Health Services (SI), Punjab reserve to himself the right of placing the contract with one or more contract as he may think fit, and consideration of this undertaking by Government / the contractor blind himself not to revoke this contract during the said period.
3. The articles to be supplied under this contract must be as per specifications laid down against each machinery and equipment. The contractor shall be responsible for all complaints as regards to the quality. In case of dispute regarding quanlity of articles, and breach of the terms and conditions of the contract the decision of the Director, Health Services (SI), Punjab shall be final and binding on the contractor. It shall be open to the Director, Health Services (SI), Punjab to send samples submitted by the tenderers / contractors to any laboratory for analysis or report and the cost thereof will be borne by the tenderers / contractor.

4. The Director, Health Services (SI), Punjab may by notice in writing call upon the contractors to supply additional articles to service as samples and upon such notice in writing the contractor shall at his own be bound to supply additional samples, such being in all respects of the same quality as the samples first supplied.
5. The contractor shall be responsible for damage or loss in transit and replace goods broken or lost within 10 days from the date of the notice thereof.
6. Unless when specially ordered, otherwise in the order accompanying the indent, all goods must be dispatched within 4 weeks of the issue of the purchase order to the contractor.
7. Conditions as to the time for supply whether laid down herein or in any indent shall always be regarded as the essence of the contract.
8. The Director, Health Services (SI), Punjab or any representative of any of the experts authorized by the Director, Health Services (SI), Punjab or the INDENTING OFFICER or any other person duly authorized in writing by the Director, Health Services (SI), Punjab shall have the power to inspect the stores before, during or after manufacturing, collection, dispatch transit or arrival and reject the same or any part of portion after the written approval of the Director, Health Services (SI), Punjab. If he or they are not satisfied that same is not equal or according to the samples submitted by the contractor, the contractor shall not charge or be paid for supplies rejected as above and such supplies shall be removed by the contractor at once at his own expenses. He shall neither claim to be entitled to any payment for any damage caused due to the rejected supplies and whatsoever, incidental to a full and proper examination and test of such supplies, Director, Health Services (SI), Punjab shall be removed by the contractor's risk. Rejected supplies shall be removed by the contractor within 10 days after notice has been issued to him of such rejection and failing such removal the rejected goods shall be at contractor's risk. Government may charge rent from the contractor for the space occupied by such rejected goods, if lifted beyond the period specified.
9. The contractor shall provide without any extra charge all materials, tools, labour and assistance of every kind which the aforesaid officer may consider necessary for any test or examination which he may required to be made on the contractor's premises at his own cost, the maker shall provide all facilities including testing appliances for making necessary test other than special test, or independent tests. Failing the facilities at his own premises for making the tests elsewhere. The contractor shall also provide any delivery free of charge at such place as the aforesaid officer may direct such material as he may be required for tests by chemical analysis or independent testing

machine. If for the purpose of determining the quality of stores the aforesaid officer finds it necessary to have the stores tested at the test house or laboratory expenses incidental to the test shall be borne by the contractor. On failure if the contractor to pay the expenses within 10 days of the receipt of intimation in this behalf from inspecting officer, the Director, Health Services (SI), Punjab shall have the right to direct him / them (contractor/s) to deposit the said amount and if the same is not deposited within 10 days the Director, Health Services (SI), Punjab may target the default as breach of the agreement and proceed under clause (I) or the agreement (Schedule 'B') without further notice.

Further the aforesaid officer shall have the right to put articles or materials to such tests as he may think proper for the purpose of ascertaining whether the same are in accordance with the specifications of sealed samples mentioned in the tender and to cut or off / or destroy an portion not exceeding 2% from each delivery for such purposes. The quality so cut out or off and or destroyed as aforesaid shall be replaced by the contractor free of charge.

10. Packing cases, containers, gunny packages etc. which may be used for purpose of packing and which are delivered with store will not be returned or paid for unless specially stipulated.
11. Unless otherwise specified in a requisition bills for the whole of the goods, referred to each indent, in triplicate will be prepared under intimation to the Director, Health Services (SI), Punjab. The cost will be paid on recepect of stores in good conditions after their verification as regards specifications etc.
12. Had the payment of any bill not made within the specified period in the order the matter shall be reported to the Director, Health Services (SI), Punjab. However, all such complaints should contain following information:
 - (i) The number and date of the purchase order.
 - (ii) The designation of the requisitioning officer.
 - (iii) The designation and address of the consignee.
 - (iv) The designation and address of the office to whom the bill was sent by the contractor.
 - (v) The number and date of the bill and the date on which the bill was sent to the officer mentioned in (iv) above.
 - (vi) Full reference to reminders, if required.

