



**ESI-PGIMSR, ESIC MEDICAL COLLEGE &  
EMPLOYEE'S STATE INSURANCE CORPORATION HOSPITAL & ODC (EZ)**  
(A Statutory Body Under Ministry of Labour, Govt. of India)  
DIAMOND HARBOUR ROAD, P.O.: JOKA, KOLKATA-700 104  
An ISO 9001:2008 Certified  
Fax: 033 2467 2795, Phone: 033 2467 2799 / 6280 / 1764, Email Id- [ms-odckolkata@esic.in](mailto:ms-odckolkata@esic.in)

**TENDER NO. 64 /2018**

**Tender No. 412.U/16/30/3/Proposal/10-11 (Medical College)/Vol VIII**  
**Dated: 12.02.2018.**

**Sub: Invitation of E-tender for procurement of Medical Equipments & Instruments (Two Bid)**

<b>Period for submission of e-Tender form</b>	<b>From 16.02.2018 to 09.03.2018 Upto 2 PM</b>
<b>Pre-Bid meeting</b>	<b>16.02.2018 &amp; 23.02.2018 at 2.30 PM</b>
<b>Last Date &amp; Time of submission of e-tender</b>	<b>09.03.2018 upto 2.00 PM</b>
<b>Date &amp; Time of Opening of e-Tender</b>	<b>09.03.2018 at 2.30 PM</b>
<b>Bid Security / Earnest Money to be sent through Post/Delivered in hand</b>	<b>As mentioned in Annexure V</b>
<b>Performance security / Security Deposit Money</b>	<b>A Sum equivalent to 10 % of the bid value</b>

**INSTRUCTIONS FOR E-TENDERING**

All bidders/contractors are required to procure Class-IIIB Digital Signature Certificate (DSC) with Both DSC Components i.e. Signing & Encryption to participate in the E- Tenders.

Bidders should get Registered at <https://esictenders.eproc.in>.

Bidders should add the below mentioned sites under Internet Explorer ☐ Tools ☐ Internet Options ☐ Security ☐ Trusted Sites ☐ Sites of Internet Explorer :

<https://esictenders.eproc.in>  
<https://www.tpsl-india.in>  
<https://www4.ipg-online.com>

Also, Bidders need to select "Use TLS 1.1 and Use TLS 1.2" under Internet Explorer ☐ Tools ☐ Internet Options ☐ Advanced Tab ☐ Security.

Bidder needs to submit Bid Processing Fee charges of Rs. 2495/- (non-refundable) in favour of M/s. C1 India Pvt. Ltd., payable at New Delhi via Online Payment Modes such as Debit Card, Credit Card or Net Banking for participating in the Tender.

Bidders can contact our Helpdesk at <https://esictenders.eproc.in/html/Support.asp>



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**TENDER NO. 64/2018**

**Tender No. 412.U/16/30/3/Proposal/10-11 (Medical College)/Vol V III**

**Dated: 12.02.2018.**

**Sub: Invitation of E-tender for procurement of Medical Equipments & Instruments  
(Two Bid)**

From: **The Dean,  
ESIC Hospital & O.D.C. (E.Z),  
Diamond Harbour Road,  
P.O.: Joka, Kolkata: 700 104.**

To: \_\_\_\_\_  
\_\_\_\_\_

Sir(s),

The Dean invites open **e-tender for procurement of Medical Equipments & Instruments** at ESIC Hospital Joka" as per specifications and/or quantities detailed in the **Schedule** attached. The "**Tender Documents**" comprising the Eligibility criteria/Checklist (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), **specification of Medical Equipments & Instruments (Annexure V - Sheet I)** and the **Schedule of contract / specifications of items / proforma for quoting rates (Annexure V- Sheet II)** are enclosed herewith. If you are in a position to quote for the contract /supply in accordance with the requirements stated in the attached schedule, please submit your quotation to this office.

Tenderers are requested that, before quoting their rates or filing tender, the tender form may please be read out thoroughly (line by line), otherwise purchaser will not be held responsible for any error / oversight of his own.

**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 is/are not applicable in the instant case.**

All the payment shall be made by **Demand Draft drawn in favour of ESI Fund A/c No.1, payable at Kolkata. Cheques/cash will not be accepted.**

If any modification of the schedule is considered necessary, you should communicate the same by means of separate letter sent along with the Tender.

Dean, 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.

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.

Enclosures:

- Annexure – I (Eligibility criteria/Checklist)
- Annexure – II (General Tender Terms & Conditions)
- Annexure – III (Special terms & conditions )
- Annexure – IV (Tender Application Form)
- Annexure –V (Proforma for quoting rates)- – Sheet I & Sheet II
- Annexure –VI (undertaking )

- Annexure –VII (authorization letter )
- Annexure —VIII (Proforma for quoting rates for Accessories and Consumables)

**ELIGIBILITY CRITERIA/CHECK LIST**

❖ 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.

<b>CHECK LIST FOR COMPULSORY DOCUMENTS</b>		
1	<b>EARNEST MONEY DEPOSIT BY DEMAND DRAFT ONLY</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
2	<b>VALID CURRENT TRADE LICENCE CERTIFICATE OF THE BIDDER CLEARLY SHOWING NATURE OF TRADE</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
3	<b>COPY OF THE PAN CARD OF THE BIDDER</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
4	<b>TAN IF APPLICABLE</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
5	<b>G.S.T/OTHER PREVALENT TAX CERTIFICATE SHOWING CLASS OR CLASSES OF GOODS / SERVICE FOR WHICH G.S.T /OTHER PREVALENT TAX HAS BEEN OBTAINED.</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
6	<b>WARRANTY CERTIFICATE: AT LEAST FOR TWO YEARS</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
7	<b>A CERTIFICATE FOR MANDATORY CMC FOR FIVE YEARS AFTER COMPLETION OF WARRANTY PERIOD</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
8	<b>A CERTIFICATE FOR MANDATORY SPARE PARTS AVAILABILITY FOR FIVE YEARS AFTER COMPLETION OF WARRANTY PERIOD</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
9	<b>A CERTIFICATE FOR EXPECTED LIFE OF EQUIPMENTS QUOTED</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
10	<b>A CERTIFICATE REGARDING PROVISION OF FREE CALIBRATION CERTIFICATE FOR MEDICAL EQUIPMENTS FOR AT LEAST 07 YEARS - (please refer to para J Annexure III)</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
11	<b>A CERTIFICATE THAT THE QUOTED EQUIPMENT HAVE NOT BEEN AND ARE NOT BEING SUPPLIED TO ANY OTHER ORGANIZATION AT A RATE LOWER THAN BEING QUOTED HERE.</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
12	<b>A CERTIFICATE THAT THE SUPPLIER HAVE AUTHORISED DEALER / SERVICE CENTRE IN KOLKATA MUST BE SUBMITTED. THE NAME, ADDRESSES, PHONE NO, FAX NO, ETC, OF THE AUTHORISED DEALER / SERVICE CENTRE (AS THE CASE MAY BE) IN KOLKATA FOR EACH OF THE SPECIFIC MEDICAL EQUIPMENTS &amp; INSTRUMENTS QUOTED MUST BE PROVIDED.</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
13	<b>UNDERTAKING ON RS.100/- NON JUDICIAL STAMP PAPER) AS PER PROFORMA MENTIONED IN ANNEXURE VI</b>	Submitted/Uploaded (Duly attested), [ Yes /No]

		attested), [ Yes /No]
1 4	<b>UNDERTAKING ON RS.100/- NON JUDICIAL STAMP PAPER) FOR AUTHORIZATION BY MANUFACTURER AS PER PROFORMA MENTIONED IN ANNEXURE VII (IN CASE OF AUTHORIZED SUPPLIER/DEALER).</b>	Submitted/Uploaded (Duly attested), [ Yes /No]
1 5	<b>AN EXPERIENCE CERTIFICATE FROM REPUTED GOVT./PVT. HOSPITALS FOR SATISFACTORY SUPPLY &amp; UTILIZATION OF RELEVANT MEDICAL EQUIPMENTS &amp; INSTRUMENTS.</b>	Submitted/Uploaded (Duly attested), [ Yes /No]

**Notes:**

- If valid trade licence constitutes/consists of more than one certificate/page then all the pages are to be enclosed failing which tender is liable to be cancelled.
- Tenderers have to submit certified hard copies of all document/s uploaded by them. The soft copies of the documents uploaded by the by the tenderer must tally with the respective hard copies submitted by the tender. Normally, evaluation of tender will be done on basis of online uploaded documents only. However, in case of any technical difficulty in downloading of documents etc, the said hard copy will be taken into account. The decision of the Dean will be final and binding in this regard.
- All rates/cost /prices must be mentioned in online bid at specified area only (price bid and other mandatory excel sheets). No rates are to be mentioned in the hard copy.
- The successful bidder might be required to produce the original documents/certificates.
- Copy of all documents uploaded and DD of EMD should reach (either by Speed Post/by Hand) on or before the closing Date and Time, in a sealed envelope superscribed with “Invitation of E-tender for procurement of Rate Contract’ for supplying Medical Equipments & Instruments”, to the following address:

**Dean**  
**ESI-PGIMSR, ESIC Medical College**  
**ESIC Hospital & ODC (EZ)**  
**Diamond Harbour Road, P.O.: Joka**  
**Kolkata - 700104**  
**Ph no-033 24672799/6280/1764**

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**TENDER NO. 64/2018****Tender No. 412.U/16/30/3/Proposal/10-11 (Medical College)/Vol VIII****Dated: 12.02.2018.****GENERAL TERMS AND CONDITIONS**

<b>Period for submission of e-Tender form</b>	<b>From 16.02.2018 to 09.03.2018 Upto 2 PM</b>
<b>Pre-Bid meeting</b>	<b>16.02.2018 &amp; 23.02.2018 at 2.30 PM</b>
<b>Last Date &amp; Time of submission of e-tender</b>	<b>09.03.2018 upto 2.00 PM</b>
<b>Date &amp; Time of Opening of e-Tender</b>	<b>09.03.2018 at 2.30 PM</b>
<b>Bid Security / Earnest Money to be sent through Post/Delivered in hand</b>	<b>As mentioned in Annexure V</b>
<b>Performance security / Security Deposit Money</b>	<b>A Sum equivalent to 10 % of the bid value</b>

**1. PREPARATION OF TENDER:**

The Tenderer shall give full assistance and information as may be required in connection with the contract to the Dean or any other officer nominated by him to inspect the premises of the tenderer at all reasonable times.

**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 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.

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

E-Tender shall be submitted within the stipulated date and time. 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.

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

- i) All tenders should remain valid for acceptance for **a period of twelve months** from the date of opening of the tender or for such period as stated in Special Terms & Conditions.
- 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 subject to continuous satisfactory performance.
- 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 E- TENDER:**

The tender shall be opened on the date and time mentioned here in the document.

## **6. PRICES:**

Prices quoted must be meaningful and measurable in the context.

Price must be clearly shown in **figures and words in Indian Currency**.

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.

## **7. DELIVERY TERMS**

- a) The delivery of the stores / execution of work / providing the services etc. are required within a period as specified and as the place mentioned therein.
- 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 Dean, 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) Time for 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.
- d) The Dean may allow additional time under special circumstances such as strikes, lock-outs, fire accidents, riots etc.

## **8. INSPECTION OF STORES /WORK:**

Supplies shall be accepted/work shall be certified as completed subject to inspection by Dean, ESIC Hospital & ODC (EZ), Joka or his assigned representative. Any defect found in the materials / work done will render the supplies/work open to rejection and decision of the Dean, ESIC Hospital & ODC (EZ), Joka, shall be final and legally binding. The rejected store shall be returned to the suppliers/work may be executed through others, at the risks and costs of contractor.

