



King George's Medical University U.P.,

OFFICE OF THE SUPERINTENDENT

GANDHI MEMORIAL & ASSOCIATED HOSPITALS

Lucknow-226003 (U.P.) INDIA website : www.kgmu.org

Tender Form

Tender No.: 2350/MS/2016

Date- 01/02/2016

(Only sole Manufacturers / their authorised Indian Agents may Quote this Tender)

To,

M/s.....

.....

.....

.....

Sub: Tender of different types of Equipments & Hospital Furniture for Burns & Reconstructive Surgery of Plastic Surgery Department

Dear Sir,

You are invited for tender of **different types of Equipments & Hospital Furniture for Burns & Reconstructive Surgery of Plastic Surgery Department**. Please quote tender number on the top of your envelope. The sealed envelope containing the tender document should be addressed to "The Superintendent, G.M. & Associated Hospitals (KGMU), Lucknow.

The tender should be submitted after carefully reading the instructions for filling tender. You may not furnish your terms and conditions, Modification if any included in your offer shall not be accepted and you shall be bound by the terms and conditions of tender / order. Technical and financial bid should be submitted in separate sealed envelope mentioned with full Name, Address, E-mail, Fax, Phone, Mobile No. of the tendering firm on the top of envelopes and put in a large envelope duly sealed. **Tender No. Item No. & Name, Part Name** should be clearly mentioned on the Outer (main) Envelope.

The bids should be submitted in the tender box placed in the Tender Cell of the Superintendent Office, KGMU from **dated 02.02.2016 to 22.02.2016 upto 3.00 pm**.

The Technical Bid shall be **opened on dated 26.02.2016 at 03:00 P.M.** in Committee Room of CMS Office, KGMU. In case date mentioned above is declared holiday, it shall be automatically shifted to the next working day.

Tender received after due date & time will not be considered. Tender without Earnest money & Tender Fee shall be rejected.

Your's Sincerely

Medical Superintendent
G.M. & Associated Hospitals,
(K.G. Medical University U.P.),
Lucknow

**King George's Medical University, Uttar Pradesh,
Lucknow**
Gandhi Memorial & Associated Hospitals

Tender Documents Regarding Purchase of

1. For the Department of

2. Name of the Instrument/Equipment -

3. Item No. -

CHECK LIST
IMPORTANT:

- The tenderer are hereby instructed to arrange the required tender documents as per check list and must mention the page numbers against each column of the check list.
- **All papers submitted must be numbered and signed by tenderer.**
- **All paper submitted must be strictly in order as per check list.**

S.No.	Name of Document	Page No.	
		From	To
1.	Letter to Superintendent as per format		
2.	Earnest Money (in Form of FDR) of Rs.		
3.	Declaration on non judicial stamp paper of Rs. 10/-as per Proforma (Schedule A)		
4.	Technical Bid		
	(a) Details of products offered on letter head (Schedule B)		
	(b) Technical compliance chart strictly as per specification (Schedule C)		
	(c) Copy of product manual/catalogue of product		
	(d) Circuit diagram (if applicable)		
	(e) Valid authorization letter of manufacture (if applicable)		
	(f) Manufacturing License of manufacturer (if applicable)		
	(g) User List (Schedule D)		
	(h) Full Addresses & contact numbers of Service Centres		
	(i) Proof of Indian agent for last 2 years or more with present foreign manufacturing company (in form of DGS&D registration, 1st import bill, Govt. order copy		
5.	Sales Tax Registration Certificate		
6.	Sales Tax Clearance Certificate		
7.	Income Tax Clearance Certificate		
8.	Acknowledgement of Tender Form No.		
9.	Other papers		

TENDER NO.& NAME

Signature of Tenderer

Name

Designation

Seal

Dated

Format of Letter to Superintendent

**“OFFICE OF THE SUPERINTENDENT, KING GEORGE’S MEDICAL UNIVERSITY, UTTAR PRADESH,
LUCKNOW 226003**

S.NO. OF TENDER :

FILE NO. :

Name of the party in whose : _____

Favour the Tender form has been issued

The Superintendent,

King George’s Medical University, U.P., Lucknow 226003

(SEAL OF THE SUPERINTENDENT)

Dear Sir,

1. I/We hereby submit our tender for the _____
2. I/WE now enclosing herewith the FDR No.....
dated..... for **Rs. _____ drawn in favour of the "Superintendent, King George’s Medical University, U.P., Lucknow" towards EMD/Bid Security. (TENDERS NOT ACCOMPANIED WITH EMD/BID SECURITY ALONGWITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED)**
3. I/We hereby agree to all the terms and conditions, stipulated by the KING GEORGE’S MEDICAL UNIVERSITY, U.P., Lucknow in the enclosed document from page no. toin this connection including delivery, penalty etc. Quotations for each group are being submitted under separate covers and sheets and shall be considered on their face value.
4. I/We have noted that over written entries shall be deleted unless duly out & re-written and initialed. Tenders are duly signed (No thumb impression should be affixed).
5. I/We undertake to sign the contract/agreement if required within 10 (Ten days) from the issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the **King George’s Medical University, U.P., Lucknow**.
6. I/We have gone through all terms and conditions of the tender documents before submitting the same.

NOTE: ALL TERMS & CONDITIONS SUCH AS RATES AND TAXES ETC, HAVE BEEN INDICATED SEPARATELY IN THE QUOTATION. DURING THE RATE CONTRACT PERIOD BASIC PRICE EXCEPT GOVT. LEVIES OF THE ITEM WILL NOT BE CHANGED. OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENT.

Yours faithfully, Signature of

Tenderer with full Address.

WITNESS _____
WITNESS _____

(To be notarised on Non Judicial Stamp of Rs.10)

Schedule - A

Declaration

1. I/we hereby agree to abide by all terms and condition mentioned in tender document along with special terms & condition mentioned with specification of the items.
2. I/we hereby declare that I/we have not been debarred by any Institution /Govt. origination in past from Tendering.
3. I/we hereby agree to provide services and supply spares for the equipment for a minimum period of 10 year from date of purchase.

Signature of Tenderer

Name

Designation

Name of Organisation

Seal

Date

SCHEDULE 'B'
PROFORMA OF TECHNICAL BID

TENDER NO. & NAME OF ITEM

Serial No. of Instrument/Equipment as per enclosed Specification	Model No./ Cat. No.	Name of Items with full specification etc.	Name of Principal Manufacturing Co. Country of Origin
1	2	3	4

Signature of Tenderer

Name

Designation

Seal

Date

SCHEDULE 'C'

PROFORMA OF TECHNICAL COMPLIANCE TO BE ENCLOSED WITH TECHNICAL BID

TENDER NO.& NAME

Serial No. of Instrument/ Equipment as per enclosed Specification of tendered item	Model No./cat No of item offered	Full specification of quoted model	Remarks
1	2	3	4

Signature of Tenderer

Name

Designation

Seal

Dated

Note:

Please highlight & serialize the specifications of the items in original catalogue

SCHEDULE 'D'

PROFORMA OF USERS LIST

TENDER NO. & NAME

Sl. No.	User Name	City	Contact No with STD Code	Installation Date	Specify Model No.