- I.(I) with every dispatch of goods of material under this contract invoice in triplicate will be prepared by the contractor. Invoices in duplicate, are to be sent by the contractor to the Indenting Officer with the quantities or number received duly noted thereon, the third copy to be

sent by the contractor to the Director, Health Services (SI), Punjab for record in this office.

- (II) Railway Receipt will be forwarded to the consignee immediately after the dispatch of stores, should any demurrage charge be incurred owing to delay on the part of the contractor in forwarding the railway receipt, the amount of such charges will be deducted from the bill.
- (III) The contractor shall dispatch material duly freight paid in all cases (iii) and their offer is for destination. In the event of their failure to do so penalty of 5% will be charged in addition on the amount, paid as freight by the Indenting Officer on their behalf.
- (IV) The contractor will sent to the Director, Health Services (SI), Punjab quarterly statements of the goods supplied under this agreement in the following form.

Name of Officer	Indent No.	Name of Articles	Quantity of number supplied and to whom supplied and where	Value of supplies (included sales tax)	Remarks

- (V) All dispatches by rail will be made it Railway risk at the expenses of the contractor.

Subject to these conditions the contractors will not be entitled to charge or be paid for supplies broken lost or damaged in transit. The Director, Health Services (SI), Punjab or any other officer acting on his behalf will be the authority to determine whether or not the breakage loss or damage was cause through the contractor's negligence and his decision shall be final and conclusive against the contract. Such rejected supplies shall be removed by the contractor at his own expenses.

- (VI) If during the currency of the contract the specifications of any articles or articles to be supplied under be changed, the contract shall continue to comply with demand for the supply of the said articles in accordance with the new specifications at a rate to be mutually agreed to in writing at the time of such change and in default of such agreement the contractor is so far as it related to the said article or articles in respect of which no agreement has been arrived at shall terminate but no such change shall effect the supply of any other articles under the contract or entitle the contract to any compensation.

13. In the, event of withdrawn or discontinuance of any articles and consequent ceasing of or reduction in demand and the contract shall not be entitled to any compensation. Government will however, make all reasonable endeavours to give warning of any impending complete withdraw or any reduction seriously effecting quantities likely to be required under the contract.

14. The time for and date of delivery or dispatch stipulated in supply order shall be deemed to the essence of the contract, and should the contractor fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch stipulated in the supply order, the delayed consignment will be subject to 2% penalty per consignment as per provisions contained in store purchase Rules of Punjab Govt. However, no recovery of penalty will be made if the delayed supplied are accepted by extending the delivery by the Director, Health Services (SI), Punjab, Chandigarh or any other officer authorized by him to do so at his discretion.

15. The contractor shall acknowledge that he had made himself fully acquired with all the conditions and circumstances under which the supplied, required under the contract will have to be made or furnished and with all the terms clauses conditions specifications and other details of the contract and the contract shall not plead ignorance of any of those as excuse in case of complaint against or to rejection of supplies tendered by him or with a view either to asking for

enhancement of any rates agreed to in the contract or evading any of his obligation under the contract.

16. No payment will be made in advance for any supplies under this contract.
17. (i) The Contractor shall not:-
 - (a) Assign or subject the contract without written approval of the officer sanctioning the contract.
 - (b) Disclose details of the condition governing this contract to unauthorized person (indenting against this contract is permissible only for the bonafide use of Govt. Dep. And quasi public and not for private use of the Govt. Officers).
- (ii) In the event of contractor failing duly and properly to fulfill, or committing breach of any of the terms and conditions of this contract or repeatedly supplying goods liable to reject hereunder or failing declining neglecting/or delaying to comply with any demand or requisition or otherwise not executing the same in accordance with the terms of this contract or. If the contractor or his agents or employee being guilty of fraud in respect of the contract or any other contract entered into by the contractor or any of his partners or representatives thereof with Govt. directing giving promising or offering any bribe gratuity, gift, loan requisite rewards or advance pecuniary or otherwise to any person in the employment of Govt. in any way relating to such officer or person / persons or office employment or if the contract or any of his partners become involvement or apply for relief as involvement debtor or commence any insolvency proceeding or make any composition with his/their creditor or attempts to do so than Govt. shall be entitled to terminate the contract forthwith, forfeit the security and to black list the contractor and purchase or procure or arrange from Govt. stocks or otherwise at the contractor's risk and at the absolute discretion of the Director, Health Services (SI), Punjab as regard the manner place or time to such purchases, such supplies as have not been supplied or have been rejected under the agreement or are required subsequently by the Govt. all incidental charges or expenses shall be recoverable from the contractor on demand and the contractor shall not be entitled to benefit from any profit which may thus accrue to Govt.

