



**ESI POST GRADUATE INSTITUTE OF MEDICAL SCIENCE AND RESEARCH  
AND**

**ESIC HOSPITAL & OCCUPATIONAL DISEASE CENTRE (E.Z.),**

**(A statutory body under Ministry of Labour Govt, of India)**

**DIAMOND HARBOUR ROAD, JOKA, KOLKATA, 700 104**

**Fax: 033 2467 2795, Phone: 033 2467 1764 / 6280 / 1322/2799**

**(An ISO 9001:2008 CERTIFIED ORGANISATION)**

Tender No. H.41.U.30/10/Equip/2000 /Vol II

Dated: 08.08.2011

**Sub: Open Tender Enquiry – (Two Bid System): For supply of Equipments and Instruments.**

**(NOTE:** The envelope containing the tender as well as subsequent communications should be addressed and delivered to 'The Medical Superintendent', ESIC Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700 104, West Bengal. All communications must be addressed to the officer named above by title only and not by name.)

To:

\_\_\_\_\_  
\_\_\_\_\_

Sir(s),

Sealed tenders are invited (under Two Bid System - "TECHNICAL BID" & "PRICE BID") by post/per bearer from bonafide manufacturers / authorised dealers for supply of "**Equipments and Instruments**" as per categories / specifications and/or quantities detailed in the **Schedules / Specifications** (Annexure – IV) attached.

The "**Tender Documents**" comprising the Compulsory Documents (**Annexure I**), *General Terms and Conditions of Contract* (**Annexure II**) and the *Special Terms and Conditions of Contract* (**Annexure III**) which will govern any contract made, the *Tender Application Form* (**Annexure IV**) and the *Schedule of contract / specifications of items* (**Annexure-V**) are enclosed herewith. If you are in a position to quote for the contract in accordance with the requirements stated in the attached schedule as per the terms and conditions stated, please submit your quotation to this office.

The tender document may be obtained from the office of the Medical Superintendent in person by the bonafide applicant or his authorised representative by applying in their letter head at a cost of Rs.1000.00 (Rupees One Thousand Only). The "tender documents" can also be downloaded from the web site ([www.esic.nic.in](http://www.esic.nic.in)) and in such case the same may be signed and submitted as per the procedures mentioned hereinafter along with the fee(s) for the "tender documents" @ Rs 1000.00 (Rupees One Thousand Only) (To be submitted along with the Technical Bid. It should not be enclosed in the envelope containing the Price Bid). All the payment may be made by **Demand Draft**; drawn **in favour of ESI Fund A/c No. 1, payable at Kolkata; Cheques will not be accepted.**

Tenderers are requested that, before quoting their rates or sending tender, the tender forms may please be read out thoroughly (line by line) so as to have a clear knowledge of the requirement contained therein, otherwise purchaser will not be held responsible for any error / oversight of his own and the penalties shall be levied for not complying with the requirements stated herein or supply of the required item/services.

The form is a Standard Form of Tender. Certain clause / clauses may not be applicable in some cases. So, Tenderers are requested to ignore such clause / clauses, which are not applicable in the instant case.

The Tender forms containing the compulsory documents(**Annexure – I**), the Terms and Conditions (**Annexure – II**), the Special Terms and Conditions of Contract (**Annexure III**), the Tender Application Form (**Annexure IV**) and the Schedule of contract / specifications of items (**Annexure-V**) **should be returned in original along with the technical bid document, intact, after filling up the same and duly signing in full with stamp, on each page,** failing which the tender shall be liable for rejection.

## PARTICULARS

Cost of each Tender Document	Rs. 1000.00 (Rupees One Thousand Only)
Period for supply of Blank Tender Forms and related documents at the Hospital on all Working Days (Except Saturdays, Sundays and Holidays)	<b>08.08.2011 to 05.09.2011 from 10.30 am to 3.00 pm</b>
Pre Bid Meeting	<b>16.08.2011 at 2.00 pm</b>
Last Date & Time of submission of completed Tender Document in the Tender Box kept in the Office of ESIC Hospital.	<b>06.09.2011 upto 2.00 pm</b>
Date & Time of Opening of Technical Bid	<b>06.09.2011 at 2.30 pm</b>
Bid Security / Earnest Money to be deposited	Amount of EMD to be deposited is, as mentioned against each of the equipment / instrument /item in annexure V of the tender document. While quoting for more than one item, the earnest money mentioned against each quoted item are to be taken into consideration and added up while submitting the earnest money / bid security.
Performance security / Security Deposit Money to be deposited	10 % of the Bill Value of each of individual equipment & instrument to be purchased from the tenderer after selection.

Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any tender and reserves the right of accepting or rejecting the whole or any part of the tender without assigning any reason thereof. Canvassing in any form by the tenderer or his representative with any of the officials of ESIC Hospital shall render the tender liable to be rejected.

Acceptance by the purchaser shall be communicated in due course. You are requested that the instructions contained in the said communication should be acted upon immediately as asked for.

**THE FIRM IS REQUESTED TO FOLLOW THE CHECK LIST AT THE TIME OF SUBMISSION OF TENDER DOCUMENT WITHOUT WHICH THE OFFER IS LIABLE TO BE CANCELLED:**

### **COMPULSORY DOCUMENTS:**

[ Without which the offer is liable to be cancelled)

1. Tender Document Fee: Rs. \_\_\_\_\_ DD No. \_\_\_\_\_ dated \_\_\_\_\_
2. EMD Value: Rs. \_\_\_\_\_ DD No. \_\_\_\_\_ Dated \_\_\_\_\_
3. Valid Trade Licence Certificate: Valid upto \_\_\_\_\_
4. Warranty Certificate: At least for one year, submitted [Yes /No]
5. VAT / CST certificate: Submitted [Yes /No]
6. Mandatory AMC for five years Certificate along with rates for different years:  
Submitted, [Yes /No]
7. Mandatory spare parts availability for five years Certificate: Submitted, [Yes/No.]
8. Original tender document signing all the pages: Submitted, [Yes/No.]
9. Name & Address of Service Centre In KOLKATA: Submitted, [Yes/No.]
10. COPY OF PAN/TAN CARD: Submitted, [Yes/No.]

Enclosures:

1. Annexure – I (Compulsory Documents).
2. Annexure – II (General Tender Terms & Conditions).
3. Annexure – III (Special Tender Terms & Conditions).
4. Annexure – IV (Tender Application Form).
5. Annexure –V (Schedule / specifications of items/equipment).

Yours sincerely,

**MEDICAL SUPERINTENDENT**



To  
Tha Medical Superintendent  
ESIC Hospital & Occupational Disease Centre (E.Z.),  
Diamond Harbour Road, Joka, Kolkata, 700 104

**COMPULSORY DOCUMENTS:**

[ Without which the offer is liable to be cancelled)

1. Tender Document Fee: Rs. \_\_\_\_\_ DD No. \_\_\_\_\_ dated \_\_\_\_\_

2. EMD Value: Rs. \_\_\_\_\_ DD No. \_\_\_\_\_ Dated \_\_\_\_\_

3. Valid Trade Licence Certificate: Valid upto \_\_\_\_\_

4. Warranty Certificate: At least for one year, submitted [Yes /No]

5. VAT / CST certificate: Submitted [Yes /No]

6. Mandatory AMC for five years Certificate along with rates for different years:

Submitted, [Yes /No]

7. Mandatory spare parts availability for five years Certificate: Submitted, [Yes/No.]

8. Original tender document signing all the pages: Submitted, [Yes/No.]

9. Name & Address of Service Centre In KOLKATA: Submitted, [Yes/No.]

10. COPY OF PAN/TAN CARD: Submitted, [Yes/No.]

Date:-

Signature of the tenderer:-

Place:-

Full Name:-

Designation:-

(Office seal of the tenderer)

**GENERAL TERMS AND CONDITIONS FOR TENDER / BID****1. PREPARATION OF TENDER:**

- a. The original Tender form containing the Terms and Conditions (General and Special) and the Schedule should be returned in original after filling up the form and duly signing in full on each page with stamp, whether you are quoting for any item or not, failing which the tender is liable to be rejected.
- b. If any item in the schedule is not being tendered for, the corresponding space against the item should be defaced by writing '**not quoting**'.
- c. In the event of the space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bear the Tender Number and be duly signed and stamped by you. In such cases, reference to the additional pages must be made in the Tender Form.
- d. The Tenderer shall, wherever call upon to do so, give full information with reference to the services in hand and shall also permit the Medical Superintendent or any other officer nominated by him to inspect the premises of the tenderer at all reasonable times and shall give full assistance and information as may be required by him in connection with the contract.

