



**OFFICE OF THE CHIEF EXECUTIVE OFFICER,  
SHRI MATA VAISHNO DEVI SHRINE BOARD,**  
Central Office, Jammu Road, Katra (J&K) – 182301  
Fax: +91- 1991-232120

**E-mail: nes\_purchase@maavaishnodevi.net, aceog@maavaishnodevi.net**

**Notice Inviting e-Tender**

**e-NIT No. CO/Pur/NE/612/3702, Dated: 25.07.2024**

e-Tenders on the prescribed format are invited on behalf of Shri Mata Vaishno Devi Shrine Board through its Chief Executive Officer from the reputed suppliers / manufacturers for **finalization of Rate Contract** for the Supply, Installation, Testing, Commissioning and post-warranty Comprehensive Annual Maintenance Contract for a period of 05 years of Machinery and Equipment required for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal

<b>S. No</b>	<b>Particulars</b>	<b>EMD (in Rs.)</b>	<b>Tender Fee (in Rs.)</b>
1.	Supply, Installation, Testing, Commissioning and post-warranty Comprehensive Annual Maintenance for the period of 05 years of Machinery and Equipment required for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal. <b>(Group A – High End Medical Equipments)</b>	10.00 Lakh	2,500/-

The e-NIT consisting of Qualifying Information, Eligibility Criteria, Specifications, indicative Bill of Quantities, (B.O.Q), set of Terms & Conditions of Contract and other details can be seen / downloaded from the websites:- <http://jktenders.gov.in> & [www.maavaishnodevi.org](http://www.maavaishnodevi.org) as per following:

Publishing Date	<b>25.07.2024 at 4:30 PM</b>
Download Start Date	<b>25.07.2024 at 4:45 PM</b>
Pre-Bid Conference	<b>02.08.2024 at 12:00 Noon</b>
Bid Submission Start Date	<b>03.08.2024 at 12:00 Noon</b>
Bid submission End Date (Online)	<b>14.08.2024 at 02:00 PM</b>
Submission of Hard Copy (end) date and time	<b>14.08.2024 upto 04:00 PM</b>
Date of Opening of Technical Bid (Online)	<b>16.08.2024 at 04:00 PM (In Office of the Asstt. Chief Executive Officer (G), SMVDSB, Katra)</b>

The tender must accompany an earnest money in the form of CDR / FDR / TDR of the amount mentioned above drawn from any Nationalized / scheduled Bank duly pledged to the Accounts Officer, Shri Mata Vaishno Devi Charitable Society, Katra and Tender Fee of Rs. 2,500/- (Two Thousand Five Hundred only) either in the form of DD pledged to Accounts Officer, SMVDCS, Katra or can be deposited in the official account of Shri Mata Vaishno Devi Charitable Society Branch J&K Bank Katra, Account No. **50100417566279, IFSC – HDFC0002344**. The bidder shall mention UTR No. in the prescribed Technical Bid Form at **Annexure-‘A’**. Complete bidding process will be done online on e-Tender portal [www.jktenders.gov.in](http://www.jktenders.gov.in). However, the bid document shall be available on official website of SMVDSB ([www.maavaishnodevi.org](http://www.maavaishnodevi.org)) for reference only. The tenders be submitted strictly in accordance with the provisions of the detailed e-NIT. **The bidder shall submit the hardcopies of the uploaded documents in the Tender Box kept at Central Office, SMVDSB, Katra by or before 14.08.2024 upto 04:00 PM.**

**Sd/-  
(Dr. Gopal K Sharma)  
Asstt. Chief Executive Officer**

## **Instruction to Bidders regarding e-Tendering process:**

1. The interested bidder can download the e-NIT / bidding document from the website [www.jktenders.gov.in](http://www.jktenders.gov.in) & [www.maavaishnodevi.org](http://www.maavaishnodevi.org).
2. To participate in bidding process, bidders have to get (DSC) "Digital Signature Certificate" as per information Technology Act-2000, to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mentioned digital certificate from any approved vendors.
3. The Bidders, who already possess valid (DSC) Digital Signature Certificates, need not to procure new Digital Signature Certificate.
4. The bidders have to submit their bids online in electronic format with Digital Signature. The bids cannot be uploaded without Digital Signature. No Proposal will be accepted in physical form.
5. Bids will be opened online as per time schedule mentioned in the e-NIT.
6. Before submission of online bids, bidders must ensure that scanned copies of all the necessary documents have been attached with bid.
7. The SMVDSB will not be responsible for delay in online submission of bids whatsoever reasons may be.
8. All the required information for bid must be filled and submitted online.
9. Bidders must attach scanned copies of all documents & EMD as specified in the tender documents.
10. The details of cost of documents, EMD specified in the tender documents should be the same, as submitted online (scanned copies) otherwise bid will not be accepted.
11. Bidders are advised to use "My Documents" area in their user on <http://jktenders.gov.in>, e-tendering portal to store important documents like Balance sheet, GST Registration Certificate, Tax Clearance Certificate, IT certificate, and other related documents etc., and attach these certificates as non-statutory documents while submitting their bids.
12. Bidders are advised not to make any change in BOQ (Bill of Quantities) contents or its name. In no case they should attempt to create similar BOQ manually. The BOQ downloaded should be used for filling the item rate as prescribed and it should be saved with the same as it contains.
13. Bidders are advised to scan their documents at 100 DPI (Dots per Inch) resolutions with Black and White, PDF \ Scan properly.
14. The guidelines for submission of bid online can be downloaded from the website <http://www.jktenders.gov.in> & [www.maavaishnodevi.org](http://www.maavaishnodevi.org)
15. The Tenderer(s) should carefully study the document and prepare his tender with consideration of all provisions of the document. He should fully acquaint himself / herself with site conditions and all other factors which may influence preparation of his tender.

**Sd/-**  
**(Dr. Gopal K Sharma)**  
**Asstt. Chief Executive Officer**

**No: - CO/Pur/NE/612/3702**

**Dated: 25.07.2024**

**Copy to the:**

1. Chief Executive Officer, SMVDSB, Katra.
2. Addl. Chief Executive Officer, SMVDSB, Katra.
3. Accounts Officer, SMVDCS, Katra.
4. Dy. Manager (IT), SMVDSB, Katra with the request to generate link for pre-bid conference to be held on 02.08.2024.
5. Concerned file / Master file.



**OFFICE OF THE CHIEF EXECUTIVE OFFICER,  
SHRI MATA VAISHNO DEVI SHRINE BOARD,**

Central Office, Jammu Road, Katra (J&K) – 182301

Fax: +91- 1991-232120 Tel.: +91-1991-232189

**E-mail: nes\_purchase@maavaishnodevi.net, ddm@maavaishnodevi.net**

**Notice Inviting e-Tender**

**e-NIT No. CO/Pur/NE/612/3702, Dated: 25.07.2024**

**SUBJECT:** Notice inviting E-Tender on the prescribed format duly affixed with Revenue Stamp worth Rupees Six only are invited on behalf of Shri Mata Vaishno Devi Shrine Board through its Chief Executive Officer are invited the reputed suppliers / manufacturers for finalization of Rate Contract for the Supply, Installation, Testing, Commissioning and post-warranty Comprehensive Annual Maintenance for the period of 05 years of Machinery and Equipment required for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal:

**1. REQUIREMENT:**

For and on behalf of SMVDSB, through its CEO, SMVDSB, e-Tender affixed with e-Stamp under Two Bids System are invited from the reputed suppliers / manufacturers for finalization of Rate Contract for the Supply, Installation, Testing, Commissioning and post-warranty Comprehensive Annual Maintenance for the period of 05 years of Machinery and Equipment required for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal. The detailed Tender Document with full description and Terms and Conditions is available at [www.jktenders.gov.in](http://www.jktenders.gov.in) & [www.maavaishnodevi.org](http://www.maavaishnodevi.org)

**2. TENDER SCHEDULE:**

Publishing Date	<b>25.07.2024 at 4:30 PM</b>
Download Start Date	<b>25.07.2024 at 4:45 PM</b>
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Date of Opening of Technical Bid (Online)	<b>16.08.2024 at 04:00 PM (In Office of the Asstt. Chief Executive Officer (G), SMVDSB, Katra)</b>

**3. ELIGIBILITY CRITERIA:**

- All the demanded equipment should have United States Food and Drug Administration (USFDA) / European CE certification Notified Body/CE and ISO 9001:2015, ISO 13485:2016, ISO 8655-1:2022, ISO 7153-1: 2016, ISO 14001:2015, ISO 14937:2009, ISO 45001:2018, ISO 50001:2018, WHO-GMP, IEC 61010-1:2010, Production Capacity certificate) besides others mentioned in the specifications.
- The bidder must have an experience of minimum 03 years for the supply of medical machines / equipments to Government Medical Colleges, Government Universities/ Institutes of National Importance as on 31 March, 2024.

- c) Average Annual turnover of the bidder should be more than **Rs. 4.00 Crore** for the last three financial years (**2021-22, 2022-23 & 2023-24**) as per the annual audited balance sheet and profit & loss account of the relevant period duly authenticated by a Chartered Accountant (The turnover of the sister concern firms / subsidiaries shall not be considered by Shrine Board).
- d) The bidder must have sound financial background and a certificate from Chartered Accountant for positive Net Worth be submitted for the last three financial years (**2021-22, 2022-23 & 2023-24**). Further, in case the final accounts i.e. Profit & Loss, Balance Sheet for FY- 2023-24 is under audit process, the bidder may attach the P&L, Balance Sheet for F. Y. 2020-21.
- e) The bidder should be an Income Tax Payee.
- f) The bidder must be an authorized distributor / dealer / supplier of the medical machines / equipments.
- g) The Authorized signatory of bidder must attach / upload an affidavit on stamp paper duly attested by 1<sup>st</sup> Class Magistrate to the effect that:
  - i. The documents catalogue etc. enclosed with the e-tender are genuine and have not been tampered or fabricated.
  - ii. The firm has not been blacklisted in the past by any Govt/ Private institution of the country.
  - iii. If anything found wrong at any stage, I will be personally responsible for the same.
- h) The bidder must attach / upload the copies of following with bid document:
  - i) Pan card
  - ii) GST registration certificate.
  - iii) Income Tax Return, Balance Sheet, Profit & Loss Account for the last three years.
  - iv) **Declaration Certificate:** Declaration Certificate that no case is pending with the police / court against the bidder / firm / company /Agency and not been suspended / blacklisted by any PSU / Government Department / Financial Institution / Court etc (**as per annexure C**).
  - v) **No Deviation Certificate:** - No Deviation Certificate (as per **Annexure – D**).
  - vi) Undertaking (**as per Annexure-E**).
  - vii) Authorization Certificate from Principal Manufacturer, if applicable (**as per Annexure-F**).
  - viii) Assurance Certificate from Principal Manufacturer, if applicable (**as per Annexure-G**)

4. **PROCEDURE FOR SUBMISSION OF TENDER:**

Bidders are invited to submit Bids for “**e-Notice Inviting Tender (e-NIT) for the procurement of Machinery and Equipment (High End) required for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal**” in two parts viz. Technical Bid (**Annexure-‘A’**) and Financial Bid (**refers to BoQ Online only**) as per enclosed proforma along with supporting documents, application fee, EMD etc. The Tenderers are required to submit their tenders under 2 bids system with Cover-I (Technical Bid) and Cover-II (Price Bid).

**A. Cover-I (Technical Bid)**

**(This cover shall contain): -**

- (i) **Annexure-‘A’** form duly filled in along with relevant documentary proofs.

- (ii) Scanned copies of EMD in the shape of CDR / FDR pledged to Accounts Officer, SMVDCS. However, EMD in original shall be submitted along-with the technical bid document.
- (iii) Tender Fee of **Rs. 2,500/-** either in the form of DD pledged to the Accounts Officer, SMVDCS, Katra or to be deposited in the official account of Shri Mata Vaishno Devi Charitable Society, Branch J&K Bank Katra, Account No. **50100417566279, IFSC – HDFC0002344(in IFSC Code “0” stands for Zero)**. The bidder shall mention UTR No. in the prescribed Technical Bid Form at **Annexure- ‘A’**
- (iv) Tender Document containing Instructions, **Terms and Conditions duly signed** on each leaf by the Tenderer, along with documentary proof wherever required.