The termination of this contract in whole or part under these conditions shall not be affected by the acceptance mean while or subsequently or supplies accepted or made at any station whether in ignorance of the termination or otherwise.

18. In any question, difference or objection whatsoever shall arise in any way connected with or arising out of this instrument or the meaning or operation of any part thereof or the rights, duties or liabilities of either party then save in so far as the decision of any such matter is here in before provided for and has been so decided, every such matter including whether its decision has been otherwise provided for and/or whether it has finally decided accordingly or whether the contract should be terminated or has been rightly terminated in whole or part and as regards the rights and obligations of the parties as the result or such termination shall be referred for arbitration to any officer appointed by DHS (SI), Pb., acting as such at the time of reference and his decision shall be final and binding and whether the matter involves a claim the amount if any awarded in such arbitration shall be recoverable in respect of the matter so referred.

19. If the price of a contracted article is controlled by a Government, the payment will in no case be made at higher rate than the controlled rate.

IN WITNESS THEREOF THE PARTNERS HAVE BEEN herein to set their hands on the dates indicated below:-

1. (in case of a firm)

Signed by the above named firm of _____
through _____
partner of the firm.

2. (in case of company)

The seal of the _____ Company Ltd.
was affixed by virtue of the resolution of the board No.
_____ dated _____ the _____ day of
2012.

Dated:

Seal

Director's
Signature

Secretary
Signatures

(in either case)

In the presence of:

1) Signature
Address
Description

2) Signature
Address
Description

Signed by _____

For Director Health Services (SI), Pb.
On behalf of Govt. of Punjab

S R.NO	ARTICLES	STATUS	S COMMENT
1	Aluminium slide tray	N.A.	
2	Binocular Microscope	ATTACHED	
3	Blood lancets	N.A.	
4	Water-bath with Thermostat	ATTACHED	
5	Brushes for test tubes small & big	N.A.	Cleaning item may be removed from list
6	Photoelectric colorimeter		As discussed may be removed from list
7	Capillary Tubes	NA	
8	Centrifuge tube 8 cm	Attached	
9	Centrifuge machine	Attached	
10	Cover-slips small & large	NA	
11	Dustbins with lids		Cleaning item may be removed from list
12	Filter paper discs	Attached	
13	Funnels small & large	Attached	
14	Glassware-beakers- 100,200,500 ml measuring cylinders 100,500 ml	Attached	
15	Hot air oven	Attached	
16	Hot plates	NA	
17	Incubator	Attached	
18	Micropipettes 10- 100,20-200,200-1000	Attached	
19	Needle 21&23 gauge	NA	
20	Petridishes 10 cms	Attached	
21	Pipettes stand horizontal	NA	
22	Pipettes .1, .2, 5 ml, 10ml	Attached	
23	Laboratory Refrigerator	Attached	
24	Glass slides	Attached	

4			
2	Stop watch	NA	
5			
2	Syringe and Needle destroyer	Attached	
6			
2	Test tube racks small & big	NA	
7			
2	Test tubes small & big	Attached	
8			
2	Wash bottles	NA	
9			
3	Glucometer	NA	
0			
3	Biochemistry semi Auto Analyzer	Attached	
1			
3	Air Conditioner	NA	
2			
3	Differential Cell Counter(DLC Counter)	NA	
3			
3	Automated heamatology analyzer	Attached	
4			
3	ESR stand both westergren & Wintrobe	NA	
5			
3	Westergren and Wintrobe tubes	NA	
6			
3	Hemocytometer	NA	
7			
3	Hemoglobinometer	Attached	
8			
3	HB pipettes	NA	
9			