**2. SIGNING OF TENDER:**

- a) The tender is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the tender are not duly & fully filled in. Particular attention may be given to the dates of delivery, places of delivery and also to the particulars referred to in the conditions of contract so as to comply with them.
- b) Individuals signing tender or other documents connected with the contract must specify:
  - i) Whether signing as a 'Sole Proprietor' of the firm or his Attorney?
  - ii) Whether signing as a 'Registered Active Partner' of the firm or his Attorney?
  - iii) Whether signing for the firm 'Per Procreation'?

In the case of companies and firms registered under the Indian Partnership Act, the capacity in which signing e.g. Secretary, Manager, and Partner etc. or their attorney and produce copy of documents, empowering him to do so, if called upon to do so.

**NOTE:** In case of unregistered firms, all the members or all Attorneys duly authorised by all of them or the Manager of the firm should sign the tender and subsequent documents.

**1. PROCEDURE FOR SUBMISSION OF TENDERS / BIDS:**

- I. The tender should be submitted **in 'TWO BID' SYSTEM:-**
  - i. **TECHNICAL BIDS:**
    - a. **TECHNICAL BIDS** in one separate envelope, sealed, super scribed with the wordings "**TECHNICAL BID**".
    - b. The original copy of tender (Annexure – I to annexure - IV), duly completed and signed on each page, should be submitted/returned back, enclosed along with the "**TECHNICAL BID**".
    - c. The "**Technical Bid**" shall contain Earnest Money, the Cost of the Tender Document (if downloaded from the web), both in the form of demand drafts as prescribed hereinbefore, and all the technical details & documents along with commercial terms and conditions in support of the quoted equipment.
    - d. The Earnest Money Deposit (EMD) should be submitted in separate envelope super scribed with the wordings "**EMD**".
    - e. Prices / Costs of the items **should not be** indicated anywhere in the Technical Bid. This should be followed meticulously failing which the tender is liable to be cancelled.
  - ii. **PRICE (FINANCE) BID**
    - a. **PRICE (FINANCE) BID** for **each ITEM** is to be submitted in **SEPARATE** sealed envelopes, super scribed with the wordings "**PRICE (FINANCIAL) BID**" and the "**NAME OF THE ITEM**". All such sealed envelopes of Price Bids for individual items are to be kept in a large sealed envelope, again superscribed with the wordings "**PRICE (FINANCIAL) BID**". This should be followed meticulously failing which the tender is liable to be cancelled.
    - b. The 'Price/Financial Bid' will contain item-wise price / cost for the items mentioned / quoted in the technical bid.
- II. Both the Technical Bid envelope and the Price (Financial) Bid envelope, prepared as above, are to be kept in a larger single envelope super-scribed with "**TENDER (TWO BID SYSTEM) FOR SUPPLY OF Equipments and Instruments**" so as to give a double cover protection.
- III. The outer cover should also be sealed and addressed to the Medical Superintendent in the address mentioned hereinbefore.

IV. **Tenders submitted without following the 'Two Bid' System procedure will be rejected.**



2. **LATEST HOUR FOR RECEIPT OF THE TENDER:**

Your tender must reach this office not later than the date and time notified in the Tender Notice stated in the TENDER DOCUMENT. Any tender received after that shall be rejected. In the event of the stipulated date of opening of the tender being declared a closed holiday for Govt. offices, the date of opening of the tender(s) will be the next working day. Tender sent by hand delivery, should be delivered at this office not later than the due date and time stipulated in the schedule of tender.

3. **THIS TENDER DOCUMENT IS NON-TRANSFERABLE**

4. **PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN AND PERIOD OF VALIDITY:**

- i) All tenders should remain open for acceptance for a **period of twelve months** from the date of opening of the tender.
- ii) The contract / tender, if awarded, shall be valid **initially for one year from the date of award of Contract** subject to continuous satisfactory performance and on failure on this aspect by the contractor, the Competent Authority will reserve the right to terminate the contract. The period of the contract can be extended for further period at the discretion of the Competent Authority, to a maximum of one year, on terms and conditions of the hospital, while accepting the tender.
- iii) Quotations qualified by such vague and indefinite expressions such as 'subject to immediate acceptance'; 'subject to prior sale' etc. will not be considered.

5. **OPENING OF TENDER:**

- I. The **Technical bids** will be opened on the specified date and time in the presence of bidders/representatives who choose to attend on the date and time as mentioned.
- II. The bidders/ representatives who are present in the opening shall sign evidencing their attendance.
- III. The **Price/Financial bids** of the bidders whose technical bids are found technically suitable (after the selection of samples / demonstration of equipment / Item, if any) only will be opened later. **The decision of the committee on technical suitability shall be final and shall not be opened for discussion.**

6. **PRICES:**

- i) Prices are to be quoted in Indian Rupees.
- ii) Prices quoted in the Price/Financial Bid must be meaningful and measurable in the context.
- iii) The prices quoted must be per unit shown in the schedule inclusive of all packaging, installation and delivery charges wherever applicable. Refunds on account of returnable package (if any) are to be separately specified. Price & Fund must be clearly shown in figures and words.
- iv) Tenderers should clearly specify whether prices quoted are inclusive of Sales Tax/ VAT / duties / statutory charges or such charges as extra. Where no specific mention is made to Sales tax / VAT/ or other duties, prices quoted shall be **deemed to be inclusive of such taxes / charges.**
- v) The ESIC Hospital and ODC (EZ), Joka, is not authorized to issue 'C/D forms'.

7. **BID SECURITY / EARNEST MONEY:**

The tenderer shall have to deposit an earnest money equivalent to the amount as mentioned against each of the equipment / instrument /item in annexure V of the tender document **with their Technical Bid at the time of application, failing which the tender shall be rejected.** While quoting for more than one item, the earnest money mentioned against each quoted item are to be taken into consideration and added up while submitting the earnest money / **bid security and shall be paid in single demand draft** . The earnest money is to be paid by Demand Draft drawn in favour of **ESI Fund A/c No. 1**, payable at Kolkata. **NO CHEQUES OR CASH WILL BE ACCEPTED.** In the event of the withdrawal / revocation of tenders before the date specified for acceptance, the earnest money shall stand forfeited. In the event of acceptance of the tender the earnest money may be adjusted, on written request, towards the amount of security required to be deposited by the contractor in terms of Clause mentioned herein. The earnest money will however, be returned without interest to the tenderer whose tender is not accepted after the finalisation of the tender.

8. **SECURITY DEPOSIT / PERFORMANCE SECURITY:**

On acceptance of the tender, within the period specified by the Medical Superintendent, the successful tenderer / contractor shall deposit a sum equivalent to **10 % (Ten Percentages) of the Bill Value, rounded off to the nearest Rupee**, as security deposit, for due compliance & fulfilment of the terms and conditions of the contract. This has to be in the form of a bank draft, drawn in any of the nationalised bank, in favour of **ESI Fund A/c No. 1**, payable at Kolkata. **NO CHEQUES WILL BE ACCEPTED** for this purpose. On due performance and successful completion of the contract in all respect including warranty period, the security money deposit shall be returned to the contractor without any interest on *presentation of an absolute 'No Demand Certificate' in the prescribed form and upon return in good condition of any specifications, samples or other property belonging to the purchaser, which may have been issued to the contractor. If the contractor fails in fulfilling the terms and conditions mentioned here in different parts of this tender document, such failure will constitute a breach of the contract and the Medical Superintendent shall be entitled to make other arrangements at the risk and expense of the contractor. Also, non-performance/unsatisfactory performance or violation of terms and conditions of the contract will make the contractor liable for forfeiture of security deposit. The decision of the Medical Superintendent shall be final and binding on this count.*

9. **DELIVERY TERMS:**

- a. **Time and date of delivery:** The essence of contract: - The time for and the date of delivery of the stores / date of execution of work as stipulated in the schedule shall be deemed to be the essence of contract and delivery / execution must be completed not later than the date(s) specified. The delivery of the stores / execution of work / providing the services etc. are required within a period as specified in the purchase order and as the place mentioned therein. Normally maximum 6 weeks time is allowed from the date of issue of the purchase order for execution of the supply of the equipment / article. However, the time

allowed for execution of order shall be governed by the stipulated time mentioned on the purchase order of Delivery of equipment / Items.

