

BID DOCUMENT

Directorate of Health Services Medical Education & Research (DME)

Pasteur Hills, Lawmali Shillong – 793001

E-mail: pasteurinstituteshil@gmail.com

Website: <https://smcshillong.ac.in/>

TENDER DOCUMENT

FOR

Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME)

NIT No: DHSME&R/SMC/TENDER/127/2025/543

DISCLAIMER

1. Though adequate care has been taken while preparing the NIT, the Bidders shall satisfy themselves that the document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within seven (7) days from the date of notification of NIT/ Issue of the bid documents, it shall be considered that the bid document is complete in all respects and has been received by the Bidder.
2. Directorate of Health Services Medical Education & Research (DME) reserves the right to cancel/ withdraw this invitation for bids without assigning any reason and shall bear no liability whatsoever consequent upon such a decision.
3. Directorate of Health Services Medical Education & Research (DME) reserves the right to modify, amend or supplement this document.
4. While this NIT has been prepared in good faith, neither Health Services Medical Education & Research (DME) nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this NIT, even if any loss or damage is caused by any act or omission on their part.

Place: Shillong

Date: 20th June 2025

PART - I

INVITATION FOR BIDS (IFB) & BID DETAILS

**INVITATION FOR BIDS (IFB)
FOR**

Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME)

NIT No:

- 1.0 The Directorate of Health Services Medical Education & Research (DME), invites sealed bids from eligible suppliers (bidders) to participate in Bid Document for Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME) in Two bid system.
- 2.0 For the purpose of all procurement activities related to the said works, Directorate of Health Services Medical Education & Research (DME) shall be referred to as 'Employer'
- 3.0 The Shillong Medical College has been proposed by the Government of with the objective of enhancing access to quality medical education and healthcare services within the state. The institution is being developed in accordance with the guidelines prescribed by the National Medical Commission (NMC). As part of its phased operationalization, the procurement of essential medical and academic equipment is being undertaken. Accordingly, this tender is issued to invite eligible and reputed vendors for the supply, installation, testing, and commissioning of equipment for various departments, as specified in the tender document.
- 4.0 A Bidder can submit the tender consisting of all the proposed sites in the tendering process, individually as a Bidder, Joint Venture/Consortium **are not permitted.**
- 5.0 In the bidding process, the bidder should submit their "Technical Bid" in a sealed envelope superscripting "Technical Bid" with name of bidder, NIT reference No. , on or before Last date of Bid Submission as mentioned on the Bid Information Sheet. The schedule of the technical bid shall be provided from the office of the undersigned. Bidders have to submit the price bid only in the form of electronic submission in provided Bill of Quantity (BoQ) format. Bidder submitting the price bid in hard copy shall be treated as non-responsive and lead the rejection of the bid a
- 6.0 A forwarding letter along-with annexure and supporting documents as mentioned in the bid document is to be submitted sealed in a separate envelope superscripting document with name of bidder, NIT reference No. and Last Date of Submission.
- 7.0 Bidders have to upload the Technical and Financial Bids on the Meghalaya e-Tenders Portal Only. However, the one copy of the uploaded "Technical Bid" alongwith Tender Fee and Bid Security/ Earnest Money Deposit (EMD) shall be submitted to the office of Directorate of Health Services Medical Education & Research (DME) on or before last date of bid submission.
- 8.0 **The Directorate of Health Services Medical Education & Research (DME) reserves the Right to increase/decrease the quantity of the plant as well as transfer location from one site to another site as per requirement of the project, but restricted to LoA amount.**
- 9.0 The detailed scope of work includes:
 - The successful bidder shall supply brand new, unused, and latest model equipment as specified in the Schedule of Requirements/Technical Specifications, conforming to relevant national/international quality standards..
 - It shall be required to visit the respective sites and check the feasibility of space including installation capacity in consultation with respective site in-charge / owner.

Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME).

BID INFORMATION SHEET

The Bid Information Sheet is provided below:

Particulars	Description
Document Description	Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME)
NIT No. and Date	DHSME&R/SMC/TENDER/127/2025/543 dt. 20 th June 2025
Availability of bidding document	From 20/06/2025 to 15/07/2025
Pre-Bid Meeting	27 th June at 1400 Hrs https://meet.google.com/ndt-kvbt-uny
Period of Completion Period	90 days from the date of issuance of LOA
Last date & Time for submission of bid document	15/07/2025 upto 1300 Hrs
Address for submission of Techno-Commercial Bid	Directorate of Health Services Medical Education & Research (DME) Pasteur Hills, Lawmali, District – East Khasi Hills, Shillong – 793001(Meghalaya) Email: pasteurinstituteshil@gmail.com
Technical Bid Opening	18/07/2025 at 1500 Hrs
Bid Security/ Earnest Money Deposit	Rs. 235000/-
Tender Processing Fee (Non-refundable applicable for the Bidder)	Rs. 10,000/- + 18% GST
Joint Venture / Consortium	Not Allowed

Important note:

- Prospective Bidders are requested to remain updated for any or all notices, amendments, corrigendum, clarifications etc. to the Bidding Document published state e-procurement portal. No separate notifications shall be issued for such notices, amendments, corrigendum, clarifications etc. in the print media or individually to the prospective Bidders and in no case the undersigned shall be held responsible for any loss of information to the Bidders.
- Intimation regarding notification on the above shall be updated and the details shall be only available in the Meghalaya e-procurement portal (www.meghealth.gov.in and www.nhmmeghalaya.nic.in).


Directorate of Health services
Medical Education & Research(DME)

Memo No.: DHSME&R/SMC/TENDER/127/2025/543

Dated 20/06/2025

Copy to:-

- The Commissioner & Secretary to the Government of Meghalaya, Health & Family Welfare Department for kind perusal and information.
- The Joint Secretary, DIPR, Government of Meghalaya for publication in one article of single national newspaper for wider circulation.
- Office copy.


Directorate of Health services
Medical Education & Research (DME)

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Seal & Signature of the Bidder

PART - II
INSTRUCTIONS
TO
BIDDERS (ITB)

DEFINITION

In this RFS, unless the context otherwise requires, capitalized terms shall have the meaning given to them in the table below:

BID Document/NIT/RFS	Mean the Techno Commercial and Price Bid submitted by the Bidder along with all documents/credentials/attachments annexure etc., in response to this RFS, in accordance with the terms and conditions hereof
Bidder/Bidding Company	Mean Bidding Company submitting the Bid. Any reference to the Bidder includes Bidding Company / including its successors, executors and permitted assigns as the context may require
Bid Deadline	Mean the last date and time for submission of Biding response to this RFS as specified in Bid information Sheet
Chartered Accountant	Mean a person practicing in India or affirm whereof all the partners practicing in India as a Chartered Accountant(s) within the meaning of the Chartered Accountants Act, 1949
Commissioning	Means Successful operation of the Project / Works by the Contractor, for the purpose of carrying out Performance Test(s) as defined in RFS
Company	Mean a body incorporated in India under the Companies Act, 1956 or Companies Act, 2013 including any amendment thereto.
Qualified Bidder	Mean the Bidder(s) who, after evaluation of their Techno Commercial Bid stand qualified for opening and evaluation of their Price Bid.
RFS	Mean Request for Selection (RFS)/Bid document/Tender document.
Successful Bidder(s)	Mean the Bidder(s) selected by Directorate of Health Services Medical Education & Research (DME) pursuant to this RFS, for Implementation of Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College as per the terms of the RFS Documents, and to whom Letter of Award has been issued

SECTION I:

A. INTRODUCTION, BID DETAILS AND INSTRUCTIONS TO THE BIDDERS

1.0 INTRODUCTION

The Shillong Medical College has been proposed by the Government of Meghalaya with the objective of enhancing access to quality medical education and healthcare services within the state. The institution is being developed in accordance with the guidelines prescribed by the National Medical Commission (NMC). As part of its phased operationalization, the procurement of essential medical and academic equipment is being undertaken. Accordingly, this tender is issued to invite eligible and reputed vendors for the supply, installation, testing, and commissioning of equipment for various departments, as specified in the tender document.

- 1.1. The Bidder is advised to read carefully all instructions and conditions appearing in this document and understand them fully. All information and documents required as per the bid document must be furnished. Failure to provide the information and / or documents as required may render the bid technically unacceptable.
- 1.2. The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect the carrying out of the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labor involved, wage structures and as to what all works he has to complete in accordance with the bid documents irrespective of any defects, omissions or errors that may be found in the bid documents
- 1.3. The hard copies of the technical bid document shall be submitted on the due date as mentioned in the Bid Information Sheet. Bid submitted after the due date of submission shall summarily be rejected

2.0 BID DETAILS

- 2.1. Based on the Price quoted by the bidder; the tendering authority shall arrange the bids in the ascending order i.e. L1, L2, L3, _ _ _ (L1 being the lowest quoted bidder).
- 2.2. The bidders are not allowed to quote above the estimated package value to maintain the sanctioned amount within the limit to ensure the quality of materials and work.

3.0 INSTRUCTIONS TO THE BIDDERS

- a) The Bidder is advised to read carefully all instructions and conditions appearing in this document and understand them fully. All information and documents required as per the bid documents must be furnished. Failure to provide the information and / or documents as required may render the bid technically unacceptable.
- b) The bidder shall be deemed to have examined the bid document, to have obtained his own information in all matters whatsoever that might affect the carrying out of the works in line with the scope of work specified elsewhere in the document at the offered rates and to have satisfied himself to the sufficiency of his bid. The bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labor involved, wage structures and as to what all works he must complete in accordance with the bid documents irrespective of any defects, omissions or errors that may be found in the bid documents.
- c) The bidder must quote and supply all the Equipment/Items mentioned in the tender document.
- d) The original Bank Guarantee/ Demand Draft shall be submitted on/before the due date as mentioned in the Bid Information sheet. Bid submitted after the due date of submission shall summarily be rejected.
- e) Price bid should be submitted through state e-procurement portal (www.meghealth.gov.in and [www.nhmmeghalaya.nic.in.](http://www.nhmmeghalaya.nic.in)) only.
- f) Product Catalogue:-
Catalogues/brochures showing details of Technical Specifications of Equipment each item shall be enclosed in technical bid. All specification should be substantiated by Technical data sheets. Bidder shall submit Hard copy of technical data before final date of submission if asked.

Technical bid shall contain following documents duly SELF ATTESTED, failing which tender will be declared as non-responsive. These documents shall be in the form of PDF files. These documents need to be digitally signed by the tenderer and uploaded in the technical bid during online bid preparation stage.

3.1 Bidder will be declared as a techno-commercially Qualified Bidder based on documentary evidence s submitted by the Bidder in the Bid.

3.2. Consortium

Bidding Consortium/Joint Venture shall not be allowed in this bid.

1.3 PROFORMA

To be submitted along-with Technical Bid as mentioned in (Annex-I).

In every case of offer whether indigenous or imported the name of manufacturer, address together with brand /make /model should be indicated in the tender. Any conditional offer of the tenderer will be rejected.

1.4 Product Catalogue:-

Catalogues/brochures showing details of Technical Specifications of Equipment each item shall be enclosed in technical bid. All specification should be substantiated by Technical data sheets. Bidder shall submit Hard copy of technical data before final date of submission if asked.

3.3.1 Prequalification criteria:

1. Legal Status:

The bidder should be a registered Firm/Partnership/Society/LLP/Company in operation for 3 years or more in the same field as on the last date of bid submission.

Joint Ventures entities are ineligible to participate in the bidding process.

2. GST/VAT Clearance Certificate:-

Copy of G.S.T. Registration Certificate Sales Tax/GST clearance certificate/ GST Returns for past 6 months from the date of publishing of the tender should be attached.

3. Turnover: -

The average turnover of bidder for the last 3 years from the date of publication of tender should be 30% of total tender value. Turnover exemption is not allowed for MSME, Startup or any other ventures.

4. Past experience:

Either OEM (either directly or through authorized distributor for concerned past project) or bidder shall have completed / delivered at least one similar project in Medical College/ Hospital Project like Medical Gas Pipeline System (MGPS), Modular Operating Theatre (MOT) etc anywhere in India in last 10 years. OEM may authorize another distributor for this project other than past projects. OEM/bidder shall submit letter of delivery or import document or past order copy or other documentation to support past experience. Past experience exemption is not allowed for MSME, Start up or any other ventures.