SPECIFICATION OF BINOCULAR MICROSCOPE WITH OIL IMMERSION OBJECTIVE

1.	BODY	Binocular, sturdy, stable base body with focus adjustment controls in a position comfortable for prolonged use. The body should have a durable finish.
2.	EYE PIECE	Paired, high quality, (the image of the object as seen through the binocular eyepiece should be well defined centrally in least 2/3 field of view), achromatic, wide field, 10x without in built pointer. The eyepiece should be aplanatic and have a minimum field number of 18. Diopter adjustment must be present for one /both eye pieces.
3.	OBJECTIVES	Three objectives : 10x, 40x, 100x, 10x and 40x objectives should have numerical apertures of at least 0.25 and 0.65 respectively. 100x should have numerical aperture of at least 1.25 be of oil immersion and spring loaded type. Unbreakable containers to be provided for storing the objectives. All objectives should be wide field, achromatic and parfocal. Each objective should be engraved with the following information : <ul style="list-style-type: none"> a) Name / insignia of the manufacturer b) Magnification and numerical aperture c) 100x objective should be engraved with the word 'Oil' In the changing from one objective to another or reintroducing the same objective by rotation of the nosepiece, the center of the field should not appear displaced by more than 0.02 mm in the object plane.
4.	NOSE PIECE	Revolving nosepiece to accommodate a minimum of three objectives with positive stops. It should provide with ribbed grip for easy rotation mounted on a precision ball bearing mechanism. Any extra ports should be fitted with dust proof caps.
5.	STAGE	Uniformly horizontal, mechanical stage having dimensions of length 140 mm (\pm 20 mm) & breadth 140 mm (\pm 20 mm) with fine vernier graduations (minimum reading accuracy of 0.1 mm). The stage should be provided with spring loaded slide holder for exact positioning of specimen/slide. Minimum Movement range – 75 mm X- direction and 25 mm Y - direction. It should be designed with convenient sub-stage vertical coaxial adjustment for slide manipulation. The stage should have ball bearing arrangement to allow smooth travel in transverse directions.
6.	SUB-STAGE CONDENSER	Abbe-type condenser or equivalent, numerical aperture 1.25 or better, focusable with rack and pinion arrangement incorporating an aspherical lens and an iris-diaphragm. The

		condenser should have a filter holder and removable, swing in blue filter for bright field Microscopy.
7.	SUB-STAGE ILLUMINATOR	<p>i) The system should have a built-in, variable, low voltage light source. The circuitry for the light source should include a constant voltage supply. The system should be provided with a step down transformer and on/off switch and intensity control. The lamp should be provided with a lamp socket which has the facility for easy replacement of the bulb. The housing of the light source should be such that it will prevent heating of the body of the microscope.</p> <p>ii) Power supply - voltage : 220V, 50Hz AC - Should have one on –off power switch, power cord with a 3 pin male plug.</p> <p>iii) The system should have an inbuilt protective/safety device to withstand fluctuations of voltage from 140V to 280V.</p> <p>iv) A plano-concave mirror in fork mounting should be supplied which would be attachable to the base for field use.</p> <p>v) The fuse for the halogen lamp should be easily accessible.</p> <p>vi) The Illuminator should have a built-in field diaphragm for Kohler illumination.</p>
8.	EYE PIECE TUBES	Binocular eye piece tubes, inclined at 45 degrees, rotatable through an angle of 360 degrees, having inter-pupillary distance range of at least 50-70 mm.
9.	FOCUSING KNOB	Co-axial coarse and fine focusing knobs capable of smooth focusing movement over the full range of travel. The fine focusing movement should have sensitivity to microns or finer over the entire focusing range. The focusing knob should be on the both sides and a safety stop safety should be provided.
10.	GENERAL	<p>i) All optical parts including objectives, eye pieces and prisms should have anti-reflective, anti-fungal coating.</p> <p>ii) All metallic parts should be corrosion, acid and stain proof</p> <p>iii) All separate parts of the microscope should have the manufacturer clearly indicated.</p> <p>iv) The supplier will supply the complete assembled microscope in a rigid box along with a dust cover. The box should be made of well-seasoned wood ply or board and should be suitably padded inside to eliminate shock during transportation. It should be complete with lock and a suitable restraint for securing the microscope during transit. The box should be fitted with a carrying handle at the top and appropriate internal receptacles for holding the objectives, eyepieces and accessories.</p> <p>v) An authorized list of accessories and spare parts, technical brochure and user's manual should be</p>

		provided. vi) At least 25 ml immersion oil, a roll of lens tissue paper and lens cleaning solution (100 ml) should be provided. vii) An anti static cleaning brush should be provided.
11	SPARE PARTS	Spare parts as under : i) 100x oil immersion objective ii) Halogen bulb iii) Fuses – 6
12	TESTING & CALIBRATION	Proof of compliance to the relevant Standards and calibrations should be provided
13	STANDARD	The apparatus should confirm to IS:4381-1967 (reaffirmed 1991)with latest amendments or equivalent international standards for general requirements for optical components and optical instruments, marking and packing.
14.	WARRANTY	Two Years

SPECIFICATION OF WATER-BATH WITH THERMOSTAT:

A Water bath with :

Capacity : 4 liters

Racks : Minimum 4 Nos. stainless steel,

Thermostatically controlled, thermal cut off.

Maximum temperature upto 100 degree C

Temperature indicator :

Power supply : 200- 230 V AC, 50Hz.

The equipment should be ISI Marked.

Warranty period should be minimum 2 years.

SPECIFICATION OF CENTRIFUGE TUBE

Borosil glass tubes Capacity 15 ml, outer diameter 17, length 120 mm Un-graduated round / conical bottom.