- b. The tenderer shall deliver the stores/ execute the work at the destination / space defined to the consignee / authority in good order (of which the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, Kolkata shall be the sole judge) within the limits of the time as deemed reasonable and specify in such quantities/qualities as may be ordered by him from time to time.
- c. When a purchase order is placed to the successful tenderer, he shall have to acknowledge the receipt of the said order within 10 (ten) days of the issue.
- d. In case this office does not receive supply of the above item(s), by due or extended date of delivery, the above stated order will stand CANCELLED, unless extension is sought for and granted by the competent authority for the late supply. In such cases, purchase of the above items will be made at the tenderer's RISK & COST without his consent and correspondence in these regards. The competent authority reserves the right to recover the difference of excess expenditure so incurred from the tenderer's incoming bills or otherwise in addition to forfeiting the earnest money deposited by the tenderer.
- e. But if the delay shall have arisen from any cause, such as strikes, lockouts, fire accidents, riots, etc., which, the Medical Superintendent, ESIC Hospital & ODC (E.Z) may admit it as reasonable ground for further time, and the Medical Superintendent may allow such additional time required by circumstances of the case.

**10. PAYMENT TERMS:**

- 1) 100% Payment will be made only after supply, inspection, complete installation and satisfactory demonstration of performance of the item / equipment / instrument (including supply of all accessories) subject to deposition of a sum equivalent to 10 % (Ten Percentages) of the Bill Value as mentioned under Security Deposit / Performance Security Clause mentioned above or submission of Performance Bank Guarantee for 10% value of the order valid for the warranty period from any Scheduled Bank or. Otherwise 90% payment will be released after installation & balance 10% payment will be released after warranty period or against bank guarantee for the warranty period. No advance payment before effecting supply as above either part or full of any kind shall be made under any circumstances.
- 2) Payment shall be made through cheque or Electronic Clearing System. Normally, payment is made within six weeks after satisfactory inspection, installation and performance of the item / equipment / instrument subject to submission of appropriate and correct invoice, Challans and other documents as deemed fit.
- 3) In case of cheque, the same may be dispatched through Registered Post.

**11. OTHER TERMS:**

- a) **Responsibility for executing Contract:** The contractor is to be entirely responsible for the execution of the contract in all respects in accordance with the terms and conditions as specified in the acceptance of tender.
- b) The contractor shall not sublet transfer or assign the contract to any part thereof without the written permission of the Medical Superintendent. In the event of the contractor contravening this condition, Medical Superintendent be entitled to place the contract elsewhere on the contractors account at his risk and the contractor shall be liable for any loss or damage, which the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, may sustain in consequence or arising out of such replacing of the contract.
- c) **Recovery of sums due:** Whenever any claim for the payment of a sum of money arises out of or under this contract against the contractor the purchaser shall be entitled to recover of such sum by appropriating, in part or whole the security/earnest money deposited by the contractor, when the balance or the total sum to be recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to recoverable under this or any other contract with the purchaser. Should this sum not be sufficient to cover the full amount recoverable, the contractor shall pay to the purchaser on demand the remaining balance due.
- d) **Insolvency and breach of contract:** The Medical Superintendent may at any time by notice in writing summarily terminate the contract without compensation to the contractor in any of the following events, that is to say:-
  - i) *If the contractor being at individual or if firm, any partner in the contractor's firm, shall at any time be adjudged insolvent or shall have a receiving order or orders for administration of his estate made against him or shall take any proceedings for liquidation or composition under any insolvency not for the time being in force or shall make any convenience or assignment of his efforts or enter into any arrangements or composition with his creditors or suspend payment of if the firm be dissolved under partnership act, or*
  - ii) *If the contractor being a company shall pass a resolution or the court shall make an order for the liquidation of the affairs or a receiver of Manager on behalf of the debenture holder shall be appointed or circumstances shall have arisen which entitled the court or debenture holders to appoint a receiver or Manager.*
  - iii) *If the contract commits any breach of this contract not herein specifically proved for: Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the purchaser and provided also that the contractor shall be liable to pay the purchaser for any extra expenditure, he is thereby put to but shall not be entitled to any gain on repurchased.*
- e) **Arbitration:** In the event of any dispute or difference arising out of the terms and conditions laid down in this tender, the same shall be referred to Arbitrator appointed by the medical superintendent. The procedure of the Arbitration will be governed by the provisions Arbitration Act 1940 (as amended as rules framed there under).
- f) **Document:** The tenderer should have a valid **Trade licence, PAN / TAN / other statutory document as applicable** and produce attested copies of such certificates along with the tender papers in Technical Bid, failing which the tender is liable to be rejected.
- g) **Right to accept / reject:** The hospital authority reserves the right to **reject** any or all tender without assigning any reason whatsoever. Also, the hospital authority reserves the right to **award** any or part or full contract to any successful agency at its discretion and this will be binding on the tenderer.
- h) The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
- i) **Assistance to contractor:** The contractor shall not be entitled to assistance either, in the procurement of raw materials required for the fulfilment of the contract or in the securing of transport facilities.

- j) In case of failure to comply with the provisions of the terms and conditions mentioned, by the agency that has been awarded the contract, the hospital authority reserves the right to award the contract to the next higher tenderer or outside agency and the difference of price will be recovered from the defaulter agency who has been awarded the initial contract and this will be binding on the tenderer.
- k) Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, does not pledge himself to accept the lowest or any tender and reserve to himself the right of accepting the whole or any part of the tender or portion of the quantity offered and you shall supply the same / execute the work at the rate quoted by you. You are at liberty to tender for the whole or any part.
- l) **Failure and Termination:** If the contractor fails to delivery the stores or any instalments thereof within the period prescribed for such delivery in the contract or any time liquidation the contract before the expiry of such period, the Director (Medical)/Medical Superintendent may without prejudice to his right to recover damages for breach of the contract, be entitled at his option.
- i. To recovery from the contractor as agreed liquidated damages, and not by way of penalty a sum equivalent to 2% of the price of any stores which the contractor has failed to deliver within the period fixed for delivery for the schedule for each month or part of the month during which the delivery of such stores may be in arrears, where delivery thereof is accepted after expiry of the aforesaid period, or
- ii. To purchase elsewhere, without notice to the contractor, on his account and at the risk of the contractor, the stores not delivered or stores of similar description (where stores exactly complying with the particulars are not in the opinion of the Director (Medical)/Medical Superintendent, ESIC Hospital & ODC (E.Z), Joka, readily procurable such opinion being final). Without cancelling the delivery in respect of the consignments not yet due for delivery, or
- iii. To cancel the contract or a portion thereof, and if so decided to purchase or authorise to purchase of stores not so delivered or other of a similar description (where stores exactly complying with the particulars are not, in the opinion of the Director (Medical) / Medical Superintendent readily procurable, such opinion being final) at the risk and cost of the contractor.



**MEDICAL SUPERINTENDENT**



**SPECIAL TERMS AND CONDITIONS**

The following special terms and conditions shall apply for supply of **Equipments and Instruments** at ESIC Hospital & O.D.C. (E.Z), Joka.

**A. INSPECTION / INSTALLATION OF ITEMS / EQUIPMENTS:**

Supplies shall be accepted and work shall be certified as completed subject to **satisfactory and complete installation** (upto full potentials claimed for that respective equipment/ Item) of the equipment / items supplied including supply of all accessories, and certified by the assigned officer, and subsequent inspection by Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, or his assigned representative. Any defect found in the materials / equipment / items supplied / work done will render the supplies / work open to rejection and decision of the Medical Superintendent, ESIC Hospital & ODC (EZ), Joka, shall be final and legally binding. The tenderers shall **have to take the same (rejected store) back at their own cost and risk**, and **shall replace** such rejections with the items of standard specifications / quality as acceptable to the Hospital Authority. Alternatively, the stores may be purchased from others / work may be executed through others, at the risks and costs of the tenderer, at the discretion of the authority.

**B. WARRANTY / GUARANTEE:**

Along with the **Technical Bid** the following information are to be provided exclusively.