Signature of Tenderer

Name

Designation

Seal

Dated

SCHEDULE 'E'

PROFORMA OF FINANCIAL BID FOR PART-A

TENDER NO. & NAME OF ITEM

Serial No. of Instrument & Equipment as per Specification	Model No./ Cat No.	Name/Items with full specification etc.	Principle manufacturing co. name & Origin of Country	Rates exclusive of all taxes & duties F.O.R. destination in U.P.	TAXES	Qty	Rates of AMC/CAMC as applicable Total cost inclusive of all taxes for 6 th , 7 th 8 th , 9 th and 10 th Yr.	Total cost inclusive of all taxes & duties for the packing unit offered F.O.R. destination including CIF upto field unit (excluding AMC/CMC)
1	2	3	4	5	6	7	8	9
Warranty: 05 Years								

Signature of Tenderer

Name

Designation

Seal

Dated

NOTE:

- (a) Rates quoted must be mentioned after deduction of all rebates. Any rebates mentioned separately will not be considered. Other charges, taxes etc. as applicable must be added. Rates must be F.O.R. destination in KGMU UP Lucknow.
- (b) Please fill financial bid strictly in accordance with schedule – E other wise it may be rejected.
- (c) Quantity may increase / decrease.
- (d) **All Rates must be quoted in Indian Rupees Only.**

SCHEDULE 'E'

PROFORMA OF FINANCIAL BID FOR PART-B / PART-C / PART-D

TENDER NO. & NAME OF ITEM

Serial No. of Instrument & Equipment as per Specification	Model No./ Cat No.	Name/Items with full specification etc.	Principle manufacturing co. name & Origin of Country	Rates exclusive of all taxes & duties F.O.R. destination in U.P.	TAXES	Qty	Total cost inclusive of all taxes & duties for the packing unit offered F.O.R. destination including CIF upto field unit
1	2	3	4	5	6	7	8

Warranty: 05 Years

Signature of Tenderer

Name

Designation

Seal

Dated

NOTE:

(a) Rates quoted must be mentioned after deduction of all rebates. Any rebates mentioned separately will not be considered. Other charges, taxes etc. as applicable must be added. Rates must be F.O.R. destination in KGMU UP Lucknow.

(b) Please fill financial bid strictly in accordance with schedule – E other wise it may be rejected.

(c) Quantity may increase / decrease.

(d) Rates for more than one item may be quoted separately.

(e) **All Rates must be quoted in Indian Rupees Only.**

SCHEDULE 'E'

PROFORMA OF FINANCIAL BID FOR PART-E / PART-F / PART-G

TENDER NO. & NAME OF ITEM

Serial No. of Instrument & Equipment as per Specification	Model No./ Cat No.	Name/Items with full specification etc.	Principle manufacturing co. name & Origin of Country	Rates exclusive of all taxes & duties F.O.R. destination in U.P.	TAXES	Qty	Total cost inclusive of all taxes & duties for the packing unit offered F.O.R. destination including CIF upto field unit
1	2	3	4	5	6	7	8

Warranty: (Mention as per Manufacturer)

Signature of Tenderer

Name

Designation

Seal

Dated

NOTE:

- (a) Rates quoted must be mentioned after deduction of all rebates. Any rebates mentioned separately will not be considered. Other charges, taxes etc. as applicable must be added. Rates must be F.O.R. destination in KGMU UP Lucknow.
- (b) Please fill financial bid strictly in accordance with schedule – E other wise it may be rejected.
- (c) Quantity may increase / decrease.
- (d) Rates for more than one item may be quoted separately.
- (e) **All Rates must be quoted in Indian Rupees Only.**

KING GEORGE'S MEDICAL UNIVERSITY UTTAR PRADESH, LUCKNOW

General Terms & Conditions for Tender

The following terms and conditions should be complied with/accepted while submitting tender:

1. The tenderer submitting his tender would be deemed to have read, considered and accepted all the terms and conditions. No enquiries, verbal or written shall be entertained in respect of acceptance or rejection of the tender.
2. The University will have the right to reject/cancel all or any of the tender without assigning any reason.
3. Sealed tender should be submitted in a Two-bid System. Earnest money and Technical bid shall be submitted as Part I. Price bid shall be submitted as Part II. Both Part I & II must be submitted in sealed envelopes to the office of the Superintendent, G.M. & A.H., King George's Medical University U.P., Lucknow, hereinafter called University, failing which the tender shall be treated as void ab initio. The envelopes must be superscribed "Tender for Tender. No. _____ dated _____ of Deptt. _____ King George's Medical University, Uttar Pradesh, Lucknow.

Technical bid must contain **original catalogue, literature of product, copy of product manual and circuit diagram** (if applicable). All papers as mentioned in check list and/or in the General Terms and Conditions must be enclosed with technical bid, strictly in accordance with the serial of check list. **Price bid** must strictly conform to Proforma provided (**Schedule - E**) on letter-head of the tenderer.

"BOTH THE SEALED ENVELOPES SHOULD THEN BE PUT IN OUTERCOVER INDICATING THEREON:

- Reference No. Of the Tender:
- Tender regarding:
- Due date for submission of the tender: _____
- Due date for opening of the tender: _____
- Name of the firm: _____ "

4. **The tenderer should quote in figures as well as in words the rates and the amount quoted by him/them.** The tenderers should give rates, showing taxes, if any, and levies, packing forwarding and insurance charges separately giving full breakup details. THE UNIVERSITY SHALL NOT ISSUE 'C/D FORMS'. **Alteration, if any unless legibly attested by the tenderer, with their full signature, shall invalidate the tender. The tender should be signed by the tenderer himself/themselves or his/ their authorized agent on his/ their behalf. In case the tender is signed by the agent the authority letter in original, in his favour, shall be enclosed with tender documents. The tenderers should take care that the rates and amounts are written in such a way that interpolation is not possible. No blank space should be left, which would otherwise make the tender liable to rejection.** Tenderers are advised to mention MRP Rates also for each item quoted (if applicable) in the column provided in Schedule-E (Proforma for Financial Bid) invariably in addition to their quoted rates. No tenderer can charge/quote rates more than MRP, in case if any tenderer charges/quotes higher rates for any item than MRP, actions like forfeiture of security money/performance back guarantee and removal of name from the list of supplier shall be taken against the firm.
5. The tenderer should clearly state whether he/they are manufacturer, accredited agents or authorized representative (indicating the name of Principal) on the top of the Bid. The

following documents should invariably be submitted along with the tender documents failing which the tender shall be rejected.

- i. A declaration by the proprietor of the firm, in case, the firm is proprietorship firms on non- judicial stamp paper of worth Rs. 100/- duly attested.
- ii. An attested copy of partnership deed duly registered by the Registrar of Firms, in case, of partnership firm.
- iii. An attested copy of article of memorandum with constitution of firm and guidelines, in case, of private limited firm with name, photo& signatures of all Directors.

A proof of ownership/partnership shall be submitted along with verification of address, telephone number and Fax number. A surprise visit to the premises by the representatives of the University, under the authority of the Superintendent, shall be made to assess the firm's capacity and standing.

6. The tenderer shall submit the offer with original copy of the tender documents duly signed on each page. Item –wise rates indicating units be offered on letter- head of the firm as per proforma (**Schedule – E**).
7. Any action on the part of the tenderer to influence any body of the Medical University will make his tender liable for rejection.
8. The quantity shown in the Schedule may increase or decrease to any extent depending upon the actual requirement.
9. The tenderer shall specify after sales services/facilities and local availability of technical support within the Guarantee/Warranty period as demanded by University. The warranty period will be extended for the period of the Instruments remaining out of order during warranty period. In case the manufacturer changes its authorised service agents in future, the liability of the existing authorised agent and/or the Manufacturer shall not cease under this agreement in case the new authorised service agent fails to provide satisfactory services.
10. All technical bids will be deemed successful only after the assessment and approval of equipment/material by nominated panel of experts of King George's Medical University Uttar Pradesh, Lucknow. If needed, the tenderer/supplier will be informed of the date/venue for demonstration of quoted products at their cost. The University may consider the option of inspection of equipments at other places also; in that case arrangements will be made by tenderer and full expenses shall be borne by them.
11. If any trouble or defect originating with the design, materials, workmanship or operating characteristics of any materials/equipment/machines arise at any time covering a period of **60 (Sixty) months** from the date of the satisfactory handing over of the equipments duly installed/ commissioned with trial performance or **66 (Sixty Six)** months from the date of last shipment of goods/ materials (whichever is later) and the seller is informed thereof, the seller shall at his own expenses and as promptly as possible make such alterations, repairs and replacement as may be necessary to enable the material/equipment/machines to function in accordance with the specifications and to fulfil the foregoing guarantees.
12. The tenderer shall also provide the Installation, Commissioning, Demonstration and Training to the concerned personnel of this Medical University with out any additional charge.
13. The tenderer shall submit the requisite information like Civil works/Electrical details etc. within 2 weeks from the date of receipt of order or establishment of letter of credit as the case may be.