**B. Cover II (Price Bids):**

- (i) The bidder shall quote price separately for the Supply, Installation, Testing and Commissioning of machinery / equipments and Comprehensive Annual Maintenance for a period of 05 years after the expiry of Warranty / DLP period. The prices have to be submitted **online** in the form of BOQ only.
- (ii) The bidding firm shall have to quote all-inclusive rates F.O.R. site (including taxes, freight, transportation, loading / unloading, etc. i.e. without any exclusions). A single cumulative price (including SITC & CAMC for 5 years) shall serve as the competition platform for the technically qualified bidders.
- (iii) The price bid should be absolute and unconditional.
- (iv) Conditional bids shall be rejected.
- (v) The price bid shall be opened in favour of bidders who qualify in the technical bid. Rates are required to be quoted strictly as per prescribed BOQ/item of works.
- (vi) Price bids not conforming to above standards or suffering from any flaw shall be rejected

**5. SELECTION CRITERIA:**

- i. In the first stage of evaluation, offer shall be rejected, if found deficient as per the requirements of Tender / Bid Processing Fee and other eligibility criteria. Only bids confirming the e-NIT conditions shall be further taken up for evaluation. Evaluation of the technical Bid will start first. The bidder qualifying the technical bid shall only be admitted in process of financial bid evaluation.
- ii. Financial bids of the technically qualified bidders shall be opened and the bidder offering lowest rates cumulatively for the cost of SITC of machinery / equipments and cost of CAMC for the period of 05 years shall be emerged as L-1 bidder and can be considered for the allotment of the contract. In-case of the tie in rates, revised sealed bid can be obtained on the spot and the bidder offering lowest rates shall be considered for the allotment of the contract. In-case of tie in the second instance as well, it shall be decided by the process of “draw of lots”.
- iii. The Shrine Board reserve the right to negotiate the quoted rates, terms & conditions with the lowest tenderer or any of the other tenderers on quality basis to ascertain the suitability of the acceptance offer.

**6. PRE-BID CONFERENCE:**

A pre-bid conference will be held on **02.08.2024 at 12:00 Noon** at Conference Hall, SGC, Katra. The prospective bidders are requested to preferably send their queries at-least 02 days in advance before scheduled pre-bid meeting on e-mail ID nes\_purchase@maavaishnodevi.net. Further, in case, any of the prospective bidder(s) intends to join the pre-bid conference through online mode, they shall forward their request on the official e-mail ID nes\_purchase@maavaishnodevi.net by or before 31.07.2024. **Shrine Board reserves the right to modify the terms & conditions of e-NIT after the pre-bid conference in view of any practical modalities which may emerge during the pre-bid meeting.**

7. **GENERAL TERMS & CONDITIONS:**

- i. The list of medical machines / equipments alongwith detailed specifications **(Annexure-B)**.
- ii. The quantity of the material is indicative in nature and can be increased or decreased during the period of Contract.
- iii. The Technical Bid should be accompanied by a copy of e-NIT with each page duly signed by the authorized signatory of the bidder(s), who has signed the tender document, as a token of acceptance of the terms and conditions of the e-NIT otherwise, bid(s) shall not be considered.
- iv. The validity of the bid shall remain valid for 90 days from the last date of submission of bid document.
- v. For imported goods, prices shall be quoted in any freely convertible currency say Dollar, Euro, GBP or Yen. As regard price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed/undertaken in India. Commission for Agent, if any and if payable shall be indicated in the space provided in the price schedule. The prices for comparison (only) shall be taken as the prevailing rates on the day of opening of tenders.
- vi. The documents, asked in original should be page marked and bearing signature with seal on each and every page.
- vii. The tenderer supplying indigenous goods or already imported goods shall quote in Indian Currency only.
- viii. Tender where prices are quoted in any other way shall be treated as non-responsive and rejected. It will be mandatory on part of the tenderer to ensure that the rates quoted are not variable as are quoted in other Govt. Institutes of J&K State at least during the current financial year. If at any stage it is found that the supplier has executed the supplies or has quoted the rates lower than the approved ones, the differential amount shall be recouped from the supplier and further orders shall be placed on lower rates only.
- ix. The rates quoted should be F.O.R. Katra and inclusive of all taxes, duties, other charges like packing, transportation etc. Including entry tax, if any. No separate Tax/Levies shall be allowed. The rates should be quoted in accordance with the BOQ through online mode only.
- x. No conditional tender shall be accepted. The authority reserves right to accept or reject any tender/ quotation without assigning any reasons thereof.
- xi. The approved firm shall be bound to deliver ordered Machinery and Equipment within 8 weeks or a period mutually agreed up by the authorities.
- xii. The successful tenderer shall be responsible for execution of the supplies strictly in accordance with the contract in full and shall not in any case assign or sublet any part thereof. Deviation, if any can lead to forfeiture of Earnest money with holding of other deposits in Accounts Section as a whole or even black listing of the suppliers/ firms/ dealers/original manufacture.
- xiii. If in case the tenderer fails to supply the material within the delivery period, the order will be liable to be treated cancelled and earnest money shall be forfeited.
- xiv. Rates should be quoted for the superior quality material only with Nomenclature/ catalogue duly marked with seal & signature of the firms.
- xv. In case any Tenderer, if charges higher rates for any item(s) more than the MRP, the action like forfeitures of earnest money/security money/ performance bank guarantee and removal of name from the list of the supplier shall be taken against the firm.
- xvi. The Successful tenderer is bound to supply the material on the approved rates. Any hike in tax on later stage will not be paid if not levied by the J&K Govt. However, in the event of any revision in the existing rates of duties or introduction of any statutory duty and taxes imposed by the Government, the same will be paid extra on production of satisfactory documentary proof.
- xvii. The successful bidder shall carefully examine the conditions, specifications, size and Catalogue/drawings etc. of the goods to be supplied wherever

- applicable. In case of any doubts, the successful bidder shall before sign the contract refers to the competent authority and get clarifications.
- xviii. If at any stage during the tenure of the tender the successful tenderer reduces the sales price lower than the quoted rates under agreement will forthwith notify such reductions of the sale price to the competent authority immediately.
  - xix. All terms and conditions of tender shall conform part of the supply order/agreement.
  - xx. Each machine / equipment quoted shall be under warranty of five years from the date of installation and its successful commissioning at required site. The details of Comprehensive Maintenance Contract for the period of 05 years **(including spares)** after the warranty period shall also be mentioned. Any condition mentioned against each item in the list of items in tender document shall also be the part of the terms & conditions.
  - xxi. The successful tenderer should ensure immediate supplies after issuance of Supply order and they are bound to supply material strictly as per the conditions approved by the Authority. If at any stage it is found that material supplied by the firms is not according to, as approved by the Authority, the action as deemed fit will be taken against the firm.
  - xxii. The competent authority shall also have right to alter/ modify the specifications of any item(s) for purchasing in the best interest of the SMVDSB during the process of finalization of a contract viz. Placement of supply order.
  - xxiii. All the items supplied shall be of the best quality, specification, trade mark and in accordance with the approved standard, catalogue, samples if provided. In case of any articles supplied not being approved, shall be liable to be rejected or replaced and any expenses as a result of rejection or replacement of supplies, shall be entirely at the cost of tenderer.
  - xxiv. The tenderer shall be responsible for the proper packing, so as to avoid damage under normal conditions of transport by rail, road or air and delivery of material in good condition to the consignee at the destination. In the event of any loss, damage, breakage, leakage or any shortage, the tenderer shall be liable to make good such loss and shortage found at the checking/ inspection/ verification of the materials by the consignee, no extra cost on such account shall be admissible.
  - xxv. The supplies shall be accepted only in proper packing where-ever required.
  - xxvi. **Performance Bank Guarantee:** The Successful bidder shall furnish Performance Bank Guarantee (PBG) pledged to Accounts Officer, SMVD Charitable Society, Katra for an amount equals to 5% of the Contract Value as Security Deposit within a period of 20 days from the issuance of Letter of Award and the same shall be released after successfully completion of Comprehensive Annual Maintenance Contract of 05 years. The EMD of the Successful bidder shall be returned within 15 days of submission of Security Deposit.
  - xxvii. **Down Time:** The engineer for servicing of the equipment shall be deputed within 48 hours of report from the concerned authorities and for any spare part required, same shall be arranged by the successful bidder at its own cost.
  - xxviii. The equipment to be supplied shall have to be guaranteed for **95% uptime** by the tenderer during the warranty period. The period during which the equipment remains non-functional or unserviceable for want of engineer or non-availability of spare parts shall not be counted towards the guarantee period and has to be extended accordingly by that period. (1 day down = 1day extended) besides the competent authority shall be at liberty to impose suitable penalty upto Rs.4,000/- per day.
  - xxix. The original manufacturer shall undertake that they will also remain responsible for after sale services for the supplies executed by the tenderer on their behalf.
  - xxx. No advance payment shall be authorized unless required under specific terms & conditions. For the purpose of payment, the supply shall mean full supply of the ordered material and no requests for on-account payment shall be entertained.

- xxxi. Any other condition that is not indicated here can be incorporated in the supply order or agreement before execution of a contract if need arises.
- xxxii. Any changes/corrigendum/extension of closing / opening dates in respect of this e-NIT shall be issued **through SMVDSB's website, or e-publishing portal only and no press notification will be issued in this regard. The bidder(s) are therefore requested to regularly visit SMVDSB's website and e-publishing portal for updates.**
- xxxiii. In case of rejection of the bid(s) due to incomplete information or not meeting the terms & conditions mentioned in e-NIT, the competent authority's decision will be final and the bidder shall not be entitled to any compensation for non-issue of work.
- xxxiv. In case of any document attached found forged/tampered, the bidder (s) is likely to face legal action against them under rules including forfeiture of their earnest money and debarred to participate in the tendering process of SMVDSB for the period of 03 years.
- xxxv. After the successful culmination of tender, if the successful bidder(s) refuses to comply with the rate approval order and subsequently failed to comply the supply orders on account of any reason, the same bidder(s) shall be debarred from further dealing with the Board for a period of 03 years and forfeiture of Performance Security.
- xxxvi. SMVDSB reserves the right to allot the Contract to one or more firms on the same rates / terms and conditions after the successful culmination of e-NIT.
- xxxvii. SMVDSB reserves the right to seek clarifications or additional information/documents from any bidder regarding its technical bid. Such clarification(s) or additional information/document(s) shall be provided within the time specified for the purpose. Any request / response thereafter shall not be considered and the proposal shall be liable to be rejected.
- xxxviii. SMVDSB reserves the right to negotiate the rates offered, terms and conditions with the lowest bidder or any of the bidder on quality basis to ascertain the suitability of the acceptable offer.
- xxxix. It is clearly understood by the parties that no financial liability of any type is created by issuance of the letter of Award.
  - xl. SMVDSB reserves the right to modify/change/delete/add any further terms and conditions prior to the issue of work order.

8. **TERMS OF CONTRACT**

- a) **Period of Contract:** The rates contract shall remain valid for a period of one year from the date of its issuance and can be further mutually extended for a period of 90 more days.
- b) **Contract Agreement:** The successful bidder shall be bound to execute an agreement on non- judicial stamp paper of Rs. 500/- (Five hundred only). The SMVDSB reserves the right to amend the terms & conditions of contract by mutual discussions and shall be in writing. The amended terms and condition will form part of the agreement.
- c) **Sub-Contracting:** The successful bidder shall not assign, sub-contract or sub-let the whole or any part of the contract in any manner.
- d) SMVDSB also reserves the right to modify the Terms and Conditions of the e-NIT at any time.
- e) **Delivery Period:** The successful bidder has to execute all the Purchase Orders against this Rate Contract, within the stipulated time frame.

9. **PENALTY:** In case of delay in executing the SITC orders issued against the Rate Contract, a Penalty @1% of order amount per week of delay shall be imposed, subject to a maximum penalty amount of 10% of the order value, beyond which the order shall be cancelled and the PBG forfeited.