## **9. OTHER TERMS**

- A. **Responsibility for executing Contract:** The Contractor/Supplier 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/Supplier shall not sublet transfer or assign the contract to any part thereof without the written permission of the Dean. In the event of the Contractor/Supplier contravening this condition, Dean be entitled to place the contract elsewhere on the Contractors/Suppliers account at his risk and the Contractor/Supplier shall be liable for any loss or damage, which the Dean, ESIC Hospital & ODC (EZ), Joka, may sustain in consequence or arising out of such replacing of the contract.
- C. **Earnest Money:** The tenderer shall have to deposit earnest money **as mentioned in Annexure V** with their tender, failing which the tender is liable to be rejected. 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 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 towards the amount of security required to be deposited by the contractor in terms of Clause mentioned below, the earnest money will however, be returned without interest to the tenderer whose tender is not accepted. **Earnest Money demand draft must be sent by Speed Post/delivered in hand so as to reach on and before the closing date and time of the tender to the following address to 'The Dean', ESIC Hospital & O.D.C. (E.Z), Diamond Harbour Road, P.O.: Joka, Kolkata, 700 104, West Bengal'.** At the top of the cover, the following words should be written in block letters "**procurement of Medical Equipments & Instruments**" along with "**Tender No.64/2018**", failing which the tender is liable to be rejected.

**d. Security Deposit:** On acceptance of the tender, within the period specified by the Dean, the contractor shall deposit as security deposit 10% of the tender amount. The hospital authority shall be entitled to forfeit the Security Deposit or any part thereof without prejudice to any other remedies provided in the contract or available under the law. The security shall be in the form of **Demand Drafts payable at Kolkata in favour of ESI Fund A/c. No. 1 or in the form of Bank Guarantee.**

- a) *If the contractor fails in fulfilling above-mentioned terms and conditions, such failure will constitute a breach of the contract and the Dean shall be entitled to make other arrangements at the risk and expense of the contractor.*
- b) *On due performance and completion of the contract in all respects, the Security Deposit will 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.*

**e. 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.

**f. Insolvency and breach of contract:** The Dean 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 an 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 assignment 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 or 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.*

**g. 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 Dean. The procedure of the Arbitration will be governed by the provisions Arbitration Act 1996.



- h. Document:** The tenderer should have a valid **Trade licence, VAT, PAN / TAN** and produce self copies of such certificates along with the tender papers, **failing which the tender is liable to be rejected.**
- i. Statutory requirements:** In case the agency appoints manpower / labour in excess of or equal to the number as specified by law, the agency should comply with all statutory enactments including Contract Labour Regulation and Abolition Act, 1970; Minimum Wages Act where applicable; Payment of wages Act, where applicable; ESI Act, 1948, where applicable; EPF Act, 1952, where applicable; etc. All existing statutory liabilities relating to engagement of personnel related to labour laws shall be sole responsibility of the agency. In that case the successful agency will have to obtain a licence from the licensing officer after collecting the requisite certificate in form V from the hospital authority. The successful agency will have to maintain various registers and records, display notices, abstracts of the rules, etc., and issue employment card to the engaged labours. The list of workers employed by the contractor shall be communicated to the authority from time to time.
- j.** The successful bidder/tenderer shall obtain a valid license under the Contract Labour (R & A) Act, 1970 & Rules framed there under and shall continue to hold it till completion of the contract wherever applicable,
- k. 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 tendered.
- l. 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.
- m.** The tenderer should have a place of business in and around Kolkata and the complete Postal Address, Telephone / Mobile / Fax / E-mail address, etc. should be provided, while submitting the completed tender form.
- n.** The list of personal deployed to be intimated to the authority from time to time. The personal employed by the tenderer should have proper uniform for identification. The persons so deployed shall not have any claim for permanent absorption in the hospital and such claim if raised shall be violation of the terms and conditions of the agreement of the hospital authority shall have the right to cancel the agreement to terminate such deployment termination.
- o.** The contractor will be responsible for such conduct of the persons engaged by him in the hospital, which will be conducive for maintaining as harmonious atmosphere as expected in the hospital and will be responsible for any act & omission of such persons.
- p.** In the event of any violation of laws, rules, statutory provisions by the contractor, this will amount to breach of contract and in such case, the hospital will have the right for terminating the contract, forthwith, without giving any notice or assigning any reason.
- q. Validity of Contract:** The contract, if awarded, shall be valid **initially for one year from the date of award** subject to continuous satisfactory performance. 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 subject to continuous satisfactory performance. However, on failure on this aspect by the contractor, the hospital will have the right to terminate the contract forthwith in addition to forfeiting the security amount deposited by the contractor and initiating administrative actions for black listing, etc. solely at the discretion of the hospital authority. This period of one year can further extended to a maximum of one year at the sole discretion of hospital authority without prejudice to any other right of the hospital authority.
- r.** The Tenderers will quote the rates in respect of jobs / services described above in various paras and shall fill **Annexure - V** appended herewith along with the Tender Application form.
- s.** The successful agency shall have to enter in to an agreement with the Hospital and the cost incurred in this connection, shall have borne by the contractor.

- t.** The rate once accepted by the hospital shall remain unaltered through the period of contract ,including any extended period
- u.** Dean, 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 the quantity offered and you shall supply the same /execute the work at the rate quoted by you. You are liberty to tender for the whole or any part.
- v.** Acceptance by the purchaser shall be communicated in due course. You are requested that the instruction contained in the said communication should be acted upon immediately/as asked for.
- w.** The hospital authority reserve the right to award any part or full contract to any successful agency (ies) at its discretion and this will be binding on the Tenderers.
- x. Failure and Termination:** If the contractor fails to deliver 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, Dean may without prejudice to his right to recover damages for breach of the contract, be entitled at his option.
- a. To recovery from the contractor as agreed liquidated damages, by way of penalty a sum equivalent to 2% of the price of any stores/services 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
  - b. To purchase elsewhere, without notice to the contractor, on his account and at the risk of the contractor, the stores/services not delivered or store/services of similar description (where stores/services exactly complying with the particulars are not in the opinion of the Dean, 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
  - c. To cancel the contract or a portion thereof, and if so decided to purchase or authorise to purchase of store/services not so delivered or other of a similar description (where store/services exactly complying with the particulars are not, in the opinion of the Dean readily procurable, such opinion being final) at the risk and cost of the contractor.

Dean  
ESI-PGIMSR & ESIC MEDICAL  
COLLEGE  
AND ESIC HOSPITAL & O.D.C. (E.Z.)  
Joka, Kolkata - 700104



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### **TENDER NO.64/2018**

**Tender No. 412.U/16/30/3/Proposal/10-11 (Medical College)/Vol VIII**

**Dated: 12.02.2018**

### **SPECIAL TERMS AND CONDITIONS**

**The following special terms and conditions shall apply for E-Tender for Procurement of Medical Equipments & Instruments (Two Bid).**

#### **A.**

1.0 The Competent Authority reserves the right to reject any or all tenders without assigning any reason whatsoever.

2.0. Any query of the bidders may be sought out in the schedule pre-bid meeting before submitting the tender.

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

It is mandatory to indicate the full name, make / brand, model number, and details specification of the articles quoted by them, (in addition, a brochure of product information may be attached/uploaded 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, in case of the equipments quoted by them.

#### **C.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 duly certified by the assigned officer, and subsequent inspection by Dean, 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 Dean, 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.

#### **D. WARRANTY / GUARANTEE:**

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

- (i) All the **equipments** shall be carrying **at least 2 (two) years** 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 **CMC** for the equipments quoted at least for a period of **five years beyond normal warranty period of 02 years** A declaration to such effect must be accompanied (submitted/uploaded) with the offer, in the technical bid.
- (iii) **Uptime guarantee:** During the warranty/guarantee / CMC 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. **Within the warranty period, substitute working equipment of same model and make must be temporarily provided by the supplier free of cost to cover for any downtime exceeding 48 hours and** the machines to be not being made functional within 15 days (Fifteen Days), **time to ensure smoth function or within the time period as approved by the competent authority.**

- (iv) **A certificate about satisfactory performance of the equipment duly authenticated by other existing users of the equipment has to be submitted /uploaded along with the tender.**

**E. SOFT WARE UPGRADATION:**

Free up-gradation of software (all update & upgrades) **at least for 7 years** is to be provided wherever applicable.

**F. 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.**

A declaration indicating willingness to provide **CMC services** at least for five years after the expiry of the warranty period **of 02 years** for each of the specific equipment quoted. Accordingly, the tenderer must quote prices for **CMC**, separately, for each year, for 5 years. **The quotation for the cost of such CMC are to be furnished along with cost of the equipment in the Price Bid. No such rate shall be mentioned in Technical Bid.**

**G. SAMPLES / DEMONSTRATION**

**The firms should be prepared to demonstrate their item(s) / arrange for demonstration of items** within the stipulated date as decided by the competent authority. After this date, no further communication maybe entertained in this regard by the competent authority at his discretion. 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.

Onsite (in the hospital premises) Physical demonstration of the quoted model is preferable. However in difficulties, demonstration is allowed only within the Kolkata city limit, subject to prior approval of the competent authority.

**H. 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 **CMC**, of the equipment quoted by them.

**I. Cost of all accessories & consumables, not covered under CMC shall (per unit) also be quoted separately in the separate sheet provided in online system or in price bid, as specified.**

**J. The bidder must provide free calibration along with valid calibration certificate with certificate chain from original equipment manufacturer or authorised quality mangament agency for the Medical Equipments for 07 years or for the certified life of the equipment whichever is later.**

**K. BUY BACK OFER {wherever specified in the Schedules / Specifications (Annexure -V)}:**

Preference will be given to the bidder who offers for buy back of the condemned equipments. The rate for buy back offer of the condemned equipments is to be mentioned in the **Price Bid**. No such rate shall be mentioned in technical bid. The equipments which are offered for buy back may be inspected by the tenderers on any working day from 11 AM to 3PM. during the period of submission of e-tender as mentioned in the tender notice.

**L. Evaluation Criteria:**

- (i) Only those bids who fulfil all the technical criteria (check list: Annexure – I) to the satisfaction of the competent authority will be considered for sample evaluation/demonstration. Final selection of tender will be made strictly on the basis of quality of the product and other technical parameters to be judged by the competent authority of hospital
- (ii) Price bid will be opened only for the eligible (shortlisted) tenderers, as per criteria mentioned in point no.(i) above, duly approved by competent authority.

**M. The payment to the contractor will be made mandatorily by electronic mode such as RTGS/NEFT etc. The contractor is instructed to supply the following information in a separate sheet along with the tender (submitted/uploaded).**

- (i) Name of the Bank
- (ii) Name of the branch
- (iii) Account Number
- (iv) IFSC Code
- (v) MICR Number

Dea  
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ESI-PGIMSR & ESIC MEDICAL  
COLLEGE  
AND ESIC HOSPITAL & O.D.C. (E.Z.)  
Joka, Kolkata - 700104

**TENDER APPLICATION FORM**

1	Name of the firm:-		
2	a	Full Postal Address:-	
	a	Cell Phone No.	
	b	Telephone No:-	
	c	Fax No.	
	E	Email Id:	
3	Name and Address of your Bankers stating the name in which the Account stands:-		Name of Bank
			Name of Branch
			A/c. No.
			IFSC Code
			MICR Number
4	Are you in the list of approved contractors of any other organisations / institutions, if any give details:-		
5	Give details of any Government contracts executed during the last twelve months:-		
6	Any other information which you consider necessary to furnish:		

**UNDERTAKING**

- a) I, the undersigned certify that I have gone through the terms and condition 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 and 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. \_\_\_\_\_ dated \_\_\_\_\_ drawn on bank \_\_\_\_\_ Branch \_\_\_\_\_.
- d) I/We give the rights to Dean to forfeit the Earnest Money/Security money deposit by me/us if any delay occur on my/agent's part or fail to supply the articles within the appointed firms of desired quality.
- e) There is no vigilance/CBI case or court case pending against the firm.
- f) I hereby undertake to supply the items as per directions given in the tender document/supply order within stipulated period.
- g) Whether signing as - (please point 02 of annexure -II)
- h) I, the undersigned certify that the information provided above are true to the best my knowledge and belief.