OR

The bidder should submit complete audit report with relevant certificates and schedules for the last 3 financial years from the date of publishing of the tender certified by registered Chartered Accountant. If the audit of last financial year is not complete; the bidder has to submit provisional audit report (Balance Sheet and Profit & Loss Account Statement) signed by registered Chartered Accountant. Products/ equipment's manufactured in countries having border with India are not allowed.

5. Authorization Letter:-

A bidder quoting on behalf of manufacturer must attach Bid specific authorization letter from the manufacturer to quote on behalf of manufacturing & to do after sales services as per Annexure-II. (It is mandatory to have a complete address, working e-mail address and contact numbers of the Manufacturer

as well as it should mention the Country of manufacture of the equipment. Equipment manufactured in any other place than the mentioned originally; will be rejected. Incomplete Authorization in any form will not be accepted. It will be liable for rejection. However exclusive Authorization is not applicable as there are large no. of items/Equipment in the set. Bid specific Authorization is must, general Authorization shall not be valid.

6. Certificates:-

In case of equipment. I.S.O. certificates required as per technical specifications requirement.

7. Users list:-

The bidder should submit user list as per Annexure - IV. And should also submit order copies to support the claim.

8. Make/ Model:-

Bidder shall submit make in scope of supply. Bidder shall quote latest model as per technical specifications. Capacity or volume of equipment may differ from past experience project but make shall be same OEM whose past experience is used for qualification.

9. After Sales Service:-

- The bidder shall have service centers in Meghalaya with complete address, phone nos., fax nos. and e-mails as per (Annexure - V) in case onsite service is not offered on or before date of publish of this tender document. This is not applicable in case of onsite warranty & services.
- Terms & Condition Acceptance Certificate should be submitted as per (Annexure-VI).

10. Fall Clause

- a) It is a condition of the contract that all through the currency thereof, the price at which the bidder will the supply stores should not exceed the lowest price charged by the bidder to any customer during the currency of the rate contract and that in the event of the prices going down below the rate contract prices the bidder shall promptly furnish such information to Health & Family Welfare Department, Government of Meghalaya to amend the contract rates for subsequent supplies.
- b) Commercial bid should not be submitted in Envelope No. 01 (Tech. Bid) else the bid will be rejected.
- c) Price for entire package of items/Instruments is to be Quoted. Successful bidder has to supply all the items/Equipment mentioned in the Tender document. Prices quoted in the commercial bid should inclusive of all (Basic equipment plus installation and commissioning of equipment). The maintenance of any additional equipment required for proper installation and commissioning of the equipment/machinery supplied will be the responsibility of the tenderer. In case of this project, manufacturer could authorize multiple bidders (if bidder is fulfilling other terms & conditions of tender).

11. Bidders shall submit signed & notarized affidavits that all equipment's conform to the Technical Specifications outlined in 'Section V: Technical Specifications'.

12. Authentication for Documents:-

The responsibility to produce correct authentication for documents rests with the bidder. If any documents are detected to be forged, bogus etc., the tender shall be rejected and EMD shall be forfeited. Any contract entered under such condition shall also be liable to be canceled at any time during its currency and further penal action like criminal prosecution, blacklisting etc. against the said contractor and/or the partners shall be instituted.

13. The quantity mentioned in the tender is only approximate estimated quantity, Health & Family Welfare department, Government of Meghalaya., if required may Purchase additional quantity published within 12 months of Purchase Order as repeat order.

At the time of submission of tender documents to this office all the photo copies of certificates / documents attached with the tender should be duly Self Attested on and before date of submission of bid.

IF ANY OF THE ABOVE DOCUMENTS / INFORMATION AS ENLISTED FROM NO.1 TO NO.14 IS NOT ATTACHED WITH THE TENDER, THE TENDER IS LIABLE TO BE TREATED AS INVALID.

3.3.2 FINANCIAL Eligibility Criteria

The Commercial Bid (Part-II) should contain the price. The cost should be quoted in Indian currency only, any fluctuation in the international currency will not be a concern of Health & Family Welfare department, Government of Meghalaya and the price quoted in the tender will be considered as final. Cost shall be inclusive all taxes & levies (Including GST).

All financial offers must be prepared and submitted online. Date of opening of commercial bid will be informed accordingly. Commercial quote in any other format shall be rejected. Condition all offers shall not be considered and shall be treated as non-responsive.

OTHER TERMS & CONDITIONS CONCERNING THE TENDER

1. *No price should be quoted in part I (Technical Bid). If any price is quoted in technical bid, the entire tender shall be considered as INVALID.*
2. *Commercial Bid will be opened only those tenderers who have submitted all the documents as per tender terms and conditions in the envelope no.01 and are technically qualified. If two tenderers have quoted same cost of equipment, then the demonstration of both the tenderer will be taken.*
 - i. *Unsatisfactory performance at demonstration will disqualify the tenderer.*
 - ii. *The demonstration should be done if required and asked for at the institute specified. In case of heavy / bulky equipment the demonstration may be arranged at a place where the equipment is already functioning and as per convenience of the concern technical committee at the cost of the bidder. Demonstration of the equipment in the factory premises is not allowed.*
3. *The tender validity should be for a minimum period of 120 days from the date of opening the Commercial Bid. The validity of the tender can be extended up to 180 days at the discretion of Directorate of Health Services Medical Education & Research (DME&R). There will be no change or any type of rectification in quoted cost due to international fluctuation of currency after submission of tender. No communication in this regard will be entertained.*

3.3.3 Other Terms and Conditions

1. **Demonstration:-** Directorate of Health Services Medical Education & Research (DME) may ask for demonstration if required before the opening of financial bid for technical evaluation or from lowest bidder after financial bid opening and the bidder should arrange for the demonstration in India of the equipment quoted for in the tender within 15 days from the date of intimation of the request for demonstration preferably in Shillong. However, if complete system of quoted model/complete system is not available in Shillong demonstration may be arranged out side Shillong in any mutually agreed upon hospital at bidders cost.

2. **Training:** - The successful tenderer shall have to give sufficient training at his cost to the staff of the Hospital and Engineers of concern institute to operate the Medical Equipment. Also it shall be provided as and when required if asked by user department.
3. The successful tenderer will have to pay a security deposit of an amount equivalent to 3% of the cost of the equipment offered in the following form within 15 days from the date of issue of supply order from the concerned institute. Bank Guarantee valid for 2 months after the expiry of warranty period issued by any Nationalized/ Scheduled Bank. Security deposit will be refunded only after completion of warranty period.
4. The delivery of goods should be at door and should be made within 12 weeks for indigenous items and 24 weeks for imported items, from handover of site. If the date of delivery cannot be strictly adhered to, then extension required by the tenderer should be stated in the bid. No excuses for delay by any statutory authorities like custom etc. will be taken into consideration for extension of the period of delivery. The primary responsibility for supply of goods in time will be rest with the supplier.
5. **Penalty on late delivery:-** In the event of the late delivery of goods, the purchaser will recover from contractor by way penalty, a sum equal to half Percent (1/2 %)price of the goods delivered late per week calculated from the next day after the agreed delivery period is over.
6. **Penalty for inferior supply:** - If the equipment supplied is found of inferior quality or not as per specifications, the contractor shall replace the equipment within one month from the date of intimation at the cost & risk of the contract or and also liable to pay the fine imposed by the consignee, failing which Earnest Money Deposit & Security Deposit of the contractor shall be forfeited and the tenderer shall be liable for penal action including black-listing etc. In addition to the forfeiture of the Earnest Money Deposit & Security Deposit, if any fine is imposed by the consignee same shall be recovered from other dues to the contractor from–his bills payable.
7. **Replacement of Rejected materials:** - Tenderer / Contractor shall have to replace rejected material with approved one. The supplier shall remove the rejected material within 60 days failing which the same will be disposed off by consignee at the risk and cost of contract or without any further correspondence in this regards.
8. **Risk & Cost Purchase:** - In case the Contractor/s, shall at any time during the continuance of these presents fails to supply satisfactorily the equipment within the prescribed time as herein provided and or in case shall fail to replace any part/that may have been rejected with other of approved quality, the consignee shall bear liberty forthwith to procure the same in the open market at the risk and cost of the contractor/s. Similarly if the work underlying the contract is not executed satisfactorily within the stipulated period or after the same having been disapproved wholly or partly is not rectified or re-done to the satisfaction of the Officer in Charge within the said specific period, the consignee shall get the same executed or rectified or re-done through any other agencies, at the entire risk of the supplier and expenses thereby incurred, shall be payable by the supplier and /or may be deducted from any moneys due or become due to the contractor/s and the consignee may, however fix such other subsequent date as he may think fit by which the delivery of the said article and or execution of the said work shall be completed.
9. **Black listing:-** The firm shall be black-listed, if it is found that:-
 - a. Forged documents are submitted OR
 - b. If it becomes responsive on the basis of submission of bogus certificate /information.
 - c. In case of non-supply of equipment / accessories or supply of substandard quality or supply of equipment / accessories found to have been previously use for having reconditioned parts.
10. **Warranty Period :-**(including supply of spares).

The warranty period shall be for 2 years from the date of commissioning of all Equipment supplied as certified by the consignee.
11. **Annual Maintenance Contract (For rendering services)/ Comprehensive Annual Maintenance Contract:-**

The tenderer will have to agree in to an Annual Maintenance Contract exclusive of all spares & consumables (AMC) 3% per year of the Order value of the machinery / equipment (excluding taxes).

Where required, tenderer will have to agree for Comprehensive Maintenance Contract (CMC) inclusive of all spares @ 8% of the Order value (excluding taxes) of the equipment per year. The period of such AMC/CMC will be of 8 years after completion of warranty period. In case of non-compliance of AMC/CMC the supplier will be liable to pay a penalty. Such penalty shall be recovered from the amount of bank guarantee submitted. Payment for AMC /CMC on yearly basis will be made by the users of Health & Family Welfare Department, Government of Meghalaya. at the end of year after satisfactory performance report from the end user.

12. **Payment:-**

Payment of 80% of the contract value of equipment will be made after supply of material as per scope of supply & 20% after successful installation & commissioning of the machinery. The tenderer should install the equipment in the concerned department of the institution, give demonstration free of cost and train the staff of the department. In case of imported machine, the purchase orders will be issued in Indian currency and afterwards the exchange rates is increased, no financial implications will be accepted by the concerned institution or by the Health & Family Welfare department, Government of Meghalaya.

13. **Complaint/s:-**

If any bidder has a complaint against any process, decision etc. then the complainant has to give a written complaint within 48 hrs of such a decision or any other grievance to the Health & Family Welfare Department, Government of Meghalaya to review such a decision or grievance and mention clearly his grievance, after opening of technical bid only those bidders who have participated in tender process can lodge a complaint and after opening of commercial bid only those bidders who have been declared as technically qualified can lodge their grievance.

14. **Jurisdiction of the Courts:-**

In case of any claim, dispute or differences arising in respect of tender, the cause of action shall be deemed to have arisen in Meghalaya and all legal proceedings in respect of any such claim, dispute or difference shall be instituted in a Competent Court in the state of Meghalaya.

15. **Affidavit on Non-Judicial Stamp Paper of Rs. 100/- stating that the rates quoted in the tender are not higher than quoted at some other Institute in India during current financial year or not Higher than MRP" to be submitted to this office. (To be submitted to this office)**

16. **Affidavit on non-judicial stamp paper of Rs.100/-regarding the firm has not been found guilty of malpractices, misconduct or blacklisted/debarred for the quoted product by any government institute or by any local authority and other State Government/Central Government's organizations as on the date of submission tender document" (To be submitted to this office)**

17. **Force Majeure:**

A. For purposes of this Clause, 'Force Majeure' means an event beyond the Control of the Supplier and not involving the Supplier's fault negligence and not Fore seeable. Such events may include, but are not limited to, act soft he Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

B. If a Force Majeure situation arises at any time during the subsistence of contract, the Supplier shall promptly but not later than 30 days notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternate means for performance not prevented by the Force Majeure event.

C. Force Majeure will be accepted on adequate proof thereof. If contingency continues beyond 30 days, both parties will mutually discuss and decide the course of action to be adopted. Even otherwise contingency continues beyond 60 days then the purchaser may consider for termination of the contract on prorated basis.

The tenderer have to submit undertaking that THE DECISION OF Directorate of Health Services (DME) WILL BE FINAL AND BINDING Directorate of Health Services (DME) RESERVES THE RIGHTS TO REJECT ANY OR ALL TENDERS WITHOUT ASSIGNING ANY REASON.