10. **BILLING AND PAYMENTS:**

- (i) No advance payments shall be made.



- (ii) The payment to the successful bidder(s) shall be made in the following manner:
  - a) 80% payment (excluding cost of Comprehensive Annual Maintenance Contract) shall be made against full supply of order material against certificate of Executive Director, Medical College, Kakryal.
  - b) 20% payment shall be made after successful installation, testing, commissioning and handover of equipment(s) to the end users against certificate to be issued by Executive Director, Medical College, Kakryal.
  - c) The Comprehensive Annual Maintenance Charges shall be paid in 05 Annual equal instalments at the end of each year of CAMC coverage.
- (iii) The supplier shall have to mention the GST No. 01ABIAS9784P1ZK of Shri Mata Vaishno Devi Charitable Society, Katra while raising their bill of supplies. While filing GSTR-I, the supplier shall classify the supply / Service made to Shrine Board under Business (B to B) Sales. The supplier shall also mention six digit HSN code of the material to be supplied. In case the vendor doesn't upload / mention the bill under B to B, the GST amount levied in the Bill shall not be paid.
- (iv) The supplier shall file GSTR 1 and 3B within the due dates prescribed under the CGST / SGST Act 2017 so as to enable SMVDSB to claim timely input credit. In case of default, interest @2% per-month of tax amount shall be charged and recovered from the defaulting supplier.
- (v) In case of quarterly based GST filling firms, the supplier shall have to transfer their bills (B to B) on monthly bases under Invoice Furnishing Facility (IFF).

11. **INSPECTION / LIFTING BACK OF REJECTED SUPPLIES:**

- i. The supplied machines / equipments shall be checked / inspected by the team nominated by the authorities and if found defective or not as ordered, the same shall be rejected at the sole risk of vendor.
- ii. The rejected material shall have to be lifted by the supplier at his own risk and cost within a week's time failing which storage charges per day as may be deemed fit by the authority shall be levied. Beyond one month the material shall be auctioned and storage charges shall be recovered from the supplier @2% per day.

12. **TERMINATION OF CONTRACT:**

If the successful bidder fails to execute the SITC orders within the stipulated time or violates the terms and conditions of the e-NIT. The rate contract is liable to be cancelled by the competent authority. In such an eventuality, no compensation / damages, whatsoever shall be payable to the successful bidder.

13. **ARBITRATION:**

All disputes and differences between the parties hereto shall be referred to the sole arbitration of the person to be nominated and appointed by the **Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board**, whose decision shall be final and binding upon the parties to this agreement. The provision of The Arbitration and Conciliation Act, 1996 shall apply. Courts at Jammu only shall have the jurisdiction to entertain any legal proceeding arising out of this contract.

14. **FORCE MAJEURE:**

Any failure or omission to carry out the provisions of the order shall not give rise to any claim by one party against the other, if such failure or omission arises from an "Act of God" which shall include all acts of Natural Calamities such as fire, flood, earthquakes, hurricanes or any pestilences or from civil strikes, compliances with any statute or regulations of the Government lock outs and strikes, riots,

embargoes or from any other reasons beyond the control of the parties including the war (Whether declared or not) Civil War or State of Insurrection.

**Queries may be addressed to:**

1. Executive Director, Medical College, Kakryal  
E-Mail: [edir.smvdime@maavaishnodevi.net](mailto:edir.smvdime@maavaishnodevi.net)  
Contact No. 9906035050
2. Asstt. Chief Executive Officer (G), SMVDSB  
E-Mail: [aceog@maavaishnodevi.net](mailto:aceog@maavaishnodevi.net)  
Contact No. 9906019466

**No.: CO/Pur/NE/612/3702**  
**Dated: 25.07.2024**

**(Dr. Gopal K Sharma)**  
**Asstt. Chief Executive Officer**

**(Technical Bid)**

**(To be submitted on the letterhead of the Agency)  
FOR SUPPLY OF MACHINES / EQUIPMENTS TO SHRI MATA VAISHNO DEVI  
SHRINE BOARD, KATRA**

**Name of the Tenderer:** \_\_\_\_\_

**Detail of Tender Fee:**

a) UTR No. \_\_\_\_\_ date \_\_\_\_\_ Amount \_\_\_\_\_

**Detail of EMD:**

EMD in the form of CDR/FDR/TDR No. \_\_\_\_\_, Amount: \_\_\_\_\_

Date: \_\_\_\_\_, Bank \_\_\_\_\_, Branch \_\_\_\_\_

To,

**The Chief Executive Officer,  
Shri Mata Vaishno Devi Shrine Board,  
Katra.**

Sir,

I hereby submit my tender / bid for supplying medical machines / equipments for Shri Mata Vaishno Devi Shrine as mentioned in the **Clause No. 03 of the e-NIT**. The detail of the particulars submitted through online mode and in a hardcopy format is as produced below:

<b>S. No.</b>	<b>Particulars</b>	<b>Attached/Not Attached</b>
1.	Name of the Supplier / Manufacturer with Address (telephone number/Mobile No.) along with brief description of background.	
2.	Authorized dealer / distributor / supplier of medical machines / equipments certificate.	
3.	Experience of supply of Medical machines / equipments to Government Medical Colleges, Government Universities/ Institutes of National Importance for not less than 03 years as on 31 March, 2024 (Attach relevant copies of work order).	
4.	Affidavit on stamp paper dully attested by 1 <sup>st</sup> Class Magistrate	
5.	Average Annual turnover for the last three years (2021-22, 2022-23 & 2023-24). (Proof to be enclosed)	
6.	The tenderer must have sound financial background and a positive net worth for the last three years (2021-22, 2022-23 & 2023-24). (Proof to be enclosed)	
7.	Audited Balance sheet for the last 03 years 2021-22, 2022-23 & 2023-24.	
8.	a) PAN (proof to be enclosed) b) ITR statement/ Income Tax Assessment Order (for the last three years to be enclosed) i.e. 2021-22, 2022-23 & 2023-24. c) GST No. (proof to be enclosed)	
9.	Declaration Certificate (Annexure-C)	
10.	No Deviation Certificate (Annexure-D)	

<b>S. No.</b>	<b>Particulars</b>	<b>Attached/Not Attached</b>
11.	Undertaking (Annexure-E)	
12.	Authorization Certificate from Principal Manufacturer (Annexure-F)	
13.	Assurance Certificate from Principal Manufacturer (Annexure-G)	

Copies of documentary proof may be furnished where-ever required. Additional pages may be used, if needed.

**Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**R/o:** \_\_\_\_\_

**Contact No.:** \_\_\_\_\_

**Specifications of Medical Machines / Equipments:**

S. No.	ANATOMY
<b>Histology Laboratory</b>	
1	<p>Microscopes, Monocular/Binocular</p> <p><b>MONOCULAR CO-AXIAL RESEARCH MICROSCOPE:</b>            Unique Model incorporation latest COAXIAL coarse and fine focusing mechanism based on a 4- gear reduction system traveling on ball bearing guides with highly sensitivity fine motion with a graduation reading to 0. 002mm.The Co-axial system provides highest deg. of working convenience and precision. Sturdy and stable microscope stand with ball bearing Quadruple revolving nose piece turret on a dust-proof mount. Lifelong smooth and built in click stop brings each objective to a perfect alignment for a common center.            Large graduated mechanical stage (145x125mm) with low positioned co-axial central knobs for X &amp; Y movements and convenient manipulation. The microscope base has built in halogen 6V-20W illumination with oil illumination with on/off switch and continuously variable light intensity regulator for day-light has also been provided. A high-grade condenser system NA 1.25 with iris-diaphragm and swing out filter ring is adjustable through rack-n-pinion.            A high transmission monocular Observation head is inclined at 45 deg. with superior coated prismatic system. Best colour coated corrected parfocalled and centered optics are fitted.            Optical Combination:            Achromatic Objectives:4x/5x,10x,40x/45x,(SL) &amp; 100x (SL) Oil immersion            Eye Piece : WF.10x            Eye Pieces : 5x Huygenian            Packed in Thermocol and Wooden Box</p>
2	<p>Dissection microscope</p> <p><b>STUDENT DISSECTING MICROSCOPE:</b> A stable round base with square stage provided with jointed eyepiece carrier for free movement on the total stage area. With removable hand rests. Focus by rack-n-pinion. Two high pint 10x &amp; 20x eyepieces provided. complete with stage clips and Plano concave reflector. Packed in wooden box. This model has been constructed as per ISI Specifications.</p>
3	<p><b>Microtomes, rotary: -</b>  <b>ROTARY SENIOR MICROTOME (A.O. Spencer 820 Types)</b>            Streamlined standard equipment incorporated with latest technology for cutting serial sections in research work. The precise feed mechanism cuts sections from 1-50 microns in steps of one micron each.            Feed Adjustments: 1-50 microns. Total feed excursion 28mm with opening of object clamps 37x27mm. Overall dimensions 16x10x9" Complete with razor-120mm with back &amp; handle, honing plate, object holder set of three, oil can. Packed in a wooden box</p>
4	<p><b>Microtomes, Sledge, large cutting:-</b>            Sledge microtome/sliding microtome for cutting large blocks of paraffin and resin embedded material for material for light microscopy. The knife holding clamps shall allow the knife to be offset to the direction of cut, a major advantage when sectioning large, hard blocks. The microtome which is very heavy for stability and not usually subject to vibration, with a feed range of 0 –20 microns.</p>
<b>PHYSIOLOGY</b>	
1	<p><b>Polygraph Multichannel (Qty 1)</b>            The system should be able to record and analyse.</p> <ul style="list-style-type: none"> <li>• Pulse, PPG, blood pressure, ECG,EMG ,EEG,EOG Pulse Transit time, Forearm Plethysmography 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>• Deep breathing test, Valsalva Meneuver, Vascular function Testing.</li> <li>• Dynamometer to study Hand Grip Test.</li> <li>• Four channel balance board for static posturography or body Sway studies with same software.</li> </ul>

	<p><b>Hardware Specifications:</b></p> <ul style="list-style-type: none"> <li>• High Speed USB based 4 channel data acquisition System.</li> <li>• Simultaneous recording of real time for atleast 14 and more parameters.</li> <li>• High sampling rate of 100 KHz or more</li> <li>• Should have Inbuild Human safe 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>• Should have a noise free wireless multichannel ECG, R-R interval, Heart Rate, Skin temp, GSR, Respiration rate, SPO2, PPG Accelerometer activity integrated into the system.</li> <li>• The range of Wireless parameters should be 100 meters or above for real time recording and also have logging mode as well.</li> <li>• Both wired and wireless equipment should record and analyse simultaneously as well individually on same software.</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>• Lesson authoring/editing service must include content including predeveloped experimental protocols, background information on each experiment, transducer setup and data acquisition settings, and example data as per requirement of department.</li> <li>• It allows faculties to edit lessons/Experimenets online through mobiles, Tablets, PC etc and upload for students</li> <li>• Teaching software allows faculty to take assignment on same software and provide grading.</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>• Online and offline analysis of Heart variability in time domain and frequency domain on same software.</li> <li>• Should have option for Mathematical function, Statistical analysis and export options to other software like MATLAB, Excel, QuickTime, Wav, Text etc. online as well as offline for desired interpretation of the data.</li> <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>• All Equipment's wired &amp; Wireless should work on same Software simultaneously and individually as per the departmental need.</li> <li>• Compatible Desktop Computer (i5, 4GB RAM, 1TB HDD, 18 inch Monitor, Windows OS), Printer and 1kVa UPS.</li> <li>• Documentations:-IEC, CE marked /FDA, other safety certificates must be provided.</li> <li>• Manufacturer should have ISO certificate.</li> <li>• Manufacturer should have experience of Manufacturing &amp; Installation of the quoted product for atleast 05 years.</li> </ul>
2	<p><b>Gas Analysis Apparatus, Haldane's students type :</b></p> <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 VI to V6) for real time cardiac axis &amp; vector analysis on same software etc.</li> <li>• Online and offline Heart rate variability in frequency domain and time domain.</li> <li>• Software should generate automated HRV report with time domain and frequency domain parameters.</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, V02 oxygen consumption,</li> </ul>