Date:-  
Tenderer:-  
Place:-

Signature of the  
Full Name:-

Designation:-  
(Office seal of the tenderer)

**(For Technical Bid Only)**

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  
Sheet -I**

<b>SL. NO.</b>	<b>NAME OF EQUIPMENT &amp; INSTRUMENT</b>	<b>SPECIFICATION</b>	<b>Make/Model No. (to be filled in by tenderers)</b>	<b>Company / Manufacturer (to be filled in by tenderers)</b>	<b>REQUIREMENTS / QTY(FOR ESI-PGIMSR, JOKA)</b>	<b>EMD VALUE</b>	<b>QUOTE D (YES/NO)</b>
<b>DEPARTMENT OF EMERGENCY LAB</b>							
<b>1</b>	<b>Fully Automated Clinical Chemistry Analyzer</b>	<b>Specification:-</b> <b>Throughput:</b> At least 200 test/hr without ISE with truly open reagent system. <b>Analysis method:</b> Absorbance photometry, End point, Fixed time (2 pt), Kinetic, Turbidimetry. <b>Filters:</b> Grating/Filter based with 340nm - 670nm. ie 340nm, 405nm, 505nm, 546nm, 570nm, 620nm, 670nm (minimal deviation allowed). <b>Reagent Position:</b> At least 30 reagent position with onboard refrigeration. <b>Reagent Volume:</b> R1- 180 - 450ul with 1ul increment, R2- 30 - 180ul with 1 ul increment. <b>Cuvette:</b> Permanent Glass/ Quartz cuvette with onboard laundry facility. <b>Light Source:</b> Halogen Lamp <b>Probe:</b> Probe for reagent and sample aspiration with auto cleaning facility with liquid level sensing facility. <b>Sample position:</b> At least 30 sample			<b>01 pc</b>	<b>36000</b>	

		<p>position with primary tube and sample cup.</p> <p><b>Onboard parameter:</b> At least 30 parameter.</p> <p><b>Absorbance range:</b> 0-3.0</p> <p><b>Temperature:-</b> 37 degree <math>\pm</math> 0.1</p> <p><b>Flagging:</b> Abnormal results, Low sample volume indication</p> <p><b>Calibration:</b> Linear/1 pt , 2 pt, multipoint</p> <p><b>Control:</b> 2 level control with facility of L-J plotting and West Gard multirule.</p> <p><b>Memory:</b> At least 50 thousand backup data of test, control and calibration.</p> <p><b>Monitor:</b> 14 inch LED colour monitor.</p> <p><b>Operating System:</b> Windows 2010 with 2gb RAM,500gb Hard disc.</p> <p><b>Printer:-</b> Printer with scanner and coping facility.</p> <p><b>Power System:-</b> AC 200-240 volts with Indian type plug point.</p> <p><b>UPS:</b> 2 KVA online UPS with 1 hr backup facility.</p> <p><b>Distillation Water Plant:</b> Company must supply distillation plant if water requirement is more than 10 lt /200 test.</p> <p><b>Installation:</b> At least 1 installation in Govt/Private sector in Kolkata. ISO certified.</p>					
<b>DEPARTMENT OF PHYSIOTHERAPY</b>							
2	<b>High power laser therapy Unit</b>	<p><b>High power laser therapy Unit Specifications:</b></p> <p>&gt;Should have wave length 980nm &amp; 810nm performing synchronized parallel emission for superficial &amp; deeper penetration</p> <p>&gt;Should have 4 to 7 watt or more continuous LASER power (class 4).</p> <p>&gt;Mounted with trolley with wheel for</p>			<b>01 pc (against condemnation of Laser Therapy unit BTL 5110)</b>	18000	



		<p>easy transfer.</p> <ul style="list-style-type: none"> <li>&gt;Large colour touch screen monior (8 inch to 10 inch preferable) for better control.</li> <li>&gt;Patient encyclopedia with anatomical view (normal, muscular, skeletal).</li> <li>&gt;On line help for various common disease.</li> <li>&gt;Should have preset thermal threshold test function</li> <li>&gt;Disease wise programmed &amp; manual programmed</li> <li>&gt;Should have continuous &amp; pulsed mode for patient treatment.</li> <li>&gt;Must have free memory to save patient data.</li> <li>&gt;Must have international standard with CE certified.</li> <li>&gt;Should have emergency switch for patient safety</li> <li>&gt;should have protective spectacles for patient &amp; therapist</li> <li>&gt;Should have foot switch operation for better control &amp; patient safety</li> </ul>					
3	<b>Combination therapy Unit</b>	<p><b>Specification</b></p> <ul style="list-style-type: none"> <li>&gt;Dual channel combi unit for electro and ultrasonic therapy unit.</li> <li>&gt;0.8/1 &amp; 2.4/3 MHz Multi frequency ultrasonic therapy from same head &amp; depth of penetration can be adjustable by mixing two frequency.</li> <li>&gt;Transducer should water resistant head with visual contact indicator &amp; 1 to 5 cm2 in diameter.</li> <li>&gt;Mounted with trolley with wheel for easy transfer.</li> <li>&gt;Large colour touch screen monitor(8 inch to 12 inch preferable) for better control.</li> </ul>			02 pcs ( <b>01 pc new demand &amp; 01 pc against condemnation of Ultrasound therapy unit- BTL 4815S</b> )	8000	

		<p>&gt;Patient encyclopedia with anatomical view(normal,muscular, skeletal).</p> <p>&gt; Must have I/T curve and S/D curve plotting facility on screen.</p> <p>&gt;On line help for various common disease.</p> <p>&gt;Disease wise programmed &amp; manual programmed (neuro-muscular diagnostic &amp; treatment for paralysis, lymph edema,analgesia,muscle rehabilitation).</p> <p>&gt;Current form - I.FT, Diadynamic , Russian, galvanic etc.</p> <p>&gt;Should have vacuum application continuous &amp; pulsed with adjustment of vacuum strength.</p> <p>&gt;Must have free memory to save patient data.</p> <p>&gt;Must have international standard with CE certified.</p>					
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**DEPARTMENT OF ICU**

<b>4</b>	<b>ICU Ventilator</b>	<p><b>Technical Specifications of ICU Ventilator</b></p> <ol style="list-style-type: none"> <li>1. Multimodal ICU ventilator with the following modes: Spontaneous-PS, AC-VCV, AC-PCV, SIMV-VCV, SIMV-PSV, Adaptive-BiPAP, PEEP, invasive and non-invasive ventilation modes for adult &amp; pediatric patients.</li> <li>2. There should be no need for external spirometry tubing or sensors on the patient breathing circuit for the ventilator to operate.</li> <li>3. Internal batter backup of at least 30 minutes.</li> <li>4. Equipment must be US FDA 510(k) certified or European CE Certified</li> </ol>			<b>03 pcs (against condemnation of ICU Ventilator Brand -MAQUET)</b>	<b>60000</b>	
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		with 4 digit code.					
5	<b>Ambulatory PCA Pump:</b>	<b>Technical Specifications of Ambulatory PCA Pump:</b> <ol style="list-style-type: none"> <li>1. Microprocessor controlled programmable ambulatory patient controlled analgesia (PCA) pump.</li> <li>2. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</li> </ol>			10 pcs	<b>55000</b>	
6	<b>OT Light</b>	<b>Technical Specifications of OT Light</b> <ol style="list-style-type: none"> <li>A. OT Ceiling Light with LED Lighting System, Dual Dome.</li> <li>B. The LED light must have at least 30,000 hours of guaranteed life.</li> <li>C. Auto focus camera in one Light Dome, with one Medical Grade LED Display and Recording Facility.</li> <li>D. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code..</li> </ol>			04 pcs (against condemnation of OT Light -02 pcs Make - Philips , 02 pcs Make - Hospitech, Model - Venus Duo)	<b>22000</b>	
7	<b>NIV Machine</b>	<b>Technical Specifications of NIV Machine:</b> <ol style="list-style-type: none"> <li>1. Non-invasive ventilation machine with internal battery backup.</li> <li>2. Controls: IPAP 4 - 30 cm H2O; EPAP 4 - 25 cm H2O, Maximum flow capability 160 L/min; Leak compensation upto 60 L/min; Rise time 1-6 (1 = 0.1 s and 6 = 0.6 s); Rate 1-30 BPM (accuracy: <math>\pm 1</math>BPM or <math>\pm 10\%</math> of setting)</li> <li>3. Patient Parameters display: Patient circuit pressure, Rate, Estimated tidal volume, Estimated MV, Patient leak.</li> <li>4. Alarms: High System Pressure, Low System Pressure, Apnea.</li> </ol>			1 pc (against condemnation of NIPPV Machine Make- Nidek Medical)	<b>5000</b>	

		<p>5. Two sets of full face mask, nasal mask and 2 m length tubing, and 1 box of reusable particulate filters, and 1 universal roll stand with mounting plate to be provided with the equipment.</p> <p>6. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</p>					
8	<b>ETO (Ethylene oxide) Sterilizer</b>	<p>Specifications:</p> <p><b>1. ETO (Ethelene oxide) Sterilizer with</b> inbuilt aerator, using ethylene oxide as a biocide to destroy bacteria, viruses, fungus and other unwanted organism.</p> <p><b>2. Chamber:</b> SS 316 for corrosion and gas resitant. The inner surface smoothly finished to minimize gas deposit. Size of chamber: 16" X 16"X 48"</p> <p><b>3. Mode of heating :</b> Chamber will be heated with strip air heater / hot water circulated through the coil of SS 304 around the chamber to maintain the chamber temperature at 40 - 75° c</p> <p><b>4. Insulation of shell:</b> 50 mm thick R.B. fibre glass covered with SS 304 outer cover.</p> <p>5. <b>Door:</b> Single, SS 316, hinge type with quick release locking arrangement with suitable safety interlocking so that the process cannot start unless the door is properly closed and cannot be opened during the process.</p> <p><b>6. Paneling :</b> SS 304, Box type design, MMI-PLC will be located within the panel.</p> <p><b>7. Vacuum Pump:</b> Diaphragm/Water ring type vacuum pump provided to achieve high level of air removal for high</p>			01 pc ( <b>against condemnation of High Pressure Sterilizer Make - Reico, Model - HR224</b> )	<b>28000</b>	