I have read all the terms and conditions of the tender carefully and I agree to a bid by them.

Signature of Tenderer with Seal

**Directorate of Health services
Medical Education & Research (DME)**

3.3. BID SUBMISSION BY THE BIDDER

- 3.4.1 The information and/or documents shall be submitted by the Bidder as per the formats specified in the bid document.
- 3.4.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures /pamphlets. Non- adherence to formats and / or submission of incomplete information may be a ground for declaring the Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of the Bidder.
- 3.4.3 The Bidder shall furnish documentary evidence in support of meeting Technical and Financial Eligibility Criteria to fulfill the compliance of the bidding document

3.4. CLARIFICATIONS

- 3.6.1 Directorate of Health Services Medical Education & Research (DME) will not enter into any correspondence with the Bidders, except to furnish clarifications on RfS Documents, if necessary. The Bidders may seek clarifications or suggest amendments to RfS online, also soft copy by e-mail to reach Directorate of Health Services Medical Education & Research (DME) at the address, within 7 days from date of NIT as mentioned in Bid Information sheet.
- 3.6.2 Directorate of Health Services Medical Education & Research (DME) is not under any obligation to entertain/respond to suggestions made or to incorporate modifications sought by the bidder after 7 days from the date of NIT.
- 3.6.3 A prospective Bidder requiring any clarification of the Bid Documents may contact Directorate of Health Services Medical Education & Research (DME) in writing or by E- mailing address pasteurinstaituteshil@gmail.com not later than 7 days from the date of NIT.

3.5. AMENDMENTS TO BID DOCUMENT

- 3.7.1 At any time prior to the deadline for submission of Bids, Directorate of Health Services Medical Education & Research (DME) may for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bid document by issuing clarification(s) and/or amendment(s).
- 3.7.2 The clarification(s) / amendment(s) (if any) shall be notified on www.meghealth.gov.in and www.nhmmeghalaya.nic.in, at least two (2) days before the proposed date of submission of the Bid. If any amendment is required to be notified within two (2) days of the proposed date of submission of the Bid, the Bid Deadline may be extended for a suitable period of time.

- 3.7.3 Directorate of Health Services Medical Education & Research (DME) will not bear any responsibility or liability arising out of non-receipt of the information regarding Amendments in time or otherwise. Bidders must check the office notice board for any such amendment before submitting their Bid.
- 3.7.4 In case any amendment is notified after submission of the Bid (prior to the opening of Commercial Bid due date /time shall be extended and it will be for the Bidders to submit fresh Bids/supplementary bids as the date notified by the Directorate of Health Services Medical Education & Research (DME) for the purpose.

3.10 VALIDITY OF TENDER

- 3.10.1 The Tender shall be valid for a period of 120 days from the latest Date of Submission of Tenders, with bidder having no right to withdraw, revoke or cancel his offer or unilaterally vary the offer submitted or any terms thereof. In case of the bidder revoking or cancelling his offer or varying any term & conditions in regard thereof or not accepting letter of award, Directorate of Health Services Medical Education & Research (DME) shall forfeit the Bid Security/EMD furnished by him. **Confirmation regarding the Bid offer validity shall be clearly mentioned in the covering letter.**
- 3.10.2 In exceptional circumstances when letter of award (LOA) is not issued, Directorate of Health Services Medical Education & Research (DME) may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without forfeiting its Bid Security /EMD. A Bidder granting the request will neither be required nor permitted to modify its Bid in any manner.

3.11 PREPARATION OF TENDER

The bidder shall bear all the costs associated with the preparation and submission of his offer, and Directorate of Health Services Medical Education & Research (DME) will in no case be responsible or liable for those costs, under any conditions. The Bidder shall not be entitled to claim any costs, charges and expenses of and incidental to or incurred by him through or in connection with his submission of bid even though Directorate of Health Services Medical Education & Research (DME) may elect to modify / withdraw the invitation of Bid.

3.12 BID SECURITY/ EARNEST MONEY DEPOSIT

The Bidder-wise Bid Security (EMD) shall be as follows:

1	EMD Amount to be paid online /offline in Rs.	Rs. 2,35,000/-
2	Non-refundable Tender Fees Amount to be paid Online Fee	Rs. 10,000/- + GST (18%)

Earnest Money Deposit (EMD) as stipulated in above should be submitted with the Commercial bid in the form of Term Deposit only pledged in favour of "Directorate of Health Services Medical Education & Research (DME)". Any tender without EMD the bid offer will be rejected outright.

The EMD shall remain valid for a period of six (6) months ("Expiry Period") from the original date for online submission of "Commercial Bid" as per NIT with an additional Claim Period of thirty (30) days from the end date of Expiry period ("Claim Period").

- ❖ The Bid Security of bidders who fail in technical evaluation shall be returned after opening of financial package.
- ❖ The Bid Security of the unsuccessful bidders in financial opening shall be released after signing of contract agreement with the successful bidder.
- ❖ The Bid security of successful bidder shall be returned after award of work and submission of Performance BG and after the receipt of confirmation of their PBG's from their respective banker.

The Bid security shall be forfeited without prejudice to the Bidder being liable for any further consequential loss or damage incurred to Directorate of Health Services Medical Education & Research (DME):

- ❖ If a Bidder withdraws/revokes or cancels or unilaterally varies his bid in any manner during the period of Bid Validity specified in the RFS document.
- ❖ If the Successful Bidder fails to unconditionally accept the Allocation letter within 07 days from the date of its issue.
- ❖ If the Successful Bidder fails to furnish the “Performance Bank Guarantee (PBG)”.

3.16 RIGHT TO WITHDRAW THE BID DOCUMENT AND TO REJECT ANY BID

- 3.16.1 This RFS may be withdrawn or cancelled by Directorate of Health Services Medical Education & Research (DME) at any time without assigning any reasons thereof. Directorate of Health Services Medical Education & Research (DME) further reserves the right, at its complete discretion, to reject any or all of the Bids without assigning any reasons whatsoever and without incurring any liability on any account.
- 3.16.2 Directorate of Health Services Medical Education & Research (DME) reserve the right to interpret the Bid submitted by the Bidder in accordance with the provisions of the RFS and make its own judgment regarding the interpretation of the same. In this regard Directorate of Health Services Medical Education & Research (DME) shall have no liability towards any Bidder and no Bidder shall have any recourse to Directorate of Health Services Medical Education & Research (DME) with respect to the selection process. Directorate of Health Services Medical Education & Research (DME) shall evaluate the Bids using the evaluation process specified in this RfS, at its sole discretion. Directorate of Health Services Medical Education & Research (DME) decision in this regard shall be final and binding on the Bidders.
- 3.16.3 Directorate of Health Services Medical Education & Research (DME) reserves its right to vary, modify, revise, amend or change any of the terms and conditions of the Bid before submission. The decision regarding acceptance or rejection of bid by Directorate of Health Services Medical Education & Research (DME) will be full and final

3.17 EXAMINATION OF BID DOCUMENT

- 3.17.1 The Bidder is required to carefully examine the Technical Specification, terms and Conditions and other details relating to supplies as given in the Bid Document.
- 3.17.2 The Bidder shall be deemed to have examined the bid document including the agreement, to have obtained information on all matters whatsoever that might affect to execute the project activity and to have satisfied himself as to the adequacy of his bid. The bidder shall be deemed to have known the scope, nature and magnitude of the supplies and the requirements of material and labor involved etc. and as to all supplies he must complete in accordance with the Bid document.
- 3.17.3 Bidder is advised to submit the bid on the basis of conditions stipulated in the Bid Document. Bidder’s standard terms and conditions if any will not be considered.
- 3.17.4 Bid not submitted as per the instructions to bidders is liable to be rejected. Bid shall confirm in all respects with requirements and conditions referred in this bid document

PART - III
EVALUATION
CRITERIA AND
SCOPE OF WORK

EVALUATION, AWARD CRITERIA, COMPLETION OF PROJECT & SCOPE OF WORK

4.0 BID EVALUATION

4.1 The evaluation process comprises the following steps:

Step I	Responsiveness check of Techno Commercial Bid
Step II	Evaluation of Bidder's fulfillment of Eligibility Criteria
Step	Evaluation of Price Bid
Step	Successful Bidders(s) selection

4.2 Step-I: RESPONSIVENESS CHECK OF TECHNO-COMMERCIAL BIDS

The Techno Commercial Bid submitted by Bidders shall be scrutinized to establish responsiveness to the requirements laid down in the RFS subject to Clause 3.3.1, Clause 3.3.2, and Clause 3.3.3. Any of the following may cause the bid to be considered "Non-responsive", at the sole discretion of DME:

1. Bids that are incomplete, i.e. not accompanied by any of the applicable formats inter alia covering letter, power of attorney supported by a board resolution, applicable undertakings, format for disclosure, Bid Security, tender processing fee etc;
2. Bid not signed by authorized signatory and /or stamped in the manner indicated in this RFS;
3. Material inconsistencies in the information /documents submitted by the Bidder, affecting the Eligibility Criteria
4. Information not submitted in the formats specified in this RFS
5. Bid being conditional in nature
6. Bid (Both ONLINE & OFFLINE) not received by the Bid submission Deadline;
7. Bidder delaying in submission of additional information or clarifications sought by DME as applicable;
8. Bidder makes any misrepresentation

Each Bid shall be checked for compliance with the submission requirements set forth in this RFS before the evaluation of Bidder's fulfillment of Eligibility Criteria is taken up. In case of any non-conformity, the tender shall be disqualified and rejected

4.3 STEP-II: EVALUATION OF BIDDERS' FULLFILMENT OF ELIGIBILITY CRITERIA

EVALUATION OF ELIGIBILITY:

- a) Evaluation of Bidder's Eligibility will be carried out based on the information furnished by the Bidder as per the prescribed Formats and related documentary evidence in support of meeting the Eligibility Criteria as specified in Clause 3.3. Non-availability of information and related documentary evidence for the satisfaction of Eligibility Criteria may cause the Bid to be nonresponsive.
- b) Tenders not considered substantially responsive and not full filling the requirements of the tender document as evaluated as per item clause 4.1 shall be rejected by DME and shall not be allowed subsequently to be made responsive by correction or withdrawal of the nonconforming deviation or reservation
- c) If any tender is rejected, pursuant to paragraph (b) above, the Financial Part of such bidder shall not be opened
- d) The decision of DME as to which of the tenders are not substantially responsive shall be final

EVALUATION OF TECHNICAL COMPLIANCE:

- a) Bidders have to submit Technical Compliance sheet as per Annexure mentioned in the RFS for all the items/Equipmen for technical evaluation.
- b) DME may ask for Demonstration of all/few items if required!

4.4 STEP-III: EVALUATION OF PRICE BID

- a) All techno - commercially responsive bidders will be eligible for opening of their financial proposals. DME shall notify all technically qualified Bidders to attend the opening of the financial proposal. The financial proposal will then be opened in front of attending Bidders.
- b) The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record.
- c) Evaluation of financial offer will be based on rates quoted in prescribed format of Price Bid. Any alteration in Price Bid will not be given any cognizance. The rates are inclusive of all applicable taxes, duties, installation & Commissioning, CMC for 5 years, transportation & insurance etc.

4.5 STEP-IV: SUCCESSFUL BIDDER(S) SELECTION

- a) Based on the price quoted by the bidders, DME shall arrange the bids Package -wise in the ascending order of ranking i.e. L1, L2, L3, ___ (L1 being the lowest quoted bidder).
- b) In case of tie in quoted price among two or more bidders:
 - Then the ranking of the bidder shall be done based on their preference will be given to that bidder who has higher MAAT value
 - In case of tie even in the MAAT value among two or more bidders, then timing of electronic bid submission will be considered for evaluation of ranking and preference will be given to that bidder who has quoted his price (electronic form) earlier than others

5.0 AWARD OF TENDER & NOTIFICATION TO SUCCESSFUL BIDDERS

Prior to the expiry of the period of tender validity prescribed by DME, DME will notify the successful Bidder by registered letter, that his tender has been accepted (hereinafter and in the Conditions of Contract called 'the Letter of Award'). The "Letter of Award" will be issued under signature of Directorate of Health Services, DME. The "Letter of Award" will be sent in duplicate to the successful Bidder, who will return one copy to DME duly acknowledged and signed by the authorized signatory, within one week of receipt of the same by him. No correspondence will be entertained by DME in the unsuccessful Bidders.