- (i) All the **equipments** shall be carrying **at least 1** (One) year warranty / guarantee against defects of manufacturer/workmanship and poor quality of components. Accordingly, the **tenderers shall indicate clearly** and exhaustively the mandatory warranty / guarantee offered by them / by the manufacturing / supplying firms, its duration, as well as the various Terms & Conditions involved therein, at the time of submission of the Technical Bid papers.
- (ii) The tenderer must be able to provide **after sales service** for the equipments quoted at least for a period of **five years**. A declaration to such effect must be accompanied with the offer, in the technical bid.
- (iii) **Uptime guarantee:** During the warranty/guarantee / AMC period the firm will maintain the equipment in good working condition. All the complaints will be attended by the firm within 24 hours of the dispatch of a complaint to their office. The firm shall ensure that machine is set right within 10 days (Ten Days) of the intimation. However, the tenderer have to arrange similar equipment as a standby at his cost and risk in case of breakdown. In case of the machine not being made functional within 10 days (Ten Days), **Stiff Penalty** equivalent to **1½%** of the cost of machine per week shall be levied for every week of delay at the discretion of the authority. In addition, the tenderer have to arrange similar equipment as a standby as stated above.
- (iv) A certificate about satisfactory performance of the equipment duly authenticated by other existing users of the equipment has to be supplied.

**C. SOFT WARE UPGRADATION:**

Free up-gradation of software (all update & upgrades) at least for 5 years is to be provided wherever applicable.

**D. CERTIFICATES TO BE SUBMITTED ALONGWITH THE TECHNICAL BID:**

**The following written guarantee / declaration must be provided exclusively without which the quotation shall be liable for rejection.**

1. The name, addresses, phone no, fax no, etc, of the authorised **service centre in Kolkata** for each of the specific equipment / Article / item quoted.
2. A certificate about satisfactory performance of the equipment duly authenticated by other existing users of the equipment has to be supplied.

3. A declaration that the after sales service facilities as well as spare parts shall be made available at least for five years for each of the specific equipment / Article quoted.
4. A declaration indicating willingness to provide AMC services at least for five years after the expiry of the warranty for each of the specific equipment quoted. Accordingly, the tenderer must quote prices for AMC, separately, for each year, for 5 years. **The quotation for the cost of such AMC are to be furnished along with cost of the equipment in the Price Bid. No such rate shall be mentioned in Technical Bid.**
5. A declaration that the specific equipment/article with the given specifications has not been sold / supplied to any other organisation at a lesser price than the price quoted here for each of the specific equipment quoted here.

#### **E. SAMPLES / DEMONSTRATION**

The firms should be prepared to demonstrate their item(s) / arrange for demonstration of items within 3 (Three) weeks from the date of opening of tender for verification / inspection, etc., or at a later date as decided by the competent authority. The firm shall have to comply with such conditions failing which the tenderer shall be liable for rejection and forfeiture of the Earnest Money. The tenderer / firm / company shall arrange for demonstration of equipment / Item / article at his own cost and risk. Tenderer who fails to demonstrate the equipments/ instruments quoted will not be considered for selection.

#### **F. DETAILS OF ITEMS QUOTED:**

It is mandatory to indicate the full name, make / brand, model number, and details specification of the equipments quoted by them, (in addition, a brochure of product information may be attached along with). Tenderers also have to indicate clearly the Name, Address and all Contact numbers of the MANUFACTURING FIRM and the firm responsible for providing AFTER SALES SERVICES, of the equipment quoted by them.

**The payment will be made in shape of ECS/RTGS directly into the Bank Account of the Tenderer . Hence the Tenderer is requested to submit the mandate form duly filled in and submit along with the bills.**

**MEDICAL SUPERINTENDENT**

**TENDER APPLICATION/DECLARATION FORM**

1	Name of the firm:-	
2	a Full Postal Address:-	
	b Cell Phone No.	
	c Telephone No:-	
	d Fax No.	
	e E-mail address:	
3	Date of Establishment of Firm:-	
4	If your Firm Registered under:-	
	a The Indian Factories Act:-	
	b Any other Act, if not, who are the owners (Please give full address):-	
5	Name and Address of your Bankers stating the name in which the Account stands:-	
6	Whether insured against fire, theft, burglary etc. If so, please state the amount and name of company with policy no:-	
7	Total number of Employees:-	
8	Are you in the list of approved contractors of any other organisations / institutions, if any give details (Append extra page if necessary):-	
9	Give details of any Government contracts executed during the last twelve months (Append extra page if necessary):-	
10	Any other information which you consider necessary to furnish:	

**UNDERTAKING:**

- a. I, the undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with them.
- b. The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted are the lowest quoted for any other institution/ hospital in India.
- c. The earnest money of Rs. \_\_\_\_\_ to be deposited by me has been enclosed herewith vide Demand Draft no. \_\_\_\_\_, Dt. \_\_\_\_\_, drawn on bank \_\_\_\_\_, Branch \_\_\_\_\_.
- d. I hereby undertake to supply the items as per directions given in the tender document / supply order within stipulated period.
- e. I/We give the rights to Medical superintendent to forfeit the earnest money deposited by me/us if any delay occur on my/agent's part or failed to supply the article within the appointed time or the items of desired quality.
- f. There is no vigilance/CBI case or court case pending against the firm.

Date:-

Signature of the tenderer:-

Place:-

Full Name:-

Designation:-

(Office seal of the tenderer)



**PLEASE QUOTE YOUR RATE AS PER THE GIVEN SPECIFICATIONS.**

The amount of Earnest Money / Bid Security to be deposited for each of the item quoted is mentioned against each serialised item below. The total amount of Earnest Money for all the quoted items may be drawn in a single demand draft. However, in such case, the detail break up of earnest money submitted for each item is to be furnished in a plain paper along with the bank draft.

**ANNEXURE – V**

**DEPARTMENT OF SURGERY**

**Specification:**

**1. Hand instruments of Laparoscope:** 4<sup>th</sup> generation modular instruments. Can be disassembled into separate components. Finger operated jaws and locking mechanism. Compatible with H.F. Cable.

- Set of following instruments:

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
Trocar pyramidal tip and cannula with insufflations stop cock, multifunctional valve, 11mm diameter length 10.5cm - 2.Nos.	TWO	2000.00
Trocar pyramidal tip and cannula with insufflations stop cock, multifunctional valve, 5.5/6mm diameter length 10.5cm - 2.Nos.	TWO	
Reducer 11/5 mm – Flap on reducer – 01, Tube reducer – 01.	ONE ONE	
Veress pneumoperitonium needle with spring loaded blunt stylet, length 13cm – 1No.	ONE	
Veress pneumoperitonium needle with spring loaded blunt stylet, length 10cm – 1 No.	ONE	
Hassan’s cannula 11 mm dia, flap valve – 1 No.	ONE	
Dissecting and grasping forceps, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm approx double action jaws. - 2Nos. (Handle & Insert).	TWO	
Grasping forceps, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm 2x4 with double action jaws. – 3 Nos. (Handle & Insert).	THREE	
Dissecting and grasping forceps, rotating with connector pin for bipolar coagulation, size 5mm, length 36cm approx. double action jaws. - 1Nos. (Handle & Insert).	ONE	
Dissecting and grasping forceps, curved size 5mm, insulated rotatable, dismountable double action jaws with H.F. connection - 1Nos.	ONE	
Bowel grasper, fenestrated rotating, with connector pin for unipolar coagulation, size 5mm, length 36cm approx. double action jaws. - 1No. (Handle & Insert).	ONE	
Metzenbaun scissors, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm, blades curved double action jaws, Length of blades 12mm- 1No.		
Metzenbaum scissors insert – 1 no.		