		<p>sterility and efficient residual gas removal during aeration process from the chamber and gas strap to separate and evacuate the gas. In- built Gas catalytic converter for the exhausted ETO gas.</p> <p><b>8. Gas Purging:</b> Provided with cartridge puncturing system as well as provision for EO+CO2 cylinder.</p> <p><b>9. Sterilization Process:</b> Fully automatic PLC/Touch Screen models. Two nos. sterilization cycles with inbuilt leak test and aeration will be provided, which will be completed automatically.</p> <p><b>10. Stand: SS 304</b></p> <p><b>11. Documentation:</b> Laser monochrome printer which will print date, batch/load number, program type selected and program parameters which includes one point temperature print out.</p> <p><b>12. Programs/cyles with fully automatic operation.</b></p> <p>a) Positive Pressure Cycle (with ETO (20%) + CO2 (80%) cylinder.</p> <p>b) Negative Pressure Cycle (100% ETO Cartridge)</p> <p>c) Vacuuming of chamber to set value.</p> <p>d) Leak hold period</p> <p>e) Cartridge puncturing/gas purging depending on the cycle selected.</p> <p>f) Sterilization hold period for set time.</p> <p>g) Exhaust and aeration for no.of aeration pulses set.</p> <p><b>13. Accessories:</b></p> <p>a) Room Air ETO Sensor/Monitor with Alarm system.</p> <p>b) Wire basket (1 nos) for chamber.</p> <p><b>14. The equipment must be European CE Certified with 4 digit</b></p>				
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		<b>CE mark.</b>					
<b>9</b>	<b>Fully Automatic surgical gauze folding and cutting machine</b>	<p>Specifications:</p> <ol style="list-style-type: none"> <li>1. Fully automatic surgical gauze folding and cutting machine.</li> <li>2. The machine must be compatible with all brands and varieties of surgical gauze rolls available in the Indian market.</li> <li>3. This machine must be suitable to fold and cut medical gauze sponge / gauze compress/gauze swab/ gauze pad with edges folded in (American folding type) automatically, one component for folding 5 cm X 5cm sized gauze, 8 ply .</li> <li>4. Output speed : Above 200 pcs /mint.</li> <li>5. Must be CE /ISO certified equipment.</li> </ol>			01 pc	<b>24000</b>	
		<b>DEPARTMENT OF RADIOLOGY</b>					
<b>10</b>	<b>USG Machine</b>	<p>Specifications for USG Machine Colour Doppler Machine</p> <ul style="list-style-type: none"> <li>• 3 Active Port</li> <li>• 2 Probe <ol style="list-style-type: none"> <li>1) Curvilinear Abdominal probe</li> <li>2) Liner probe with good depth penetration and small foot plate.</li> <li>3) Biopsy guide for curvilinear probe</li> </ol> </li> <li>• 4 -d Platform: Volume probe can be fitted later on.</li> <li>• Monitor: Adjustable for height and sideways movement.</li> <li>• Spectral Analysis-Both auto and Manual tracing.</li> <li>• USB Ports- for Pen drive insertion</li> <li>• DVD Drive.</li> <li>• Panoramic view.</li> <li>• Excellent B-mode &amp; Colour Resolution.</li> </ul>			02 pcs	<b>80000</b>	

11	<p><b><u>Retrofit Flat Panel Detector System For Upgrading existing X-RAY System to Digital Radiography</u></b></p>	<p><b><u>Specifications</u></b></p> <p><b>A. Flat Panel Detector (FPD with TFT technology)</b></p> <ol style="list-style-type: none"> <li><b>Detector Type:-</b> The detector Scintillator material should be made up of Cesium Iodide and sensor with Thin Film Transistor (TFT) and Amorphous Silicon technology.</li> <li><b>Detector Size:-</b> 14 x 17 inches detector.(one)</li> <li><b>Communication Type:-</b> The Digital Detector should be wired cum wireless Flat Panel Detectors (FPDs) and unit should be automatically ready for next exposure.</li> <li><b>Image Preview time:-</b> Less than 3 seconds.</li> <li><b>Exposure Cycle Time:-</b> Less than 12 seconds.</li> <li><b>Detector Resolution ( spatial resolution):-</b> 2.5 lp /mm or more.</li> <li><b>Detector array size/ Image matrix:-</b> 2K x 2.5K pixels or higher.</li> </ol>			01 pc	40000	
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		<p>8. <b>Pixel Pitch:</b> 200 microns or less.</p> <p>9. <b>Technology:-</b>Indirect Technology</p> <p>10.<b>DQE:-</b> 65%@ 0 lp/mm and 50% @ 1lp/mm or more.</p> <p>11.<b>A to D conversion:</b> 14 bits or More.</p> <p>12.<b>Weight:-</b> The detector offered should be light in weight with less than 3 kgs including the battery, enabling ease of use for operations and easy positioning at the time of out of Bucky exposures and in chest stand.</p> <p>13. <b>Battery:-</b> Rechargeable Lithium Ion battery ( Latest). 3 Nos Batteries along with  battery charger should be provided. Company should replace batteries free of cost  for next 5 years. The battery offered should be replaced irrespective of charge cycle  limitations. In case of inbuilt Battery, detector manufacturer should either replace  battery or detector in case of any breakdown of battery. Kindly specify the</p>				
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		<p>battery type and life of offered model.</p> <p><b>14. Battery in operation mode:-</b> Capable of handling 200 or more exposures or 5 hours of operation in single full charge while using in wireless mode.</p> <p><b><u>OTHERS</u></b></p> <ol style="list-style-type: none"> <li>1. The detector should be capable of doing out of Bucky radiography in vertical Chest Stand and also Lateral supine Radiography must be possible.</li> <li>2. The detector must be water resistance ( like pt urine,blood etc)</li> <li>3. The detector must be capable of working on both wired as well as wireless mode and switch over must be less than 2 sec.</li> <li>5. Detector offered should have Auto Exposure Detection technology.</li> <li>6. Detector &amp; Console Software should be mandatory from the same manufacturer.</li> </ol> <p>The detector should be able to work at normal room temperature and humidity. The detector system should not require frequent calibrations on daily start-up</p> <ol style="list-style-type: none"> <li>7. An offered detector should have load</li> </ol>				
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bearing capacity of 250 kgs or more for the overall image area for high durability.

**B. Image Processing sub system and Console:**

1. The DR Console should be offered with latest high end image processing capability console software and high speed processor with 1K x 1K medical grade monitor of 19" or more.

- a) Selection of Patient demography
- b) Selection of the Anatomical parts to be X-rayed
- c) Windows and Level Adjustments
- d) Annotations must be possible
- e) Previews of images should be available in about 3 Sec or less
- f) Zooming, ROI, Image Cropping and Masking, automatic grid removal function
- g) Soft tissue processing must be

		<p>possible</p> <p>h) Should offer capability of local image storage( 500 GB OR more)</p> <p>i) Should be capable of connecting minimum of 2 Flat panels simultaneously</p> <p>j) Should be capable of connecting directly to the Dry Laser printer</p> <p>k) Should have capability to push images to location(s) of choice such as:</p> <ul style="list-style-type: none"> <li>I. Workstations</li> <li>II. PACS</li> <li>III. External Storage Devices</li> <li>IV. DICOM Printer(s)</li> <li>V. System compatible with all existing printers.</li> </ul> <p>2. Additional workstation with 1K x 1K medical grade monitor of 19" or more and following features as standard:</p>				
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- a. Full range of basic Image Processing tools such as Zoom, Pan, Window, Annotation, Magnification, etc.
- b. Storage of 500 GB / 3,000 images or more locally
- c. The workstation should be capable to print images of more than one patient in a film.
- d. The workstation should be capable of configuring Multi Format images for DICOM Printers and to be able to connect on any printer.
- e. The system should have facility to burn CD / DVD.

**C. Accessories - To be offered as standard:**

- 1. Online UPS with 30 mins backup for the DR Control and Operation computer system with Workstation

**D. Others:**

1. The company should have a local Service center in West Bengal.
2. The offered system should have CE & USFDA certification for safety / quality.
3. The Software and the detector must be from the same detector manufacturer, irrespective of the OEM agreement.
4. In case the bidder is not the detector manufacturer, the bidder must give undertaking to service/replace the detector for next 10 years.
5. Undertaking from The OEM manufacture of detector to undertake the guarantee to support directly for the detector in case if bidder is not able to provide service of detector during 10 Years from the date of installation.
6. All software upgradations shall be offered free of cost during

		<p>warranty &amp; CMC contract.</p> <p>7. Operating Manuals &amp; service manuals shall be provided along with each unit. Company shall ensure onsite training to Doctors and Staff on the use of System &amp; DR console software.</p>					
<b>12</b>	<p><u>Image Recording Systems (Cassettes &amp; Image Plates):</u></p>	<p>Cassettes:-  14"x17"----- 2 nos.  14"x14"----- 2 nos.  12"x10"----- 2 nos.</p> <p>The Imaging plates should be offered with 5 years warranty for unlimited exposures &amp; cassette scanning.</p> <p>Image Reader (CR Reader)  Processing Capacity 80 to 100 plates/hour (all size) or more.  Image plate reading at 50 microns or less @ 20pixel/mm or above.  Minimum image preview time should be less than 50 sec.  Depth acquisition resolution should be of 12 bits.  Unit should have two types of resolution- Standard &amp; High Resolution.  It should have possibility for user configurable anatomical presets.  Maximum presets.  Should have various post-processing features like window level &amp; width adjustment, Rotation, Zooming, Annotation, Marking, Noise reduction, cropping, Single &amp; multiple image layout etc.  System should be DICOM COMPATIBLE.</p>			01 pc	<b>30000</b>	

		<p>It should be able to process cassette size of 14"x17", 14"x14", 11"x14", 12"x10", 10"x8". The CR system should be scalable for connectivity with PACS. Networking with the local network for connectivity with other Printer or Camera.</p> <p><u>Console &amp; Work Station:-</u>  Two separate 17" Medical Grade LCD monitor, keyboard &amp; mouse.  One unit should have independent, fully functional software with separate workstation PC with facility of CD writing, universally viewable CD's.  The PC should have minimum 1 GB RAM, 320 GB or above Hard Disc.  Capability of processing raw image data of the CR/Digitizer.  Post- processing facilities like window level &amp; width adjustment, Image flipping and rotating, and angular rotation, zoom in &amp; zoom out, cropping, stitching, invert imaging, edge enhancement, latitude correction, image noise correction, gray scale saturation feedback, PIP mode.  Facility for multi-patient printing on single film.  Facility of multi-patient separate layout in printing mode.  Multiple Patients view at a time.  Image Comparison  Image export &amp; import to DICOM as well as JPEG and BMP.  Measurement tool includes ROI, distance &amp; area calculation, angle measurement, image filters etc..  Annotation tool straight line, circle, freehand draw,, arrow, text, etc..  The workstation should also have an option to connect to additional viewing</p>				
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		<p>workstation for Doctor's room. Ability to process image data to optimize the final output. <u>Dry Laser Camera/Imager:-</u> Dry laser printer of latest technology with following features:- Dry laser printer., Printing resolution at least 500 DPI or more for standard resolution printing. Printing capacity:- 80-100 sheets/hour for 14"x17" size. Gray scale resolution 14 bit. It should have compatibility of networking and connectivity, provision of direct connectivity to any DICOM.] It should be able to support film sizes 14"x17", 14"x14", 11"x14", 12"x10", 10"x8". It should have at least 3 films sizes online. It should capable of printing in different layouts &amp; multiple formats on a single film. Capability of printing images of multiple patients &amp; multiple images of single patient in single size. Day light loading of film. The total system should be supplied with suitable UPS with a back up of 45 minutes to 1 hour. The total system should be offered with 5 years warranty including he IP Plates. The system should be CE/FDA approved.</p>					
<b>DEPARTMENT OF OT, ICU, WARDS</b>							
<b>13</b>	WASTE SHARPS / DISPOSABLE DESTROYER SYSTEM	<p>Should utilize dry heat sterilization method Should effectively destroy disposable items like needles, syringes, scalpel blades, vacutainers etc</p>			06 pcs	<b>75000</b>	