5.1 SIGNING OF CONTRACT AGREEMENT:

The Successful bidder shall require to sign a Contract Agreement with Directorate of Health Services (DME).

5.2 SUBMISSION OF PERFORMANCE BANK GUARANTEE (PBG)

Successful Bidder will have to submit Performance Bank Guarantee (PBG) for the amount 5% of the contract value valid up to 3 months after the expiry of warranty period i.e. initially up to 27 months from the date of "Letter of Award".

6.0 LIQUIDATED DAMAGES (LD) FOR DELAY IN PROJECT IMPLEMENTATION

6.1 DME will issue the Letter of Award (LOA) for the Project (s). The Contractor shall complete the design, engineering, supply, storage, civil work, erection, testing & commissioning of project within 3 months from the date of issue of LOA. In case of failure to commission the full awarded project within the specified time, DME shall be entitled to:-

- ❖ Recover an amount at the rate of 1% (one percent) of the Contract Price per week or part thereof of delay, subject to maximum of 10% (ten percent) of the contract price as liquidated damage to DME. However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the works or from any other obligations and liabilities of the Contractor under the Contract
- ❖ Purchase the undelivered material/ equipment from elsewhere or to complete the balance work giving notice to the contractor and to recover any extra expenditure incurred thereby for having to purchase these materials or complete the work at a higher price, at the risk and responsibility of the Contractor
- ❖ Cancel the contract wholly or in part and to purchase materials/ equipment at the full risk and cost of the Contractor and forfeit the security deposit

6.2 The Contractor may apply for an extension of the Time for Completion if the Work is or will be delayed either before or after the Time for Completion by any of the following causes:

- ❖ Force Majeure
- ❖ The Contractor's work held up for not being given possession of or access to the Site for a considerable period.
- ❖ Concern authority to suspend the Works and the Contractor not being in default as to reasons of suspension.

7.0 TIME OF COMPLETION

DME will issue the LOA for the Project(s). The Contractor shall complete the design, engineering, supply, storage, civil work, erection, testing & commissioning of awarded project(s) within 3 months from the date of issue of LOA. In case of delay beyond scheduled commissioning period, the contractor shall be liable for Liquidated Damages (LD) as per Clause 6.1.

8.0 INSPECTION AND AUDIT BY DME

The Contractor shall permit DME or their authorized agency to inspect the contractor's site, accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by DME, if so required by DME any time.

9.0 SCOPE OF WORK

9.1 Procurement, Supply, Installation, Testing, Commissioning, Training and Maintenance

The scope of work includes the Procurement, Supply, Installation, Testing, and Commissioning of medical equipment at Shillong Medical College. It also includes comprehensive training of designated personnel and maintenance of all supplied equipment during the warranty period.

The selected vendor shall be responsible for the following:

- A. Supply, safe transportation, and delivery of medical equipment as per the specifications to Shillong Medical College.
- B. All equipment's shall conform to the Technical Specifications outlined in 'Section V: Technical Specifications'.
- C. Installation, assembly, testing, and successful commissioning of all equipment, ensuring full functional readiness.
- D. Provision of all necessary accessories, consumables, and tools required for installation and initial operation.
- E. Conducting detailed hands-on training for personnel who will operate the equipment, ensuring they are competent in usage, safety, and basic troubleshooting.
- F. Additional training to be provided to technical/maintenance staff for routine care, preventive maintenance, and upkeep of the equipment.
- G. Submission of user manuals, maintenance guides, and operational documentation for each equipment item.
- H. Comprehensive warranty coverage for the entire period specified, including servicing, repair, and replacement of faulty components at no extra cost.
- I. Ensuring availability of after-sales support and technical assistance through a dedicated service center or local support team.
- J. The contractor shall also be responsible for maintaining the equipment in good working condition throughout the warranty period and ensuring uninterrupted service at the medical facility.

PART - IV
EVALUATION
CRITERIA AND
SCOPE OF WORK

9.2 INSURANCE

- The Contractor shall be responsible and take an Insurance Policy for transit-cum storage- cum- erection for all the materials to cover all risks and liabilities for supply of materials on site basis, storage of materials at site, erection, testing and commissioning. The Contractor shall also take appropriate insurance during O&M period.
- The Contractor shall also take insurance for Third Party Liability covering loss of human life, engineers and workmen and also covering the risks of damage to the third party/material/equipment/properties during execution of the Contract including O&M period covering structural damages & fire hazard if applicable. Before commencement of the work, the Contractor will ensure that all its employees and representatives are covered by suitable insurance against any damage, loss, injury or death arising out of the execution of the work or in carrying out the Contract. Liquidation, Death, Bankruptcy etc., shall be the responsibility of Contractor if applicable.

9.3 WARRANTEES AND GUARANTEES

- The Contractor shall warrant that the goods supplied under this contract are new, unused, of the most recent or latest technology and incorporate all recent improvements in design and materials.
- The Contractor shall provide warrantee covering the rectification of any and all defects in the design of equipment, materials and workmanship including spare parts for a period of 5 years from the date of commissioning.
- The Contractor has to transfer all the Guarantees/ Warrantees of the different components to the Owner of the project. The responsibility of operation of Warrantee and Guarantee clauses and Claims/ Settlement of issues arising out of said clauses shall be joint responsibility of the Contractor and the owner of the project and DME will not be responsible in any way for any claims whatsoever on account of the above

9.4 WARRANTEES AND GUARANTEES

- The design, engineering, supply, installation, testing specifications performance of the equipment shall be in accordance with latest appropriate IEC/Indian Standards as detailed in the Section- III (Technical specifications) of the bid document. Where appropriate Indian Standards and Codes are not available, other suitable standards and codes as approved by the MNRE shall be used
- The specifications of the components should meet the technical specifications mentioned in Section III
- Any supplies which have not been specifically mentioned in this Contract, but which are necessary for the design, engineering, supply & performance or completeness of the project shall be provided by the Contractor without any extra cost and within the time schedule for efficient and smooth operation and maintenance of the SPV plant

9.5 PROGRESS REPORT

- The Contractor shall submit the progress report fortnightly (15 days) to DME in Prescribed Performa. DME will have the right to depute his/their representatives to ascertain the progress of contract at the premises of works of the Contractor

9.6 SUBMISSION OF PROJECT COMPLETION REPORT (PCR)

The Contractor shall submit the Project Completion Report (both in editable soft copy and signed hard copy) after commissioning of the project as per the Scope of RFS to DME as per the Format prescribed by DME. Non-submission of the report shall be considered as "Breach of Contract" and shall attract punitive actions as per the relevant provisions of the Contract including non-release of payment. However, the decision of DIRECTOR, DME shall be final in this regard.

9.7 APPLICABLE LAW

The Contract shall be interpreted in accordance with the laws of the Union of India. The station of DME Headquarter SHILLONG shall have exclusive jurisdiction in all matters arising under this contract.

9.8 SETTLEMENT OF DISPUTE

9.8.1 If any dispute of any kind whatsoever arises between DME and Contractor in connection with or arising out of the contract including without prejudice to the generality of the foregoing, any question regarding the existence, validity or termination, the parties shall seek to resolve any such dispute or difference by mutual consent.

9.8.2 If the parties fail to resolve, such a dispute or difference by mutual consent, within 45 days of its arising, then the dispute shall be referred by party by giving notice to the other party in writing of its intention to refer to arbitration as hereafter provided regarding matter under dispute. No arbitration proceedings will commence unless such notice is given. Any dispute in respect of which a notice of intention to commence arbitration has been given in accordance with Sub Clause 10.9.1, shall be finally settled by arbitration.

9.8.3 Any dispute submitted by a party to arbitration shall be heard by an arbitration panel composed of three arbitrators, in accordance with the provisions set forth below:

- DME and the Contractor shall each appoint one arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the two arbitrators do not succeed in appointing a third arbitrator within Thirty (30) days after the later of the two arbitrators has been appointed, the third arbitrator shall, at the request of either party, be appointed by the Appointing Authority for third arbitrator.
- If one party fails to appoint its arbitrator within thirty (30) days after the other party has named its arbitrator, the party which has named an arbitrator may request the Appointing Authority to appoint the second arbitrator.
- Arbitration proceedings shall be conducted with The Arbitration and Conciliation Act, 1996. The venue or arbitration shall be Shillong.
- The decision of a majority of the arbitrators (or of the third arbitrator chairing the arbitration panel, if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction as decree of the court. The parties thereby waive any objections to or claims of immunity from such enforcement.
- The arbitrator(s) shall give reasoned award
- Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the agreement unless they otherwise agree
- Cost of arbitration shall be equally shared between the Successful bidder or Contractor and DME

9.9 LANGUAGE

All documents, drawings, instructions, design data, calculations, operation maintenance and safety manuals, reports, labels and any other data shall be in English Language. The contract agreement and all correspondence between DME and the bidder shall be in English language

9.10 OTHER CONDITIONS

- The Contractor shall not transfer, assign or sublet the work under this contract or any substantial part thereof to any other party without the prior consent of DME in writing
- The Contractor or its subcontractors shall not display the photographs of the work and not take advantage through publicity of the work without written permission of DME
- The Contractor or its subcontractors shall not make any other use of any of the documents or information of this contract, except for the purposes of performing the contract
- DME will not be bound by any Power of Attorney granted/ issued by the Contractor or its subcontractors or by any change in the composition of the firm made during or subsequent to the execution of the contract. However, recognition to such Power of Attorney and change (if any) may be given by DME after obtaining proper legal advice, the cost of which will be chargeable to the Contractor concerned.
- Applicant requiring any Techno-Commercial clarification of the bid documents may contact in writing or by Fax or by mail. Verbal clarifications and information given by DME or its employees or its Representatives shall not be in any way entertained.

9.11 CONSIGNEE

The material shall be dispatched to the bidder's own store established in Meghalaya/ Local associate at Meghalaya. The material will be verified by Director DME at the bidder's store & will be handed over to the bidder again for installation & commissioning at site.

9.12 PAYMENT TERMS

The total contract value shall be calculated as follows:

The total contract value = [Supply Cost + Cost of Installation & Commissioning]

The invoice of the contractor shall be verified by Director, DME and payment shall be made by Director, DME. Bills should be submitted route through respective nodal officer concerned

The payment terms shall be as follows:-

- a) The contractor shall be eligible for payment of 80% against Supply on submission of documents indicated herein under:-
 - Contractor's detailed invoice and proof of supply
 - Copy of unconditional acceptance of the Letter of Award (LOA) and signing of contract agreement

NB: 1. Only 1 (one) nos. of bill shall be allowed after completion of 100% awarded work

- b) The Balance 30% against Supply, Erection and Commissioning costs of the Items/ Equipment
 - Satisfactory Installation Report Signed by the H.O,D./Authorised person of respective Department and verified by The Dean, Government Medical College, Shillong

Note: All payment shall be made subject to the receipt of fund from Govt. of Meghalaya

NB: 1. Only 1 (one) nos. of bill shall be allowed after completion of 100% awarded work

9.13 TAXES AND DUTIES:

The price shall be **inclusive** of all applicable taxes and duties. The bidder shall be entirely responsible for all taxes, duties, license fees, etc. All taxes payable as per Government norms will be payable by the contractor. **If any new tax/duty is levied during the contract period the same will be borne by the Contractor exclusively.** TDS will be deducted from the payment of the contractor as per the prevalent laws and rules of Government of India and Government of Meghalaya in this regard.

9.14 TRANSPORTATION :

The Bidder is required under the contract to deliver the goods to the site. (The storage/ handling etc shall be sole responsibility of the contractor till the commissioning/ handover of the system).

9.15 TERMINATION FOR INSOLVENCY:

DME may at any time terminate the contract by giving written notice to the contractor without compensation to the contractor, if it becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the DME.

9.16 TERMINATION FOR CONNIVANCE:

DME, may by written notice sent to the Contractor, terminate the contract, in whole or in part at any time for its connivance. The notice of termination shall specify that termination is for the bidder's connivance in the interest of DME.

PART - V **TECHNICAL** **SPECIFICATIONS**

Specifications:

Item no. 1 - Sherrington Starling kymograph (electrically driven)

ELECTRICAL STUDENT KYMOGRAPH (Superior Quality) :With special heavy duty motor,Oil lapped gear system jerk free running instantaneous start & stop clutch , stainless steel spindle screw lift.15x15cm.cylinder.