SPECIFICATION OF CENTRIFUGE MACHINE: (ELECTRICAL) TABLE MODEL

A simple bench top electrically operated centrifuge for laboratory use :-

- 1) Digital timer of range 0-59 min.
- 2) Digital speedometer
- 3) Step-less speed regulator.
- 4) The speed of the machine should be approx. 5200 r.p.m. without load and approx. 4000 r.p.m. with load.
- 5) Double walled lid made of ABS plastic moulding having built-in lock.
- 6) It should be supplied with 16 X 15 ml swing out head with 16 stainless steel tube carriers with rubber cushions and 16 glass tubes of suitable capacity.
- 7) It should be stable while running with full load upto minimum period of 30 minutes.
- 8) Supply should be with standard accessories such as dust cover, instruction manual, 2 spare fuse, cord and plug to work on 220V±10% 50 HZ A.C.
- 9) Warranty : For two years

The equipment should be ISI Marked.

Warranty period should be minimum 2 years.

SPECIFICATION OF FILTER PAPER DISC

Whatman's type No. 1.

SPECIFICATION OF FUNNELS GLASS

Plain 60 degree angled sides Borosilicate glass funnels for fluids having a carefully aligned long stem to provide smooth even liquid flow with fast cut-off. In sizes 25 and 50 mm outer diameter.

SPECIFICATION OF GLASSWARE:

a. Beakers

Graduated Borosilicate glass beakers with Plain sides and a carefully aligned spout for fluids to provide smooth even liquid flow with fast cut-off. In following sizes.

S. No.	Capacity	Approx. Outer Diameter X Height.
1	25mm	35 X 45 mm
2	50mm	40 X 58 mm
3	100mm	50 X 75 mm
4	150mm	55X 88 mm
5	250mm	70 X 95 mm

b. Measuring Cylinders

Borosilicate glass measuring cylinder with heavy uniform wall tubing having graduation in metric scale and a pour out spout along with a strong stable hexagonal base.

S. No.	Capacity	Graduation Interval	Approx. Height
1	5 ml	0.1 ml	110 mm
2	25 ml	0.5 ml	170 mm
3	100 ml	1.0 ml	260 mm
4	250 ml	2.0 ml	335 mm
5	500 ml	5.0 ml	390 mm

6	1000 ml	10.0 ml	470 mm
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SPECIFICATION OF HOT AIR OVEN

A Hot Air Oven capable of sterilisation with:

- Max. Temperature : 200 degree C.
- Temperature indicator : digital
- Temperature Accuracy : 0.1 degree C
- Temperature controller : thermostat
- Timer : upto six hours.
- Air circulation : By fan.
- Power Supply : 200-230 V AC, 50 Hz.
- Dimensions : 800H mmx 600 W mm x 70 mm.(Approx.)
- Exterior : Stoved Enamel
- Interior : Stainless steel.

- Shelves : Three Distance between shelves at least 50mm.
- Supply with on/off switch & heater indicator lamp.
- With standard accessories.

The equipment should be ISI Marked.

Warranty period should be minimum 2 years.

SPECIFICATION OF INCUBATOR

An anhydric model incubator with:		
Temperature range	:	5 degree C above ambient to 70 degree C
Temperature Display	:	Digital
Temperature Controller	:	Thermostat.
Temperature resolution	:	0.1 degree C
Temperature Accuracy at 38 degree C : +/- 0.1 degree C		
Dimensions : 800H mm x 600W mm x 700D mm		
Exterior	:	Stoved Enamel
Interior	:	Stainless Steel
Power supply	:	200-230 V AC, 50 Hz

The incubator should have a circulating fan unit, inner glass door, timer & three shelves.

With Standard accessories.

The equipment should be ISI Marked.

Warranty: For two years

SPECIFICATION OF MICROPIPETTES

Mechanical Micropipette lightweight with ergonomic design allowing easy calibration and maintenance. Having color-coded ID stickers included with color-coded caps. The tip ejector should be convenient allowing one-handed operation and finger support should be available to allow keep the instrument in place with minimum effort. Ejector collar and tip cone can be removed for easy cleaning and maintenance. The tip cone material should be durable and provide excellent chemical resistance. The channel should have a cone filter to prevent contamination. Following single channel variable volume pipettes are required 10-100µl, 20-200µl, 200-1000µl.

SPECIFICATION OF PETRIDISHES

Borosilicate glass petridishes round in pair 10 cms in diameter.

SPECIFICATION OF PIPETTE

Glass pipettes (Mohr Type) with heavy wall made from borosilicate accurate glass tubing of uniform bore. The jet should be precision formed and ground ends should be beveled to resist chipping. The pipettes should have graduation for delivery from zero mark to the last graduation mark. The graduation marks should be in durable white enamel resistant to normal laboratory reagents and repeated washing. The pipettes should be autoclave able and if necessary can be flamed for sterilization.