	(ELECTRICAL )	<p>Should be a micro processor computerized based control system &amp; LED display panel</p> <p>Should not emit smoke and pungent odour, and noise free Should have a canister to collect the destroyed disposable materials for destroying, canister should be lockable</p> <p>Canister capacity should be at least 3-5 L</p> <p>Process time should be less than 2-5 hrs</p> <p>Should have a safety measures like the lid cannot open once the sterilization is in the process, to keep the operator in safe control while processing the waste</p> <p>Should have report / data generation system that shows cycle no., date, time , duration, temperature etc Voltage compatibility for 220 V - 250 V AC</p> <p>Should meet sharp disposable international safety standards (certificates should be enclosed with the technical bid)</p> <p>The price of the consumables to be quoted separately which should be frozen for 03 years.</p> <p>Rates to be quoted in price bid.</p> <p>Should be US FDA / European CE certified</p> <p>02 years warranty &amp; 5 year CMC. CMC rates should be quoted in price bid separately</p> <p>Performance reports of quoted/similar model from reputed Govt./ Major Hospitals/ institution should be enclosed with the technical bid</p>					
<b>DEPARTMENT OF PHYSIOLOGY</b>							
<b>14</b>	<b>Three channel -</b>	<b>Technical Specification: -</b> <ul style="list-style-type: none"> <li>The system should have ready-to</li> </ul>			02 pcs	<b>20000</b>	

	<p><b>physiograph with accessories for Human &amp; Animal Experiments.</b></p>	<p>use experiments with step-by-step instructions for a wide range of experiments including human &amp; animal experiments.</p> <ul style="list-style-type: none"> <li>• It should have report pages which include study questions as well as students' recorded data, analysis tables and graphs from their completed experiments. It should allow students to type their answers and the reports can be saved for easy review or printing.</li> <li>• It should allow students and educators to access experiment material as well as the recorded data anywhere from outside the lab through internet.</li> <li>• The software should allow user to customise experiments as per their lab requirement.</li> <li>• The software should be provided with free experiments and software updates for at least 5 years.</li> <li>• Recorder with high sampling rate 100 KHz and an two channel for bio-potential &amp; isolated stimulator with a software controlled filtering, Voltage Range: 0-10 V &amp; Current Range: 0-20mA with software selectable pulse duration (50-200 <math>\mu</math> sec).</li> <li>• Simulated Experiments/Preconfigured Experiments with sample data for Frog Heart:-Temperature Effects, Starling's Law of the Heart, Drug Effects, Conduction Block, Hear Refractory Period, Vagal Escape, <b>Frog Neuromuscular Junction:-</b></li> </ul>					
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		<p>Twitch Recruitment – Nerve, Muscle, force, latency, fatigue, Tubocurarine etc, <b>Frog Sciatic Nerve &amp; Skeletal Muscle:-</b> Twitch Recruitment, Effect of Stretch on Contractile Force, Muscle Summation, Muscle Tetanus, Muscle and Nerve Fatigue, Nerve Threshold, Nerve Refractory Period, Conduction Velocity and other physiological parameters.</p> <ul style="list-style-type: none"> <li>• Should have clinical pharmacology/Medical case laboratories live videos &amp; Patient data to provide student an interactive solution for learning.</li> <li>• Human ECG, EOG, HRV, EMG, BVP, Grip Strength transducer, spirometer.Reflective Drop Counter.</li> <li>• <u>Transducers &amp; accessories:-</u>pulse transducer, teaching force transducer (0-500g) , animal nerve &amp; bar stimulating electrode, nerve chamber, bio-amp cable, shielded wires, alligator clips, muscle holder, manipulator with stand, needle electrode and other related accessories</li> <li>• Desktop Computer with 17” TFT Monitor, 4GB RAM, 380GB HDD, DVDR/W, Laser Printer &amp; UPS</li> </ul>					
15	<p><b>Single channel - physiograph with accessories for Human Experiment</b></p>	<p><b>Technical Specification:-</b></p> <ul style="list-style-type: none"> <li>• The system should have ready-to use experiments with step-by-step instructions for a wide range of experiments including human &amp; animal experiments.</li> <li>• It should have report pages which</li> </ul>			06 pcs	40000	

	<b>S</b>	<p>include study questions as well as students' recorded data, analysis tables and graphs from their completed experiments. It should allow students to type their answers and the reports can saved for easy review or printing.</p> <ul style="list-style-type: none"> <li>• It should allow students and educators to access experiment material as well as the recorded data anywhere from outside the lab through internet.</li> <li>• The software should allow user to customise experiments as per their lab requirement.</li> <li>• The software should be provided with free experiments and software updates for at least 5 years.</li> <li>• Recorder with high sampling rate 100 KHz and an two channel for bio-potential &amp; isolated stimulator with a software controlled filtering, Voltage Range: 0-10 V &amp; Current Range: 0-20mA with software selectable pulse duration (50-200 <math>\mu</math> sec).</li> <li>• Should have clinical pharmacology/Medical case laboratories live videos &amp; Patient data to provide student an interactive solution for learning.</li> <li>• <u>Transducers &amp; accessories:</u>        -Human ECG, EOG, EEG, HRV, EMG, BVP, Grip Strength transducer, spirometer. Cardio microphone, Push button switch, Wireless Heart rate variability transducer.</li> <li>• Desktop Computer with 17" TFT</li> </ul>				
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		Monitor, 4GB RAM, 380GB HDD, DVDR/W, Laser Printer & UPS					
<b>16</b>	<b>Polygraph Multichannel</b>	<p>The system should be able to record and analyse.</p> <ul style="list-style-type: none"> <li>• Pulse, PPG, blood pressure, ECG, Pulse Transit time, Heart Rate Variability [HRV].</li> <li>• ECG Multi leads configurations for real time cardiac axis &amp; vector analysis</li> <li>• Digital microphone for heart &amp; lung sounds studies.</li> <li>• Pulse Wave velocity, Deep breathing test, Valsalva Manuever,</li> <li>• SP02, Acceleration (3 axis), Activity, GSR &amp; Temperature, EEG, EMG, NCV etc.</li> <li>• Dynamometer to study Hand Grip Test.</li> <li>• Four channel balance board for static posturography or body Sway studies.</li> </ul> <p>Hardware Specifications:</p> <ul style="list-style-type: none"> <li>• Simultaneous recording for atleast 12 and more parameters.</li> <li>• High sampling rate of 40 KHz or more</li> <li>• Should have Fully Isolated Stimulator for Constant current &amp; Voltage stimulation output range (0-20 mA) with pulse duration: 50-200 <math>\mu</math>s.</li> <li>• Must have preferred parameters for wireless monitoring ECG, SP02, PPG, Respiration, GSR and Temperature with data logging on</li> </ul>			01 pc	<b>45000</b>	

8 GB and real time acquisition & Analysis mode.

- The software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. Also should have sample data for animal experiments for demonstrating to the students.
- Facility for automatic analysis in while data recording and after recording for ECG, Heart Rate Variability, Blood Pressure, Peak analysis, Spectrum analysis, etc.
- Should have option for Mathematical function and Statistical analysis and export options to other software like MATLAB, Excel, QuickTime, Wav, Text etc for desired interpretation of the data.
- The software should provide an easy file sharing option to a distant user with-out involving any cost with a 5 year of free updates and upgrade.
- Compatible Desktop Computer (I3, 4GB RAM, 500GB HDD, 18 inch Monitor, Windows OS), Printer and 1kVa UPS.
- Documentations:-CE/FDA, ISO and other safety certificates must be provided.
- Manufacturer should have experience of Manufacturing & Installation of the quoted product

		for atleast 05 years.					
<b>17</b>	<b>Gas Analysis Apparatus, Haldane's students type:</b>	<ul style="list-style-type: none"> <li>• Should be supplied with multichannel recording unit with a range of +2 mV to +10 V</li> <li>• Sampling rate of 100 KHz per channel and option for variable sampling speed on each channel.</li> <li>• ADC resolution of 16 bits on all gain ranges.</li> <li>• Facility for recording ECG leads (I, II, III, aVL, aVF, aVR and V1 to V6) for real time cardiac axis &amp; vector analysis etc.</li> <li>• Amplifiers &amp; Transducers for ECG, Spirometer with respiratory flow head and mouth pieces. Pulse , respiration rate, Heart rate , hand dynamometer, Blood pressure , heart sound etc.</li> <li>• The Software should calculate VE Expired minute volume , VO2 oxygen consumption , VCO2 carbon dioxide production , RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE / VO2), (VE / VCO2) etc. and should generates a number of graphs like Metabolic Log Window , VE (BTPS) vs. VO2, VE (BTPS) vs. VCO2, VCO2 vs. VO2, RER vs. time, VO2 vs. time, VCO2 vs. time , VE (BTPS) vs. time.</li> <li>• Accessories:-.Mouth piece, head gear, tubing and flow sensors,</li> </ul>			01 pc	<b>45000</b>	

		<p>mixing chamber connectors, ECG electrodes, cream, paste, filters and Douglas bags to be provided.</p> <ul style="list-style-type: none"> <li>• Compatible Computer/Laptop &amp; trolley should be provided.</li> <li>• Gas Analyzer should have an Oxygen sensor with minimum range of 5-100% oxygen and resolution of at least 0.02% &amp; the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least 0.1% and variable flow range of 0-185 ml/min for best performance and results and must have following specifications:-</li> <li>• Operating Temperature Range: +5 to 40°C</li> <li>• Humidity: 0 to 90% non-condensing</li> <li>• Warm-up time: 10 mins @ 20°C</li> <li>• Should be supplied with Gas Mixing Chamber , tubing and connecting tubings and cable.</li> <li>• Must have an analogue outputs for connecting it to data recoding unit and software .</li> <li>• The instrument should be approved to IEC, CE &amp; ISO and other safety standards.</li> <li>• Manufacturer should have experience of Manufacturing &amp; Installation of the quoted product for atleast 05 years. Documentary proof should be attached.</li> </ul>				
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**PLEASE QUOTE YOUR RATE.  
(PRICE BID)**

**ANNEXURE -V  
SHEET - II**

(A)	(B)		©	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)		
SL. NO.	NAME OF EQUIPMENT & INSTRUMENT	Specification	Make /Model No. (to be filled in by tenderers)	Company /Manufacturer (to be filled in by tenderers)	RE-QUIREMENTS /QTY(F OR ESIPGIMSR, JOKA)	Cost Per Unit (Base Rate) (Rs.)	Buy back rate (in figures)	Cost Per Unit (Base Rate) (Rs.) after reducing buy back rate (F-G)	G.S. T (%)	GST Amount (Rs.) (H * I %)	Total unit cost Inclusive of all taxes (H +J)	Total cost (K*E)	CMC for 1st year (in Rs.)	CMC for 2nd year (in Rs.)	CMC for 3rd year (in Rs.)	CMC for 4th year (in Rs.)	CMC for 5th year (in Rs.)	GST % on CMC	
<b>DEPARTMENT OF EMERGENCY LAB</b>																			
1	Fully Automated Clinical Chemistry Analyzer	<p>Specification:- Throughput: At least 200 test/hr without ISE with truly open reagent system. Analysis method: Absorbance photometry, End point, Fixed time (2 pt), Kinetic, Turbidimetry. Filters: Grating/Filter based with 340nm - 670nm. ie 340nm, 405nm, 505nm, 546nm, 570nm, 620nm, 670nm (minimal deviation allowed). Reagent Position: At least 30 reagent position with onboard refrigeration. Reagent Volume: R1- 180 - 450ul with 1ul increment, R2- 30 - 180ul with 1 ul increment. Cuvette: Permanant Glass/ Quartz cuvette with onboard laundry facility. Light Source: Halogen Lamp Probe: Probe for reagent and</p>			01 pc														