Item no. 2 – Myograph stand
Appx. 45 cm. High stainless steel upright heavy base

Item no. 3 – Inductorium

Inductorium for physiology. An inductorium, also known as an induction coil or spark coil, an electrical transformer that produces high-voltage pulses from a low-voltage direct current supply

Item no. 4- Simple key

Simple key for physiology

Item no. 5 - Short circuiting key

Short circuiting key for physiology

Item no. 6 - Pohl's commutator

Pohl's commutator for physiology

Item no. 7 - Vibrating interrupter

Vibrating interrupter for physiology

Item no. 8 - Muscle trough

Muscle trough for physiology

Item no. 9 - Muscle lever

Muscle lever for physiology

Item no. 10 - Muscle grip of femur clamp

Muscle grip of femur clamp for physiology. Made of SS

Item no. 11 - Hook and Weight set

Hook and weight set for physiology

Material – MS

Rust proof material

Item no. 12 - Heart lever (simple & Starling)

Heart Lever (Simple & Starling) for physiology

Item no. 13 - Frog board for dissection

Frog Board for dissection for physiology

Item no. 14- Enamel tray

Enamel tray for physiology. Tray Enamel Tray Ceramic Coated 6x8 inch

Item no. 16- Low voltage unit for tapping 2 and 4 volts for stimulation

Low voltage unit for 2 & 4 volts for simulation. AC to DC 2 & 4 volts for physiology

Item no. 17- Electromagnetic time marker

Coil wound round soft iron bar, Coil connected to screw, Soft iron plate with spring, Tension of screw can be regulated by screw, Writing lever attached to plate, Bar and holder to fix the instrument on stand

Item no. 18- Tuning fork time marker 100/sec

Tuning Fork time Markers 100/sec

Item no. 19- Electrodes

SIMPLE ELECTRODE Acrylic block with copper wire poles. Copper wire placed in holder made of nonconductive material (cork, Plastic etc) With screw Shielded electrode two wire parallel to each other in layer of nonconductive material

Item no. 20- X-blocks

X blocks for Physiology

Item no. 21- Spirit lamps

Stainless steel spirit lamp for laboratory use. It is made up of stainless steel material which is highly durable. Wick is replaceable.

Item no. 22- Marey's tambour

Marey's tambour for physiology

Item no. 23- Microscopes, oil immersion

1. Stable, Robust aluminium die cast parts
2. Monocular Tube inclinable upto 90° , mechanical tube length 150 – 160 mm
3. Detachable horizontal graduated mechanical stage with convenient adjustment for slide
4. Quadruple revolving nose piece with positive centering & click stops
5. LED light source
6. Bright field condenser , Abbe N.A.1.25 with IRIS Diaphragm and swing out filter holder
7. Separate knobs for coarse and fine focusing adjustments
8. Illumination- Plano concave mirror mounted on gimble

9. Objectives- Achromatic 10X , 40X SL & 100X SL Oil immersion
10. Supplied with vinyl cover

Item no. 24- Demonstration eye piece

10 x With pointer. For the help of student to point out particular specimen

Item no. 25- Double demonstration eye piece

The Demonstration Eye piece fits any standard 23 mm dia. Eye piece, making it possible for two persons to see the same object the same time. Fitted with a pointer. Magnification : 10X

Item no. 26- Stage incubator

1. Stage incubator with temperature range from Ambient to 70 °C
2. Temperature accuracy- $\pm 0,5$ °C

Item no. 27- Westergren's pipette for E.S.R. on stand (with space pipette)

1. Westergren's pipette for E.S.R. on stand (with space pipette)

Item no. 28- Wintrobe's tube for ESR and PCV with stand

1. Wintrobe's pipette for ESR and PCV with stand

Item no. 29- Perimeter Priestley Smith S/LP.984 B & T

PERIMETER PRIESTLEY SMITH MODEL: The perimeter is an instrument for accurate charting of the field of vision. It consists of: A vertical stand on which a metallic arc is pivoted. It also bears a circular black disc to read the meridian in which the arc in shape of a semicircle with radius 330 mm. Its rotating in any direction and fix at any position with a tightening screw. The arc is graduated from 0° to 90° with a movable test object which is a white colour spot of size 10mm diameter painted on a circular disc it can be moved with arc. An adjustable chin rest and a detachable leveling bar is fixed in front of the metallic arc. A scale and circular chart frame to hold the chart paper in position is provided at the back of the circular disc. A metallic graduated scale with a movable Pin-Punch pointer is fixed to mark on the perimeter chart paper. Supplied With charts

Item no. 30- Hemoglobin-meter Sahli's or Hellige (with spaces)

1. Consists of comparator, hemoglobin tube, hemoglobin pipette, stirrer, Pasteur pipette etc.,

2. The Haemoglobinometer Sahli's type, square tube type and the kit should consist of the following:-
Comparator Holder –
 1. It to be black in colour and the windows should have the following dimensions :-
 - a. Height : 3 cms (Minimum)
 - b. Width: 0.5. cms (Minimum) Colour comparator. Square Hb Tube graduated on both sides for measurement of haemoglobin in percentage and gram % · 20 Micolitre Hb – Pipette · , acid vial · Glass Stirrer · Dropper with Teat · Cleaning Brush
3. The kit supplied with the following standard accessories:
 1. Square Hb tubes: 01 no.
 2. Hb pipettes: 01 no.
 3. Dropper: 01 no.
 4. Glass stirrer: 01 no.

Item no. 31- Hemocytometer

Haemocytometers with red & white pipettes With heavy cover slip; improved Neubauer counting chamber specialized microscopic slide. Inside cell of chamber: an area of 9sq.mm (3X3 Sq.mm) divided in to 9 squares of 01mm side by means of lines. The central small square is further divided by triple lines into $5 \times 5 = 25$ smaller squares each with side $1/5$ of a mm. each of the square is further divided in to $4 \times 4 = 16$ smallest squares with side equal to one twentieth of a mm. Thus dimension of individual cell of $0.05 \times 0.05 \times 0.0025$ mm² Gap between cover: 0.1mm, Slip Grid area. Pipettes: RBC and WBC pipettes Accessories: Rubber suckers for RBC & WBC pipettes

Item no. 32- sphygmomanometer (digital) (Mercury based instruments to be replaced with suitable alternatives)

Digital Sphygmomanometer – good Quality, Automatic

Item no. 33- Stethoscopes

Good Quality Stethoscope for students

Item no. 34- Stethoscopes, demonstration with multiple ear pieces

Good Quality Stethoscopes, demonstration with multiple ear pieces

Item no. 35- Polygraphs

POLYGRAPH 4-Channel Computerized Polygraph covering following lessons in ON LINE and OFF LINE mode having following features FEATURES RR Analysis Merging of waves Integration of Waves Patient Database information Four Channel Modern Polygraph Real Time data storage & review facilities Experiments on Animal & Human facilities Experiments on Animal & Human subjects Frequency, time & Voltage Marking on individual channel EXPERIMENTS Isometric Force Phono Cardiogram Volumetric Changes Respiration & Temperature Invasive & Non invasive BP ECG, EEG, EMG, ENG, GSR etc. Plethysmograph (Pulse, Heart Rate etc.) System Comprises of:

i) 4 Ultimate hardware unit 1 (4 Channels digital data acquisition system having provision to record independently EEG, EMG, EOG, GSR respiration, Pulse, BP, Volume, Force etc. ii) Software on CD 1 iii) Serial cable 1 iv) Main cable 1 v) 3 Pin Junction Box 1 vi) 5 Pin Junction Box 1 & Standard accessories

Item no. 36- Venous pressure apparatus

- Suitable for continuous or intermittent monitoring of central venous pressure during infusion, particularly in ICU, CCU, OT's and casualty departments.
- Manometer tube with graduation from -4 cm to +34 cm and attached to three way tap.
- Latex free injection site is provided for extra medication.
- Sliding indicator provided to record previous reading.
- Moulded clamps with latex free rubber strings for easy fixation on the intravenous stand.
- Sterile, individually packed in peelable pouch.
- Individually packed in a box.

Item no. 37- Spirometer, ordinary (VITALLOGRAPH)

SPIROMETER: 6 liter capacities for vital capacity, or use as a gasometer with chain compensate counter balance to float through pulley, calibrated to denote volume, inlet & outlet tubes. Stainless steel chamber, complete with corrugated rubber tube and mouth piece. Spirometer, Ordinary (6 liter)

Item no. 38- Gas analysis apparatus, Halden's student type

Gas Analysis apparatus – Halden Student Type made of Glass

Item no. 39- Van Slyke's apparatus manometric

A Van Slyke apparatus on a wooden stand typically consists of the following components: Glass Parts: Reaction Chamber: A cylindrical glass container where the reaction to release the gas occurs. Manometer: A U-shaped or

straight glass tube filled with a liquid to measure the pressure or volume of the gas released. Pipettes and Reservoirs: Glass pipettes for precise liquid handling and reservoirs for reagents. Stopcocks and Tubing: For controlling the flow of liquids or gases. Connecting Joints: Ground-glass connections for secure assembly. Wooden Stand: A solid and stable base, made of varnished or polished hardwood, designed to hold the delicate glass parts securely. Adjustable clamps and mounts to ensure proper alignment of the apparatus and to prevent breakage during experiments.

Item no. 40- Gas analyzer automatic for CO₂, O₂, N₂

Automatic respiratory Gas analyzer for CO₂, O₂, N₂

Item no. 41- Douglas bag, complete

Douglas bag complete with accessories

Item no. 42- Basal metabolism apparatus

Benedict Roth Recording Spiro meter: Six liter capacity Spiro meter has been provided with a unit of 4-speed electric recording Kymograph with gravity writing ink-pen. Easily accessible valves, soda-lime container with screw connections in central chamber drain cocks to all tubes and containers. Sampling cock provided for connecting the patient to Spirometer or atmosphere. The unit is fitted on portable frame. Complete with valves tube, mouth piece, nose clip, ink writing pen marker etc.

Item no. 43- Mosso's Ergograph

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

Item no. 44- Clinical thermometer (Mercury based instruments to be replaced with suitable alternatives)

Clinical thermometer (Mercury based instruments to be replaced with suitable alternatives)

Item no. 45- Compass aesthesiometer

Stainless steel/Brass, with well formed points, and an adjusting screw giving movement of app: 1 mm per half turn read on a scale.

Item no. 46- Thermo-aesthesiometer

HEAT & COLD SPOT HAMMER: double pointed, from stainless steel

Item no. 47- Algometer

Broad blunt knob attached to spring which can be pressed With scale to measure pressure

Item no. 48- Apparatus for passive movement

Maintaining or increasing the amount of movement in a joint, using a mechanical device that applies forces to produce joint motion without normal function. Usually, the knee is moved constantly through a variable range of motion to prevent stiffness and to increase the range of motion. Motorized CPM specially designed also to relieve pain after surgery or injury to major joints of upper and lower extremities.

Target Body Part	Ankle, Knee
Operation Mode	Battery Operated
Brand	BMS
Condition	New
Flexion Angle	0 degree - 120 degree
Treatment Time	Variable from 5 minutes to 30 minutes

Applications:

- control post operative pains
- reduce inflammations
- protect healing repair of tissues.