14. Notwithstanding any other provision, the terms & conditions and any other items given in the Purchase order will be treated as binding with “Errors & Omissions Expected” basis. However, if the supplier notices any mistake in the contents of the order, he must bring the same to the notice of the Medical University and seek clarifications. Supplier will have to bear the responsibility for failure to take this action.
15. The Medical University may in writing make any revision or change in the purchase order, including additions or deletions from the quantities originally ordered in the specifications or drawings. If any such revisions/changes affect the price or delivery, the same shall be subject to the adjustment of price/delivery, where required on a reasonable basis by mutual agreement in writing which should be communicated.
16. The Medical University reserves the right to cancel the purchase order or any part thereof and shall be entitled to revise the contract wholly or in part by a written notice to the vendor, if:
 - (a) The tenderer fails to comply with the terms of the purchase order including specifications and order technical requirement.
 - (b) The tenderer becomes bankrupt or goes into liquidation.
 - (c) The tenderer fails to deliver the goods in time and or does not replace the rejected goods promptly
 - (d) A receiver is appointed for any of the property owned by the vendor.
 - (e) The tenderer becomes incapacitated to enter in to a contract under the Indian Contract Act, 1872.
17. Upon receipt of the said cancellation notice, as provided in clause 16 above, the vendor shall discontinue all works of the purchase order and matters connected with it.
18. Earnest Money as specified with specification of each item shall be paid in shape of FDR of one year duration, drawn in favour of the Superintendent, G.M. & A.H., King George’s Medical University UP, Lucknow and payable at Lucknow (U.P.), India.
19. **Security money** shall be submitted to **the tune of 10%** of ordered value within 15 days of release of supply order. Security money should be given in shape of FDR of five years duration in favour of the Superintendent, G.M. & A.H., King George’s Medical University UP, Lucknow and payable at Lucknow (U.P.), India. In case he fails to deposit the same within the specified period his earnest money may be forfeited, contract may be terminated and awarded to next higher tenderer and he may be debarred upto 3 years from further tenders. Security money will be refunded after **5 years** of supply provided University is satisfied regarding performance of equipment/services of supplier.
20. Unless otherwise specified in the order, the order price shall remain firm and will not be subject to escalation of any description during the pendency of the order, notwithstanding the change in the cost of materials, labour and/or variations in taxes, duties and other levies on raw materials and components that may take place while the order is under execution even if the execution of the order is delayed beyond the completion date specified in the order for any reason whatsoever..
21. For indigenous goods the price should be on F.O.R. King George’s Medical University Uttar Pradesh, Lucknow basis, inclusive of all levies and duties wherever applicable which should be indicated clearly as specified in proforma. The rates of VAT should be clearly indicated wherever chargeable. The King George’s Medical University Uttar Pradesh, Lucknow shall not issue Form ‘C’ or ‘D’. TENDER SHALL BE REJECTED IF THE COPY OF COMMERCIAL TAX REGISTRATION CERTIFICATE (NOW CALLED AS VAT) IS NOT FURNISHED. FIRM IS ALSO ADVISED TO SUBMIT A CERTIFICATE ON THEIR LETTER HEAD STATING THAT UPTO DATE RETURN HAVE BEEN FILED AND THERE ARE NO DUES WITH THE CONCERNED DEPARTMENT. FIRM WILL ALSO SUBMIT THE COPIES OF SUCH RETURN (LATEST) SUBMITTED TO THE

DEPARTMENT OF COMMERCIAL TAX. Commercial tax and other statutory levies should be shown separately and should not be included in the basic price. Otherwise it will not be considered.

22. The tendered rates should be kept opened for a period of one year from the date as the tenders are opened. **THE TENDER DOCUMENT / SUBSEQUENT RATE CONTRACT WITH THE APPROVED VENDOR IS NON-TRANSFERABLE.**
23. All goods or materials shall be supplied by the tenderer whose tender is accepted, strictly in accordance with the specification, drawings data sheets, other attachments and conditions stated in the office order. Any alterations of these conditions shall not be made without the consent of the Medical University in writing which must be obtained before any work against the order is commenced.

All material furnished by the seller, pursuant to this order (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by the Medical University) will be guaranteed to the best quality of their respective kind (unless otherwise specifically authorized in writing by the Medical University) and shall be free from faulty design (to the extent such design is not furnished to the Medical University) workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfill in all respects with all operating conditions, if any, specified in this order.
24. The Medical University may at its option, remove all defective materials/equipment/machines at the seller's expense in which event the seller shall, without any cost to the King George's Medical University Uttar Pradesh, Lucknow and as promptly as possible, furnish and install proper materials. Repaired or replaced materials shall be similarly guaranteed for a period of not less than **60 (Sixty) months** from the date of reinstallation or **66 (Sixty Six) months** from the date of shipment.
25. In the event that the materials/equipment/machines supplied do not meet the specifications and are not in accordance with the drawings, data sheets or the terms of this order and rectifications are required at site, the King George's Medical University Uttar Pradesh, Lucknow shall notify to the seller giving full details of differences. The seller shall attend the site, within seven days of receipt of such notice to meet and agree with representative of the King George's Medical University Uttar Pradesh, Lucknow for the action required to correct the deficiency.
26. If the seller fails to attend meeting at site within the time prescribed above, the King George's Medical University Uttar Pradesh, Lucknow shall immediately get the same work/materials rectified and seller shall reimburse the Medical University all costs and expenses incurred by the King George's Medical University Uttar Pradesh, Lucknow in removing such trouble or defect.
27. Subject to other terms and conditions, 80% payment shall be released within 30 days from the date of satisfactory installation of the materials/equipment/machines, where installation has to be done by the tenderer. However, in cases where no installation is required to be done, a satisfactory commissioning report from the concerned HOD shall be sufficient. The balance of 20% of the payment shall be released after four months of the installation/commissioning of the material/equipment/machines subject to satisfactory report about the running of the concerned material/equipment/machines.
28. Delivery on time as mentioned in purchase order shall be the essence of the order and no variation shall be permitted except with prior authorization in writing from the Medical University

29. In the event of delay in making delivery on the part of the tenderer, it will be at University's discretion to accept delivery with a reduction in price of the article/ equipment.
30. Force majeure shall mean and be limited to the following:
- (a) Any war/hostilities.
 - (b) Any riot or civil disturbances.
 - (c) Any earthquake, flood, tempest, lightning or natural physical disaster.
 - (d) Any strike, or lock-out (only those exceeding ten continuous days in duration) affecting the performance of the tenderer obligations.

The tenderer shall advise the King George's Medical University Uttar Pradesh, Lucknow by registered letter duly certified by Local Chamber of Commerce of Statutory authorities the beginning and end of the above causes of delay within 7 (seven) days of occurrence and cessation of such Force Majeure conditions. In the event of delay lasting over one month, if arising out of causes of Force Majeure, the King George's Medical University Uttar Pradesh, Lucknow reserves the right to cancel the order and the provisions governing termination shall apply.

For delays arising out of Force Majeure, the seller shall not claim extension in completion date for a period exceeding the period of delay attributable to the causes of Force Majeure and neither the King George's Medical University Uttar Pradesh, Lucknow nor the tenderer shall be liable to pay extra costs provided it is mutually established that Force Majeure conditions did actually exist.

In the event of delay in delivery and/or unsatisfactory manufacturing progress and supply, the King George's Medical University Uttar Pradesh, Lucknow has the right to cancel the purchase order as whole or in part without liability for cancellation charges or otherwise

In the event of rejection of non-confirming goods the tenderer shall be allowed, without any extension of delivery time to correct the non-conformities, should however the tenderer fail to do so within stipulated time, the KGMU UP may cancel the order.

31. No payment shall be made for rejected material nor the tenderer would be entitled to claim for such items. Rejected items would be removed by the tenderer from the site within two weeks of the date of rejection at his own cost. In case they are not removed they will be auctioned at the risk and responsibilities of the tenderer without any further notice.
32. In the case of not honouring of the supply order, King George's Medical University UP, Lucknow will have the right to impose penalty as deemed fit to resort to make purchase at the suppliers cost and risk and may forfeit his security.