	<p>sample aspiration with auto cleaning facility with liquid level sensing facility.  Sample position: At least 30 sample position with primary tube and sample cup.  Onboard parameter: At least 30 parameter.  Absorbance range: 0-3.0  Temperature:- 37 degree ± 0.1  Flagging: Abnormal results, Low sample volume indication  Calibration: Linear/1 pt , 2 pt, multipoint  Control: 2 level control with facility of L-J plotting and West Gard multirule.  Memory: At least 50 thousand backup data of test, control and calibration.  Monitor: 14 inch LED colour monitor.  Operating System: Windows 2010 with 2gb RAM,500gb Hard disc.  Printer:- Printer with scanner and coping facility.  Power System:- AC 200-240 volts with Indian type plug point.  UPS: 2 KVA online UPS with 1 hr backup facility.  Distillation Water Plant: Company must supply distillation plant if water requirement is more than 10 lt /200 test.  Installation: At least 1 installation in Govt/Private sector in Kolkata. ISO certified.</p>																
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**DEPARTMENT OF PHYSIOTHERAPY**

2	<b>High power laser therapy Unit</b>	<b>High power laser therapy Unit Specifications:</b> >Should have wave length 980nm & 810nm performing synchronized parallel emission for superficial & deeper penetration >Should have 4 to 7 watt or more continuous LASER power (class 4). >Mounted with trolley with wheel for easy transfer. >Large colour touch screen monitor (8 inch to 10 inch preferable) for better control. >Patient encyclopedia with anatomical view (normal, muscular, skeletal). >On line help for various common disease. >Should have preset thermal threshold test function >Disease wise programmed & manual programmed >Should have continuous & pulsed mode for patient treatment. >Must have free memory to save patient data. >Must have international standard with CE certified. >Should have emergency switch for patient safety >should have protective spectacles for patient & therapist >Should have foot switch operation for better control & patient safety			01 pc (against condemnation of Laser Therapy unit BTL 5110)															
3	<b>Combination therapy Unit</b>	<b>Specification</b> >Dual channel combi unit for electro and ultrasonic therapy unit.			02 pcs (01 pc new demand & 01															

	<p>&gt;0.8/1 &amp; 2.4/3 MHz Multi frequency ultrasonic therapy from same head &amp; depth of penetration can be adjustable by mixing two frequency.</p> <p>&gt;Transducer should water resistant head with visual contact indicator &amp; 1 to 5 cm2 in diameter.</p> <p>&gt;Mounted with trolley with wheel for easy transfer.</p> <p>&gt;Large colour touch screen monitor(8 inch to 12 inch preferable) for better control.</p> <p>&gt;Patient encyclopedia with anatomical view(normal,muscular, skeletal).</p> <p>&gt; Must have I/T curve and S/D curve plotting facility on screen.</p> <p>&gt;On line help for various common disease.</p> <p>&gt;Disease wise programmed &amp; manual programmed (neuro-muscular diagnostic &amp; treatment for paralysis, lymph edema,analgesia,muscle rehabilitation).</p> <p>&gt;Current form - I.FT, Diadynamic , Russian, galvanic etc.</p> <p>&gt;Should have vacuum application continuous &amp; pulsed with adjustment of vacuum strength.</p> <p>&gt;Must have free memory to save patient data.</p> <p>&gt;Must have international standard with CE certified.</p>		<p><b>pc against condemnation of Ultrasonic therapy unit-BTL 4815S)</b></p>																
<b>DEPARTMENT OF ICU</b>																			

4	ICU Ventilator	<b>Technical Specifications of ICU Ventilator</b> <ol style="list-style-type: none"> <li>1. Multimodal ICU ventilator with the following modes: Spontaneous-PS, AC-VCV, AC-PCV, SIMV-VCV, SIMV-PSV, Adaptive-BiPAP, PEEP, invasive and non-invasive ventilation modes for adult &amp; pediatric patients.</li> <li>2. There should be no need for external spirometry tubing or sensors on the patient breathing circuit for the ventilator to operate.</li> <li>3. Internal batter backup of at least 30 minutes.</li> <li>4. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</li> </ol>			03 pcs (against condemnation of ICU Ventilator Brand - MAQUET)														
5	Ambulatory PCA Pump:	<b>Technical Specifications of Ambulatory PCA Pump:</b> <ol style="list-style-type: none"> <li>1. Microprocessor controlled programmable ambulatory patient controlled analgesia (PCA) pump.</li> <li>2. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</li> </ol>			10 pcs														

6	OT Light	<b>Technical Specifications of OT Light</b> <ol style="list-style-type: none"> <li>a) OT Ceiling Light with LED Lighting System, Dual Dome.</li> <li>b) The LED light must have at least 30,000 hours of guaranteed life.</li> <li>c) Auto focus camera in one Light Dome, with one Medical Grade LED Display and Recording Facility.</li> <li>d) Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</li> </ol>			04 pcs (against condemnation of OT Light -02 pcs Make - Philips , 02 pcs Make - Hospitech, Model - Venus Duo)														
7	NIV Machine	<b>Technical Specifications of NIV Machine:</b> <ol style="list-style-type: none"> <li>1. Non-invasive ventilation machine with internal battery backup.</li> <li>2. Controls: IPAP 4 - 30 cm H2O; EPAP 4 - 25 cm H2O, Maximum flow capability 160 L/min; Leak compensation upto 60 L/min; Rise time 1-6 (1 = 0.1 s and 6 = 0.6 s); Rate 1-30 BPM (accuracy: ±1BPM or ±10% of setting)</li> <li>3. Patient Parameters display: Patient circuit pressure, Rate, Estimated tidal volume, Estimated MV, Patient leak.</li> <li>4. Alarms: High System</li> </ol>			1 pc (against condemnation of NIPPV Machine Make- Nidek Medical)														

		<p>Pressure, Low System Pressure, Apnea.</p> <p>5. Two sets of full face mask, nasal mask and 2 m length tubing, and 1 box of reusable particulate filters, and 1 universal roll stand with mounting plate to be provided with the equipment.</p> <p>6. Equipment must be US FDA 510(k) certified or European CE Certified with 4 digit code.</p>																
8	ETO (Ethylene oxide) Sterilizer	<p>Specifications:</p> <p><b>1. ETO (Ethylene oxide) Sterilizer with</b> inbuilt aerator, using ethylene oxide as a biocide to destroy bacteria, viruses, fungus and other unwanted organism.</p> <p><b>2. Chamber:</b> SS 316 for corrosion and gas resistant. The inner surface smoothly finished to minimize gas deposit. Size of chamber: 16" X 16" X 48"</p> <p><b>3. Mode of heating :</b> Chamber will be heated with strip air heater / hot water circulated through the coil of SS 304 around the chamber to maintain the chamber temperature at 40 - 75° c</p> <p><b>4. Insulation of shell:</b> 50 mm thick R.B. fibre glass covered with SS 304 outer cover.</p> <p>5. <b>Door:</b> Single, SS 316, hinge type with quick release locking arrangement with suitable safety interlocking so that the process cannot start</p>			01 pc (against condemnation of High Pressure Sterilizer Make - Reico, Model - HR224)													

	<p>unless the door is properly closed and cannot be opened during the process.</p> <p><b>6. Paneling :</b> SS 304, Box type design, MMI-PLC will be located within the panel.</p> <p><b>7. Vacuum Pump:</b> Diaphragm/Water ring type vacuum pump provided to achieve high level of air removal for high sterility and efficient residual gas removal during aeration process from the chamber and gas trap to separate and evacuate the gas. In- built Gas catalytic converter for the exhausted ETO gas.</p> <p><b>8. Gas Purging:</b> Provided with cartridge puncturing system as well as provision for EO+CO2 cylinder.</p> <p><b>9. Sterilization Process:</b> Fully automatic PLC/Touch Screen models. Two nos. sterilization cycles with inbuilt leak test and aeration will be provided, which will be completed automatically.</p> <p><b>10. Stand: SS 304</b></p> <p><b>11. Documentation:</b> Laser monochrome printer which will print date, batch/load number, program type selected and program parameters which includes one point temperature print out.</p> <p><b>12. Programs/cyles with fully automatic operation.</b></p> <p>a) Positive Pressure Cycle (with ETO (20%) + CO2 (80%) cylinder.</p> <p>b) Negative Pressure Cycle</p>																
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		<p>(100% ETO Cartridge)</p> <p>c) Vacuuming of chamber to set value.</p> <p>d) Leak hold period</p> <p>e) Cartridge puncturing/gas purging depending on the cycle selected.</p> <p>f) Sterilization hold period for set time.</p> <p>g) Exhaust and aeration for no.of aeration pulses set.</p> <p><b>13. Accessories:</b></p> <p>a) Room Air ETO Sensor/Monitor with Alarm system.</p> <p>b) Wire basket (1 nos) for chamber.</p> <p><b>14. The equipment must be European CE Certified with 4 digit CE mark.</b></p>															
9	<b>Fully Automatic surgical gauze folding and cutting machine</b>	<p>Specifications:</p> <p>1. Fully automatic surgical gauze folding and cutting machine.</p> <p>2. The machine must be compatible with all brands and varieties of surgical gauze rolls available in the Indian market.</p> <p>3. This machine must be suitable to fold and cut medical gauze sponge / gauze compress/gauze swab/ gauze pad with edges folded in (American folding type) automatically, one component for folding 5 cm X 5cm sized gauze, 8 ply .</p> <p>4. Output speed : Above 200 pcs /mint.</p> <p>5. Must be CE /ISO certified equipment.</p>			01 pc												
<b>DEPARTMENT OF RADIOLOGY</b>																	

10	USG Machine	<p>Specifications for USG Machine Colour Doppler Machine</p> <ul style="list-style-type: none"> <li>• 3 Active Port</li> <li>• 2 Probe</li> <li>1. Curvilinear Abdominal probe</li> <li>2. Liner probe with good depth penetration and small foot plate.</li> <li>3. Biopsy guide for curvelinear probe</li> <li>• 4 -d Platform: Volume probe can be fitted later on.</li> <li>• Monitor: Adjustable for height and sideways movement.</li> <li>• Spectral Analysis-Both auto and Manual tracing.</li> <li>• USB Ports- for Pen drive insertion</li> <li>• DVD Drive.</li> <li>• Panoramic view.</li> <li>• Excellent B-mode &amp; Colour Resolution.</li> </ul>			02 pcs														
11	Retro fit Flat Panel Detector System For Upgrading	<p><b>Specifications</b></p> <p><b>A. Flat Panel Detector (FPD with TFT technology)</b></p> <ol style="list-style-type: none"> <li>1. <b>Detector Type:-</b> The detector Scintillator material should be made up of Cesium Iodide and sensor with Thin Film Transistor (TFT) and Amorphous</li> </ol>			01 pc														

	<p><b>existing X-RAY System to Digital Radiography</b></p>	<p>Silicon technology.</p> <p>2. <b>Detector Size:</b> 14 x 17 inches detector. (one)</p> <p>3. <b>Communication Type:-</b> The Digital Detector should be wired cum wireless Flat Panel Detectors (FPDs) and unit should be automatically ready for next exposure.</p> <p>4. <b>Image Preview time:-</b> Less than 3 seconds.</p> <p>5. <b>Exposure Cycle Time:-</b> Less than 12 seconds.</p> <p>6. <b>Detector Resolution ( spatial resolution):-</b> 2.5 lp /mm or more.</p> <p>7. <b>Detector array size/ Image matrix:-</b> 2K x</p>																
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		<p>2.5K pixels or higher.</p> <p>8. <b>Pixel Pitch:</b> 200 microns or less.</p> <p>9. <b>Technology:-</b>Indirect Technology</p> <p>10. <b>DQE:-</b> 65%@ 0 lp/mm and 50% @ 1lp/mm or more.</p> <p>11. <b>A to D conversion:</b> 14 bits or More.</p> <p>12. <b>Weight:-</b> The detector offered should be light in weight with less than 3 kgs including the battery, enabling ease of use for operations and easy positioning at the time of out of Bucky exposures and in chest stand.</p> <p>13. <b>Battery:-</b> Rechargeable Lithium Ion battery ( Latest). 3 Nos Batteries along</p>																
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		<p>with battery charger should be provided. Company should replace batteries free of cost</p> <p>14. for next 5 years. The battery offered should be replaced irrespective of charge cycle</p> <p>15. limitations. In case of inbuilt Battery, detector manufacturer should either replace</p> <p>16. battery or detector in case of any breakdown of battery. Kindly specify the battery type</p> <p>17. and life of offered model.</p> <p>18. <b>Battery in operation mode:-</b> Capable of handling 200 or more exposures or 5 hours of operation in single full charge while using in wireless mode.</p>																
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**OTHERS**

1. The detector should be capable of doing out of Bucky radiography in vertical Chest Stand and also Lateral supine Radiography must be possible.