Item no. 49- Knee hammer

The knee hammer features a handle and a triangular rubber head

Item no. 50- Stethograph

Corrugated rubber tube with side clips open link chain for use with any tambour. 60 cm long and 2 cms diameter corrugated and impervious tube made of canvas with rubber one end closed other end open Metal chain at both ends one chain with hook Open end connected with pressure tube to tambour

Item no. 51- Bicycle Ergometer

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 front of the tension balances. The back wheel carried in its circumference a stout calico the ends of which are attached to spring balances through two set of adjustable pulleys. An adjustable counter records the revolutions of the wheel .With audio indication of each revolution

Item no. 52- Olfactometer

Olfactometer – standard

Item no. 53- Ophthalmoscope

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

Item no. 54- Schematic eye

Schematic eye in general is a mathematical or physical model that represents the basic optical features of the real eye. Objective is to provide a basis for theoretical studies of the eye as an optical instrument

Item no. 55- Perimeter with charts (Lister's)

PERIMETER PRIESTLEY SMITH MODEL: The perimeter is an instrument for accurate charting of the field of vision. It consists of: A vertical stand on which a metallic arc is pivoted. It also bears a circular black disc to read the meridian in which the arc in shape of a semicircle with radius 330 mm. Its rotating in any direction and fix at any position with a tightening screw. The arc is graduated from 0° to 90° with a movable test object which is a white colour spot of size 10mm diameter painted on a circular disc it can be moved with arc. An adjustable chin rest and a detachable leveling bar is fixed in front of the metallic arc. A Scale and circular chart frame to hold the chart paper in position is

provided at the back of the circular disc. A metallic graduated scale with a movable Pin-Punch pointer is fixed to mark on the perimeter chart paper. Supplied With charts

Item no. 56- Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 Hz)

Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 Hz)

Item no. 57- Color perception lantern Edridge green

Colour Perception Lantern Edridge Green: To test Color Vision

Item no. 58- Maddox rod

Maddox rod

Item no. 59- Newtons color wheel

Newtons color wheel

Item no. 60- Dynamometer

Digital Hand Dynamometer (200 Lbs / 90 Kgs) Grip Strength Measurement Meter Auto Capturing Hand Grip Power Hand Strengtheners

Item no. 61- Otoscope

Battery operated instrument with good illumination to visualize the ear tympanic membrane

Item no. 63- Stop watch

Stop watch for Laboratory use

Item no. 64- Multi-channel Physiograph, 3 channels, complete with accessories

STUDENT PHYSIOGRAPH with Three Channel
Console with Time & Event channel and stimulator Human & Animal experiments.
COUPLERS:

i) STRAIN GAGE ii) ISOTONIC iii) PULSE RESPIRATION iv) TEMPERATURE

v) EKG (CLINICAL) with Electrode, 5 pin Junction box and Jell vi) BIO POTENTIAL (with Electrodes, 3 pin Junction box, Paste and Electrodes for Action Potential)

TRANSDUCERS: i)PRESSURE ii) VOLUME iii) MUSCLE ACTIVITY/FORCE iv) RESPIRATION BELT v) ISOTONIC FINE MOVEMENT vi) PULSE vii) RESPIRATION (Thermistors Type) viii) TEMPERATURE

Item no. 65- Student physiograph, (single channel) with accessories

PHYSIOGRAPH is used for the recording of Bio-Electrical Potentials e.g. EEG, ECG, ENG, EMG, Pulse,, Respiration, Blood Pressure etc.

Single channel Physiograph.

Compact light weight and easy to operate by a beginner.

Stand alone unit having colour display for displaying online and offline recording data.

System must have minimum Six couplers fitted in a Single unit easy to carry

System must have minimum have Eight transducers (Force, Pressure, Volume, Respiration, Temperature, Pulse, Respiration Belt and Isotonic).

Facility to store recording data and review the same on Display

Item no. 66- Centrifuge, high speed with technometer

1. Laboratory Centrifuge are suitable for routine sample analysis in Medical Hospital, Institutional Laboratories
2. Maximum speed – upto 6000 rpm
3. Brushless motor
4. Dynamic Brake
5. Safety lid lock
6. LCD/LED Display of speed & time

Item no. 67- Colorimeter, photoelectric

1. Digital Photo Diode based Colorimeter
2. Colorimeter with 5 filters ranging from 400 to 700 nm
3. Should consist of long lasting photo diode detector
4. Should have sample volume of 1ml or less
5. Should have range of absorbance 0 to 1.99 and % transmittance 0 to 100%
6. Should have dust protection cover for the instrument.

Item no. 68- pH meter electric

1. pH meter with range 0-14.0
2. Resolution 0.1 pH

3. Supplied with Electrode, Dust Cover, In-built Power Cord, Operational & Instruction Manual
4. Supplied with Combination Glass pH Electrode (0-70°C) & Standard Buffer Tablets

Item no. 69- Electronic stimulator

Electronic simulator for Physiology Department

Item no. 70- Thermometers, balances, microslides and glassware

Balance, Micro Slide Glassware Thermometers,
Balances, Dispensing balance 100 gm with weight

Beakers Borosilicate 1000 ml, Beakers Borosilicate 500 ml, Beakers Borosilicate 250 ml, Beakers Borosilicate 100 ml, Conical Flasks Borosilicate 500 ml, Conical Flasks Borosilicate 250 ml, Conical Flasks Borosilicate 100 ml, Measuring Cylinder Borosilicate 250 ml, Measuring Cylinder Borosilicate 100 ml, Measuring Cylinder Borosilicate 50 ml, Measuring Cylinder Borosilicate 10 ml, Pipette Vol. Borosilicate 25 ml, Pipette Vol. Borosilicate 10 ml, Pipette Gra. Borosilicate 10 ml, Reagent Bottle Borosilicate 1000 ml, Reagent Bottle Borosilicate 500 ml, Reagent Bottle Borosilicate 250 ml Reagent Bottle Borosilicate 100 ml, Flasks Vol. Borosilicate 1000 ml, Flasks Vol. Borosilicate 500 ml Flasks Vol. Borosilicate 250 ml, Flasks Vol. Borosilicate 100 ml, Rectangular Jars – Moulded, Jointless made of Borosilicate 3.3 Glass. Edges grounded Sizes – 200 x 125 x 125 , 200 x 150 x 100 , 220 x 195 x 80 , 250 x 165 x 140 , 250 x 250 x120 , 360 x 150 x100 (all sizes in mm , Each Jar – 2 qty)Borosilicate Petri dish Borosilicate Small, Burette 50 ml, Round Bottom Flask 250 ml, Round Bottom Flask 500 ml, Round Bottom Flask 1000 ml, Test Tube, Pasture Pipette, Microslides, Cover slips(Glasswares- 10 each except Jars)

For Glassware following certificates & test reports of Bidder/Manufacturer are must.

ISO 9001:2015, DIN EN ISO 14001:2015, DIN ISO 45001:2018, ISO 50001:2018, ISO / IEC 17025:2017, . Borosilicate (3.3 expansion) test report from any Government laboratory or CGCRI – (Last 3 years reports) , MSDS for 3.3 Borosilicate Glass, Glass testing report of density and thermal conductivity from CSIR-CGCRI., should comply with the ISO/BIS standards related to hydraulic resistance HGB-1, Annealing lehr and Polarimeter certificate, Enamel durability test report, Autoclave test report

Item no. 71- Digital Physiograph

PHYSIOGRAPH is used or the recording of Bio-Electrical Potentials e.g. EEG, ECG, ENG, EMG, Pulse,, Respiration, Blood Pressure etc.

Digital Physiograph with time and Event channel.

Compact light weight and easy to operate by a beginner.

Stand alone unit having colour TFT display for displaying online and offline recording data.

System must have minimum Six couplers fitted in a Single unit easy to carry

System must have minimum have Eight transducers (Force, Pressure, Volume, Respiration, Temperature, Pulse, Respiration Belt and Isotonic).

Facility to store recording data and review the same on Display

Item no. 72- ECG Machine

Description of Function

- 12 leads synchronous acquisition, display on the same screen, synchronization print
- 6 Inch color LCD screen operation

- Manual/Auto printing: 3CH+3R, 6CH, 6CH+1R, 12CH, 5 minutes arrhythmia analysis of waveform
- 60 seconds rhythm analysis of waveform
- 200 ECG data storage, SD card supported
- Automatic analysis, calculation, waveform review
- Alarm of electrodes breaking off, Human diagram indicates the unconnected lead
- Built-in rechargeable lithium battery, AC/DC power conversion

Item no. 73- Reagents

Set of standard reagents for Physiology

Item no. 74- Harvard step

Harvard step for use in Physiology

Item no. 75- Otorhinolaryngoscope

Medical Otorhinolaryngoscope Is A Device That Combined Specialties Of Diseases Of The Ear, Nose, Pharynx, And Larynx; Including Diseases Of The Head And Neck, Tracheobronchial Tree, And Esophagus.

Item no. 76- Sterilizer electrical

1. Vertical cylindrical high-pressure steam sterilizer
2. Chamber capacity: 35-40 litre
3. Electrical Power : 230V

Item no. 77- Instrument trolley

Instrument trolley made of SS 304

Item no. 78- Refrigerator

Domestic refrigerator 180-250 ltrs

Item no. 79- Oxygen cylinder with trolley

Oxygen cylinder minimum 10 ltrs with trolley

Item no. 80- CO2 cylinder with trolley

CO2 cylinder minimum 10 ltrs with trolley

Item no. 81- Water distillation steel with spare heating elements

Water distillation still Menesty Type, with spare heating elements

Item no. 82- All glass distillation apparatus double stage

1. Double Stage Distillation Units provide automatic working for getting pure water by distillation method capable of removing a wide spectrum of impurities. Raw water is boiled to produce steam which is taken to a condenser where it returns to the liquid state, free of impurity.
2. Output 2.5 Ltrs/Hr or more
3. Heater – Quartz
4. Boiler – 3.3 Borosilicate Glass
5. Condenser - 3.3 Borosilicate Glass
6. Output water –Pyrogen free

Item no. 83- Voltage stabilizer

1. 5 KVA voltage stabilizer
2. Efficiency should be more than 95%

Item no. 84- Interactive smartboard for classroom

Screen size – 65 inches or better
Panel Type – IPS or equivalent
Aspect Ratio – 16:9 or better
Resolution – UHD or better
Response time – 10 ms or better
Germ resistant glass , Anti glare and tempered
High precision touch panel
Touch response time < 12 ms
Memory – 8 GB or better
Storage – 64 GB or better
USB, HDMI , Built in wifi

Item no. 85- Digital Perimeter

PERIMETER PRIESTLEY SMITH MODEL: The perimeter is an instrument for accurate charting of the field of vision. It consists of: A vertical stand on which a metallic arc is pivoted. It also bears a

circular black disc to read the meridian in which the arc is in shape of a semicircle with radius 330 mm. Its rotating in any direction and fix at any position with a tightening screw. The arc is graduated from 0° to 90° with a movable test object which is a white colour spot of size 10mm diameter painted on a circular disc it can be moved with arc. An adjustable chin rest and a detachable leveling bar is fixed in front of the metallic arc. A Scale and circular chart frame to hold the chart paper in position is provided at the back of the circular disc. A metallic graduated scale with a movable Pin-Punch pointer is fixed to mark on the perimeter chart paper. Supplied With charts

Item no. 86- Digital Spirometer

PC based/Micro controller based digital spirometer capable of Diagnosing, differentiating & measuring various pulmonary disease.
4 inch or better LCD Display
Flow measurement – upto +/- 14 L/s
Memory – Minimum 500 Data

Data transmission: FVC, FEV0.5, FEV1, FEV3, FEV0.5/FVC, FEV1/FVC, FEV3/FVC, PEF, FEF25-75%, MEF25%, MEF50%, MEF75%, FIV, FIV1, FIV1/FIVC, FIV1/FVC, PIF, SVC, IV, ERV, IRV, MVV, RR, PRE/POST test

Item no. 87- Yoga mat

Yoga mat

Item no. 88- Digital ECG Machine

Description of Function

- 12 leads synchronous acquisition, display on the same screen, synchronization print
- 6 Inch color LCD screen operation
- Manual/Auto printing: 3CH+3R, 6CH, 6CH+1R, 12CH, 5 minutes arrhythmia analysis of waveform
- 60 seconds rhythm analysis of waveform
- 200 ECG data storage, SD card supported
- Automatic analysis, calculation, waveform review
- Alarm of electrodes breaking off, Human diagram indicates the unconnected lead
- Built-in rechargeable lithium battery, AC/DC power conversion

Item no. 89- Electronic stimulator

1. Electronic simulator for Physiology department

General:

Item no.1- Computers

Latest branded desktop computer with Windows software & Printer

Item no.2- Waste disposal bins

Plastic Green & Blue fixed garbage Bins

Item no.3- Markers

Markers of various colours

Item no. 4- White boards

Regular melamine whiteboard 3 x 4 feet size

Item no.5- Store Racks

Steel Racks with 3-4 compartments made of slotted angles, Painted for storage , Height 5-6 feet

Item no.6- Electric and water points with sink and eye wash stations

Eye & face wash shower , wall mounted , Water inlet , Drain – ½ inch BSP, Water outlet – 1 inch

Item no.7- Laboratory glasswares

Glassware – Made of 3.3 Borosilicate Glass

For Glassware following certificates & test reports of Bidder/Manufacturer are must.