Required in sizes 1,2,5,10 ml.

SPECIFICATION OF LABORATORY REFRIGERATOR

- Temperature Range -2 to 8 degree .
- Digital display
- Contact for remote Monitoring.
- Adjustable High /Low Temp. alarm visual and acoustic alarm and door open alarm.
- Fan for circulation. Lock and castors.
- Stainless steel exterior and interiors.
- Adjustable shelves, Interior light. Automatic door closing.

- Air forced cooling.

SPECIFICATION OF TEST TUBES

Rimless Test tubes made from borosilicate glass tubing of uniform thickness, having uniform thickness and able to withstand mechanical and thermal shocks. Sizes required are 12 X 75mm, 12 X 100 mm , 15 X 150 mm .

SPECIFICATION OF GLUCOMETER

Standard equipment Specification not available

SPECIFICATION OF BIOCHEMISTRY SEMIAUTO ANALYZER

A semi analyzer with :

- Test programmes : Capable of providing upto 125 tests and provision for all further growth.
- Capacity for performing substrates, Enzymes, Hormones, Specific Protein, Coagulation tests. Electrolytes and other defined chemicals by using end point, Kinetic & Fix time.
- Light sources: Tungsten Halogen lamp, continuous display of flow cell temperature verification during all tests.
- Self diagnostic programme, fully open system and programmable for any reagent kits and diagnostic programme.
- Automatic wavelength selection from 340 nm to 630 nm with a narrow band interference filters which should be changeable.
- Sample blank and reagent blank memory capability, Multi-chromatic & Multi-standard analysis.
- Should have digital display of absorbance in four digits upto 2.500 (o.d). Should have a printer attached to it.
- Automatic zero setting.
- Facility of manual cuvette in addition to flow cell.
- Along with a set of micro pipettes as :
 - 1 to 5 micro Lt.
 - 5 to 50 micro Lt.
 - 50 to 200 micro Lt.
 - 200 to 1000 micro Lt.
- Along with a minimum of 10 rolls of printing paper.
- The Semi-Auto Analyser should also contain an incubation chamber.
- Power Supply : 200 to 230 V AC, 50 Hz.
- With standard accessories like: Dust cover, Spare fuses, Filters etc.
- Should be backed by local availability of reagents.
- Rates of Kits should also be quoted which shall be valid for two years.
- Facility to load data from equipment to Computer.
- This facility will be optional and rate be quoted separately for this facility.
- **Warranty period should be minimum 2 years and CMC/AMC rates must be mentioned for atleast five years after warranty period with the rate list of spare parts.**

SPECIFICATION OF DIFFERENTIAL CELL COUNTER

Standard equipment Specification not available

SPECIFICATION OF AUTOMATED HEMATOLOGY ANALYZER (3 PART DIFFERENTIAL)

1. The system (Fully Automated Hematology Analyzer providing 18 parameters including 3 part differential) should be FDA / CE European approved, Certificate of approval must be attached.
2. System reportable parameters should include minimum of WBC,RBC,HGB,HCT,PLT,MCV,MCH,MCHC,RDW-SD,RDW-CV,PDW,MPV & three part DLC.
3. System should have large LCD display to have a view of all parameters and histograms on screen.
4. In addition to display, system should be able to print all the 18 parameters (with both options of with and without histograms being available) on inbuilt printer.
5. System should be capable of handling at least 50 samples per hour.
6. The system should have at least 200 samples test memory.
7. The system should have "Electrical impedance" method for cell counting and photometer flow cell for Hb.
8. System should be able to flag abnormal results with facility of adjustable floating discriminator for RBC, Platelet &WBC.
9. Should have software for quality control programs.
10. Sample aspiration volume should not be more than 100 µl, with facility of testing both whole blood & prediluted sample.
11. Automatic probe cleaning and clot detection should be available.
12. Power supply required should be in range of 220-240 V (50-60 Hz).
13. A suitable Blood Mixer should be supplied along with.
14. A **suitable online UPS** (Sine wave Based Technology with maintenance free batteries) with back up time of at least half an hour **for equipment and blood mixer** should be supplied along with.
15. System should be supplied with a startup kit for 2000 samples along with blood mixer.
16. The rates of reagents (diluent, lyser, cleaner, etc) shall be frozen for seven years. (I.e. 2 years warranty and 5 years CMC).

17. Rates for reagents, controls etc required should be quoted in Indian rupees.
18. Quotation should include warranty for 2 years and CMC for 5 years for equipment, bloodmixer & UPS.
19. Permissible downtime for equipment & UPS is 24 hrs. Please clearly state how this downtime shall be maintained (including availability of local service centers).
20. The principal manufacture should have minimum 5 installations of quoted model in minimum 500 bedded government hospitals/ institute in India, proof to be attached with bid.
21. Compliance/deviation statement should be enclosed with technical bid. All statements should be supported with principal manufacturer's printed literature including service manual and technical data.