	<p>VC02, carbon dioxide production, RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE I V02), (VE / VC02) etc. and should generates a number of graphs like Metabolic Log Window, VE (BTPS) vs. V02, VE (BTPS) vs. VC02, VC02 vs. V02, RER vs. time, V02 vs. time, VC02 vs. time, VE (BTPS) vs. time.</p> <ul style="list-style-type: none"> <li>Automated report with Subjects details ( Name, age, Sex, weight, height ) and environmental details.</li> <li>Accessories:-Mouth piece, head gear, tubing and flow sensors, mixing chamber connectors, ECG electrodes, cream, paste, filters and Douglas bags to be provided.</li> <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 0-10% 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» Operating Temperature Range: +5 to 40°C Humidity: 0 to 90% non-condensing 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 from manufacturer.</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>
3	<p>Sherrington Starling kymograph (electrically driven) <b>ELECTRICAL E-8 STUDENT KYMOGRAPH (Superior Quality)</b> :With special heavy duty motor, Oil lapped gear system jerk free running instantaneous start &amp; stop clutch ,stainless steel spindle screw lift.15x15cm.cylinder.</p>
4	<p><b>Automatic Gas Analyser O2,CO2, N2 with Bicycle Ergometer.</b></p> <ul style="list-style-type: none"> <li>The system should measure VO2, VCO2, RQ, VE, spirometry/ flow volume, etc.</li> <li>The system should supplied with Branded Compatible Computer I5 10<sup>th</sup> Generation, 8GB RAM, 1 TB HDD, Windows 10, MS office, Wi-Fi Bluetooth with Monitor, Lazer printer..</li> <li>Facility to perform online and offline complete heart rate variability analysis (Time &amp; Frequency domains), ECG interpretation, PQRST amplitudes and ST elevation analysis.</li> <li>To plot real time flow &amp; volume loops</li> <li>Facility for ECG (lead I, II, III, aVL, aVF, aVR and VI to V6) for real time cardiac axis and vector analysis.</li> <li>The system should be able to record &amp; measure VO2 oxygen consumption , VCO2 carbon dioxide production, VE Expired minute volume , 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 Metabolic graphs like VE vs VO2,VE vs VCO2,VCO2 vs VO2,RER vs Time, REE vs Time,VO2 vs Time,VCO2 vs Time, VE vs Time etc.</li> <li>Software should generate automatic report with the metabolic values and metabolic graphs mentioned above with Subjects details ( Name, age, Sex, weight, height ) and environmental details.</li> <li>Should have high sensitive oxygen and carbon dioxide sensor with adequate variable flow range for best performance and results. CO2 Sensor Type: Infrared, optical absorption Range: 0-10% CO2 Linear Output: 0-1V (0-10% CO2) Resolution: 0.1% CO2</li> <li>O2 Sensor Type: Visible spectrum (760 nm) Range: 0-100% O2 Linear Output: 0-1V (0-100% O2) Resolution: 0.01% O2</li> <li>Should have high sensitive oxygen, carbon dioxide sensor and nitrogen with adequate variable flow range for best performance and results.</li> <li>The system should simultaneously record and analyse all the required parameter in a single screen for interpretation and computation of results.</li> </ul>

	<ul style="list-style-type: none"> <li>• Should have a noise free wireless multichannel ECG, R-R interval, Heart Rate, Skin temp, GSR, Respiration rate, SPO2, PPG Accelerometer activity integrated into the system.</li> <li>• The range of Wireless parameters should be 100 meters or above for real time recording and also have logging mode as well.</li> <li>• Both wired and wireless equipment should records and analyse simultaneously as well individually on same software for recording and analysis.</li> <li>• The system should be provided with physical mixing chamber suitable for extremely high and low ventilation ranges.</li> <li>• Accessories:-Mouth piece, head gear, tubing and flow sensors, mixing chamber connectors, ECG electrodes, cream, paste, filters and Douglas bags to be provided.</li> <li>• Free Software upgrades and updates should be provided for next 5 years.</li> <li>• It should be supplied or interfaced with a compatible branded Bicycle Ergometer</li> <li>• System must be provided with Trolley to keep portable equipment Safety.</li> <li>• Manufacturer should have ISO certification for quality standards.</li> <li>• Should be US FDA/ European CE / IEC/BIS other safety standards approved product.</li> <li>• Demonstration of the equipment's and necessary training to be provided by the exports if required.</li> <li>• Manufacturer should have experience of Manufacturing &amp; Installation of the quoted product for at least 05 years. Documentary proof should be attached.</li> </ul>
5	<b>MOSSO'S ERGOGRAPH::</b> This is for recording work done on to the drum surface with special arm fixation rests sun-mica topped base board. complete with weight set .
6	<b>Bicycle Ergometer:-</b> <b>MARTIN BICYCLE ERGOGRAPH:</b> The cycle Frame is supported by a sturdy metallic frame, from the front of which two uprights ascend and carry a desk and a cross piece which provide for the attachment in from of the tension balances. The back wheel 168 cm. in circumference and about 22 kg. in weight carried in its circumference a stout calico the ends of which are at tached to spring balances through two set of adjustable pulleys. An adjustable counter records the revolutions of the wheel .With audio indication of each revolution.
7	<b>Ophthalmoscope:-</b> Consist of concave mirror with a hole in centre Matron ophthalmoscope three mirror 2 concave mirror 1 large and other is small Plane mirror for retinoscopy Three mirror attached that central hole come in same place Series of lenses Series of hole arranged to measure diameter of pupil Source light of light on back side
8	<b>Three channel physiograph</b> <b>Technical Specification:-</b> <ul style="list-style-type: none"> <li>• Should be able to record three channels with time and event channels.</li> <li>• Transducers should have 16 bit resolution.</li> <li>• Sampling rate should be 250, 500, 1000 samples / second.</li> <li>• Should have plug &amp; play Smart transducers for human applications including Pulse, Biopotential (ECG / EMG / EEG / EOG), Respiratory Belt, Cardio Microphone, Tendon hammer, Sphygmomanometer, Hand grip and Skin temperature.</li> <li>• Software should measure time interval between user selected points, display of data value at user selected point and tabulate for analysis.</li> <li>• The system should have contents with step by step instructions, protocol and experimental design for performing various experiments in physiology applications.</li> <li>• Should have sample data for human and animal experiments for demonstrating to the students.</li> <li>• Software should have inbuilt assessment facility with automatic grading option.</li> <li>• Software should support competency based learning and offer students to work in small groups and submit / save their work as PDF or printed report format.</li> <li>• The software should allow educators to customise / modify the experiments as required.</li> </ul>



	<ul style="list-style-type: none"> <li>• Software updates and upgrades should be provided for 5 years.</li> <li>• Compatible laptop should be supplied.</li> </ul> <p>Certification : ISO / CE / IEC / BIS should be provided</p>
9	<p><b>Student physiograph, (single channel) with accessories:-</b>  <b>Digital Physiograph</b>  Technical Specifications</p> <ul style="list-style-type: none"> <li>• The system should be able to record and analyse: <ul style="list-style-type: none"> <li>○ Pulse, Respiration, blood pressure, bio potentials, ECG recording multi leads facility along with Cardiac Vector Axis analysis.</li> <li>○ Dynamometer to study handgrip strength profile.</li> <li>○ Study Reaction Time, Pulse Transit Time and Peak waveform Analysis.</li> </ul> </li> <li>• Should have atleast 4 channels or more.</li> <li>• Range: +2mV to +10V and variable and high sampling rate of 400 KHz (aggregate speed).</li> <li>• ADC resolution: 16 bits on all gain ranges.</li> <li>• Transducers for recording of Blood Pressure, Heart sound, Heart rate, Pulse and Arm Plethysmography, Respiration Rate, Stethography, Hand grip test and Reflex tandon hammer and reaction times.</li> <li>• Balance board for static posturography and communicate via Bluetooth with the same software.</li> <li>• Forearm Plethysmograph for forearm Plethysmography in same software.</li> <li>• Inbuild Multichannel Bio-amplifier with electrodes (ECG, EMG, EEG, EOG, EGG etc)</li> <li>• Provided with built-in Isolated Human safe Current Stimulator atleast Output current: 0-20 mA with software Selectable Pulse Rate, duration, amplitude, Delay etc.</li> <li>• The software should provide step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications.</li> <li>• The teaching software must be capable of running several applications simultaneously within one program including: data collection, background materials, data analyses, and reporting options.</li> <li>• It must allow editing control of the recorder settings on the hardware.</li> <li>• It must allow students to save their laboratory progress and PDF report of their data.</li> <li>• Lesson authoring/editing service must include content including predeveloped experimental protocols, background information on each experiment, transducer setup and data acquisition settings, and example data as per requirement of department.</li> <li>• It allows faculties to edit lessons/Experiments online through mobiles, Tablets, PC etc and upload for students</li> <li>• Ability to automatically calculate the frontal plane of ECG's with the cardiac and vector cardiogram on the same software.</li> <li>• Ability to undertake online and offline analysis with various export options like Binary, Axon, IGOR, MATLAB, Excel, Graph Pad Prism, Quick Time, Wav, Text etc.</li> <li>• Real time data streaming to Excel and MATLAB.</li> <li>• The system should be supplied with desktop computers with DVD RW, 4GB, RAM and 500 GB hard disk UPS and 21-inch LED monitor with stand and other required accessories and 1kVA UPS</li> <li>• ISO &amp; IEC and other safety standards must be provided from manufacturer.</li> <li>• The system should be adequately electrically grounded on site at the time of its installation.</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>
10	<p><b>Centrifuge, high speed with technometer:-</b>  <b>CENTRIFUGE RECTANGULAR (Research)</b>  Laboratory Centrifuge are suitable for routine sample analysis in Medical Hospital, Pathology and Institutional Laboratories. With a wide Choice of rotor heads and adaptors, these units are truly versatile.</p>

	<p><b>Salient Features:</b></p> <ul style="list-style-type: none"> <li>❖ Digital Speed Indicator</li> <li>❖ Stepless speed regulator</li> <li>❖ 0-99 minutes digital countdown timer</li> <li>❖ Imbalance detector with cut off</li> <li>❖ Safety Lid interlock to prevent cover opening during centrifugation</li> <li>❖ Press Switch for quick acceleration to full speed.</li> </ul> <p><b>Technical Data</b></p> <p>Control :-Microprocessor  Max.Speed :- 5250  Max.RCF:-3950xg  Motor:- Universal Motor  Display:- Digital LCD with Set &amp; Working parameters  Timer :- 1-99 Min</p> <p><b>Capacity</b></p> <p>a). 8x15ml tubes.</p>														
11	<p>Digital Physiograph  <b>Digital Physiograph</b>  <b>STUDENT PHYSIOGRAPH with SINGLE Channel</b>  Console with Time &amp; Event channel and stimulator Human &amp; Animal experiments.  COUPLERS:</p> <ul style="list-style-type: none"> <li>i) STRAIN GAGE</li> <li>ii) ISOTONIC</li> <li>iii) PULSE RESPIRATION</li> <li>iv) TEMPERATURE</li> <li>v) EKG (CLINICAL) with Electrode, 5 pin Junction box and Jell</li> <li>vi) BIO POTENTIAL (with Electrodes, 3 pin Junction box, Paste and Electrodes for Action Potential)</li> </ul> <p>TRANSDUCERS:</p> <ul style="list-style-type: none"> <li>i)PRESSURE</li> <li>ii) VOLUME</li> <li>iii) MUSCLE ACTIVITY/FORCE</li> <li>iv) RESPIRATION BELT</li> <li>v) ISOTONIC FINE MOVEMENT</li> <li>vi) PULSE</li> <li>vii) RESPIRATION (Thermistors Type)</li> <li>viii)TEMPERATURE</li> </ul> <p><b>ACCESSORIES</b> <span style="float: right;"><b>Qty.</b></span></p> <p>Following accessories are supplied along with each console:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>a) Chart Paper Z folds 250 folds</td> <td style="text-align: right;">10</td> </tr> <tr> <td>b) Fuses</td> <td style="text-align: right;">05</td> </tr> <tr> <td>c) Earthing wire</td> <td style="text-align: right;">01</td> </tr> <tr> <td>d) Instruction Manual</td> <td style="text-align: right;">01</td> </tr> <tr> <td>e) Extra Pen with Cradle</td> <td style="text-align: right;">01</td> </tr> <tr> <td>f) Ink</td> <td style="text-align: right;">½ Ltr</td> </tr> <tr> <td>g) Machine Cover</td> <td style="text-align: right;">01</td> </tr> </table>	a) Chart Paper Z folds 250 folds	10	b) Fuses	05	c) Earthing wire	01	d) Instruction Manual	01	e) Extra Pen with Cradle	01	f) Ink	½ Ltr	g) Machine Cover	01
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g) Machine Cover	01														
12	<p><b>ECG Machine:</b>  Microprocessor controlled single channel ECG Machine.  <b>FEATURES:-</b></p> <ul style="list-style-type: none"> <li>- Parameters Display on LCD.</li> <li>- Compact, lightweight, portable, Easy to use &amp; service.</li> <li>- High Fidelity recording.</li> <li>- Maintenance free digital thermal array printer hence free from friction, non linearity damping stylus heating problems.</li> <li>- Clear ECG tracings &amp; easy paper loading.</li> <li>- Electronically controlled feather touch key operations.</li> <li>- In built rechargeable battery with charger</li> <li>- Automatic &amp; Manual modes.</li> </ul>														