In the case of non-supply of materials/equipments/machines within stipulated period, it will be at the discretion of the King George's Medical University UP, Lucknow to accept delivery with late delivery clause. If the delivery is not effected on due date, the Vice Chancellor, King George's Medical University, U.P., Lucknow will have the right to impose penalty as under:

First extension for month or part thereof ----@2%.
Second extension for an additional month of part thereof -----@ 3%
In case of non-supply -----@ 7.5%

Or

In case of default in delivery or if it is found that the goods supplied are not in accordance with the specifications of the contract and are not replaced within a reasonable time frame of the warranty conditions being invoked, the University will have the right to procure the ordered item from open market /another party under risk purchase clause.

33. All disputes and question, if any arising between the University and the bidder out of or in connection with the terms and conditions contained herein or as to the construction of application thereof, or the respective rights and obligations of the parties there under or as to any clause or thing herein contained or by reason of the supply or failure or refusal to supply any material or as to any other matter in any way relating to these presents shall be referred to the sole arbitration of the hon'ble Vice Chancellor of the King George's Medical University Uttar Pradesh, Lucknow or his nominee. The decision of the sole arbitrator shall be final and binding upon both parties and subject to adjudication of Lucknow Court. Place for arbitration shall be at Lucknow (U.P.), India. Venue of such arbitration proceedings shall be King George's Medical University Uttar Pradesh, Lucknow. Arbitration and Conciliation Act 1996 and rules made there under shall be applied to the proceedings under this clause.
34. A copy of Trade-Tax/Commercial Tax Registration certificate, duly attested by a Gazetted Officer, should also be enclosed.
35. Acknowledgement for filing latest Income Tax Return along with a notarised affidavit, that the tenderer has never been black listed must be attached along with the tender failing which the tender will be rejected.
36. Tenderer hereby agrees to all terms and conditions stipulated in N.I.T. and tender documents and undertakes to sign the rate contract or supply order within the given days from the date of order failing which Earnest money shall be liable to be forfeited.
37. Indian Vendor will ensure a proper after sales service as per University's requirement from time to time, against the guarantee/warranty clause as per the terms and conditions agreed. Any negligence on this account shall be the sole responsibility of Indian Vendor and the liability for compensation will be fixed up by the King George's Medical University Uttar Pradesh, Lucknow.
38. All tenderers shall furnish certified copy of license of manufacturer of the product and will certify that they are authorized representative of the manufacturer for minimum of 2 years from the date of tender notification. As proof of the same they are required to furnish order copy of any govt. organization/DGS&D registration/1st Import bill of product of the manufacturer.
39. Separate offers of Comprehensive Maintenance Contract (CMC) and Annual Maintenance Contract (AMC) for further 5 years after expiry of 5 years of warranty (i.e. 6th, 7th, 8th, 9th and 10th years) in rupees only **(not on basis of percentage of price)** should be included in financial bid in the absence of which the offer is liable to be rejected, generally AMC/CMC will not well included in determining lower bid. However the Purchase Committee may, at its discretion, club and consider either of the two for determining successful tender Payment for CMC/AMC shall be made only after expiry of warranty of **5 years**, in case the University decides for availing CMC/AMC services. Contract for CMC/AMC shall be entered into before release of payment by the University. However, the University may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the tender.
40. University may also invite tenders for equipment on maintenance free/ at no cost basis, as per terms & conditions mentioned in tender notice/specification of the item. University has right to decide for out right purchase/ installation of equipment on maintenance free/ at no cost basis.
41. The tenderer should also ensure that a soft copy of the technical specifications of the equipment be provided on Compact Disc along with Technical/Financial Bid.
42. The tender form will be rejected in the absence of earnest money.
43. Legal action may be initiated against such tenderer in case any of the information submitted by the tenderer is found to be false at any stage of the contract.

44. Handwritten quotation shall be summarily rejected.
45. The price charged for the Stores/Equipment's, under the reference, by the supplier shall in no even exceed the lowest price at which the supplier the Stores/Equipment's of same identical description to any other person / organization / Institution during the currency of the contract as per fall clause adhered by D.G.S.& D. If at any time, during the said period the supplier reduced the said prices of such/Stores/Equipment or sales such stores to any other person/organization/ Govt. Institution/ Co. Operative Stores at price lower than the quoted price, he shall forthwith notify such reduction or sale to the Vice Chancellor, King George's Medical University, U.P., Lucknow and the price payable for the Items supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced for the University and should attach an notarised undertaking on non- judicial stamp paper of Rs 10/- duly attested to this effect otherwise quotation shall be summarily rejected
46. The supplier shall furnish the following certificate to the Superintendent, G.M. & A.H. along with each bill for payment for supplies made against in Rate Contract Tender.
- "I/We certify that the Stores of description identical to the Stores supplied to the government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution up to date of bill/the date of completion of suppliers against all supply orders placed during the currency of the tender/rate contract at the price lower than the King George's Medical University under contract /against tender".
47. Tender by Tele-fax/telegram/fax/e-mail will not be accepted.
48. The tenderer should submit statement of financial standing from their bankers/chartered accountants. The name of the bank of the firm, its account no. along with full address to be furnished on their firm's letterhead.
49. The tenderer should have been in this business for a period of atleast last two years in the country in relation to the type of stores for which the quotation/tender are being submitted. A declaration to this effect should be given by the tender on a non-judicial paper worth Rs. 10/- duly attested by Notary public.
50. It will be the prerogative of the University to place the supply order for the whole lot/item or in piecemeal basis depending upon the requirement of the University.
51. Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. These items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all.

Superintendent
G.M & A.H, K.G.M.U.,
Lucknow

Chief Medical Superintendent
G.M & A.H, K.G.M.U.,
Lucknow

List of Tender Fee & EMD of Equipments

Part-A

Item No.	Name of Equipments	Qty (Total)	Tender Fee (Rs.)	EMD Amount
1	Multi Channel Monitor	06 Nos	3000 + 5% VAT	60,000.00
2	Infusion Pump	15 Nos	3000 + 5% VAT	17,000.00
3	Ventilator	02Nos	3000 + 5% VAT	14,000.00
4	Central Monitor	01 Nos	3000 + 5% VAT	6,000.00
5	Suction Machine (Suction apparatus)	09 Nos	3000 + 5% VAT	3,600.00
6	Dressing Drums.	40 Nos	3000 + 5% VAT	3,000.00
7	Laminar air flow	01Nos	3000 + 5% VAT	14,000.00
8	10 KVA Online UPS	01Nos	3000 + 5% VAT	5,000.00
9	Defibrillator	01 Nos	3000 + 5% VAT	4,000.00
10	Dialysis Machine	02 Nos	3000 + 5% VAT	16,000.00
11	Oxygen concentrator	05Nos	3000 + 5% VAT	3,000.00
12	Operation Table	01 Nos	3000 + 5% VAT	36,000.00
13	Diathermy Machine	01 Nos	3000 + 5% VAT	8,000.00
14	LED OT light	01 Nos	3000 + 5% VAT	14,000.00
15	Anesthesia works Station	01 Nos	3000 + 5% VAT	32,000.00
16	Negative pressure suction machine	02 Nos	3000 + 5% VAT	5,000.00
17	Flush Autoclave	01 Nos	3000 + 5% VAT	5,000.00
18	Pressure tourniquet Machine	02 Nos	3000 + 5% VAT	3,500.00
19	Air mattress	20 Nos	3000 + 5% VAT	3,500.00
20	Laryngoscope (Adult & Pediatrics)	04 Nos	3000 + 5% VAT	2,000.00
21	Magnifier Loop	01 Nos	3000 + 5% VAT	3,000.00
22	Fiberoptic intubation bronchoscope	01 Nos	3000 + 5% VAT	18,000.00
23	Bath Tub	01 Nos	3000 + 5% VAT	4,000.00
24	Surgical Instruments (Item No. 1 to 65)	--	3000 + 5% VAT	7,000.00
25	Electric Blanket	05 Nos	3000 + 5% VAT	5,000.00
26	Mesher	01 Nos.	3000 + 5% VAT	8,000.00