SPECIFICATION OF HEMOGLOBINOMETER (SAHLI'S METHOD)

The Haemoglobin Meter should be square tube type and the kit should consist of the following:-

i. Comparator Holder

It should be black in colour and the windows should have the following dimensions :-

Height : 3 cms (Minimum)

Width : 0.5. cms (Minimum)

- ii. Colour comparator
- iii. Square Hb Tube with graduations at 0.2g percent interval.
- iv. 20 Microlitre Glass Hb – Pipette
- v. Amber Coloured Glass Bottle
- vi. Glass Stirrer
- vii. Dropper with Teat
- viii. Cleaning Brush
- ix. Latex Tubing with mouth piece. All the above should be fitted in sturdy polymer tray further packed in a plastic Box.

x. Standard Spares :-

The Kit should be also supplied with the following standard spare accessories

- i. Square Hb Tubes : 5 Nos.
- ii. Later Tubing with mouth piece : 1 Meter.
- iii. Hb. Pipettes : 3 Nos.
- iv. HCL N/10 : 500 ml
- v. Glass Dropper : 5 Nos.
- vi. Glass Stirrer : 2 Nos.

First preference will be given to ISI Marked product. In case no firm offer ISI Marked product then preference shall be given to the firm having ISO Certification for Quality Standards.

Warranty : For two years

SPECIFICATION OF SIMPLE (ANALYTICAL) BALANCE

A simple Balance with :

Capacity : 200gms.(approx.)

Resolution	:	0.1mg.
Reproducibility	:	Less than +/- 0.1 mg
Linearity	:	Less than +/- 0.2 mg
Pans	:	Antistatic (Stainless steel)
Pan diameter	:	Not less than 100mm.
Case	:	Glass.
Base	:	balanced base.
Door	:	Two side doors and one front sliding door.
Power Supply	:	200-230 V AC, 50Hz and rechargeable battery.

With overload protection.

With standard accessories like dust cover etc.

The equipment should be ISI Marked.

Warranty period should be minimum 2 years.

SPECIFICATION OF ROTOR CUM SHAKER

An electrically operated rotor-cum-shaker with:

Platform size	:	12 inches x 12 inches.
Platform Material	:	Non-Slip rubber.
Timer	:	mechanical/electronic.
Speed	:	Adjustable control.
Power Supply	:	200 to 230 V AC, 50 Hz.

The equipment should be ISI Marked.

Warranty : For two years

Specifications of syringe and needle destroyer

Portable Electrical Needle Syringe Destroyer to destroy the used injection needles and syringes in Hospitals. Equipments should be destroying the needles by instant electro-melting process and syringe tips by manual cutter suitable for operation on 230 V +/- 10%, 50 Hz. Housing enclosure should be molded type, shock proof and made of following material such as ABS plastic/Glass filled nylon. Suitable tray made of the same material, as that of the enclosure housing should be provided with provision of metallic lining inside on the side walls as well as the bottom of the unit for collection of residue and destroyed syringes tips.

Suitable provision to burn the needle and to cut the syringe tips should be provided in the unit. It should have hardened blade of stainless steel material to cut the syringe tips. The unit should have adequate capacity to destroy all kinds and following sizes of injection needles:

Dia Ranging from – 0.4 mm to 1.6 mm

Length – 12.5 mm to 80 mm

Power on/off switch should be provided along with power on indicator. The unit should be provided with fuse of adequate rating. The item quoted should be provided with power cord of 3 meters length and an earthing point.

Specifications of glass slides

Glass slides of size: 76x26mm, thickness 1.45mm. made from optically flat sheet. Dimension variation of micro slides in sizes should not be more than plus-minus 1mm and in thickness plus-minus 0.1mm. The slides should be with ground edges and in lint free packing of boxes of 50 slides.

List of Articles required for ESI Diagnostic Centre to be opened at Derabassi & Other ESI Hospitals-Pb.