**TECHNICAL SPECIFICATIONS**

Leads : Standard 12 Leads  
 Input Impedance : 50M ohm  
 Time Constant : more than 3.2 seconds  
 Noise : + ¼ LSB ( less than 1 micro volt peak to peak)  
 Filters : Digital AC 50 Hz  
 Writing Device : Electronic thermal array Printer  
 Recording Paper : Thermal 50 MM. 30 mtrs.  
 Paper Speed : 25 & 50 mm/sec.  
 Power Supply : 230V AC/50Hz  
 Weight : 1.5kg. (with battery)  
 Temperature : 5° to 50° C ( 41°-122° F)  
 Print Out : ECG Trace, Gain , Paper Speed, Lead Marking and calibration pulse.  
 CMRR : Greater than 120 db  
 Frequency Response : .05 to 150 Hz  
 A/D Conversion : 12 bit  
 Leakage Current : < 10 micro amps  
 Recording format : Two Auto & Manual  
 Recording length : 2,3 sec./lead **(factory set in Auto mode)**  
 Sensitivity : 5, 10 & 20 mm/mv.  
 Recording Tracks : Single Channel Automatic trace centering  
 Battery life : > 50 ECG's  
 Dimensions : 230 L x 165 W x 65 H (mm)  
 Humidity : 15% to 95%, RH, non conditioning

**Standard Accessories**  
 10 lead Patient Cable : 01 No  
 Accessories Box : 01 No.  
 Clipon Electrodes : 04 Nos.  
 Jelly Bottle : 01 No.  
 Chest Electrodes with Rubber Bulbs : 06 Nos.  
 Dust Cover : 01 No.  
 Earth Cable : 01 No.  
 Instruction Manual : 01 No.  
 Recording Paper : 01 Roll

**BIOCHEMISTRY**

1 **Semi autoanalyser:-**  
 For End point, Kinetic, Fixed Time, Multi Standard and Coagulation Tests. 100 open tests, dual Flow cell / Cuvette system with 18 µl Flow cell. Built-in thermal printer with graphic capability. It has 28 quick access test keys, 40x4 character LCD display, Peltier controlled thermostat and user friendly software.

**Semi Auto Analyser :** For End point, Kinetic, Fixed Time, Multi Standard and Coagulation Tests. 100 open tests, dual Flow cell / Cuvette system with 18 µl Flow cell. Built-in thermal printer with graphic capability. It has 28 quick access test keys, 40x4 character LCD display, Peltier controlled thermostat and user friendly software.

High Precision and excellent reproducibility for reliable reporting.  
 Excellent QC function with the option of 2 levels of programmable controls per test.  
 Double aspiration air gap after each sample prevent cross-contamination  
 LCD display allows doe easy keyboard operation  
 Memory for 60 programs and 2000 test results--suitable for running profiles..  
 Absorbance :0.5-3.0A  
 Resolution :0.001 Abs(Display ) 0.0001 Abs(Calculation)  
 Light Source :Halogen Tungsten Lamp  
 Wavelengths : 340,405,500,546,578,670(300nm -800nm)  
 Wavelengths Accuracy : ±1nm  
 Data Storage : Memory for 60 programs and 2000 test results  
 Band width :<8nm

	<p>Flow cell :Metal quartz flow cell ,Capacity 32<math>\mu</math>l  Temperature Control : Peltier 25<math>^{\circ}</math>c,30<math>^{\circ}</math>c,37<math>^{\circ}</math>C<math>\pm</math>1<math>^{\circ}</math>C and ambient temperature  Aspiration system: Double Aspiration air cap after each sample  Cross contamination Rate: &lt; 1%  Display : LCD Display Output :Internal Printer  Interface :RS232 serial Cable  Power Supply : AC 100V-240V <math>\pm</math>10% 50-10HZ</p>
2	<p>ELISA (Demonstration)  <b>ELISA READER:FOR DEMOSTRATION</b>  96 wells and should have reading capability of 1 to 96 wells individually  a linear measurement range of 0 to 3.000 Abs  wavelength range from 400 to 750nm  a photometric accuracy of <math>\pm</math>3% or better  a resolution of 0.001Abs  easy access 8 position filter wheel  Machine supplied with 4 standard filters  automatic filter selection  automatic calibration before each reading  at least 6 second reading speed  facility for storage of calibration curves  Capable of doing multi standard tests and controls  different types of blanking facility like air wise and well wise  capable of reading U, V and flat type wells  capable of reading 8 or 12 well strip plates  use halogen light source and two spare bulbs should be provided  internal thermal printer and 5 rolls of thermal should be supplied along with the unit  work with input 200 to 240Vac 50 Hz supply</p> <p><b>Elisa Washer</b>  capability to wash flat, U or V bottomed micro plates or 8 or 12 well strip plates  8 or 12 way manifold  25 wash program memory or more  programmable washing time, volume and soaking time  minimum 6 wash cycles  continuous operating cycle  residual volume less than 5<math>\mu</math>l  removable and autoclavable plate carrier  in-built vacuum and dispensing pumps to ensure accurate and quite washing  waste bottle with full bottle alarm or sufficient mechanism to avoid spillage and damage to equipment  solution based wash buffer intake  work with input 200 to 240Vac 50 Hz supply  supplied with online pure sinewave UPS of sufficient capacity with minimum  30 minutes back up time and dust cover for both machines</p>
3	Vacutainer Tube Four Color
4	<p>Complete Chromatographic Unit for paper &amp; TLC  <b>CHROMATOGRAPHY CHAMBER:</b> Made of Teak wood construction with wax coating.  Made of teakwood with glass on four sides and on top. Internal surface wax coated for solvent resistance. Hinged top provided with rubber gasket for air tight closing. Window with air tight door in lower portion. Heavy castors provided for easy movement. Nicely polished. Supplied with two stainless steel troughs and 4/6 glass rods.  Size:-6 Filter Papers of 57x68 cm Size</p> <p><b>THIN LAYER CHROMATOGRAPHY APPARATUS:</b> Desaga German Pattern having moveable applicator with inbuilt thickness arrangement between 0 to 2mm. If further consists of the following components.</p> <ol style="list-style-type: none"> <li>Spreader (Applicator) made of electroplated brass.</li> <li>Perspex base of 114x23 cm. to support glass plates.</li> <li>Plate rack aluminum, anodized, for ten 20x20 cm. or 20x10 cm. plates.</li> </ol>

	<p>d) Developing tank with lid.  e) Spotting template made of Perspex.  f) T.L.C plates set of five 20x20 cm. and two 20x5 cm. or set of ten 20x10 cm. and two 20x5 cm.  g) Glass sprayer with rubber bellow, Cap.100 ml.  h) Micro-pipette.  i) Scriber for making lines made of stainless steel.</p>
5	<p>Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)  <b>PAPER STRIP ELECTROPHORESIS APPARATUS HORIZONTAL MODEL</b>  It can be accommodate 6 paper strips horizontally. Buffer can be saturated very fast in this mechanism. A recessed safety interlock switch breaks the current of both electrodes while the lid of mechanism is uplifted. Both electrode section have capacity of 550ml and each are provided with transverse baffles to minimize. Diffusion of buffer which is in contact with the ends of paper strip. Polarity of the electrode is indicated by two pilot lamps provided on the front panel. The complete mechanism is fitted with leveling screws of facilitate leveling. The elementary unit consists of anode &amp; cathode reservoir with platinum electrodes, special Glass Lid &amp; Power Cord.  <b>PAPER STRIP ELECTROPHORESIS APPARATUS VERTICAL MODEL</b> : It is traditional mechanism for general analysis of many samples in clinical laboratories. 6 paper strip can be placed at required height. Agar or agarose gel can also be run in micro slides. 150 + 150ml buffer required to run the sample.  The elementary unit consist of Anode &amp; Cathode reservoir with Platinum electrode assembly. Paper hanging rods (3 nos.), Lid (1no.) &amp; power cord (1 No.).  <b>DIGITAL POWER SUPPLY</b> with digital control &amp; display: provided with short circuit &amp; over load protection with polarity. Reverse Switch.</p>
6	<p>Densitometer with computer  <b>Gel Densitometer Scanner</b>  Gel Densitometer is Combination of Gel Scanner, Window PC and State of art Gel Densitometry Software, which is main part of Gel densitometer. It allows you to automatically analyze gel electrophoresis images. It is designed to reproducibly image gels, Western blots, Agarose gels, PCR gels, TLC, etc across a wide dynamic range. This Densitometry System uses transmissive and reflective imaging to scan chromogenic samples at the optimal detection wavelength. If you have ever had to guess at the intensity or location of gel bands, hold two gels up to a light to compare band location or intensity, or wait in line to use an expensive gel densitometer system, then you will find the Densitometer with gel software to be an accurate.  <b>General Specifications</b>  Optics: Flat-bed Gel film scanner with 6400 X 9600 Dpi Scanning Scan Speed: 100 samples in 12 seconds Scan Length: From 0.01 to 221.5 mm Media: image gels, Western blots, Agarose gels, PCR gels, TLC, etc Scan Modes: Automatic, manual Scan/Edit Features: Auto/manual fraction selection, reference overlay, baseline adjustment, delete area. Auto edit for cholesterol profile. Automatic Data Analysis: Analog curve (printed with or without reference overlay), fractions, relative % and/or units, integral count, one or two ratios, high and low out-of-range indicators, and total. Ratios: User may define the ratio of any fraction to any other fraction or to the total. PC Specification:- Dual Core, 4GB, 1TB, window 10  Software:- Gel scan analysis software.  <input type="checkbox"/> <b>Main Features:-</b>  <input type="checkbox"/> Turn your scanner into a high-speed gel densitometer  <input type="checkbox"/> Quantify lanes, segments, and dot blots  <input type="checkbox"/> Analyze JPG, TIFF, GIF, BMP, PNG and many other image formats  <input type="checkbox"/> Perform gel densitometry and quantification on many types of electrophoresis bands  <input type="checkbox"/> Quantify Western blots, Agarose gels, PCR gels, TLC, or any other gel image  <input type="checkbox"/> Improve accuracy and reproducibility  <input type="checkbox"/> Reduce the need for guesswork in gel quantifying</p>