Straight scissors rotating with connector pin for unipolar coagulation, size 5mm, length 36cm single action jaws. - 1No.	ONE	
Straight scissors insert.- 1 no.	ONE	
Suction and irrigation cannula, trumpet valve / with two way stop cock anti-reflux surface, for single head control. – 1No.	ONE	
Coagulation and dissecting electrode, L shaped ultra connector pin for unipolar coagulation, size 5mm, and length 36 cm. - 1No.	ONE	
Gall bladder extractor, size 10 mm, length 36 cm – 1 No (Handle & Insert).	ONE	
Stone holding forceps, size 10 mm, length 36 cm – 1 No. (Handle & Insert).	ONE	
Coagulation and dissecting electrode, spatula shaped, blunt ultra connector pin for unipolar coagulation, size 5mm, length 36cm. - 1No.	ONE	
High frequency cord with 4mm plug for H.F. unit. -2 Nos.	TWO	
Dismantling fan retractor, dismantable, size 5mm, length 36cm. – 1No.	ONE	
Knottier for extracorporeal knotting. – 1No.	ONE	
Babcock grasping forceps, rotating with connector pin for unipolar coagulation, size 5mm, length 36cm approx. double action jaws - 1No. (Handle & Insert).	ONE	
Needle holder size: 5mm length 36cm – 1No.	ONE	
Aspiration needle 3 4 mm diameter 15 cm length – 1 no.	ONE	
Dismantling rotating clip applicator compatible with both L.T 300 and LT 400 clips. – 1 (One) No.	ONE	
Atraumatic grasping forceps. – 1No.	ONE	
Bipolar scissors. - 1No.	ONE	
Cidex tray. - 2Nos.	TWO	
Cleaning brush. – 2Nos.	TWO	
2KvA CVT – 1 No.	ONE	
Trolley on wheel (Mobile Video cart) – 1No.	ONE	
Insufflator	ONE	



**DEPARTMENT OF DENTAL**

**Specifications of dental Equipments /Instruments of newly Developed upcoming Dental Surgery**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
1. <b><u>Chair Unit</u></b> : Electrically operated programmable chair, both hand and foot control operation, over hanging delivery unit, spittoon with auto flush, High and low intensity operating light, motorized suction (with auto drain) X-ray viewer, three way syringe, zero backache doctor’s stool.  2. <b><u>Ultrasonic Scalar</u></b> : with four tips  3. <b><u>Light cure unit</u></b> : Light emitting diode (LED)  4. <b><u>Air rotar with Controlled box</u></b> : along with (i) <b><u>Air compressor</u></b> : Minimum 1.5 HP, Oil free (ii) <b><u>Air rotor Hand piece</u></b> : 2 to 3 Lakhs RPM (5) <b><u>Electric High Speed Micro motor</u></b> of about 35000 RPM with reverse forward switch, foot control, with Both straight and contra angle Hand Piece. (6) <b><u>Dental Autoclave</u></b> : Minimum 16 lit with Dry cycle mode, Front loading. (7) <b><u>Ultra Sonic Cleaner</u></b> –Minimum 03 lit.	01 each	9000.00

**DEPARTMENT OF EYE**

**1. TECHNICAL SPECIFICATION FOR VISUAL FIELD RECORDING INSTRUMENT  
(PERIMETER SYSTEM)**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
<b>Specification:</b>  Stimulus intensity      0.03 -10,000 Asb Stimulus Duration        0.1 – 9.98 secs Stimulus Wavelength    Broadband visible light Maximum Bowl illumination      31.5 ASB GPA Software  <b>Testing features:</b> <b>Threshold Testing Library</b> <b>Central Field Testing Patterns:</b> 30-2, 24-2, 10-2 Macula <b>Peripheral Field Test Patterns:</b> 60-4, Nasal Step <b>Screening Test Library</b> <b>Central Field Patterns:</b>	01 pc	25000.00



C-40, C-64, C-76, C-80, C-Armaly

**Peripheral Field Test Patterns:**

P-60, DD-81, FF-120, FF-135, FF-246, FF-Armaly, Nasal Step

**Specialty Test Library**

Esterman monocular

Esterman binocular

Superior 36

Superior 64

**Stimulous / background color**

White on white

User defined test storage

**User features:**

**Fixation Monitoring**

Heiji Krakau blind spot monitor

Video eye monitor

Trial lens Holder

Remote video eye monitoring capability

**Operator interface**

Help Menu

Touch screen on CRT

Motorized chin rest

**Printer**

Printex Thermal printer, table mounted

**Patient data input**

Name, Birth Date, ID, Trial Lens, VA, Pupil size

IOP, C/D ratio, Diagnosis Code, Procedure Code, Comments

Internal Hard disk drive

**Glaucoma Progression Analysis ( Test Parameters)**

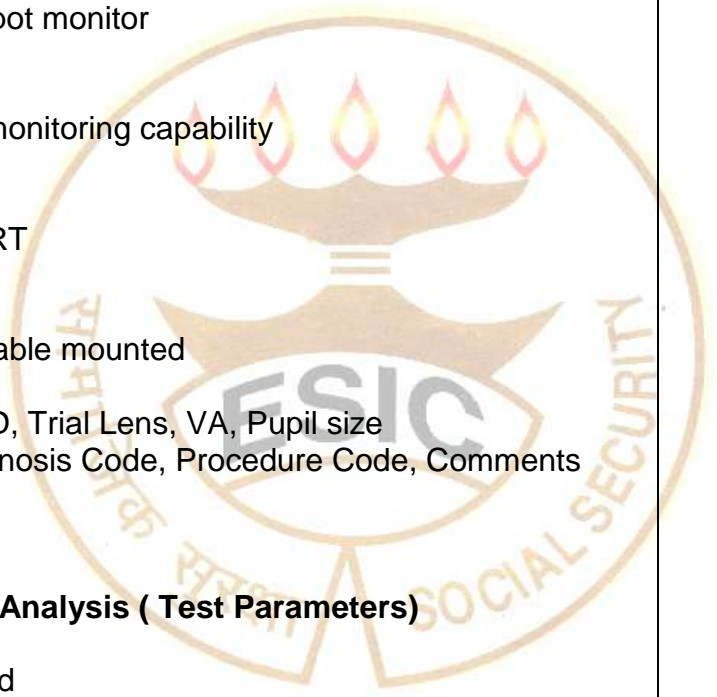
**Type of Test** – Threshold

**Test Strategy follow up**

**Stimulus color** - White

**Stimulus size** - III

**Foveal threshold** - On or off





## 2. Specifications For YAG LASER

NAME OF THE ITEM	QTY	EMD
1. Laser type: Q-switched: Nd-YAG 2. Laser wavelength: 1064nm 3. Optical Breakdown: 2.5 to 2.7mJ(in air)/ 1mJ(in water) 4. Pulse duration: $\leq 4\text{ns}$ 5. Maximum Laser energy: 30 to 45 mJ in triple pulse mode 6. Energy level adjustment: continuously variable/ step 7. Pulse repetition frequency: $\geq 2\text{ Hz}$ 8. Burst mode: 1/2/3 pulses per burst 9. Focus shift variable: $\pm 150\mu\text{m}$ 10. Spot size: 8-10 $\mu\text{m}$ 11. Cone angle: $16^\circ$ 12. Aiming beam: Laser diode 630-680nm 13. Magnification: 3-5 step changer	01 pc	25000.00

## 3. Specifications For DFA machine

NAME OF THE ITEM	QTY	EMD
1. Capture mode: Color/ Red-free/ FA 2. Angle of coverage: $20^\circ$ to $50^\circ$ 3. Photographic magnification: with 35mm camera at zero diopter, 1.84x at $20^\circ$ , 2.45x at $35^\circ$ , 4.28x at $50^\circ$ 4. Working distance: 35-40mm 5. Optical head tilt: Minimum $10^\circ$ (up and down) 6. Light source: for photography, maximum 20 to 300WS Xenon	01 pc	30000.00



**4. SPECIFICATION FOR ARGON LASER PHOTOCOAGULATOR  
(RETINAL)**

NAME OF THE ITEM	QTY	EMD
<ul style="list-style-type: none"><li>• Frequency Doubled Solid State, diode-pumped with diode on demand Technology, Continuous Wave</li><li>• Wave length 532 nm, Max. Power 1.5 W at cornea or More</li><li>• Aiming beam 635 nm laser diode, Max. Power 1mW</li><li>• Auto pulse adjustable from 100-6000ms pulse interval</li><li>• Pulse duration 10-2,500ms, (CW)</li><li>• Electrical connection: 115-230 V, 50/60 Hz, max. 400 Watt</li><li>• Thermoelectric cooling</li><li>• Laser should be with integrated with Original Zeiss /Hagg streit Slit Lamp for Laser delivery, which should be via slit illumination.</li><li>• Laser spot diameter 50-1,000 um, Parfocal, continuously adjustable</li><li>• Slit Lamp should have 5-Step Magnification Changer and should give 5/8/12/20/32 X magnification</li><li>• Slit Height 1/3/5/9/14 mm, Slit Width 0-14 mm continuous</li><li>• <b>Servoelectric micromanipulator,</b></li><li>• <b>Suitable laser contact lenses (i.e. Goldman 3 mirrors, Minster PRP 125 deg.)</b></li><li>• Facility for Endo photoprobe attachment with dynamic microscope filter and Laser Indirect Ophthalmoscope laser delivery systems.</li><li>• Asymmetrical motorized table for height adjustment.</li></ul>	01 pc	30000.00