2. The detector must be water resistance ( like pt urine,blood etc)

3. The detector must be capable of working on both wired as well as wireless mode and switch over must be less than 2 sec.

5. Detector offered should have Auto Exposure Detection technology.

6. Detector & Console Software should be mandatory from the same manufacturer.

The detector should be able to work at normal room temperature and humidity.

The detector system should not require frequent calibrations on daily start-up

7. An offered detector should have load bearing capacity of 250 kgs or more for the overall image area for high durability.

**E. Image Processing sub system and Console:**

3. The DR Console should be offered with latest high end image processing capability console software and high speed processor with 1K x 1K medical grade monitor of 19" or more.

- l) Selection of Patient demography
- m) Selection of the Anatomical parts to be X-rayed
- n) Windows and Level Adjustments
- o) Annotations must be possible

		<p>p) Previews of images should be available in about 3 Sec or less</p> <p>q) Zooming, ROI, Image Cropping and Masking, automatic grid removal function</p> <p>r) Soft tissue processing must be possible</p> <p>s) Should offer capability of local image storage( 500 GB OR more)</p> <p>t) Should be capable of connecting minimum of 2 Flat panels simultaneously</p> <p>u) Should be capable of connecting directly to the Dry</p>																
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		<p>Laser printer</p> <p>v) Should have capability to push images to location(s) of choice such as:</p> <p>VI. Workstations</p> <p>VII. PACS</p> <p>VIII. External Storage Devices</p> <p>IX. DICOM Printer(s)</p> <p>X. System compatible with all existing printers.</p> <p>4. Additional workstation with 1K x 1K medical grade monitor of 19" or more and following features as standard:</p>																
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		<p>f. Full range of basic Image Processing tools such as Zoom, Pan, Window, Annotation, Magnification, etc.</p> <p>g. Storage of 500 GB / 3,000 images or more locally</p> <p>h. The workstation should be capable to print images of more than one patient in a film.</p> <p>i. The workstation should be capable of configuring Multi Format</p>																	
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images for  
DICOM Printers  
and to be able  
to connect on  
any printer.

- j. The system should have facility to burn CD / DVD.

**F. Accessories - To be offered as standard:**

- 2. Online UPS with 30 mins backup for the DR Control and Operation computer system with Workstation

**G. Others:**

- 8. The company should have a local Service center in West Bengal.
- 9. The offered system should have CE & USFDA certification for

		<p>safety / quality.</p> <p>10. The Software and the detector must be from the same detector manufacturer, irrespective of the OEM agreement.</p> <p>11. In case the bidder is not the detector manufacturer, the bidder must give undertaking to service/replace the detector for next 10 years.</p> <p>12. Undertaking from The OEM manufacture of detector to undertake the guarantee to support directly for the detector in case if bidder is not able to provide service of detector during 10 Years from the date of installation.</p>																	
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		<p>13. All software upgradations shall be offered free of cost during warranty &amp; CMC contract.</p> <p>14. Operating Manuals &amp; service manuals shall be provided along with each unit. Company shall ensure onsite training to Doctors and Staff on the use of System &amp; DR console software.</p>															
12	<p><u>Image Recording Systems (Cassettes &amp; Image Plates)</u> :</p>	<p>Cassettes:-  14"x17"-----  2 nos.  14"x14"-----  2 nos.  12"x10"-----  2 nos.</p> <p>The Imaging plates should be offered with 5 years warranty for unlimited exposures &amp; cassette scanning.</p> <p>Image Reader (CR Reader)  Processing Capacity 80 to 100 plates/hour (all size) or more.  Image plate reading at 50 microns or less @ 20pixel/mm or above.  Minimum image preview time</p>			01 pc												

	<p>should be less than 50 sec.  Depth acquisition resolution should be of 12 bits.  Unit should have two types of resolution- Standard &amp; High Resolution.  It should have possibility for user configurable anatomical presets. Maximum presets.  Should have various post-processing features like window level &amp; width adjustment, Rotation, Zooming, Annotation, Marking, Noise reduction, cropping, Single &amp; multiple image layout etc.  System should be DICOM COMPATIBLE.  It should be able to process cassette size of 14"x17", 14"x14", 11"x14", 12"x10", 10"x8". The CR system should be scalable for connectivity with PACS.  Networking with the local network for connectivity with other Printer or Camera.  <u>Console &amp; Work Station:-</u>  Two separate 17" Medical Grade LCD monitor, keyboard &amp; mouse.  One unit should have independent, fully functional software with separate workstation PC with facility of CD writing, universally viewable CD's.  The PC should have minimum 1 GB RAM, 320 GB or above Hard Disc.  Capability of processing raw image data of the CR/Digitizer.</p>																
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	<p>Post- processing facilities like window level &amp; width adjustment, Image flipping and rotating, and angular rotation, zoom in &amp; zoom out, cropping, stitching, invert imaging, edge enhancement, latitude correction, image noise correction, gray scale saturation feedback, PIP mode.</p> <p>Facility for multi-patient printing on single film.</p> <p>Facility of multi-patient separate layout in printing mode.</p> <p>Multiple Patients view at a time.</p> <p>Image Comparison</p> <p>Image export &amp; import to DICOM as well as JPEG and BMP.</p> <p>Measurement tool includes ROI, distance &amp; area calculation, angle measurement, image filters etc..</p> <p>Annotation tool straight line, circle, freehand draw,, arrow, text, etc..</p> <p>The workstation should also have an option to connect to additional viewing workstation for Doctor's room.</p> <p>Ability to process image data to optimize the final output.</p> <p><u>Dry Laser Camera/Imager:-</u></p> <p>Dry laser printer of latest technology with following features:-</p> <p>Dry laser printer.,</p> <p>Printing resolution at least 500 DPI or more for standard</p>																		
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		<p>resolution printing.          Printing capacity:- 80-100 sheets/hour for 14"x17" size.          Gray scale resolution 14 bit.          It should have compatibility of networking and connectivity, provision of direct connectivity to any DICOM.]          It should be able to support film sizes 14"x17", 14"x14", 11"x14", 12"x10", 10"x8".          It should have at least 3 films sizes online.          It should capable of printing in different layouts &amp; multiple formats on a single film.          Capability of printing images of multiple patients &amp; multiple images of single patient in single size.          Day light loading of film.          The total system should be supplied with suitable UPS with a back up of 45 minutes to 1 hour. The total system should be offered with 5 years warranty including he IP Plates.          The system should be CE/FDA approved.</p>															
<b>DEPARTMENT OF OT, ICU, WARDS</b>																	
<b>13</b>	WASTE SHARP S / DISPO SABLE DESTR OYER SYSTE M (ELECT RICAL)	Should utilize dry heat sterilization method			06 pcs												
		Should effectively destroy disposable items like needles, syringes, scalpel blades, vacutainers etc															
		Should be a micro processor computerized based control system & LED display panel															



	Should not emit smoke and pungent odour, and noise free Should have a canister to collect the destroyed disposable materials for destroying, canister should be lockable																	
	Canister capacity should be at least 3-5 L																	
	Process time should be less than 2-5 hrs																	
	Should have a safety measures like the lid cannot open once the sterilization is in the process, to keep the operator in safe control while processing the waste																	
	Should have report / data generation system that shows cycle no., date, time , duration, temperature etc Voltage compatibility for 220 V - 250 V AC																	
	Should meet sharp disposable international safety standards (certificates should be enclosed with the technical bid)																	
	The price of the consumables to be quoted separately which should be frozen for 03 years.																	
	Rates to be quoted in price bid.																	
	Should be US FDA / European CE certified																	
	02 years warranty & 5 year CMC. CMC rates should be quoted in price bid separately																	

		Performance reports of quoted/similar model from reputed Govt./ Major Hospitals/ institution should be enclosed with the technical bid																
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**DEPARTMENT OF PHYSIOLOGY**

14	Three channel - physio graph with accessories for Human & Animal Experiments	<p><b>Technical Specification: -</b></p> <ul style="list-style-type: none"> <li>• The system should have ready-to use experiments with step-by-step instructions for a wide range of experiments including human &amp; animal experiments.</li> <li>• It should have report pages which include study questions as well as students' recorded data, analysis tables and graphs from their completed experiments. It should allow students to type their answers and the reports can saved for easy review or printing.</li> <li>• It should allow students and educators to access experiment material as well as the recorded data anywhere from outside the lab through internet.</li> <li>• The software should allow user to customise experiments as per their lab requirement.</li> </ul>			02 pcs													
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		<ul style="list-style-type: none"> <li>• The software should be provided with free experiments and software updates for at least 5 years.</li> <li>• Recorder with high sampling rate 100 KHz and an two channel for bio-potential &amp; isolated stimulator with a software controlled filtering, Voltage Range: 0-10 V &amp; Current Range: 0-20mA with software selectable pulse duration (50-200 <math>\mu</math> sec).</li> <li>• Simulated Experiments/Preconfigured Experiments with sample data for Frog Heart:-Temperature Effects, Starling's Law of the Heart, Drug Effects, Conduction Block, Hear Refractory Period, Vagal Escape, <b>Frog Neuromuscular Junction:-</b> Twitch Recruitment - Nerve, Muscle, force, latency, fatigue, Tubocurarine etc, <b>Frog Sciatic Nerve &amp; Skeletal Muscle:-</b> Twitch Recruitment, Effect of Stretch on Contractile Force, Muscle Summation, Muscle Tetanus, Muscle and Nerve Fatigue, Nerve Threshold, Nerve Refractory Period,</li> </ul>																
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		<p>Conduction Velocity and other physiological parameters.</p> <ul style="list-style-type: none"> <li>• Should have clinical pharmacology/Medical case laboratories live videos &amp; Patient data to provide student an interactive solution for learning.</li> <li>• Human ECG, EOG, HRV, EMG, BVP, Grip Strength transducer, spirometer. Reflective Drop Counter.</li> <li>• <u>Transducers &amp; accessories</u>:-pulse transducer, teaching force transducer (0-500g) , animal nerve &amp; bar stimulating electrode, nerve chamber, bio-amp cable, shielded wires, alligator clips, muscle holder, manipulator with stand, needle electrode and other related accessories</li> <li>• Desktop Computer with 17" TFT Monitor, 4GB RAM, 380GB HDD, DVDR/W, Laser Printer &amp; UPS</li> </ul>																
15	Single channel - physiograph with accessories for Human	<p><b>Technical Specification:-</b></p> <ul style="list-style-type: none"> <li>• The system should have ready-to use experiments with step-by-step instructions for a wide range of experiments including human &amp;</li> </ul>			06 pcs													