	<ul style="list-style-type: none"> <li><input type="checkbox"/> Automate your gel analysis for a much lower cost than other densitometry software</li> <li><input type="checkbox"/> Reduce gel analysis times and increase laboratory productivity</li> <li><input type="checkbox"/> Determine the relative abundance and position of each band or segment within the gel</li> <li><input type="checkbox"/> Calibrate the image intensity to normalize results</li> <li><input type="checkbox"/> Save the data in ASCII and clipboard format</li> <li><input type="checkbox"/> Export gel data to other spreadsheet, data analysis, and graphics programs</li> <li><input type="checkbox"/> Digitize (x,y) graphs with all of the same features as regular gel Scanner Software</li> </ul> <p><b>Densitometer Features</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Lane analysis mode for gel lanes</li> <li><input type="checkbox"/> Segment analysis mode for gel segments</li> <li><input type="checkbox"/> Dot Blot analysis mode</li> <li><input type="checkbox"/> Full Image Resolution gel analysis</li> <li><input type="checkbox"/> Analyze JPG, TIFF, GIF, BMP, PNG and other image formats</li> <li><input type="checkbox"/> Linear and logarithmic optical densities</li> <li><input type="checkbox"/> Point and click peak insertion and editing</li> <li><input type="checkbox"/> Automatic and user defined lane sizing and alignment</li> <li><input type="checkbox"/> Clone Drawing Mode</li> <li><input type="checkbox"/> Grayscale and Color Gel Analysis</li> <li><input type="checkbox"/> Saturation Checking</li> <li><input type="checkbox"/> Lane/Segment Slider</li> <li><input type="checkbox"/> Segment Labelling</li> <li><input type="checkbox"/> Concentration and MW Calibration Curves</li> <li><input type="checkbox"/> Sequencing gel mode (ACGT)</li> <li><input type="checkbox"/> Image intensity calibration for true reproducibility</li> <li><input type="checkbox"/> Resizable windows and custom screen colors</li> <li><input type="checkbox"/> Intuitive and easy to use electrophoresis software</li> </ul>
7	<p><b><u>Spectrophotometer:-</u></b>  <b>MICROPROCESSOR UV/VIS SPECTROPHOTOMETER</b> (single beam)      Range 190 to 1000nm with facility for automatic concentration, % Transmission, Absorbance and K factor measurements. It has 16x2 line LCD data display and motorized wavelength selection on 4 digit LED display. It has quad sample holder with 4 position selector control for 10mm path length cuvettes. Facility has been provided for 100 sample data storage and interface with any Centronics printer. RS 232C interface can be provided in request, A set of 2 quartz cuvettes is provided.</p>
<b>PATHOLOGY</b>	
1	<p>Manual Rotary Microtome  <b>BDI-91 : ROTARY SENIOR MICROTOME (A.O. Spencer 820 Types)</b>  Streamlined standard equipment incorporated with latest technology for cutting serial sections in research work. The precise feed mechanism cuts sections from 1-50 microns in steps of one micron each.  Feed Adjustments: 1-50 microns. Total feed excursion 28mm with opening of object clamps 37x27mm. Overall dimensions 16x10x9" Complete with razor-120mm with back &amp; handle, honing plate, object holder set of three, oil can. Packed in a wooden box</p>
2	<p>Automated Rotary Microtome  <b>FULLY AUTOMATIC MICROTOME</b>  Automatic microtome is advanced new-type developed based on semi-automatic microtome. Its soul combined by device and manufacture, which owns proprietary intellectual property rights. It's ideal slicing machine in histopathology research.  Adopted with streamline design, advanced, stable performance, easy to operate. Driving feed system is controlled by intelligent procedure, quick rotary-switch or automatic slicing <input type="checkbox"/> speed of automatic slicing can be adjusted, with safe <input type="checkbox"/> quick braking system; precise electronic mechanic design and manufacture to ensure high precision of tissue slicing; automatic operation ease labor intensity, correspond with human ergonomics.  <b>Features:</b>  Advanced import drive systems, trimming, slicing, fast forward, fast step back, easy-transform;  LCD indicates thickness of slicing, trimming and also counting of slicing ;</p>

	<p>Both slicing and trimming can be finished by controlling system;  Hand wheel can be locked at any position, to ensure safety of tissue slicing;  High-volume trash tank can be easily taken down;  Quick  <input type="checkbox"/>convenient converted specimen clamp: disposable embedding cassette clamp and paraffin clamp;  Safe alarm system;  Fast rotary and automatic slicing, speed of slicing can be adjusted continuously;  Randomly conversion on slicing and trimming;  Self-protection as range of slicing exceed;  Dormancy protection;  Man-machine dialogue operation indicating mode, adopted int'l OLED indicating panel, high brightness, high contrast, wide view angle, rapid reaction, wide range of temperature ,low energy-consumption etc;  <b>Technical parameters:</b>  Range of section thickness setting: 0----100 um;  Range of trimming setting: 0---100um  0—10um increment 1um  10---20um increment 2um  20—100um increment 5um  Specimen horizontal feeding: 26mm;  Maximum stroke length: 60mm;  Range of specimen retraction: 20um;  Specimen clamp can be 360°turned;  Minimum setting thickness of slice: 1um;  Maximum size of slicing: 50 x 50mm;  Precision error:10°  Resetting temperature: ambient—55°  Maximum temperature difference of cryo-plate: 60°  Maximum temperature difference of cryo-probe: 50°  Maximum area of cryo-plate: 45 x 40mm;  LCD simultaneously indicates resetting temperature and current temperature about cryo-probe and cryo-plate;  60°is best angle between cryo-probe and cryo-plate,easy for slicing;  LCD indicates temperature of defrost. After defrost, it recover to freezing situation;  Automatic memorization and recovery, after start up, resetting temperature can be reserved itself;  After 4—7 min freezing time,best time for slicing;  Voltage: AC220V 50Hz <input type="checkbox"/> 110V 60Hz;  Power: 150VA  Dimension: 580x360x310mm</p>
3	<p><b>Cryostat</b>  <b>MICROTOME CRYOSTAT AUTOMATIC</b>  It provides a rapid and easy means for the sectioning of natural tissue from 2 to 20 microns in step of 2 microns without distortion for high quality microscopic examination. Sections have the high resolution of cytological details required for pathological diagnosis, histochemistry, fluorescence, biochemistry, microscopy etc. Technique is simple and easy to learn. To withstand condensation inside the chamber, inbuilt Rotary Microtome is made of entirely rust-proof material fitted with anti roll device to avoid curling of sections. Plastic plate is adjustable in all directions.  Cryostat temperature ranges up to - 30° C as selected by imported thermostat and maintained by hermetically sealed compressor system. Dial type thermometer indicates actual temperature of the chamber.  Inner chamber is made of thick gauge stainless steel. Clear plastic cover, slip in type, at front opening suffices for working access to microtome. Small fluorescent tube light is fitted inside the chamber which switches on automatically whenever plastic door opens to facilitate easy visibility. Microtome hand wheel provided outside the chamber in right hand side for easy operation. Control panel includes: Thermostat control, temperature indicator</p>

	<p>i.e. dial thermometer automatic timer, pilot lamps, line switch, line indicator and voltmeter, which indicates the incoming voltage. Cabinet is of heavy gauge steel with enameled exterior finish. Four castor wheels fitted at bottom provide easy mobility for use in various locations and for storage when not in use.</p> <p>Supplied complete with rust-proof in-built microtome, forced air refrigeration unit, transparent door, door cover, four demountable specimen holders, one bottle of low temperature oil and one microtome knife 120 mm long with back and handle in wooden box, cord and plug. Suitable to work on 220 V, single phase, 50 Hz, AC supply.</p>
4	<p><b>Automatic Tissue Processor Histokinette:</b></p> <p>Tissue Processor is rotary type with a minimum 12 stations.</p> <p>The Instrument is Microprocessor controlled with adequate memory to save and retrieve 6 user selectable programs.</p> <p>Rotary head is having a lock out facility at the end of run to prevent basket moving from station 12 to station 1'</p> <p>Having 10 stations with organic solvent resistant lipless beakers of 1 ltrs capacity</p> <p>Having two temperature controlled wax baths of 1 ltrs capacity.</p> <p>Wax bath is having user definable temperature range of at 50 -65° C with a high temp. cut off at 75°C +5°C.</p> <p>Built in protection provided to not immerse tissue basket in wax bath unless wax is melted or set wax temperature is attained.</p> <p>Having individual programmable limiting sequence for each station from 1 min to 6 hrs. in increments of 1 min and programmable delay start time of up to 99 hrs.</p> <p>Provided with twin tissue baskets with a capacity of 100 cassettes per basket.</p> <p>Each Tissue baskets is suspended from a basket rotor for gentle and even rotation of tissues in the processing fluids.</p> <p>Supplied with 24Nos. SS tissue cassette with even perforation.</p> <p>Retain cycle information in case of power failure to continue processing on restoration of power.</p> <p>The basket automatically is lowered into the nearest station in case of power failure during transfer of tissue basket from one station to next.</p> <p>In case of power disruption during a cycle ,an error msg indicating the station in which there was power failure and the extra immersion time spend by the basket in the station will be flashed.</p> <p>Having a large LCD display feather touch buttons input user friendly menus.</p> <p>Power input 220V 50 HZ Supply with inbuilt automatic voltage stabilizer with a voltage range of 140V to 260 V AC.</p> <p>Operated by feather touch keyboard with digital display. Display shows :Real Time .Date ,Month and year.</p> <p>Wax bath Temperature: Set temperature and attain temperature .station No. of displayed in which Tissue basket is running. Station time and lapse time shown on display.</p> <p>Key board carries the salient features:</p> <ul style="list-style-type: none"> <li>• Start Button :Used to start unit after doing setting</li> <li>• Delay : To set delay time from 1 min to 999min</li> <li>• Clear Off : In case wrong entry is done can be cleared Off.</li> <li>• Load :Used as enter key after doing the setting</li> <li>• Lock :Used to lock keyboard</li> <li>• Next :Used to shift the basket immediately</li> <li>• Display::Used to display the cycle timing before starting the unit.</li> <li>• Test :Used to move basket from 12<sup>th</sup> station to Home position</li> <li>• Code:Used to set a new key board lock</li> <li>• Temperature :To set temperature of Wax bath</li> <li>• Upward Key: To increase time in increment of one minute</li> <li>• Downward Key: To decrease the timing in one Minute.</li> <li>• All Electrical switches used are ISI Marked and silver coated and heavy duty.</li> <li>• Heavy gauge used in fibration of body.</li> <li>• Glass beakers without lip to avoid evaporation Borosil 1 liter capacity</li> <li>• Wax bath stainless steel inner outer with Teflon coated wire used in heater with best quality heating wire with thermal cut out of 75 deg.</li> </ul>



	<ul style="list-style-type: none"> <li>• Leakproof wax bath</li> <li>• External body powder coated to avoid chipping and anti rusting chemical used .</li> <li>• Internal parts fabricated from LM grade aluminum</li> <li>• All moving parts moving on Ball bearing oil sealed.</li> <li>• Center brass rod moving on linear bearing</li> <li>• Not much maintenance required.</li> <li>• Heavy duty rotor motor used for agitation</li> <li>• Main motor used Korean Geared Motor to avoid vibration and sound.</li> <li>• Individual lids covers the Glass beakers to avoid evaporization</li> <li>• In case or emergency side lifting handle provided to take out tissue basket in case of electricity failure.</li> <li>• Thread lock used after tightening the assembly screws and bolts.</li> <li>• Tissue basket capacity of 100 tissue cassette.</li> <li>• Easy to clean platform .for cleaning platform individual cups can be removed for cleaning platform.</li> <li>• Safety device for Tissue in case Wax not melted the basket stops at the station 10<sup>th</sup> till temperature is not attained.</li> <li>• Similar safety feature for STN 11<sup>th</sup> and 12<sup>th</sup> Station.</li> <li>• Heavy duty gear and case hardening done for ling life.</li> <li>• Trouble free and maintenance free</li> </ul>
5	<p>Ultrapure water solutions - Distilled water plant  <b>WATER STILL:</b> (Manasty type) Stainless steel  Manesty type water still: made of all stainless steel; output 4 Lt./hr approx.; work on 220VAC; the condenser can be opened easily for periodic cleaning., designed to provide pyrogen free distilled water easily. Complete unit made of stainless steel. The lid perfectly rest and get sealed inside the collar on the head of the tank which avoids loss of steam and jumping of lid., easy wall mounting.  Output Capacity (Approx.)  a) Output approx. 3/4 litres per hour.</p>
6	Fully Automated high throughput multi-Stainer Workstation
7	<p>Fully Automated Embedding System (Heated embedding module &amp; cold plate)  <b>Fully Automated Embedding system (Heated Embedding Module &amp; cold Plate)</b>  Has independent heating zones that are controlled through a microprocessor. It has a large storage tank; the tank incorporates the filter which ensures continuous flow of paraffin from the tank. The flow of paraffin from the tank can be controlled manually or through foot switch. The heated operation platform and the forceps holder makes it easy to embed the tissues. The unit has a storage tank, preservation boxes, forceps holder, paraffin nozzle whose heating can be controlled through microprocessor and it can be programmed for weekdays for both on and off.  <b>Salient Features:</b> Large paraffin tank, Easy to read and operate control panel, cold spot, Illuminated work platform, Mold warmer and cassette bath, it is programmable for weekdays and each heating zones temperature can be individually set which makes it easy for the user, Separate heating zones for storage tank, 2 preservation boxes, paraffin nozzle, forceps holder and work platform and Excess Paraffin Collecting tray collects the excess paraffin from different heating zones. Complete with 3L capacity of paraffin tank.</p>
8	Fully Automated Flexible Cover slipping Workstation