## 5. Specifications For Flash Autoclave

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
<ol style="list-style-type: none"><li>1. Size: Minimum 20 Litre</li><li>2. Reservoir: 3 to 5 Litre</li><li>3. Tray: Minimum 3 in number</li><li>4. Air removal: vacuum pump</li><li>5. Total sterilization with vacuum dry: shouldn't take more than 30 min.</li><li>6. Exposure temperature: 121<sup>0</sup> C/ 134<sup>0</sup> C</li><li>7. Fully automatic, microprocessor controlled</li><li>8. Attached printer</li><li>9. European 'B' class certified</li></ol>	01 pc	10000.00

## 6. Specifications for Operating Microscope

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
<ol style="list-style-type: none"><li>1. Magnification: 5 step magnification changer/ zoom</li><li>2. Motorized focusing</li><li>3. Objective lens: f=175-200mm</li><li>4. Inclined binocular tube</li><li>5. Fiber-optic cold light illumination, halogen reflector bulbs</li><li>6. Eye-piece: 10x wide field adjustable</li><li>7. Filters: Daylight(UV) protection eye protection filters</li><li>8. Compact foot switch</li><li>9. XY coupling: motorized, adjustable range 40mm x 40mm</li><li>10. Floor Stand: movable with wheels</li><li>11. Beam Splitter: 50:50</li><li>12. TV attachment with CCD camera</li></ol>	01 pc	20000.00



## 7. SPECIFICATION OF PHACOEMULSIFIER

NAME OF THE ITEM	QTY	EMD
Based on peristaltic pump technology. <ul style="list-style-type: none"> <li>○ Crystal phaco hand piece.</li> <li>○ Multimode phaco (Continuous / pulse / burst).</li> <li>○ Occlusion mode phaco.</li> <li>○ Cool microincision phaco.</li> <li>○ In phaco mode.               <ul style="list-style-type: none"> <li>● Vaccum level 0-500 mm Hg</li> <li>● Pump flow rate 0-50cc</li> </ul> </li> <li>○ Continuous irrigation facility.</li> <li>○ Bipolar diathermy with selectable power.</li> <li>○ High speed anterior segment vitrectomy preferably with electric cutter.</li> <li>○ Foot switch control for irrigation, I/A, phaco.</li> </ul>	01 pc	10000.00

## 8. SPECIFICATION OF SLIT LAMP WITH MOTORISED STAND

NAME OF THE ITEM	QTY	EMD
<ul style="list-style-type: none"> <li>○ Binocular Microscope</li> <li>○ Eye piece 10x, 16x</li> <li>○ Two step magnification.</li> <li>○ + 8D compensation of ametropia</li> <li>○ Interpupillary adjustment 50-80 mm</li> <li>○ Slit width - 0-14 mm continuously adjustable</li> <li>○ Slit length - continuous from 14 mm to 1 mm</li> <li>○ Slit ngle - 0<sup>0</sup> - 180<sup>0</sup> continuous.</li> <li>○ Slit Inclination - 5<sup>0</sup> , 10<sup>0</sup> , 15<sup>0</sup> ,20<sup>0</sup></li> <li>○ Filters - Blue, Red free, frgrey &amp; heat absobing</li> <li>○ Bulb- Halogen bulb</li> <li>○ Chin rest adjustment 70 -80 mm or more, vertical</li> <li>○ Base movement           <ul style="list-style-type: none"> <li>▪ Vertical --30mm.</li> <li>▪ X-axis --- 100 mm</li> <li>▪ Y-axis -- 90 mm</li> </ul> </li> </ul>	01 pc	10000.00



**9. TECHNICAL SPECIFICATIONS OF OCT MACHINE TOMOGRAPHIC IMAGING**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
Purpose Cross Sectional imaging of Retina Signal type-Optical scattering from tissues Signal source-Super luminescent diode, 820-830 nm Optical power-< or equal to 750 microwatts at cornea. Longitudinal / Axial resolution -6-10 micron in tissue Transverse sample size -20 micron in tissue Longitudinal (depth) range 1 -2.3 mm in tissue	01 pc	50000.00
<b>FUNDUS IMAGING</b>		
Purpose –fundus alignment and documentation Field of view 26-29 degree Viewing method –Flat panel display Signal type: CCD Image External fixation: Slit lamp type adjustable LED. Internal fixation: LED Display User/computer controlled with variable pattern and Size.		

**DEPARTMENT OF PATHOLOGY**

**1. AUTOMATED HEMATOLOGY CELL ANALYZER FIVE-PART DIFFERENTIAL**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
<p><b><i>Nomenclature:</i> Automated Hematology Cell Analyzer microprocessor controlled with five part WBC differential Count.</b></p> <p><b><i>Principle:</i></b> Analysis of CBC with Five part differential leucocytes counting by flow cytometry with multi- angled Light scatter analysis with fluorescence or laser, absorbance cytochemistry versus volume; impedance counting &amp; volume analysis, hydrodynamic focusing of cell stream, pulse editing and spectrophotometry. Preferably cyanide free hemoglobinometry, resistant RBC mode for lyse resistant red blood cells and fragile WBC mode for confirmation of leucocyte count.</p> <p><b><i>Parameters:</i></b> Minimum range of parameters to be available are WBC total and differential in absolute and per cent fraction of Neutrophils , Lymphocytes Monocytes , Eosinophils, and Basophils; RBC Total , Hb, Hct , MCV, MCHC, MCH , RDW; Platelets, MPV, PDW , etc., additional parameters like Immature Granulocytes, precursor cells, Nucleated Red Blood Cells, Reticulocytes, Immature Reticulocyte Fraction, etc.</p> <p><b><i>Throughput:</i></b> 60 to 80 samples per hour (single runs or work order)</p> <p><b><i>Sample Aspiration:</i></b> Open and closed tube system; closed waste delivery line with conduit and preferably with level Sensor.</p> <p><b><i>Operating options:</i></b> 1. Rapid Single step start- up, operation and shut-down.</p>	01 pc	30000.00

2. Operation through interfaced key-board and mouse.
3. Operator selectable working mode, parameters, normal ranges, patient id, etc.
4. Real time random access multiple test mode analysis with selectable FBC/ FBC+ 5-Part WBC diff.
5. Sequential dilution system should be incorporated.
6. Free of daily maintenance.
7. Stat mode.

**Carry over :** Very low carryover of samples with international Q.C. acceptability.

**Display color graphic (on-screen & print):**

- a. Display of work-lists, patient-wise, sample-wise & test-wise.
- b. Display of patient results in data mode with/without color histogram / scattergram
- c. Display of result of real time.
- d. Display of operating instructions.
- e. Calibration curve graphical display and in data

**Flagging :** Highlighting of over/ under range results, flagging of immature/abnormal cells.

**Quality control :** Automatic and manual calibration by multi level controls and calibrator ; automated evaluation of quality control results through on board QC files precision and accuracy levels should meet defined acceptability ranges; shifting averages for differential count; Levey-Jennings diagram; Westgard rules.

**Data Management System:** Storage of patients results with data, histograms and scattergrams at least 10000 in hard copy and retrieval of the same in print and soft copy- either in built or in co- aligned PC with suitable software. Multiple programmable ranges with flagging and interpretive messages . Should be upgradable for customized reporting in conventional and international unit systems. Storage of QC database for at least one month with presentation of Mean , L-J curve. Transmission of data through serial port to the PC.

**Peripheral interfacing:** Parallel bi-directional USB and LAN ports for external printer, key- board, PC and network..

**Computer on-line:** Co-aligned PC with customizable Windows based operating software; inclusive of high-resolution 18.5 inches/ 20 inches color TFT/ backlit LCD monitor; CPU with Intel Core 2 Duo 2.93 GHz processor, original Intel graphics of appropriate configuration, 500 GB SATA HDD, 2 GB DDR3 RAM, CD/DVD writer; internet ready key-board; optical scroll mouse; LAN for LIS; and relevant software for data transfer, data recovery and data storage; preloaded original version anti-virus. Peripheral ports USB2.0 preferably four numbers, Ethernet and PS/2

**Key board:** Chemical and moisture prevented single touch alphanumeric key panel, *on-board* (if available) and external in parallel USB connection.