ISO 9001:2015, DIN EN ISO 14001:2015, DIN ISO 45001:2018, ISO 50001:2018, ISO / IEC 17025:2017, . Borosilicate (3.3 expansion) test report from any Government laboratory or CGCRI – (Last 3 years reports) , MSDS for 3.3 Borosilicate Glass, Glass testing report of density and thermal conductivity from CSIR-CGCRI., should comply with the ISO/BIS standards related to hydraulic resistance HGB-1, Annealinglehr and Polarimeter certificate, Enamel durability test report, Autoclave test report

Sr.	Description	Qty
1	BEAKER 1 LTR	2
2	BEAKER 2 LTR	2
3	BEAKER 100 ML	50
4	BEAKER 250 ML	50

5	BEAKER 50 ML	50
6	BEAKER 500 ML	10
7	BEAKER 5L	2
8	DROPPING BOTTLE 125 ML	50
9	CENTRIFUGE TEST TUBE 15 ML	50
10	CENTRIFUGE TEST TUBE 15 ML WITH STOPPER	50
11	CONICAL FLASK 1 LTR	10
12	CONICAL FLASK 250 ML	10
13	CONICAL FLASK 50 ML	50
14	CONICAL FLASK 4L	2
15	CONICAL FLASK 100 ML	50
16	VOLUMETRIC FLASK 1 LTR	2
17	VOLUMETRIC FLASK 100 ML	10
18	VOLUMETRIC FLASK 250 ML	10
19	VOLUMETRIC FLASK 500 ML	10
20	FUNNEL 50 MM	10
21	FUNNEL 75 MM	10
22	FUNNEL 90 MM	10
23	MEASURING CYLINDER 1 LTR	10
24	MEASURING CYLINDER 2 LTR	10
25	MEASURING CYLINDER 10 ML	10
26	MEASURING CYLINDER 100 ML	20
27	MEASURING CYLINDER 250 ML	20
28	MEASURING CYLINDER 50 ML	10
29	MEASURING CYLINDER 500 ML	10
30	MEASURING CYLINDER 25 ML	10

31	REAGENT BOTTLE WITH STOPPER 1 L AMBER	10
32	REAGENT BOTTLE WITH STOPPER 1 L	10
33	REAGENT BOTTLE WITH STOPPER 100 ML AMBER	50
34	REAGENT BOTTLE WITH STOPPER 100 ML	50
35	REAGENT BOTTLE WITH STOPPER 250 ML AMBER	50
36	REAGENT BOTTLE WITH STOPPER 250 ML	50
37	REAGENT BOTTLE WITH STOPPER 500 ML AMBER	10
38	REAGENT BOTTLE WITH STOPPER 500 ML	10
39	BURETTE GRADUATED 25ML	20
40	Petri Dish 90/100 mm	100

Item no.8- Pipettes and micropipettes

1. Light weight, Ergonomic design auto pipettes
2. Fixed volume Pipettes - 1ml,0.5ml,0.2ml,0.1ml and 0.02ml, variable volume pipettes – 0.5-10 uL , 10-100 uL, 2-200 uL, 100-1000 uL
3. Supplied with 1000 disposable tips with each pipette

Item no.9- Test tubes and vials

TEST TUBE 5 ML, 10 ML & 15 ML – 1000 each

Item no.10- Test tube stand

Test Tube stands – 100 nos.

PART - VI

SAMPLE FORMS

AND ANNEXURES

List of Annexure

Annexure No.	Description
Annex No. I	Proforma to be submitted along-with Technical Bid
Annex No. II	Manufacturer Authorization Letter
Annex No. III	Technical Compliance Chart
Annex No. IV	User List of Quoted Model
Annex No. V	Details of After Sales Service Station
Annex No. VI	Terms & Condition Acceptance Certificate
Annex No. VII	Consignee List.
Annex No. VIII	Proforma of Affidavit.
Annex No. IX	Proforma of Affidavit.
Annex No. X	Annual Turnover proforma
Annex No. XI	Format for doubts/queries for Pre-bid meeting
Annex No. XII	Power of Attorney
Annex No. XIII	Undertaking to be signed by the Bidders
Annex No. XIV	Financial proposal Proforma (BOQ)

Annexure- I

(Incomplete Annexure is liable for Rejection)

(On Bidder's Letterhead)

PROFORMA TO BE SUBMITTED ALONG WITH TECHNICAL BID

- 1 Name and address of the firm:-
- 2 Registered Head Office Postal address:-
- 3 Telephone No. & FAX & E - Mail:- :-
- 4 In case of proprietorship/Partnership firms, names of proprietors/partners/Directors with address and percentage of share
- 5 Ownership status of the firm
(Maharashtra Govt. /Central Govt./Jt. Sector/co-operative/SSI/Private)
- 6 Whether tendering as a manufacturer/importer/authorized dealer
- 7 **Name of the person & Phone no. who should be contacted by this office in case of any urgent problem.**
- 8 **Full Address with Email ID, Phone Numbers and Location of Original manufacturing work/factory/factories:**

I/we here by declare that particulars furnished above are true to the best of my/our knowledge and belief and that if any of the particulars is found to be materially incorrect /misleading, my /our tender shall be rejected and I / we are liable for penal action as per terms specified in the "term and conditions of tender".

Date:-

Full Signature of the tenderer with official seal and address

ANNEXURE II

(Incomplete Annexure is liable for Rejection)

Manufacturer's LetterHead

Ref:-
To,

Date:-

Dear Sir,
I/We the undersigned who is/are authorized signatory/signatories of the
(Name & complete address)

Manufacturing Firm M/s.....
.....

.....Country of Origin..... (Name & complete address) do here

by authorise M/s..... to quote
rates/ collect the orders/ raise the bills for the items manufactured by me/us under the Tender
No.....

I/We have gone through all the terms and conditions and read important instructions of the tender and will be binding on me.

We here by confirm that all after sale services of our product supplied will be provided by us directly or through authorized Dealer.

Manufacturer's
Authorized Signature
with Stamp and Seal

ANNEXURE III

(Incomplete Annexure is liable for Rejection)

Technical Compliance Chart

(On Bidder's Letterhead)

Name of the Equipment/ Instrument

Make & Model:

Sr No	Tender specifications as asked in the tender form	Equivalent specifications quoted by the tendered with the name of the Manufacturer	Whether the tender quoted by the supplier is as per specifications asked for Indicate against each item Clearly YES/NO.	If the tender quoted is not as per specifications then variations/deviations should be clearly indicated against Each item asked for.
1	2	3	4	5

Note: Equivalent detail compliance in column 3 of quoted product is expected. Simply writing Yes/ NO/Complies/as per tender requirements, will be liable for rejection.

ANNEXURE IV
(Incomplete Annexure is liable for Rejection)

User List of Quoted Model
(On Bidder's Letterhead)

Name of the Equipment/Instrument:-

S r . N o .	Mo del No.	Name and Address of Institute	AuthorizedC ontact Person	Tel., Fax & Mobile No. with Email- ID	Date of Supply
1	2	3	4	5	6

ANNEXURE V

(Incomplete Annexure is liable for Rejection)

Details of After Sales Service Station

(On Bidder's Letterhead)

Name of the Equipment/Instrument:-

S r. N o.	Name of the Age ncy	Full Address with Pincode	Contact Pers on Na me	Contact Numbers with STD code		
				Tel(O ff)	E m a i l - I D	M ob ile N o.
1	2	3	4	5	6	7

ANNEXURE VI
(In complete Annexure is liable for Rejection)

(On Bidder's Letterhead)
Terms & Condition Acceptance Certificate

Ref:-

Date:-

To,

Ref:- Tender Document No. _____ Date _____

Respected Sir,

I/We the undersigned have examined the above mentioned Tender Enquiry document, including Amendment/Corrigendum No. _____ Dt ____ (if any), the receipt of which is hereby confirmed.

If our tender is accepted we undertake to supply the goods & perform the services as mentioned in Tender Enquiry Document in accordance with the delivery schedule.

We further understand that you are not bound to accept the lowest or any tender you may receive against your tender enquiry.

We confirm that we fully agree to the terms and conditions specified in above mentioned Tender Enquiry document including Amendment /Corrigendum if any.

**Sign and Office seal of the
Tenderer**

ANNEXURE-VII

Consignee List

Sr.No.	Name of the Consignee	Qty
1	Directorate of Health Services, Medical Education & Research(DME) Shillong Medical College. Shillong	1 set

ANNEXURE–VIII

AFFIDAVIT on Non-Judicial Stamp Paper of Rs.100/-

(To be submitted to this office)

For rates

Reference: Tender No.

This is to certify that the rates quoted in the tender are not higher than quoted at some other Institute in India during current financial year or not Higher than MRP”

Seal

Signature

ANNEXURE-IX

AFFIDAVIT on Non-Judicial Stamp Paper of Rs.100/-

(To be submitted to this office)

Reference: Tender No..

The firm (Name of the Firm) has not been found guilty of malpractices, misconduct or blacklisted/debarred/ deregistered for the quoted product by any government institute or by any local authority and other State Government/Central Government's organizations/ Public sector Undertaking as on the date of submission of tender document for the quoted items.

Seal/Signature

Annexure- X

Average Annual Turnover and Net worth Statement for Last Three Years
(As per Mentioned in Technical Bid (Part-I) clause-6)

The **Average Annual** Turnover of M/s for the past three years are given below and

Certified that the statement is true and correct. (duly submitted in original & online also)clause

S · N o.	Year	Turn over Rs. In Lakh
1	2021- 2022	
2	2022- 2023	
3	2023- 2024	

Date:-

Seal :-Signature of Statutory Auditor/

Name (in capital letters)

ANNEXURE-XI

Format for doubts/queries for Pre-bid meeting

<u>Pre-Bid Queries Format</u>					
<u>Name of the Supplier</u>					
<u>Department Name</u>					
<u>Tender Ref No.</u>					
<u>Tender Name</u>					
<u>Due Date</u>					
<u>S</u>	<u>Tender</u>	<u>Tender</u>	<u>Clause</u>	<u>Queries/</u>	<u>Justificatio</u>
<u>:</u>	<u>Page</u>	<u>Clause</u>	<u>Title</u>	<u>Clarificat</u>	<u>n</u>
<u>N</u>	<u>No.</u>	<u>No.</u>		<u>ion</u>	<u>By Bidder</u>
<u>o</u>					
<u>:</u>					

Seal

Signature

ANNEXURE-XII

Power of Attorney

BidNo:.....

(On Non-judicial stamp paper of Rs100 duly attested by notary public)

Know all men by the represent, we (name and address of the registered office of the Sole Bidder/ Lead Member) do hereby constitute, appoint and authorize Mr.

/Ms. _____ R/o _____ (name And address of residence) who is presently employed with us and holding the position of as our authorized representative, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to the bid [of the consisting of _____, and _____ (please state the name and address of the member soft he)] forfor a period of _____ Years, representing us in all

matters in connection with our bid for the Said Project. We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deed sand things done by our aforesaid attorney shall and shall always bedeemed to have been done by us. This Power of Attorney shall be effective, binding, and operative till _____, if not revoke dear lie or as long as the said Attorney is in the service of the Company, whichever is earlier

Accept.

(Signature)

(Name, Title and Address of the authorized representative)

For _____

(Signature)

(Name, Title and Address)

Notes:

1. To be executed by the Sole Bidder.
2. The mode of execution of Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.
3. Also, wherever required, the executants(s) should submit for verification the extract of the charter documents and documents such as a resolution / Power of attorney in favour of the Person executing this Power of Attorney for the delegation of power hereunder on behalf of the executant(s).

ANNEXURE-XIII

***(Undertaking to be signed by the Bidders) (To be uploaded in
PACKETA)***

Bid No:.....

AFFIDAVIT

(To be filled in and signed by the Bidder and to be submitted on non-judicial paper of Rs, 200/-duly notarized by Notary Public / First Class Magistrate)

It is here by represented that:

I / We..... (Full name in capital letters starting with surname), the Proprietor/Partner/Managing Director/Holder of power of attorney of

.....the business, establishment/firm/registered company do hereby, in continuation of the terms and conditions underlying the Tender Form and agreed to by me/us, give following undertaking.