9	<p><b>Grossing Station</b> - Stainless steel, with Control panel, <b>air filtration system</b>, <b>Track mounted adjustable computer arm with articulation</b>, <b>LED lights that are color and intensity</b>, <b>Dedicated USB ports for camera control and data transfer adjustable</b>, <b>Integrated pathology camera system</b>, <b>Instrument Set (High quality)</b>  <b>Height Adjustable</b>  <b>Stainless steel Chairs with Split AC or appropriate capacity.</b>  <b>GROSSING TABLE COMPLETE S.S. WITH EXHAUST.</b></p> <ul style="list-style-type: none"> <li>• Made of high grade stainless steel</li> <li>• Continuous air flow along entire work area.</li> <li>• Integrated illumination with UV germicidal light.</li> <li>• Working area of 5'x2.5'x3' and sides made from Acrylic material.</li> <li>• Self supporting under carriage with adjustable legs.</li> <li>• Adjustable set of stools with rest to reduce back strain.</li> <li>• Dictaphone</li> <li>• Camera holder on railing system</li> <li>• Magnifying glass/light magnifier with flexible arms.</li> <li>• Document holder for requisition forms, literatures etc.</li> <li>• Magnetic instrument holder.</li> <li>• Paper towel holder.</li> <li>• Inch/centimeter ruler.</li> <li>• Polyethylene cutting board.</li> <li>• Steel basin with adjustable valve with formalin pour off basin.</li> <li>• Study perforated insertable work plates.</li> <li>• Waste bin</li> <li>• Sprinkler system with adjustable valve for bath sanitation located underneath the perforate working plates.</li> <li>• Removable organizer bins.</li> <li>• Safety splash shield.</li> <li>• Drawers</li> </ul> <p><b>Size : 150x75x90cm.</b></p>
10	Fully Automated Immuno-histo-chemistry Setup with Continuous supply of Important Antibodies, Lymphoma Panel etc.
<b>MICROBIOLOGY</b>	
1	<p>Balance Electronic Digital  <b>Analytical Balance :Upto 200g/1m Increment</b>  Analytical Balance : upto 200g/1gm increment  Description of Function  Electronic Balance is required for precision weighing of Lab samples.  Operation Requirements  Microprocessor based single pan Analytical Balance with High accuracy &amp; precision is required.  Reading of the weight by digital display.  Electronic top loading balances with transparent case  The balance should have dynamic weighing with automatic and manual start and provision for data interface  Technical Specifications  Weigh accurately, Weighing capacity 210gm  LCD Display  Power Supply  Power input to be 220-240V AC, 50Hz</p>
2	<p>Biosafety Cabinet Type - 2A  <b>Biosafety Cabinet Type-2A:</b> Whole Cabinet Made of cold rolled steel sheet duly powder coated inside &amp; outside for longer life &amp; durability. These class II Bio Safety Cabinets provide person as well as environment protection and have 100% exhaust system with HEPA filtration virus burn out unit &amp;U.V. Germicidal Light. Equipment is supplied complete with UV at work area, front sliding door with glove ports. HEPA filter &amp; Manometer etc. as well as with following features:  Whole cabinet made of cold rolled steel sheet working Table Stainless steel.</p>

	Working Area 4'x2'x2'
3	<p>BOD Incubator <b>INCUBATOR B.O.D</b> INCUBATOR B.O.D BIO-CHEMICAL OXYGEN DEMAND (Deluxe-Digital Control) Double wall construction. Inner chamber made of richly anodized aluminium or highly polished stainless-steel sheet. Supplied with two/three removable perforated shelves. Exterior made out of thick mild steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Outer double wall door is provided with magnetic gasket and lock &amp; key arrangement. Inner door unbreakable acrylic transparent sheet for inspection of material in the chamber without disturbing the chamber temperature. Door operated inner illumination has been provided. Temperature is controlled by Deluxe Digital Controller from 5° C to 50° C ± 0.5° C. Standard cooling unit with a sealed compressor with protective devices has been provided below the chamber for safe and efficient working. Heating arrangement has been made with in the chamber for higher temperature working. Inner air circulating system is provided to achieve uniform temperature. A control panel is provided with various indicators, on-off switch. Supplied with cord and plug etc. To work on 220V AC 50Hz single phase. Inner Chambers size (mm) W x D x H 505 x 415 x 830                      6.1 cu.ft.              171 ltrs.</p>
4	<p>Centrifuge <b>CENTRIFUGE RECTANGULAR (Research)</b> Laboratory Centrifuge are suitable for routine sample analysis in Medical Hospital, Pathology and Institutional Laboratories .With a wide Choice of rotor heads and adaptors, these units are truly versatile. <b>Salient Features:</b> ❖ Digital Speed Indicator ❖ Stepless speed regulator ❖ 0-99 minutes digital countdown timer ❖ Imbalance detector with cut off ❖ Safety Lid interlock to prevent cover opening during centrifugation ❖ Press Switch for quick acceleration to full speed. <b>Technical Data</b> Control :-Microprocessor Max.Speed :- 5250 Max.RCF:-3950xg Motor:- Universal Motor Display:- Digital LCD with Set &amp; Working parameters Timer :- 1-99 Min <b>Capacity</b> a). 8x15ml tubes.</p>
5	<p>CO2 Incubator/Candle Jar <b>CO2 Incubator</b> CO2 incubator is not only an advanced instrument for cultivation of cells, tissues and bacteria but also a key equipment for immunology, genetics and bioengineering. It is widely applicable for research and production of microorganisms, agricultural science and pharmacology <b>FEATURES:</b> The latest model is a high-performance air-adjusting type CO2 incubator integrating many year manufacturing technology and experience of our company. It is also developed with the introduction of new technics compared with common CO2 incubators. This type provides faster heating and less errors of temperature precision It is made of specular stainless steel by argon-arc welding technics and semicircular arcs at corners ensure easy cleaning Microprocessor temperature controller makes temperature stability Independent alarm system for temperature-limiting ensures experiment run safely and no accident would happen</p>

Microorganism filter at inlet provides 100% filtrated gases  
 Main parts are all imported equipped with CO2 pressure-releasing valve(special for Lark)IR  
 CO2 sensor for precise co2 inside the chamber

**SPECIFICATION**

Parameter	Specification
Capacity/Cubage	80Litre
Inner Chamber	Stainless Steel with curved corners
Outer Chamber	MS fine finish power coated
Heating Method	Air Jacket
Temperature Range	RT+5 ~ 50°C
Temperature Control	0.1°C
Temperature Stability	± 0.3°C
CO2 Control Range	0 ~ 20% (Infrared Sensor)
CO2 Recovery	≤ Calibration x 1.2min
Humidifying Method	Natural Evaporization
Ambient Temperature	+5 ~50° C
Incubator Sterilizer	UV method
Shelves Per Chamber	2(pcs)/3(pcs)
Input Power	450W/720W
Electrical Requirement	220V, 50Hz

6 Deep Freeze -20° C & Deep Freezer  
**DEEP FREEZER (Vertical)**  
 Double walled with inner chamber made of S.S and outer of thick PCRC sheet duly enamel painted. Temperature range from ambient to -20°C is achieved by hermetically sealed compressor. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with solid State Digital Temperature Indicator-Cum-Controller. Horizontal Chest type models are supplied in a single compartment where as vertical models are supplied with three stainless steel storing shelves.  
 Capacity:  
**Vertical**  
**6 cuft.**  
**Optional:**  
 Supplied with Automatic voltage stabilizer.

7 Hot Air Oven  
**HOT AIR UNIVERSAL OVEN (Memmert Type)**  
 (Three side heating elements)  
 Standard double wall fabrication, Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. Exterior fabricated out of thick milled steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Kanthal wire heating elements provided on three sides to attain quick and uniform heating in range of 50° C to 250° C ± 2° C, controlled by capillary type thermostat. L-shaped thermometer is built-in type. Control panel is provided with selector switch of high or low rates of power thermostat control Knob and indicators for mains & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50 Hz single phase.  
 Chamber size in mm / Inches No. of Capacity  
 H W D (Approx.) Shelves (Approx.)  
 c)450 x 450 x 450 (18" x 18" x 18")2 95 ltrs.  
**OPTIONAL**  
 i) Air circulating fan.  
 ii)Digital temp. Indicator-cum-Controller

8 Incubator  
**INCUBATORS BACTERIOLOGICAL**  
 Standard double wall fabrication. Inner chamber made out of richly anodized aluminum or highly polished stainless steel sheet and outer made out of thick mild steel sheet finished in

	<p>white stoving enamel/powder coated paint with mat finished colour combinations. Double wall door with double glass window for observation in the chamber. Temperature range 5° C above ambient to 80° C ± 1° C controlled by a thermostat. The equipment is workable on 220 V Ac 50 Hz single phase.</p> <table border="0" data-bbox="239 224 989 324"> <tr> <td>Chamber size in mm/Inches</td> <td>No. of Shelves</td> <td>Capacity (Approx.)</td> </tr> <tr> <td>H D W</td> <td></td> <td></td> </tr> <tr> <td>a) 450 x 450 x 450 (18"x18"x18")</td> <td>2</td> <td>95 ltrs.</td> </tr> </table> <p><b>OPTIONAL</b></p> <p>i) Air circulating fan. ii) Digital temp. Indicator-cum-Controller</p>	Chamber size in mm/Inches	No. of Shelves	Capacity (Approx.)	H D W			a) 450 x 450 x 450 (18"x18"x18")	2	95 ltrs.
Chamber size in mm/Inches	No. of Shelves	Capacity (Approx.)								
H D W										
a) 450 x 450 x 450 (18"x18"x18")	2	95 ltrs.								
9	<p>Laminar flow <b>HORIZONTAL LAMINAR AIR FLOW CABINET</b></p> <p>Laminar flow principle involves double filtration of air through coarse pre-filter (up to 5 microns) and Hepa filter (down to 0.3 microns) for filtration of biological and particulate contaminants. A constant uni-directional air flow is drawn from atmosphere and passed through pre and hepa filters on the work surface. Fabricated out of reinforced ply board which is clad in from outside in laminated sheet and inner exposed areas are finished in epoxy paint. Table top covered with non glaring laminated sheet or stainless steel sheet. Side panels are fixed and are made out of transparent acrylic sheet. The front door is folding type and made of thick acrylic sheet. (Optional) Stand is built in type or detachable. Blower unit has AUE or equivalent motor and is dynamically balanced with minimal sound &amp; vibration level. Fluorescent lighting is also provided. A suitable UV tube is provided for sterilization. An acrylic block type manometer to measure static pressure in the chamber has been installed. Two way gas tap for gas line has also been provided.</p> <p>A) Whole cabinet made of wooden board laminated with sunmica. Working Area 4'x2'x2'</p>									
10	<p>Microscope with universal condenser containing oil immersion, Bright field, Phase Contrast &amp; Dark ground</p> <p><b>Binocular research microscopes With Phase Contrast System:</b> Fine Focus Binocular Co-Axial Research Microscope: with 30 Binocular head. A Hi-fi research microscope with extra large base which supports the robust arm has a special grade plastic top to provide comfortable hand rest for ease of operation. Binocular observation head 45 deg. Rotatable with interpupillary distance from 54 to 74mm. All Prisms –Antifungus treated. It has a special Quadruple revolving nose-piece moving on ball bearings. It is fitted with hard coated, colour corrected optics and super wide field HKWF 10x eyepieces. The optics have been treated with anti fungus treatment for long life. Special graduated mechanical stage(135mm x125mm) travel of 75mm &amp; 50mm in X&amp;Y direction and moves on ball bearings with low positioned 'Soft Feel' co-axial system. Provided with <b>COAXIAL</b> coarse and fine focusing mechanism on ball bearing guide ways. Graduated knob with 1 div = 0.002 mm with knob tension control ring. A high transmission sub stage condenser NA 1.25 with iris diaphragm and daylight blue glass filter. Unit is adjustable through rack-n-pinion. built-in halogen illumination 6V-20w with light intensity controller.</p> <p><b>Optical Combination:</b> <b>Achromatic Objectives:</b>(DIN Standard ) 4x (N.A.0.10),10x(N.A 0.25 ),40x (N.A.0.65) and 100x (N.A.1.25- oil immersion Spring Loaded). <b>Super wide eye pieces :</b> WF 10x (Pair) (FN 18) <b>Eye Pieces :</b> 5x (Pair) Huygenian</p> <p><b>PHASE CONTRAST EQUIPMENT (Imported)</b> Sophisticated attachment for bright field Microscopy which is employed in study of living organisms ,cells etc. Comprises Substage Abbe condenser with revolving Turret Annular Phase Plates for 10x,20x, 40x,100x Objectives and fifth position for Bright Field with iris. Full Plan Achromat Objectives 10x,20x,40x(SL) &amp; 100x (SL)Phase It also includes one green filter and centering Telescope Eye piece</p> <p><b>DARK FIELD EQUIPMENT FOR RESEARCH MICROSCOPE (Imported)</b> Versatile attachment for Dark Field Microscopy. It Comprises of 100x oil immersion with built in iris diaphragm and Dark filed substage condenser.</p>									