Sr. No.	Articles	Total Quantity
1	Aluminium Slide Tray (pcs.)	23
2	Binocular Microscope	10
3	Blood lancets (pcs.)	17500
4	Waterbath with Thermostat	3
5	Brushes for test tubes big	152
5	Brushes for test tubes small	152
6	Photoelectric colorimeter	6
7	Capillary Tubes	216
8	Centrifuge Tubes 8cm (Plastic)	630
9	Centrifuge machine	13
10	Coverslips large (18 x 18) (22 x 50) (pkt.)	210
10	Coverslips small (18 x 18) (22 x 50) (pkt.)	210
11	Dustbins with lids	17
12	Filterpaper discs	810
13	Funnels large	43
13	Funnels small	43
14	Glassware-beakers-100,200,500 ml measuring cylinders 100,500 ml	55+55
15	Hot air oven	3
16	Hot plates	11
17	Incubator	6
18	Micropipettes 10-100ul	12
18	Micropipettes 20-200ul	12
18	Micropipettes 200-1000ul	12
19	Needle 21 gauge	6000
19	Needle 23 gauge	6000
20	Petridishes 10 cms	10
21	Pipette stand horizontal	27
	Pipettes .1 ml	24
	Pipettes 2 ml	24
22	Pipettes 5 ml	24
22	Pipettes 10 ml	24
23	Refridgerator 365 ltr.	14
24	Glass Slides (pkt.)	482
25	Stop Watch	13
26	Syringe and Needle destroyer	15
27	Test tube racks small	15
27	Test tube racks big	15

28	Test tubes small	1100
28	Test tubes big	1100
29	Wash bottles	63
30	Glucometer	1
31	Biochemistry Semi Auto Analyzer	12
32	Air Conditioner	13
33	Differential Cell Counter (DLC Counter)	15
34	Automated Hematology analyzer	11
35	ESR stand both Westergren & Wintrobe	22+22
36	Westergren and Wintrobe tubes	108+1 08
37	Hemocytometer	10
38	Syring 5CC (5 ml)	3000
39	Hemoglobinometer	15
40	HB pipettes	166
41	X-ray Machine 300 MA	1
42	Tips Big	19000
43	Tips Small	36000
44	Micro Tape	534
45	Semi Auto Analyzer Washing Sol (bott.)	110
46	3.8% Sodium Citrate 500 ml (bott.)	35
47	N/10 HCL (bott.)	90
48	Sodium Hypochlorite 5% sol (bott.)	94
49	Urine Strips (VRS-2P) (pcs.)	17200
50	Glucometer Strips (pcs.)	750
51	Monteux test	11
52	VDRL kit	820
53	HCV kit (Strips)	830
54	HIV kit (Strips)	830
55	RA factor kit	815
56	HBs Ag. Kit 50 pack (Strips)	830
57	Blood Urea Kit (500 ml)	30
58	S. Creatnine (500 ml)	24
59	S. Cholesterol (500 ml)	24
60	S. Triglyceride (TGL)	17
61	S. Bilirubin kit (500 ml)	25
62	SGOT & SGOT Kit	14
63	S. Protein	14
64	S. Alkaline Phosphate	19
65	S. Uric Acid Kit (500 ml)	26
66	Sulphosalicylic Acid Powder	2
67	EDTA Tube 20 box	220

68	S. Calcium Kit	21
69	S. Phosphorus kit	11
70	Dengue kit	720
71	Dropping bottles plastic (125 ml)	63
72	Test tube without rim 12 x 75 borosil	2100
73	Oil immersion Lens for microscope	12
74	Cell Counter (Hemo & all test)	4
75	Auto Pipette 1000 ul	2
76	Auto Pipette 100 ul	2
77	Auto Pipette 10-100 ul	2
78	Auto Pipette 5-50 ul	2
79	Auto Pipette 50-200 ul	2

List of Articles required for Laboratory Items

Sr. No.	Articles	Total Quantity
1	Pregnancy test kit (Strips)	4720
2	Widal test kit	68
3	P.P.D. Test Kit	10
3	RA test Kit	24
4	Geins stains (500 ml)	40
5	Blood grouping test kit	53
6	N/10 Hcl	100
7	Slides	350
8	Test Tubes glass (3" x 4")	2000
9	EDTA Powder	22
10	Lougoules Iodine	12
11	Sprit	183
12	Cover Slip (18 x 18)	103
13	Leishman's Stone Sol. (250 ml)	107
14	Glass Dropper with Rubber Teeth	570
15	Cloves Oil	22
16	Xylene	27
17	TLC Fluid	258
18	Acetic Acid	35
19	Benadic Acid	10
20	Liquid paraffin	19
21	Solvent Ether	10
22	Lab Washing Reagent	127

23	D. Water	15
24	Paper Roll for Sami Auto Analyzer	175
25	Blood Sugar Kit (500 ml)	36
26	Eosin	20
27	Deionised Water	22
28	Hemotoxin	20
29	Tubes B.D. Vacutainer SST-II	10000
30	Isopropile Alchoal	10
31	D.P.X. Mountant	5
32	Methnol (500 ml)	22
33	Aceton	24
34	Olive Oil	24
35	- Dis. Syringe c needles 3 ml	3000
36	- Dis. Syringe c needles 5 ml	2000