**Printer:** Parallel full page color printer preferably laser, Windows compatible, with formatting provisions for various print-out Options via USB port, there should be provision for reporting proforma (necessary software to be incorporated)..

**LAN interfacing:** System compatible/upgradable to on line data-transmission through LAN.

**Standards and Safety compliance:** Should be in compliance with Indian and International protocols of standardization like, ISI/ CE Mark/ TUV.

**ESSENTIAL ACCESSORIES MUST BE INCORPORATED WITH THE EQUIPMENT:**

1. Two sets of reagents as start-up kit with availability of long shelf-life.
2. One set of spare tubing as necessary.
3. Windows based operating software for operation of the equipment and QC management.
4. Software for transfer of data from equipment to PC and printer and customization of report format in printer.
5. U.P.S. of capacity 2.0 KVA.
6. Dust-cover for all supplied units and complete operating manual in original form.
7. Other standard accessories as per manufacturer's schedule.
8. Indian type power cord to work on standard power supply.

**2. BINOCULAR RESEARCH COMPOUND MICROSCOPE WITH TRINOCULAR HEAD AND FACILITY FOR PHOTOMICROGRAPHY, FLUORESCENCE, PHASE-CONTRAST WITH INFINITY CORRECTED OPTICAL SYSTEM & CAMERA**

NAME OF THE ITEM	QTY	EMD
<p><b>1. Nomenclature:</b> Compound Binocular Microscope with facility for photomicrography, fluorescence, phase-contrast with infinity corrected optical system &amp; digital camera, UPS 0.5 KVA.</p> <p><b>2. Optical System:</b> Infinity Corrected Optical System.</p> <p><b>3. Illumination System:</b> Built in Koehler Illumination System 6v/30w Halogen Lamp.</p> <p><b>4. Objectives:</b> Plan achromat objectives fixed in a rotatable nose piece-per focal and per centric , Quadruple 4x, 10x, 40x, 100x.</p> <p><b>5. Eye piece:</b> Paired 10 x Eye Piece wide field.</p> <p><b>6. Mechanical Stage:</b> Rack less Mechanical Stage with right handed ergonomic stage- handle knobs, Preferably wire movement. Focus lock and auto-focusing facility.</p> <p><b>7. Condenser:</b> Abbe type sliding bright field condenser with low magnification adapter, provision of accurate centering.</p> <p><b>8. Filters:</b> Daylight filter, neutral density filter and green contrast interference filter</p> <p><b>9. Observation Tube:</b> Binocular Dual Viewing Sidentoff Tilting Inclination rotatable, interpupillary distance adjustment.</p> <p><b>10. Phase contrast Attachment:</b> Phase contrast and dark-field condenser</p>	01 pc	6000.00

with necessary accessories.



**11. Fluorescence Attachment:** Reflected light fluorescence illumination module with high throughput high contrast, suitable to use with standard objectives; variable intensity control; 50 w mercury burner with lamp housing and power supply for Hg lamp. Blue excitation filter and Green excitation filter

**12. Image retrieval system:** Trinocular tube with provision for attachment of digital Camera. Digital SLR menu-driven color CCD camera of 4 to 8 megapixel resolution, excellent color reproduction, progressive scan, Joint Photographic Expert Group (JPEG) image and Moving Photographic Expert Group (MPEG) modes of different selectable shooting modes. Image transfer to co-aligned external computer.

**13. Co-aligned Computer:** PC with Microsoft Windows XP Professional, 3 GHz CPU, 1 GB RAM, 64 MB Graphics; DVD writer; Flat screen 18 to 20 inches TFT Monitor/LCD Monitor; Multimedia key-board; Optical Mouse; High-resolution multicolor laser printer to print on photographic and non-photographic papers.

**14. Image Viewing Software:** Suitable software for visual retrieval of captured image, both live (with auto focusing and exposure control) and snapped; programmable resolution with cropping; measurement capabilities; capable of viewing fluorescence images with reduction of auto-fluorescence; storage of captured images.

**15. Special provision :** 1. Anti-fungus treatment of the lenses of Observation Tube, Eye-pieces and Objectives.  
2. LED Pointer.

**16. Essential Accessories must be supplied with the main consignment**

1. Paired eye piece 10x (Compatible Branded or of a reputed make)
2. Oil immersion objective 100 x – 01(One) No.
3. Blue / Green Filter -04 (four) numbers.
4. Indian Type Power Cord
5. UPS 0.5 KVA
6. Dust Cover.

### 3. SPECIFICATION OF VOLUME DISPENSER

NAME OF THE ITEM	QTY	EMD
<p><b>Nomenclature:</b> Volume Dispenser Automatic.  <b>Type :</b> Inert amber colored glass bottle reservoir with bottle top Ball-valve polymer pump graduated for variable volume adjustments, autoclavable, corrosion resistant .  <b>Capacity:</b> Reservoir capacity 1000 ml.</p> <p><b>Bottle top dispenser pump capacity 0 – 5.0 ml. with increments of 0.1 ml</b></p>	01 pc	3000.00



#### **4. SPECIFICATIONS FOR UV-VIS SPECTROPHOTOMETER**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
Wavelength 180-1100 nm Spectral Bandwidth 1- 2 nm Working mode T.A.C.E (Transmittance Absorbance Concentration East) Optical System Double Beam Scanning speed should be variable Photometric range 0.3-3.5A,0-25% T Photometric Accuracy 0.3% T,+0.002A Photometric Reproducibility <0.15% T Wavelength Accuracy +0.3 nm Wavelength Reproducibility <0.10 nm Stray light <0.1% T Baseline Flatness +0.002 A Stability +0.001 A (at 500 nm after warming) Noise +0.001A (at 500 nm after warming) Detector Dual silicon Photodiode  <u>Accessories</u>  Glass Cell Capacity of 3 & 1 ml Quartz Cell Fuse Software Instrument Cover PC with Printer	01 pc	4000.00



## 5. SPECIFICATION FOR ELECTROPHORESIS SYSTEM

NAME OF THE ITEM	QTY	EMD
<p><b><u>Nomenclature:</u> Automated Clinical Electrophoresis system complete with Densitometer &amp; UPS.</b></p> <p><b><u>Application:</u></b> Serum protein profile, Urine protein profile, CSF protein profile, Serum Lipoprotein profile and Hemoglobin profile.</p> <p><b><u>Description:</u></b></p> <ol style="list-style-type: none"><li>1. Automated complete system including integrated all working station, sample placing, reagent addition, result recovery without manual intervention .</li><li>2. Sequential sample application , reagent addition and reading in an integrated work station .</li><li>3. Horizontal electrophoresis system get unit and gel dryer.</li><li>4. Sample loading station consisting sample plate , application and strip Holder, multiple independent sample application probes , auto rinsing for zero carry over .</li><li>5. Migration support – cellulose acetate Strip / gel or any other comparable medium suitable for the system which is readily available in the market.</li><li>6. Multichannel solid state densitometer supporting fast analysis and display; automatic protein fraction identification; automatic zeroing; supported by a acceptable range of linearity and reproducibility..</li><li>7. Monoblock migration chamber with electrodes supporting fast migration.</li><li>8. Multi reagents tanks with independent loading and refill of reagents /acetate automatic staining and de-staining, incubation and drying of gel / strip of cellulose.</li><li>9. On-line monitoring of the entire process.</li><li>10. Versatile power supply unit with voltage adjustment.</li><li>11. Data management system with built –in display. Key board. Microcontroller software based.</li><li>12. System supporting auto interpretation of result, color print of chromatogram and gel.</li><li>13. Option for quality control , data storage, etc.</li><li>14. Capability of generating reports with graphic and</li></ol>	01 pc	20000.00