1. I/wehere by confirm that I/we will be able to carry out the Services offered by me/us at the quoted rate sand as per specifications/drawings indicated in the tender after compliance of all there quired for malities within the specified time.
2. I/We..... do here by state and declare that I/We, whose names are given herein below in detail with the addresses, have not filled in this e- tender under any other name or under the name of any other establishment/ firm or otherwise, nor we are in any way related to or concerned with the establishment/firm or any person, who have filled in the e-tender for the afore said work.
3. I/We also admit that if the relevant conditions forbidding submission of tender under different names of the firm is found violated, the Health & Family Welfare department, Government of Meghalaya is at liberty to take necessary action against me/us.
4. I /We do hereby undertake that we have offered best price for the subject supply as per the present market rates and that I/We have not offered less price for the subject supply to any other outside agencies including Govt./Semi Govt. agencies and within Health & Family Welfare department , Government of Meghalaya also in similar conditions.
5. I / We agree to comply with fulfill the requirements of all labour laws or other enactments applicable to this supply and abide them throughout the period of contract.
6. I / We agree to abide the regulations of the Hospital premises now in force or which may come into force, during the currency of the contract.
7. I / We accept the right of Health & Family Welfare Department, Government of Meghalaya to stop any supervising staff/ labour employed by me / us from entering in

the Health & Family Welfare Department, Government of Meghalaya premises if it is felt that the said person is an undesirable element or is likely to create nuisance. Health & Family Welfare Department, Government of Meghalaya will not be required to assign any reason while exercising this right and I/We shall abide by such decision being binding on us.

8. I/We shall not sublet the work to any agency without prior approval of the Health & Family Welfare Department, Government of Meghalaya
9. I/We understand and accept that our e-tender/contract is liable for rejection/ termination and EMD paid by me/us shall be liable for forfeiture by the Health & Family Welfare Department, Government of Meghalaya if-
 - a) I/ We fail to keep the e-tender open as aforesaid,
 - b) I / We fail to execute the formal contract or make payment of contract deposit when called upon to do so,
 - c) I / We do not commence the supply on or before the date specified by officer/engineer in his work order/indent
 - d) I/We fail to produce required information, testimonials or a letter in original whenever called upon to do so or I/We fail to give satisfactory reason for non-production of such information, testimonials, letter etc. Within a period of 15days from receipt to such demand.
10. I/We..... hereby further state and declare that I/We are not debarred/ blacklisted by either Health & Family Welfare Department, Government of Meghalaya / central Govt. / state Govt. / Public sector undertaking/any other Local body on the date of submitting this Bid nor convicted under the provision of IPC or Prevention of Corruption Act., nor any criminal case is pending against me/using any court law.
11. I/we do hereby agree that if in future, it comes to the notice of Health & Family Welfare Department, Government of Meghalaya /if it is brought to the notice of Health & Family Welfare Department, Government of Meghalaya that any disciplinary/penal action due to violate on of terms and condition of the tender which amounts to cheating /depicting mala fide intention during the completion of the contract anywhere Health & Family Welfare Department, Government of Meghalaya or either by any of central Govt./state Govt./Public sector undertaking/any other Local body, Health & Family Welfare Department, Government of Meghalaya will be at discretion to take appropriate action as it finds fit.
12. I/we acknowledge that the submission under this tender by shall not constitute a binding contract between me/ us and Directorate of Health Services Medical Education & Research (DME) holds no obligation towards me/us.
13. I/we further confirm that the information/document submitted by me regarding TIN No. (If applicable) is true and correct as per record of Sale Tax Department and in the event if it is revealed subsequently after opening of tender or after allotment of work/ contract to me/ us that any information given by me/us is false or incorrect, I/we shall be debarred from participating in the tenders for Health & Family Welfare Department, Government of Meghalaya for 3 years
14. I/We have filled in the accompanying e-tender with full knowledge of liabilities and therefore we will not raise any objections or disputes in any manner relating to any action including forfeiture of deposit and black listing for giving any information, which

is, found to be incorrect and against the instructions and directions given in this e-tender.

15. I/We further confirm that the information/documents submitted by me is true and correct to best of my/our knowledge and belief that in the event it is revealed subsequently after the opening of the tender or after the allotment of work / contract to me / us that any information given by me / us or any document uploaded / submitted by me/us in this e-tender is false or incorrect, I / We shall compensate the Authority(Health & Family Welfare Department, Government of Meghalaya for any such losses or inconvenience caused to the Health & Family Welfare Department, Government of Meghalaya in any manner and will not resist any claim for such compensation on any ground what so ever. I/We agree to undertake that I/We shall not claim in such case any amount by way of damages or compensation for cancellation of the contract given to me / us or any work assigned to me/us or is withdrawn by the Health & Family Welfare Department, Government of Meghalaya.

16. I/We (Full Name in the Capital Letters

starting with surname) the Proprietor / Managing Partner / Managing Director / Holder of the Business /Authorized Distributors for the Establishment / Firm / Registered Company named herein below do here offer to provide Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong as mentioned in the tender & in accordance with the specifications therein.

17. I/We do hereby undertake that, we will keep our full quality control over our services as mentioned in the tender & in accordance with the specifications therein. Incase, if the explanation submitted by me/us is

Unsatisfactory then action as stated above including for feature of deposit & black listing may be taken against me/us.

I/we solemnly confirm the compliance of all the requirements/ Conditions of the tender documents.

Full name and complete address with _____

Your Faithfully

Tel. Nos. & E-mail address of all partners

Signature of Bidder with office stamp

WITNESS:

(1)Full Name.....

And Address.....

Signature.....

(2)Full Name.....

And Address.....

Signature.....

BOQ FORMAT

Item Rate BOQ

Tender Inviting Authority: Health & Family Welfare Department, Government of Meghalaya

Name of Work: - Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong

Tender No.						
Name of the Bidder/Bidding Firm/Company						
PRICE SCHEDULE						
<p>(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</p>						
NU MBE R #	TEXT #	NU MBE R #	T E X T #	NUMBE R#	NUM BER #	TEXT #
Sl. No.	Item Description	Qua ntity	U ni ts	Per unit price, inclusive of GST (Do not type % sign)	TOT AL AM OU NT	TOT AL AM OU NT In Wor ds
1	Descri ption					
1.0	Supply	1			0.00	INR

Supply and Installation of set of Equipment/Items for Physiology Department as per NMC at Shillong Medical College, Shillong under the Directorate of Health Services Medical Education & Research (DME).

1	and Installation of set of Equipment /Items for Physiology Department as per NMC		L o t		0	ZER O ONL Y
Total in Figures					0.00 0	INR ZER O ONL Y
Quoted Rates in words		INR ZERO ONLY				

CHECK LIST OF THE TENDER DOCUMENTS

List of Documents/Information should be Uploaded/submitted with Tender.

The following documents should be uploaded / submitted with the Tender Document with page number on each document as per the order given below.

Sr. No	PARTICULARS	P a g e N o
<u>Part I</u> <u>(Technical Bid)</u>		
1)	Proforma to be submitted along-with Technical Bid Annex No. I	
2)	EMD: Online/certificate fo redemption of EMD	
3)	Copy of GST Registration Certificate	
4)	GST Returns for past 6 months	
5)	Copy of memorandum and articles of Association(If Applicable)	
6)	Copy of Certificate of registration under company registration act 1913 & 1956 (If Applicable)	
7)	Manufacturer Authorization Letter as per Annex No. II	
8)	Technical Compliance Chart as per Annex No. III	
9)	User List of quoted model as per Annex No. IV	
10)	Details of After Sales Service Station Annex No. V	
11)	Terms & Condition Acceptance Certificate as per Annex No. VI	
12)	Consignee List Annex No. VII	
13)	Proforma of Affidavit Annex No. VIII	
14)	Proforma of Affidavit Annex No. IX	
15)	Annual Turn over proforma Annex No. X (The average turnover for the last 3 years from the date of publication of tenders should be 30% of total tender cost.)	
16)	Format for doubts/queries for Pre-bid meeting As per Annex No. XI	
17)	Power of Attorney Annex - XII	
18)	AFFIDAVIT (undertaking to be signed by the bidder) As per Annex - XIII	
19)	Financial proposal performa (BOQ) as per Annex No. XIV	
20)	Scope of Supply (Technical Offer)	
21)	Original Product Catalogue/Brochure with technical data sheets	
22)	Original Tender Form duly signed and official seal of the company one very Page of the tender.	

23)	The requisite certificate ISO, ISI, UL, BIS, CE, USFDA etc. as per Technical Specification		
24)	Detail of Products supplied to Govt./Pvt. In India as per tender terms & conditions		
	Total Documents in Technical Bid Page No. _____ to _____		
<u>(Commercial Bid)</u>			
	Financial proposal performa (BOQ) as per Annex No. XIV		

Note :- If, during online bid preparation, any need arises to upload additional documents, apart from the above mentioned documents, an option to upload additional documents has been provided in the e-Tendering software which will be available to bidders during online bid preparation stage.

List of Requirements – Physiology Department

Sr.	Description of Item	Qty
1	Sherrington Starling kymograph (electrically driven)	2
2	Myograph stand	2
3	Inductarium	2
4	Simple key	2
5	Short circuiting key	2
6	Pohl's commutator	2
7	Vibrating interrupter	2
8	Muscle trough	2
9	Muscle lever	2
10	Muscle grip of femur clamp	2
11	Hook and Weight set	2
12	Heart lever (simple & Starling)	2
13	Frog board for dissection	2
14	Enamel tray	2
16	Low voltage unit for tapping 2 and 4 volts for stimulation	2
17	Electromagnetic time marker	2
18	Tuning fork time marker 100/sec	2
19	Electrodes	2
20	X-blocks	2
21	Spirit lamps	2
22	Marey's tambour	2
23	Microscopes, oil immersion	35
24	Demonstration eye piece	3

25	Double demonstration eye piece	3
26	Stage incubator	1
27	Westergren's pipette for E.S.R. on stand(with space pipette)	20
28	Wintrobe's tube for ESR and PCV with stand	20
29	Perimeter Pristely Smith S/LP.984 B & T	10
30	Hemoglobin-meter Sahli's or Hellige (with spaces)	35
31	Hemocytometer	35
32	Sphygmomanometer (digital) (Mercury based instruments to be replaced with suitable alternatives)	35
33	Stethoscopes	50
34	Stethoscopes, demonstration with multiple ear pieces	2
35	Polygraphs	1
36	Venous pressure apparatus	1
37	Spirometer, ordinary (VITALLOGRAPH)	15
38	Gas analysis apparatus, Halden's student type	1
39	Van Slyke's apparatus manometric	1
40	Gas analyser automatic for CO ₂ , O ₂ , N ₂	1
41	Douglas bag, complete	1
42	Basal metabolism apparatus	1
43	Mosso's Ergograph	15
44	Clinical thermometer (Mercury based instruments to be replaced with suitable alternatives)	40
45	Compass aesthesiometer	20
46	Thermo-aesthesiometer	20
47	Algometer	15
48	Apparatus for passive movement	1
49	Knee hammer	30
50	Stethograph	5
51	Bicycle Ergometer	1
52	Olfactometer	1
53	Ophthalmoscope	1
54	Schematic eye	1
55	Perimeter with charts (Lister's)	2
56	Tuning fork to test hearing 32-10000 cps(sets-100, 256, 512 Hz)	30
57	Color perception lantern Edridge green	1
58	Maddox rod	1
59	Newtons color wheel	1
60	Dynamometer	1
61	Otoscope	1
63	Stop watch	15
64	Multi-channel Physiograph, 3 channels, complete with accessories	2
65	Student physiograph, (single channel) with accessories	6

66	Centrifuge, high speed with technometer	1
67	Colorimeter, photoelectric	1
68	pH meter electric	1
69	Electronic stimulator	1
70	Thermometers, balances, microslides and glassware	1
71	Digital Physiograph	1
72	ECG Machine	2
73	Reagents	1
74	Harvard step	2
75	Otorhinolaryngoscope	1
76	Sterilizer electrical	1
77	Instrument trolley	1
78	Refrigerator	3
79	Oxygen cylinder with trolley	1
80	CO2 cylinder with trolley	1
81	Water distillation steel with spare heating elements	1
82	All glass distillation apparatus double stage	1
83	Voltage stabilizer	1
84	Interactive smartboard for classroom	2
85	Digital Perimeter	2
86	Digital Spirometer	2
87	Digital ECG Machine	2
88	Electronic stimulator	2
	General	
1	Store Racks	10
2	Electric and water points with sink and eye wash stations	10
3	Laboratory glass wares	1
4	Pipettes and micropipettes	20
5	Test tubes and vials	1
6	Test tube stand	1