Note:

1. No. of quantity may increase / decrease.
2. Tender for above equipment may be quoted separately in separate envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above.
3. Warranty for the above Equipments should be 05 Years + 6th to 10th Year CAMC/AMC

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Hospital Furniture

Part-B

Item No.	Name of Hospital Furniture	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	Fowler bed	20 Nos	3000 + 5% VAT	40,000.00
2	Fully Motorized ICU Beds	05Nos	3000 + 5% VAT	8,000.00
3	Central Oxygen and Suction pipe fitting with accessories	01 job	3000 + 5% VAT	6,000.00
4	Bed Side Table (adjustable)	25 Nos	3000 + 5% VAT	5,000.00
5	Emergency & Recovery Trolley	02 nos	3000 + 5% VAT	3,000.00
6	Bed Side Lockers	25Nos	3000 + 5% VAT	2,500.00

Note:

1. No. of quantity may increase / decrease.
2. Tender for Item No. 1 to 6 in Part-B should be quoted separately in separate envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above.
3. Warranty for the above Items should be 05 Years.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Hospital Furniture

Part-C

Item No.	Name of Hospital Furniture	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	Stretcher Trolley	03 Nos	3000 + 5% VAT	10,000.00
2	Medicine Stand	08 Nos		
3	Wheel Chair	04 Nos		
4	Hydrotherapy Exercise Instrument	01 Nos		
5	Oxygen Cylinder with flow meter	08 Nos		
6	Bed Side Bowel with Stand (Kick bucket)	25 Nos		
7	Ultra Violet light	04 Nos		
8	Dressing Trolley	03 Nos		
9	Bed Side Stool	20Nos		
10	I.V. Set Stand	19 Nos		
11	Avorgatan IM2	01 Nos		
12	Sona Bath	01 Nos		
13	Ambu bag	03 Nos		
14	Boiler	01 Nas		
15	Microwave diathermy	01 Nos		

Note:

1. No. of quantity may increase / decrease.
2. Tender for Item No. 1 to 15 in Part-C should be quoted in one envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above. Tenderer can quote one, more than one item or all items.
3. Warranty for the above Items should be 05 Years.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Hospital Furniture

Part-D

Item No.	Name of Hospital Furniture	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	LED (X-ray) View box	02 Nos	3000 + 5% VAT	5,000.00
2	LED view box (3 film set)	01 Nos		
3	Moist heat therapy Unit	01 Nos		
4	Instrument Table	04 Nos		
5	Non Mercury B.P. machine	06 Nos		
6	Ultrasonic Doppler	01 Nos		
7	Whirlpool Bath	01 Nos		
8	Water Jet Massager	01 Nos		
9	Resuscitation Cart	01 Nos		
10	Temperature Chart Holder	25 Nos		
11	Revolving Stool	06 Nos		
12	Dressing Drum Stand	01 Nos		
13	Stepping Stool	01 Nos		

Note:

1. No. of quantity may increase / decrease.
2. Tender for Item No. 1 to 13 in Part-D should be quoted in one envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above. Tenderer can quote one, more than one item or all items.
3. Warranty for the above Items should be 05 Years.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Miscellaneous Items

Part-E

Item No.	Name of Miscellaneous Items	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	Steel Almirah	14	3000 + 5% VAT	5,000.00
2	Steel Rack	04		
3	Office Table	01 Nos		
4	Revolving Chair with arm	05 Nos		

Note:

1. No. of quantity may increase / decrease.
2. Tender for Item No. 1 to 4 in Part-E should be quoted in one envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above. Tenderer can quote one, more than one item or all items.
3. Warranty for the above Items as per manufacturer.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Miscellaneous Items

Part-F

Item No.	Name of Miscellaneous Items	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	Linen Washing Machine	01 Nos	3000 + 5% VAT	5,000.00
2	Refrigerator	01 Nos		

Note:

1. No. of quantity may increase / decrease.
2. Tender for Item No. 1 to 2 in Part-F should be quoted in one envelope with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above. Tenderer can quote one, more than one item or all items.
3. Warranty for the above Items as per manufacturer.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

List of Tender Fee & EMD of Miscellaneous Items

Part-G

Item No.	Name of Miscellaneous Items	Qty (Total)	Approx. Amounts (Rs.)	EMD Amount
1	Computer System with Printer & UPS	02	3000 + 5% VAT	5,000.00

Note:

1. No. of quantity may increase / decrease.
2. Tender for above Item in Part-G should be quoted separately with Tender Fee of Rs. 3000.00+5%VAT and EMD amount as above.
3. Warranty for the above Items as per manufacturer.

(Medical Superintendent)
G.M. & A.H., KGMU, Lucknow

Specifications

PART-A

Item No.1

Multi Channel Monitor

1. The monitor should have features suitable for all patient categories, i.e. Neonate, Pediatrics & Adult patients.
2. Should have bright, minimum 10'' or more Color TFT display with full touch screen facility.
3. Should be compact, portable and lightweight, with weight not exceeding 5 kg including battery.
4. Should have the facility of displaying at least 6 waveforms along with related numerical parameters on single screen.
5. Should have facility to monitor ECG, SpO2, NIBP, Respiration and dual temperature.
6. Should be ready to connect and monitor dual IBP, CO (Cardiac Output), and mainstream EtCO2. (Optional, Price to be quoted separately).
7. Should display perfusion index (PI %) from SpO2 as an indication of pulse strength at the sensor site.
8. Nelcor/Massimo/ equivalent technology for measuring %SpO2.
9. Should have facility of displaying large numerical values and should have multiple layout of screen.
10. Monitors should have ST segment calculations with advanced arrhythmia detection.
11. VPC count (per minute) and ST level reading should be displayed continuously on the screen.
12. Should be upgradeable to use lightweight mainstream EtCO2 sensor that can be use on both intubated and non-intubated patients.
13. Monitors should have facility to review last 120 hours or more graphical and numerical trends having options to select the items to be displayed in trend table.
14. Should have facility to store ECG waveform of last 120 hours as standard feature.
15. Monitor must have the time linked review function. Monitor must show the waveforms for the time when the arrhythmia occurred in case of arrhythmia recall.
16. Should have internal rechargeable battery for 4 hours or more operation along with battery charge indicator.
17. Monitor should have graded audio/visual alarm color coding & should be visible from a distance.
18. Bed to bed communication between the monitors should be possible without a central station.
19. Should have onscreen operational guide function, to help user in parameters application and rectifying basic application problems.
20. Should be possible to connect to central nursing station.
21. Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure.
22. Should be compatible with HIS and should be HL7 compliant.
23. Monitor should have ESU & Defibrillation protection.
24. Monitor should be European CE/ USFDA approved.
25. Should be classified as per IEC 60601-1 for electrical safety.
26. Each monitor to be supplied with following:
 - a. 3 Lead ECG electrode cable with connection cord - 01. No
 - b. Adult SpO2 sensor with connection cable - 01 no
 - c. NIBP Air hose with cuff for Adult (13 cm) - 1 No
 - d. Temp Probe – 01 No.

Item No.2

Infusion Pump

1. Should have bottom loading technique.
2. Should accept all makes of 5ml, 10ml, 20ml, 50ml & 60 ml syringes with automatic detection of syringe size.
3. For 50 ml syringe flow rate should be from 0.1ml/h to 1000ml/hr or more.
4. Should have Bolus dose programmable up to 1000 ml/hr or more, with bolus rate & infused volume display at the time of giving bolus.
5. Should have Drug Library of 25 drugs or more.
6. Keep Vein Open (KVO) available with a facility to set KVO flow rates and option to keep the function OFF & anti bolus system.