<p>photographic presentation of electrophoretic bands , electro chromatograph analytic values.</p> <p>15. Analytical capability for serum protein profile , urine protein profile , CSF protein profile , hemoglobin, profile, lipoprotein and isoenzyme. .</p> <p>16. Availability of reagents in the local market / by the supplier.</p> <p>17. Option for data transfer to PC through a compatible port ; data management software; data storage facility.</p> <p>18. Reporting prints incorporating result data numerical, electrophoretic bands and Densitometric peaks in external printer either supplied as a part of manufacturer's Consignment, otherwise to be supplied along with the system of suitable Specification.</p> <p>19. Online UPS capacity 2.0 KVA.</p> <p>20. Standard accessories as specified by the manufacturer along with the consignment.</p> <p>21. Dust cover for all components of the system.</p> <p>22. Chemicals, medium, buffers, eluting reagents and staining solution, etc. as start-up kit.</p>		
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**6. AUTOMATED GLYCATED HEMOGLOBIN ANALYZER**

NAME OF THE ITEM	QTY	EMD
<p><b>Nomenclature:</b> Automated Glycated Hemoglobin Analyzer microprocessor controlled.</p> <p><b>Principle:</b> Analysis of Glycated Hemoglobin (Hb A<sub>1c</sub>) with test cartridges.</p> <p><b>Throughput:</b> At least 5 samples per hour.</p> <p><b>Sample Loading:</b> Single Test Cartridge loading with maximum 10µl whole blood.</p> <p><b>Operating options:</b></p> <ol style="list-style-type: none"> <li>1. Rapid start- up, operation and shut-down.</li> <li>2. Input of patient data through keypad.</li> <li>3. Real time display of results and analysis values.</li> <li>4. Free of daily maintenance.</li> </ol> <p><b>Display (on-screen &amp; print):</b></p> <ol style="list-style-type: none"> <li>1. Display of result of real time.</li> <li>2. Display of operating instructions.</li> <li>3. Calibration result display and in data</li> </ol> <p><b>Flagging :</b> Highlighting of over/ under range results is preferable.</p> <p><b>Quality control :</b> Automatic and manual calibration by multi level controls and calibrator ; automated evaluation of quality control results through on board QC files; precision and accuracy levels should meet defined acceptability ranges shifting averages for differential count; Levey-Jennings diagram; Westgard rules.</p> <p><b>Data Management System :</b> Storage of patients results with data, at least</p>	01 pc	2000.00

<p>200 on-board and retrieval of the same in print and soft copy. Storage of QC database through appropriate software installation. Transmission of data through serial port to the PC. Upgradable software via USB.</p> <p><b>Peripheral interfacing:</b> Parallel bi-directional USB and LAN ports for external printer, key-board, PC and network..</p> <p><b>Printer:</b> Parallel printer, Parallel printing option through Windows compatible system via USB port, customized reporting proforma (necessary software to be incorporated)..</p> <p><b>LAN interfacing:</b> System compatible/upgradable to on line data-transmission through LAN.</p> <p><b>Standards and Safety compliance:</b> Should be in compliance with Indian and International protocols of standardization.</p> <p><b>ESSENTIAL ACCESSORIES MUST BE INCORPORATED WITH THE EQUIPMENT:</b></p> <ol style="list-style-type: none"> <li>1. Two sets of cartridges as start-up kit with availability of long shelf-life.</li> <li>2. One set of spare tubing as necessary.</li> <li>3. Windows compatible software for operation of the equipment and QC management.</li> <li>4. Software for transfer of data from equipment to PC and printer and customization of report format in printer.</li> <li>5. U.P.S. of capacity 1.5 KVA, preferably to be serviced under capacity of consignor.</li> <li>6. Dust-cover for supplied units and complete operating manual in original form.</li> <li>7. Other standard accessories as per manufacturer's schedule.</li> <li>8. Indian type power cord to work on standard power supply</li> </ol>		
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## 7. SPECIFICATION OF MICROPIPETTE ASSORTED

NAME OF THE ITEM	QTY	EMD
<p><b>Nomenclature: Automatic micropipette variable volume single channel capacity 100 – 1000 µl</b></p> <p><b>Description:</b> Variable volume single channel micropipette with non-slip ergonomic design, fully Autoclavable and without post-autoclaving recalibration, single tip-ejector, two step plunger operation: designed to access into narrow necked glassware: tip cone with excellent chemical resistance, low activation force for blow-out and tip ejection: easy calibration, cleaning and maintenance: to be supplied with full documentation of precision &amp; accuracy certificate through ISO certified QC assurance for gravimetry</p> <p><b>Essential Accessories must be supplied with the main consignment</b></p> <ol style="list-style-type: none"> <li>1. One pipette stand for 5 pipettes</li> <li>2. Standard tools and lubricants.</li> <li>3. Pack of sterile microtip for 100 -1000 µl pipette 1000 microtips</li> </ol>	01 pc	3000.00



## 8. SPECIFICATION FOR SEMI AUTOMATED BIOCHEMISTRY ANALYZER

NAME OF THE ITEM	QTY	EMD
<p><b>I. Item :</b> Semi Automated Biochemistry Analyzer with UPS 0.5 KVA.</p> <p><b>II. Analysis Option:</b></p> <p>a. Absorbance</p> <p>b. 1 point end linear &amp; non linear.</p> <p>c. 2 point end linear &amp; non linear.</p> <p>d. Rate linear &amp; non linear.</p> <p><b>e. Immunospectrophotometry.</b></p>	01 pc	6000.00
<b>OPTICAL SYSTEM</b>		
<p><b>III. Light Sources:</b> Pre aligned Quartz halogen lamp.</p> <p><b>IV. Wave Length:</b> Automatically Selectable narrow band interference quartz filter within wavelength of 340 - 700 nm -- fixed seven or eight filters and two optional filters as per users choice.</p> <p><b>V. Measurement Time :</b> Selectable.</p>		
<b>CUVETTE SYSTEM</b>		
<p><b>Cuvette :</b></p> <p>a. Flow cell Cuvette.</p> <p>b. External rectangular Cuvette.</p> <p><b>VII. Cuvette Temperature:</b> Peltier control &amp; programmable at 25°C, 30°C and 37°C.</p> <p><b>VIII. Aspiration System:</b> Motor driven pump.</p> <p><b>IX. Aspiration Volume:</b> Programmable.</p> <p><b>X. Cuvette Blanking:</b> Automatic.</p>		
<b>FUNCTIONS</b>		
<p><b>XIII. Programmable Parameter:</b> About 100 user defined test programs including routine biochemical parameters, enzymes, immunological markers, truly open system, selection through keyboard.</p> <p><b>XIV. Calibration:</b> Automatic against standard / calibration.</p> <p><b>XV. Quality control:</b></p> <p>a. 2 levels of control (at least)</p> <p>b. Levey - Jennings diagram.</p> <p>c. Manual entry of QC result.</p>		



**XVI. Memory Storage:**

- a. Minimum 200 patients result.
- b. Calibration result.
- c. Quality control result for

01 month.

**OPERATOR**

**XVII. Display:**

absorbance, temperature.

- a. Graphic LCD.
- b. Display of reaction curve,
- c. Display of result of real time.
- d. Graphical display of reaction
- e. Calibration curve graphical

time.

display.

**XVIII. Key board:**

prevented single touch alphanumeric

- a. Chemical and moisture membrane key panel.

**XIX. Printer:**

full graphic facility.

- a. Built in thermal printer with
- b. Parallel full page ink printer

with formatting options.

**SOFTWARE**

**XX. Reporting format:**

unit(Optional/Interconvertible).

- a. Conventional
- b.SI

**XXI. Recalculation :**

following modification of calibration,

Recalculation of result measurement timings and

wavelength.

**XXII. Automatic Flagging:**

check.

- a. Absorbance and linearity
- b. Reagent stability.
- c. Substrate depletion.

**XXIII. Peripheral interfacing:**

parallel ports , key- board and PC. Software PC

Compatible.

**ADDITIONAL**

**XXV. Power Cord :**

Indian Type 3-pin power cord locally available and replaceable .

**XXVI: Dust Cover :**

Washable dust-covers for main unit and key-board, etc.

**XXVII: Working Manual :**

Working Manual by manufacturer in original



## **DEPARTMENT OF CSSD**

### **1. SPECIFICATION OF BOWL STERILIZER**

<b>NAME OF THE ITEM</b>	<b>QTY</b>	<b>EMD</b>
1. Size: 24" X 28" X 21"	05 pc	2000.00
2. Made of Stainless Steel		