11	<p>Vortex Mixer  <b>VORTEX SHAKER / CYCLO MIXER (Test Tube Shaker)</b>  Useful for accelerated mixing of solutions in test tubes, small flasks or centrifugal tubes etc. The housing is 150x150 mm .The speed is regulated by a speed control devices. Shorts eccentric stroke motor imparts vigorous agitation to the tubes or flasks. Body is strong and finished in white stoving enamel/powder coated paint with mat finished colour combinations. The equipment is workable on 220V AC 50 Hz single phase.</p>
12	<p>-80°C deep freezer with UPS:-  <b>DEEP FREEZER (Vertical)</b>  Double walled with inner chamber made of S.S and outer of thick PCRC sheet duly enamel painted. Temperature range from ambient to -20°C is achieved by hermetically sealed compressor. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with solid State Digital Temperature Indicator-Cum-Controller. Horizontal Chest type models are supplied in a single compartment where as vertical models are supplied with three stainless steel storing shelves.  Capacity : 10 cuft.  <b>VERTICAL</b></p>
13	<p>Micro centrifuge / Refrigerated Centrifuge  <b>Refrigerated centrifuge</b>  Table top, Refrigerated Micro purpose Centrifuge  Speed: Maximum 16,000 rpm (adjustable) Max. RCF 17600 X g. (without rotor head)  Speed control method: Automatic/Manual microprocessor controlled.  Timer: 0 - 90 min with count down feature. Speed control: Feather touch up / down arrow key type.  Operation Keys: Feather Touch Type. Memory Program: 20Nos.  Display system: LCD display (16digit X 2 line)  Speed Safety control: Interlock Lid system during operation; Imbalance safety during rotation.  Buzzer: ON after cycle operation. Brake: ON / OFF. Power supply: 240v, 50 Hz, single phase  Temperature: System with micro prc. controller with working chamber temperature range of -10 deg C to Ambient Temp.  <b>Interchangeable Rotor Heads</b>  1) 24 x 2/1.5 ml Angle Rotor head with polypropylene tubes.</p>
14	Fluorescent Microscope (2 Filter Microscope)
<b>FORENSIC MEDICINE &amp; TOXICOLOGY</b>	
1	Stryker Type Autopsy Saw With Accessories
<b>COMMUNITY MEDICINE</b>	
1	<p><b>Ice Lined Refrigerator (I.L.R.) (at Health Centre):-</b> which comes with a microprocessor for controlling temperature and specifically designed evaporator and condenser to provide maximum refrigeration. These refrigerators have have stainless steel interior for easy usage and hygiene. Offered products have a vast storage space for accumulating a large number of vaccines and other samples.  <b>Special Features:</b>  <b>Refrigeration System:</b>  The ICE lined refrigerator is built with CFC-free polyethylene insulation. Superior refrigeration from optimized evaporator and condenser design. Dual interior layer design features built-in ice packs to keep chamber temperature within 2 to 8 range in an ambient temperature of no warmer than 43 for up to 24 hours during loss of power, presuming ice-packs are fully charged  <b>Temperature Control:</b>  The ice lined refrigerator features of digital temperature display  Power on/off indicator  Cabinet temperature range of 2 to 8  <b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Reliable temperature between +2°C to +8°C</li> <li>• Only 8 hrs. Of electricity needed per 24 hrs. at 43°C ambient</li> <li>• Self-regulating cooling system</li> <li>• External cabinet and internal liner pre-painted galvanized steel protects against</li> </ul>

corrosion

- Cooling coil of copper
- Danfoss compressor; suitable for use in the tropics. Starting 22 % below rated voltage
- 7 baskets for organized storage (optional)

**Green Technology:**

- Hydrocarbon refrigerant
- Cyclopentane insulation
- Extremely low energy consumption
- Recyclable components.

**(ON THE LETTER HEAD OF THE FIRM)**

**DECLARATION**

I / We hereby declare that no case is pending with the police / court against the bidder / firm / company (Agency). Also, I / We have not been suspended / blacklisted by any PSU / Government Department / Financial Institution / Court etc.

**Seal and Signature of the bidder**

Place:

Date:



**(ON THE LETTER HEAD OF THE FIRM)**

**NO DEVIATION CERTIFICATE**

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions mentioned in the e-NIT. I/We hereby undertake and confirm that we have understood the specifications properly and shall supply the medical machines / equipments to SMVDSB during the Rate Contract Period.

**Seal and Signature of the bidder**

Place:

Date:

**(ON THE LETTER HEAD OF THE FIRM)**

**UNDERTAKING**

To \_\_\_\_\_  
The \_\_\_\_\_

Sub: Tender for Procurement of Machinery and Equipment for establishment of Anatomy, Physiology, Pathology, Community Medicine, Biochemistry, Forensic Medicine & Toxicology, Microbiology Departments of Medical College, Kakryal (Group-A)

Sir,

1. I/We hereby agree to abide by all terms and conditions laid down in tender document.
2. **We will be responsible for warranty of Machinery and Equipment for five years, from the date of successful installation.**
3. This is to certify that/We before signing this bid have read and fully understood all the terms and conditions and instructions contained therein and undertake myself/ourselves abide by the said terms and conditions.
4. I/we agree to abide by the tendered terms & conditions
5. I / we declare that our financial position is sound and we are competent to execute the supplies as & when allotted.
6. We will execute the supplies strictly in accordance with the approved specifications, if approved in our favour.

(Signature of the Bidder)

Name and address of the Bidder

**(ON A LETTER HEAD OF THE PRINCIPAL MANUFACTURER)**

**UNDERTAKING**

The \_\_\_\_\_

Sub: Tender for Procurement of Machinery and Equipment for Medical College, Kakryal  
(Group-A)

Sir,

This is in reference to your Tender Notice No: \_\_\_\_\_. In this regard we have authorized the below mentioned Party to quote the above said tender on our behalf:-

M/S \_\_\_\_\_  
Correspondence address \_\_\_\_\_  
Contact person \_\_\_\_\_  
Contact No. \_\_\_\_\_

Signature with seal: \_\_\_\_\_  
Name of the signing person \_\_\_\_\_  
Designation: \_\_\_\_\_  
Contact No: \_\_\_\_\_  
e-mail: \_\_\_\_\_

**TO BE SUPPLIED BY THE PRINCIPAL MANUFACTURER ON THEIR LETTER HEAD**

**I \_\_\_\_\_ do hereby solemnly affirm and declare as under:**

1. In case of any change of our local dealer/Agent, we will be fully responsible during the warranty period of the equipment as well as execution of Comprehensive Maintenance Contract after the expiry of the warranty period on the rates quoted by their dealer.
2. Spares of the quoted model shall be available at least for a period of seven years after the expiry of warranty period.
3. The models quoted by our dealer, on our authority, are compliant with the tendered specifications and deviations, if any, are mentioned in "Remarks" Column in compliance sheet.
4. The product / model number being quoted against the tender is currently undergoing production and have not been discontinued by us and
5. Our Average Turnover of last three financial years was\_\_\_\_\_

**Deponent should be the same person who has signed the Annexure "F"**

**FINANCIAL BID**  
(to be submitted online only)

**FOR THE SUPPLY OF MACHINES / EQUIPMENTS TO SHRI MATA VAISHNO DEVI SHRINE BOARD (Group-A).**

S. No.	Item	Indicative Quantity	All inclusive rate per Unit for SITC (in Rs.)	CAMC charges for 5 years (in Rs.)	Total Amount (in Rs.)
1.	Microscopes, Monocular/Binocular				
2.	Dissection microscope				
3.	Microtomes, rotary				
4.	Microtomes, Sledge, large cutting				
5.	Multichannel physiography 3 channel complete with accessories				
6.	Centrifuge high speed with techno meter				
7.	Digital Physiograph				
8.	Polygraphs				
9.	Mosso,s ergograph				
10.	Bicycle Ergometer				
11.	ophthalmoscope				
12.	Digital ECG Machine				
13.	Student physiograph, (single channel) with accessories				
14.	Gas analyser automatic for CO2, O2, N2				
15.	Sherrington Starling kymograph (electrically driven)				
16.	Centrifuge, high speed with technometer				
17.	Semi autoanalyser				
18.	Vacutainer Tube				
19.	Complete Chromatographic Unit for paper & TLC				
20.	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)				
21.	Densitometer with computer				
22.	Spectrophotometer				
23.	Elisa Reader and Washer				
24.	Manual Rotary Microtome				
25.	Automated Rotary Microtome				
26.	Cryostat				
27.	Automated Tissue Processor – Histokinette				
28.	Ultrapure water solutions - Distilled water plant				
29.	Fully Automated high throughput Multi-Stainer Workstation				
30.	Fully Automated Embedding System (Heated embedding module & cold plate)				
31.	Fully Automated Flexible Coverslipping Workstation				
32.	Grossing Station - Stainless steel,				

	with Control panel, air filtration system, Track mounted adjustable computer arm with articulation, LED lights that are color and intensity, Dedicated USB ports for camera control and data transfer adjustable, Integrated pathology camera system, Instrument Set (High quality) Height Adjustable Stainless Steel Chairs With Split AC of appropriate capacity.				
33.	Fully Automated Immuno-histochemistry Setup with Continuous supply of Important Antibodies, Lymphoma Panel etc.				
34.	Biosafety Cabinet Type - 2A				
35.	BOD Incubator				
36.	Centrifuge				
37.	CO2 Incubator/Candle Jar				
38.	Deep Freeze -20° C & Deep Freezer				
39.	Hot Air Oven				
40.	Incubator				
41.	Laminar flow				
42.	Microscope with universal condenser containing oil immersion, Bright field, Phase Contrast & Dark ground				
43.	-80°C deep freezer with UPS				
44.	Microcentrifuge / Refrigerated Centrifuge				
45.	Vortex Mixer				
46.	Electronic Balance				
47.	Fluorescent Microscope				
48.	Stryker Type Autopsy Saw With Accessories				
49.	Ice Lined Refrigerator (I.L.R.) (at Health Centre)				