7. Should have programmable Occlusion pressure Digital & analog display from 100mmHg up to 900mmHg with increment of 50mmHg.
8. Should have bright display Panel with Provision for display of Occlusion Pressure, flow rate, battery indicator, Drug name & total infused volume all at a time.
9. Should have various modes of infusion (Rate mode, Volume Target mode, Volume Time mode, Body Weight mode etc.).
10. Should have Occlusion pressure pre alarm.
11. Should have PM line disconnection alarm.\
12. Should have mains disconnection alarm, low Battery Alarm, end of infusion alarm.
13. Battery operating time: Approx. 15 @ 1 ml/h, 10 h @ 5 ml/h, 08 h @ 20 ml/h with Battery capacity display in hr and min.
14. Should have Universal mounting accessory for vertical & horizontal stand.
15. Pumps should be mountable on each other to save space.
16. Should have facility of mounting on stacking racks of 4 - 6 Pumps with single power supply.
17. With set of four pumps one Stacking rack should be supply free of cost.
18. Should be provided with racks which have the capability to export HL7 data through RS232 port (Data communication port).
19. Should be able to communicate with CPMS (Central Patient Monitoring System).
20. Drive accuracy should be +/- 1%.
21. Should have IEC or EN 60601-1-6:2010 for basic electrical safety for medical equipment.
22. Manufacturer should quote to ensure proper after sale services & company should provide the service directly not by channel partner to ensure maximum uptime of the equipment by local service centre.
23. Should have European CE or US FDA.
24. In case of technical snag/ failure the response time for Inspection within 24 Hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the University.
25. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
26. Live Demo is mandatory at our premises within stipulated time.

Item No.3

Ventilator

1. Advanced technology ventilator for use in ICU, suitable for ventilating Preterm, Neonates to adult.
2. Machine should be US FDA Approved.
3. Suitable for continuous use in the ICU for therapeutic application on external hospital compressed airline.
4. The system should have the facility for both Pressure triggering & Flow triggering
5. Should have the following modes of ventilation:
 - A. Volume control/ Assist Control
 - B. Pressure control
 - C. Volume support
 - D. Pressure support with back-up ventilation
 - E. CPAP/BIPAP
 - F. SIMV(Volume Control) + Pressure support
 - G. SIMV (Pressure Control) + Pressure Support
 - H. PRVC (Pressure Regulated Volume Control)
 - I. Lung Tool - for Real time Monitoring of Lungs
 - J. Automatic Change of Modes from Volume Control to Volume Support Vice versa & Pressure Control to Pressure Support Vice versa/ or equivalent.
 - K. APRV Mode/ or equivalent.
 - L. Non Invasive Ventilation with reliable leak compensation mechanism.
6. The ventilator should have open lung tool/ or equivalent as an essential feature.
7. The ventilator should be preferably upgradable to metabolic monitoring module in future.
8. Ventilator should have specific feature(s) to guide and monitor Lung Protective Mechanical Ventilation.
9. Ventilator should have specific feature(s) to guide and monitor PEEP titration.
10. Ventilator should have specific feature(s) to guide and monitor prevention of Ventilator Induced Lung Injury.

11. The system should have the following parameters:
 - A. Tidal Volume: - 02 ml – 2000 ml in volume control mode
 - B. CMV Frequency: - 4 – 150 breaths / min
 - C. SIMV frequency - 1 – 40 breaths / min
 - D. Inspiratory time - 10% - 80% or more of breath cycle time
 - E. Pause time - 0 - 30% of breath cycle time
 - F. Pressure level - 0 – (110 – PEEP)
 - G. PEEP - 0 – 50 cm H2O
 - H. Trigger flow: - 1 l/s
 - I. Trigger Pressure - - 20 – 0 cm H2O below PEEP
 - J. Inspiratory rise time - 0 - 20% of breath cycle time
 - K. I : E ratio - 1 : 10 – 4 : 1
12. Should have following audio – visual alarms:
 - A. Airway pressure
 - B. High continuous pressure
 - C. FiO2
 - D. Expired minute volume
 - E. Apnea
 - F. End expiratory pressure
 - G. Respiratory rate
 - H. Gas failure
 - I. Battery malfunctioning
13. Ventilator Should be able to monitor and measure the following parameters
 - A. Tidal Volume
 - B. Plateau
 - C. Mean Airway Pressure
 - D. Peak Airway Pressure
 - E. Rapid Shallow Breathing Index
 - F. Intrinsic PEEP with PEEPi volume
 - G. Resistance and compliance, Vital Capacity & RSBI.
 - H. Stress Index Monitoring/ or equivalent for ARDS patients.
14. Should have built-in battery back-up for at least 120 minutes.
15. Should have integrated nebulizer with vibrating mesh technology to ensure < 3 micron uniform drug particle size.
16. Trends analysis at least for 72 hour for all measured and setting parameters.
17. Should have high pressure O2 and Air line filters with the ventilators.
18. Screen size should be 12” or bigger, color touch screen.
19. All the attached (including irreparable items) accessories must be repaired/ replaced, to take care of ventilators during warranty/Guarantee period to ensure proper and uninterrupted functioning without any extra cost.
20. It should be possible to display at least three types of waveforms & loops for each breath.
21. ETCO2 waveform should be displayed on the same ventilator screen, Quote the ETCO2 module/software/sensors etc. along with the machine (as an optional item).
22. Should have suitable Fisher & Paykel MR 850 heated wire type humidifier (Price to be quoted separately as optional item).
23. Flow sensor, Oxygen Sensor / Oxygen cell and or pressure sensor should be either of permanent type or replaced free of cost during entire warranty period (must be included in CMC).
24. The quoted ventilators should be compact without separate accessories/ attachments and supporting accessories like patient circuit arm, ventilator trolley, compressor etc. should be OEM make.
25. Must be upgradable to web browsing (central patient monitoring unit).
26. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
27. Manufacturer should quote to ensure proper after sale services & company should provide the service directly not by channel partner to ensure maximum uptime of the equipment by local service center.
28. Live Demo is mandatory at our premises within stipulated time.
29. In case of technical snag/ failure the response time for Inspection within 24 Hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the University.

30.If any of the features/items mentioned in the specifications is not a part of standard configuration of the equipment quoted then those features/ items should be quoted as additional items in the financial bid. It would be the right of the University to purchase standard configuration only, standard configuration with some specific features for specific number of ventilators or standard configuration with all specific features for specific number of ventilators.

Item No. 4

Central Monitor

- The large 32-inch color LED makes it easy view patient data.
- Up to 5 telemetry or hardwired beds can be monitored at one time.
- The easy-to-use touch screen interface makes finding information simple.
- The 3 channel recorder is standard, providing cost effective waveform and graphic trend recording.
- An alarm pole is standard, providing visual notification of prioritized alarm conditions with multiple alarm patents.
- The operational CF card provides full disclosure waveform recording.
- Capable of printing to a networked .
- Should be control
- Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs

Item No .5

Suction Machine (Suction apparatus)

- Vacuum pump should be oil free diaphragm type.
- Class 'F' insulation with thermal cut-out motor.
- Body of the machine should be made of high impact ABS plastic
- Foot switch should be provided with the machine.
- Power consumption less then 100 watts.
- Voltage 230Volts +/- 10%
- Current max. 1amp.
- Machine should be fitted on trolley with four castors.
- Machine should be provided with 2Litre x 2 unbreakable jars

Item No. 6

Dressing Drums

- Dressing Drums -Stainless steel sheet-18/8 salem,,joinless,highly polished with special locking system.
 - (a) Size : 8"x8"
 - (b) Size : 9"x9"
 - (c) Size : 15"x12"

Item No. 7

Laminar air Flow

1. **Cleanroom Creating Air Shower**
The NU-105 is a recycling air shower designed to provide particulate free air to a room. It is the least expensive way to create a sterile clean room having class 100 air cleanliness. The air shower is adaptable to large or small rooms.
2. **Single-Pass Air Shower**
A completely self-contained air-cleaning module that accepts rough-filtered plant ventilation air and forces it through a HEPA filter. It can be used to create a small sterility room, or with multiple ceiling installations to create a large clean room to handle heat loads, odor dilution, etc.
3. **Pre-filter System Extends Life of HEPA Filters**
Air enters a pre-filtration system to capture animal hair, dander, and bedding before it enters the equipment's plenum extending the life of the exhaust and supply HEPA filters.
4. **Exhaust HEPA Filter 99.99% @ 0.3 Microns**
Flow Control Valve
Bottom Filter Service
16 Gauge Welded Construction