	<b>Experiments</b>	<p>animal experiments.</p> <ul style="list-style-type: none"> <li>• It should have report pages which include study questions as well as students' recorded data, analysis tables and graphs from their completed experiments. It should allow students to type their answers and the reports can saved for easy review or printing.</li> <li>• It should allow students and educators to access experiment material as well as the recorded data anywhere from outside the lab through internet.</li> <li>• The software should allow user to customise experiments as per their lab requirement.</li> <li>• The software should be provided with free experiments and software updates for at least 5 years.</li> <li>• Recorder with high sampling rate 100 KHz and an two channel for bio-potential &amp; isolated stimulator with a software controlled filtering, Voltage Range: 0-10 V &amp; Current Range: 0-</li> </ul>																
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		<p>20mA with software selectable pulse duration (50-200 <math>\mu</math> sec).</p> <ul style="list-style-type: none"> <li>• Should have clinical pharmacology/Medical case laboratories live videos &amp; Patient data to provide student an interactive solution for learning.</li> <li>• <u>Transducers &amp; accessories:</u> -Human ECG, EOG, EEG, HRV, EMG, BVP, Grip Strength transducer, spirometer. Cardio microphone, Push button switch, Wireless Heart rate variability transducer.</li> <li>• Desktop Computer with 17" TFT Monitor, 4GB RAM, 380GB HDD, DVDR/W, Laser Printer &amp; UPS</li> </ul>																	
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16	Polygraph Multichannel	<p>The system should be able to record and analyse.</p> <ul style="list-style-type: none"> <li>• Pulse, PPG, blood pressure, ECG, Pulse Transit time, Heart Rate Variability [HRV].</li> <li>• ECG Multi leads configurations for real time cardiac axis &amp; vector analysis</li> <li>• Digital microphone for heart &amp; lung sounds studies.</li> <li>• Pulse Wave velocity, Deep breathing test, Valsalva Manuever,</li> <li>• SP02, Acceleration (3 axis), Activity, GSR &amp; Temperature, EEG, EMG, NCV etc.</li> <li>• Dynamometer to study Hand Grip Test.</li> <li>• Four channel balance board for static posturography or body Sway studies.</li> </ul> <p>Hardware Specifications:</p> <ul style="list-style-type: none"> <li>• Simultaneous recording for atleast 12 and more parameters.</li> <li>• High sampling rate of 40 KHz or more</li> <li>• Should have Fully Isolated Stimulator for Constant current &amp; Voltage stimulation output range (0-20 mA) with pulse</li> </ul>			01 pc														
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		<p>duration: 50–200 <math>\mu</math>s.</p> <ul style="list-style-type: none"> <li>• Must have preferred parameters for wireless monitoring ECG, SP02, PPG, Respiration, GSR and Temperature with data logging on 8 GB and real time acquisition &amp; Analysis mode.</li> <li>• The software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. Also should have sample data for animal experiments for demonstrating to the students.</li> <li>• Facility for automatic analysis in while data recording and after recording for ECG, Heart Rate Variability, Blood Pressure, Peak analysis, Spectrum analysis, etc.</li> <li>• Should have option for Mathematical function and Statistical analysis and export options to other software like MATLAB, Excel, QuickTime, Wav, Text etc for desired interpretation of the data.</li> </ul>																
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		<ul style="list-style-type: none"> <li>The software should provide an easy file sharing option to a distant user with-out involving any cost with a 5 year of free updates and upgrade.</li> <li>Compatible Desktop Computer (I3, 4GB RAM, 500GB HDD, 18 inch Monitor, Windows OS), Printer and 1kVa UPS.</li> <li>Documentations:- CE/FDA, ISO and other safety certificates must be provided.</li> <li>Manufacturer should have experience of Manufacturing &amp; Installation of the quoted product for atleast 05 years.</li> </ul>																
17	<b>Gas Analysis Apparatus, Halda ne's students type:</b>	<ul style="list-style-type: none"> <li>Should be supplied with multichannel recording unit with a range of +2 mV to +10 V</li> <li>Sampling rate of 100 KHz per channel and option for variable sampling speed on each channel.</li> <li>ADC resolution of 16 bits on all gain ranges.</li> <li>Facility for recording ECG leads (I, II, III, aVL, aVF, aVR and V1 to V6) for real time</li> </ul>			01 pc													

		<p>cardiac axis &amp; vector analysis etc.</p> <ul style="list-style-type: none"> <li>• Amplifiers &amp; Transducers for ECG, Spirometer with respiratory flow head and mouth pieces. Pulse , respiration rate, Heart rate , hand dynamometer, Blood pressure , heart sound etc.</li> <li>• The Software should calculate VE Expired minute volume , VO2 oxygen consumption , VCO2 carbon dioxide production , RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE / VO2), (VE / VCO2) etc. and should generates a number of graphs like Metabolic Log Window , VE (BTPS) vs. VO2, VE (BTPS) vs. VCO2, VCO2 vs. VO2, RER vs. time, VO2 vs. time, VCO2 vs. time , VE (BTPS) vs. time.</li> <li>• Accessories:- Mouth piece, head gear, tubing and flow</li> </ul>																
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		<p>sensors, mixing chamber connectors, ECG electrodes, cream, paste, filters and Douglas bags to be provided.</p> <ul style="list-style-type: none"> <li>• Compatible Computer/Laptop &amp; trolley should be provided.</li> <li>• Gas Analyzer should have an Oxygen sensor with minimum range of 5-100% oxygen and resolution of at least 0.02% &amp; the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least 0.1% and variable flow range of 0-185 ml/min for best performance and results and must have following specifications:-</li> <li>• Operating Temperature Range: +5 to 40°C</li> <li>• Humidity: 0 to 90% non-condensing</li> <li>• Warm-up time: 10 mins @ 20°C</li> <li>• Should be supplied with Gas Mixing Chamber , tubing and connecting tubings and cable.</li> <li>• Must have an</li> </ul>																	
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		<p>analogue outputs for connecting it to data recoding unit and software .</p> <ul style="list-style-type: none"> <li>• The instrument should be approved to IEC, CE &amp; ISO and other safety standards.</li> <li>• Manufacturer should have experience of Manufacturing &amp; Installation of the quoted product for atleast 05 years. Documentary proof should be attached.</li> </ul>																	
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*(Undertaking to be submitted on Rs.100/- Non judicial stamp paper)*

**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 rate/s quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rate/s quoted are the lowest quoted for any other institutional hospital in India.
- c.** The earnest money Rs (Rupees \_\_\_\_\_ only) to be deposited by me has been enclosed herewith vide Demand Draft no. ----- dated ----- drawn on national bank ----- at ----- branch.
- d.** I/We give the rights to DEAN to forfeit the security money deposited by me/ us, or impose any penalty /recovery as deemed fit, if any delay occur on my part or failed to supply the article within the appointed time or the lenses of desired quality/quantity.
- e.** There is no vigilance/ CBI case or court case pending against the firm.
- g.** I hereby certify that none of the family member (s) is /are employed in ESIC as per details given in the tender document. In case at any stage, it is found that information given by me is false/incorrect, ESIC Medical College & Hospital, Joka, Kolkata, shall have the absolute right to take any action as deemed fit without any prior intimation to me.
- h.** I have not been blacklisted by any firm/institutions
- i.** In case of my supply declared substandard by any approved agency, I/we am/are liable for appropriate action

Date:

Place:

Signature of the Tenderer

Full Name & Designation  
(Office seal of the Tenderer)

**AUTHORITY LETTER**

Date: \_\_\_\_\_

(Authority letter to be issued by the manufacturer in its letter head for appointing Distributor/Dealer/Agent etc. to participate in the tender as below)

Reference : Tender  
No .....  
Item\’s  
quoted .....

Due  
on .....

I/we the undersigned who is/are authorized signatory/signatories of the manufacturing firm M/s. \_\_\_\_\_  
Address \_\_\_\_\_

with respect to reference to the above mentioned tender do here by  
Authorize

M/s. \_\_\_\_\_ Address \_\_\_\_\_

to Bid, Negotiate and conclude the contract with respect to the above mentioned tender, Also to supply items, collect the orders, raise the bills for the items manufactured by me/us as quoted in the tender. I/we have not authorized any other Distributor/Agents/Dealer etc. for this purpose.

I/we have gone through all the terms and conditions of the tender and will be binding on me/us and also on the Distributor/Dealer/Agent M/s. \_\_\_\_\_

contract \_\_\_\_\_ period including extension period of the said contract.

Authorized signatory of the firm  
(Rubber stamp)

NOTE:

1. This letter of authorization should be on the letter head of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.
2. If the manufacturer is bidding itself in the tender, no authorization letter is required in case manufacturing having Retail billing right.

**LIST OF DOCUMENTS ENCLOSED:**

- 1.
- 2.
- 3.
- 4.
- 5.

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(Attach separate sheets if required)

Date:

Place:

Signature & Seal of the Tenderer  
Full Name of the Tenderer:

Proforma for quoting rates for list of consumables and accessories which are not covered under CMC , if any								
(A)	(B)		©	(D)	(E)	(F)	(G)	
SL. NO.	NAME OF EQUIPMENT & INSTRUMENT	Specification	Make/Model No. (to be filled in by tenderers)	Company /Manufacturer (to be filled in by tenderers)	REQUIREMENTS /QTY(FOR ESI-PGIMSR, JOKA)	Name of consumables and accessories which are not covered under CMC , if any	Cost Per Unit (Base Rate) (Rs.)	G.S.T (%)
<b>DEPARTMENT OF EMERGENCY LAB</b>								
1	Fully Automated Clinical Chemistry Analyzer				1			
<b>DEPARTMENT OF PHYSIOTHERAPY</b>								
2	High power laser therapy Unit (against condemnation)				01 pc (against condemnation of Laser Therapy unit BTL 5110)			



3	Combination therapy Unit (01 pc new demand & 01 pc against condemnation of Ultrasound therapy unit- BTL 4815S)				2 pcs (01 pc new demand & 01 pc against condemnation of Ultrasound therapy unit- BTL 4815S)			
<b>DEPARTMENT OF ICU</b>								
4	ICU Ventilator (against condemnation)				03 pcs (against condemnation of ICU Ventilator Brand -MAQUET)			
5	Ambulatory PCA Pump:				10			

6	OT Light (against condemnation)				4			
7	NIV Machine (against condemnation)				1			
8	ETO (Ethylene oxide) Sterilizer (against condemnation of High Pressure Sterilizer Make - Reico, Model - HR224)				1			

9	Fully Automatic surgical gauze folding and cutting machine				1			
<b>DEPARTMENT OF RADIOLOGY</b>								
10	USG Machine				2			
11	Retrofit Flat Panel Detector System For Upgrading existing X-RAY System to Digital Radiography				01 pc			
12	Image Recording Systems (Cassettes & Image Plates):				01 pc			



16	Polygraph Multichannel				1			
17	Gas Analysis Apparatus, Hal- dane's students type:				1			