5. **Optional Features**
Fluorescent Lighting
Duplex Outlets
Custom Solutions

Item No. 8

10 K V A Online UPS

1. The Uniline OnLine UPS 10KVA is used with external battery and produces pure Sine waves. The Microprocessor control assures high reliability. It has the cold start function and high input power issue rectification. SNMP permits web based distant monitoring management. There is an Isolation transformer that enables better-quality performance. The Static bypass which is built in increase enhanced protection for critical load.
2. The Uniline OnLine UPS 10KVA has many operating modes and output range that can be selected. It has over heat, over load and short circuit protection that make is a perfect choice to use in office atmosphere. The battery is designed to be swappable. It also has an optional USB port for communication. It has an LCD display that provides information for Operating mode, Input, Output, Load and battery.
3. Battery backup minimum -30minutes

Item No. 9

Defibrillator

1. The machine should have facility for ECG Monitoring, Defibrillation, AED, and External & internal pacing & recorder.
2. The unit should have facility of synchronized Cardio version.
3. The Defibrillator must be strictly biphasic technology, having energy selection of up to 200 Joules or more.
4. It must be capable of monitoring ECG, through ECG cables and also from Multi-function electrodes and paddles (both Adult & Paed).
5. The machine should have 2 channels 6 inch or more colour TFT LCD screen.
6. The machine should be able to defibrillate Adult, Pediatric patients.
7. The machine must have fast charging of 200J in up to 5 seconds on mains & battery.
8. The machine should have facility of 100 discharges at 200J, 150 min continuous monitoring & 90 min fixed mode pacing or more.
9. The machine should have charge control on front panel & paddles.
10. The machine should be compact, portable with built in rechargeable battery, weight of the total machine should not be more than 7 Kg.
11. The machine should have in built recorder of for printing ECG trace & stored information.
12. The machine should have facility for paddle contact indicator in external paddles.
13. The machine must have capability for providing internal defibrillation shocks.
14. The machine must be upgradable to vital sign parameter EtCO₂, SpO₂.
15. ETCO₂ for use on both intubated & non intubated patients is must.
16. The machine should have user selectable alarm settings.
17. After defibrillation, the ECG waveform must have fast recovery within 5 seconds for immediately checking the result of defibrillation.
18. The machine must have AED option with voice prompt.
19. The machine should work on mains as well as on rechargeable battery.
20. It should have SD Card/USB for patient data storage.
21. The machine should be supplied with all standard accessories.
22. SPO₂ sensor, ETCO₂ sensor with airway adaptors for intubated & non incubated patients (Price to be quoted separately).
23. The machine must be US FDA and CE certified.
24. Must be upgradable to web browsing (central patient monitoring unit).
25. All the attached (including irreparable items) accessories must be repaired/ replaced, to take care of Defibrillator during warranty/Guarantee period to ensure proper and uninterrupted functioning without any extra cost.
26. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.

27. Live Demo is mandatory at our premises within stipulated time.
28. In case of technical snag/ failure the response time for Inspection within 24 Hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the University.

Item No. 10

Dialysis Machine

1. General Requirements

- A. Microprocessor Based Control-** Should be microprocessor controlled & capable of providing therapies such as Conventional HD, Online HDF, HF & features such as Online priming, Acetate & Bicarb dialysis, Volumetric UF, Sodium/UF profiling, Online help options (in case of alarm cond.), BPM, OCM
- B. Graphical User Interface (Display)-** High resolution TFT touch screen with functional keys & provide cumulative graphical display of treatment data & physiological trends including sodium & UF profiles. Freely rotatable & adjustable design. Should display different menus (preferably 9) indicating blood system, preparation, dialysate, UF, Treatment, Reinfusion, Cleaning, System parameters, & screen saver option. Should have integrated Patient card reader system where at least 03 treatment data can be recorded.
- C. Safety Features-** Should be a close system design with volumetric balancing system, i.e. volume in=volume out for fresh & used dialysate. Volumetric dilution of concentrates with RO water & Volumetric UF. Self Test after switching ON, Start up T1 test before each treatment, to ensure functioning of all hardware components. Leak sensor & Connection test as additional safety.

2. Performance Requirements.

- A. Blood Circuit/Vascular Access-** Single Needle click clack should be available Blood pump with features such as flow range of 30-600ml/min, with 10ml increments & accuracy upto $\pm 10\%$ Effective blood rate should be displayed in accordance to the setting & tubing size with diameter 2mm – 10mm could be used. An emergency hand crank should be provided to enable reinfusion in case of power failure. Emergency button enabled bolus, UF control, and BPM control. Air free pressure measurement on arterial line, in view of reducing chance of blood clot. Protective cover for whole entire EBM (Extracorporeal Blood ckt.)
- B. Heparin Pump-** Should be automatic or manual start/stop, with infusion rate of 0.5-10ml/hr in 0.1ml/hr increments & $\pm 5\%$ accuracy. Heparinization stop time should be user-adjustable in 1min increment, & positive/negative extracorporeal blood ckt pressure should not affect infusion rate. Auto Bolus administration should be programmable from 1-20ml/hr.
- C. Pressure Monitoring & Alarms-** Venous pressure monitoring & adjustment in case of alarm condition. (Range: -100 to +500mmHg, Accuracy: $\pm 7\%$) Arterial pressure monitoring & adjustment in case of alarm condition. (Range: -300 to +300mmHg, Accuracy: $\pm 7\%$)
- D. Air Detection-** Ultrasonic design & should be activated for air & micro bubbles over entire blood flow range. Sensitivity of detection mechanism should be specified in terms of air bubble size & on detection of excessive air, venous clamp should activate & blood pump stop. Reference point for level detector measurement should be about 13 ± 4 mm, from upper edge of venous chamber.

3. Dialysis Circuit

- A. Treatments/Therapies-** Should facilitate Acetate & Bicarbonate dialysis. Variable sodium & bicarbonate options. Volumetric UF & Sodium/UF profile options.
- B. Dialysate flow rates -** A Range of 100-1000ml/min should be available, with resolution of 100ml/min, with Accuracy- $\pm 10\%$, & provide good clinical outcome on EDDF therapy for acute patient Autoflow function should be available with ON/OFF feature, in view to save electricity & water consumption & synchronize with blood flow changes. Ecoflow function should be available when preparation phase is finished to save dialysate, water, electricity Pre-programmed more than 10 types of concentrates should be available & its change should not be necessary for calibration
- C. Temperature Control & Alarm-** Control Range: 34.0 to 39.0 deg Celsius with 0.5 increment Alarm Limits: 33.5 to 40.0 deg Celsius
- D. Conductivity Control & Alarm-** Range: 12.8 to 15.7 mS/cm Accuracy: ± 0.1 mS/cm Dialysate conductivity should be adjustable by sodium concentration, for Acetate Dialysis-with

range from 125 to 151mmol/l in increment of 1mmol/l. For Bicarbonate dialysis, range from 125 to 151mmol/l in increment of ± 8 mmol/l.

- E. **Blood leak detection-** Photo detector used, & alarm should be activated for blood loss rates
- F. **Volumetric UF-** Control Range: 0-4L/hr, given by set values of UF volume & treatment time, with accuracy $\pm 1\%$ UF volume: 0-9.99L adjustable in 1ml increment Treatment time: adjustable up to 9 hr 59 min. in 1 min increment TMP monitoring: -100 to +400 mmHg. Isolated ultrafiltration process should be provided.

Equipment should be capable of on-line preparation of bicarbonate dialysis fluid & It should be handle by one hands only

- I. **Ultra-pure Dialysate filter-** Should have hygienic connection for ultra-pure dialysate filter Should have endotoxin retention capacity not less than 106 IU. Machine should have an automatic program to change filter, including emptying & filling cycles. Filter should have life span not less than 12weeks or 100 treatments Filter should be arranged in cross flow setting & equipment should perform flushing during treatment automatically every 1hr. Filter change reminder should be available.
- 4. **Online Fluid Circuit**
 - a. **For HDF-** Both option of Pre-dilution & post-dilution of blood should be available Automatic control substitution program with pre/post dilution identity integrate function, dialyser integrate function, Effective blood flow rate integrate, HCT integrate function, Total protein integrate & UF rate integrate functions. Equipment should have 2 ultra-pure filters to prepare the online substitution fluid Should be capable of online preparation of substitution fluid for priming & rinsing of extracorporeal ckt for HD/HDF/HF/ or as injectionbolus & reinfusion at the end of treatment. Substitution fluid delivery rate: 25 to 600ml/min in 1ml/min increment, with accuracy ± 0.1 ml/min & exchange volume -210L (max.)
- 5. **Dialysis Parameter Display**
 - a. **Equipment should display parameters -** Arterial Pressure, Venous Pressure, Blood flow rate, Dialysate Conductivity, TMP, UF volume, UF rate, Remaining treatment time, Heparin infusion rate, Alarm info, etc
- 6. **Online Clearance Monitor (OCM)**
 - a. **Equipment should have-** Inbuilt measurement & monitoring of effective Urea clearance K, Dialysis dose Kt/v, & Plasma sodium during dialysis This measurement should be done without any additional cost & disposable during each treatment Measuring accuracy: Clearance $\pm 6\%$ Kt/V $\pm 9\%$
OCM conductivity evaluation should be 12 bit with 2 channels & 2 CD cells (1 cell for basic machine function) & Measuring range: 12.8 – 15.7 mS/cm,
Accuracy: 0.05 mS/cm OCM temperature evaluation should be 12 bit with 2 channels & 2 NTC (1 NTC for basic machine function) & Measuring range: 33.5 – 41 °C, Accuracy: 0.2 °C
- 7. **Blood Pressure Monitor (BPM)**
 - a. Should be Build in non-invasive device for measuring the patient blood pressure automatically Measuring Range should be Cuff pressure range: 10-325 mmHg or wider choice Systolic range: 30-280 mmHg or wider choice MAP range: 20-255 mmHg or wider choice Diastolic range: 10-240 mmHg or wider choice Pulse rate range: 20-245 1/min or wider choice Alarm values should be Systolic range: 90 & 165 mmHg MAP range: 70 & 120 mmHg Diastolic range: 50 & 100 mmHg Pulse range: 40 & 150 1/min
- 8. **Battery Backup-** The equipment should be able to operate and monitor the extracorporeal circuit without interruption for 20-30 min. in case of AC power failure by backup battery
- 9. **Disinfection and Cleaning-** Both chemical and heat disinfections should be performed Sodium hypochlorite should be used as cleansing disinfectant Various Programmable Cleansing Cycles should be provided with different phases and timings in accordance with different disinfectants. Should be One-touch fully automatic operation including pre-rinse, chemical-intake for combined disinfection & decalcification, post-chemical mandatory rinse, and automatic power-off; without the need of any end-user handling during this whole disinfection process.
 - Should be USFDA approved.
 - **(PORTABLE RO)**
 - 1. Should be of compact design on wheels for easy movement.
 - 2. Should be able to produce 125 Liter/Hour of permeate.

3. The system must be Microprocessor based.
4. In build Capabilities to show on display for Permeate (Supply in liter/min, Temperature) & for Raw Water (Consumption in Liters/min & Pressure)
5. Should have build in dual column softener with fully automated brine, fill and clean cycles, also have a brine tank incorporated in the system.
6. Should have build in cartridge type Charcoal Filter.
7. Should have fully automatic disinfection system in place.
8. Should have build in cartridge filter of 10 Micron and 5 Micron.
9. Should have programmable fully automated Rinse cycle for membranes wash.
10. There should be a provision of OFF line mode and ONLINE mode of Permeate Supply, In case permeate supply is to be used to run dialysis machines directly without collecting permeate to tank it should be possible.
11. There should be a water saving system in place which adjusts the output to the number of machines in use and control yield accordingly.
12. Should not have noise level more than 65 dB.
13. Should deliver the water quality as per AAMI standard.
14. Yield setting should be between 50 to 70 %.
15. Should have EC certification attached with tender document.

Item No. 11

Oxygen Concentrator

1. The molecular sieve is imported from france.
2. Steek shall radiator with casting process dissipate the heat quickly and its is good to lower the noise.
3. The machine obtain mass flow oil free compressor, and it can supply sufficient air source, the lifetime is more than 1500 hours, it has the characteristic of lower power consumption and lower noise.
4. Nebulization(Optional).
5. 3 grade filter devices.

Item No. 12

Operation Table

1. Mobile operating table with electro hydraulic drive (mains supply as well as Battery supported) for basic functions of height, tilting and Trendelenburg.
2. Heavy metal base & Base cover should be resistant to impact, breakage and disinfectants with additional scratch-proof enamel finish.
3. Entire table top frame and column cladding should be made of stainless Cr Ni steel fitted with x ray permeable 8 mm top.
4. Detachable head and foot rest, supplied with mattress, lithotomy crutches, arm rest, anaesthesia screen, body strap and perineal cut-out filler.
5. Fitted with 50 mm dia non rusting castors
6. All mild steel parts must be pre treated and epoxy polyester powder coated.
7. Height on electromechanical adjustments from 760mm to 960 mm.
8. Trendelenburg / Reverse Trendelenburg on electromechanical adjustment $+25^{\circ}/-25^{\circ}$
9. Lateral tilt, both directions on electromechanical adjustment $\pm 15^{\circ}$
10. Backrest adjustments on gas spring mechanism from 65 deg up /25 deg down.
11. Foot lever for table lock.
12. Optional operating table top for Babies and Infants to be fixed on the main Table.
13. Special-design, maintenance-free rechargeable batteries with capacity for about a week's use in the operating room
14. Recharging of the batteries and supply of the operating table by means of a mains cord
15. It should work on 220– 240 V.

Item No. 13

Diathermy Machine

1. Should be have both Monopolar and Bipolar

2. Monopolar out put up to 200w or more and Bipolar output 80w more.
3. Total digital display and control of intensity variation precisely adjusted by up/down control
4. Controlled both by foot or hand switch
5. Should have gentle audible tones to signal cutting and coagulation procedure
6. Should have good safety circuits to guarantees patient and operator safety.
7. It should give constant power to tissues regardless of tissue type.
8. It should have both cutting and coagulation mode with spray coagulation and fulgurate.
9. It should cause minimum tissue damage and neuromuscular stimulation by having good power efficiency ratio.
10. It should be programmable
11. It should be Easy to use, cost effective system with low maintenance.
12. It should run on 220-240V of 50 Hz.
13. It should preferably come with non sticky attachments electrodes for fine cutting, coagulation etc.
14. It should be compatible to use in endoscopic/laparoscopic surgery. (Optional)

Item No. 14

LED OT Light

1. It should be LED light with good shadow control.
2. Should have Lux intensity 80,000 for both domes.
3. It should have long life span preferably of more than 40000 operating hours.
4. There should be minimal or Nil heat radiation (cool light) without using any expensive external filter technique.
5. Lights should have drift free spring balance control.
6. There should be sterilizable handle to focus and control.
7. There should be aero dynamic domes suitable for modern laminar flow OT's
8. There should be light intensity adjustments
9. It should have adjustable light cabin pattern.
10. It should have electronic adjustment for light functions like:
 - a. Switch On/Off.
 - b. Light intensity control.
 - c. There should be natural white light for more clear vision without eye strain.

Item No. 15

Anaesthesia Work Station

1. The complete unit should monitors the vital signs and ventilates the patient from neonatal to adult.
2. Anesthesia Workstation should be complete with Anesthesia gas delivery system, Circle absorber system, Precision vaporizer for Isoflurane, Desflurane and Sevoflurane, Anesthesia ventilator and Monitoring system to monitor Anesthetic gases, ECG, EtCO₂, Pulse Oximeter and airway pressure, NIBP, dual IBP , dual temperature.
3. Anaesthesia machine and all the attached devices must be of same manufacturer.
4. Anaesthesia Workstation must have in built battery backup.
- 5. Flow management:**
 - a. Should be Compact, ergonomic & easy to use.
 - b. Multi-color display of at least 10" size, with flow meters for O₂, N₂O & Air.
 - c. Dual flow sensing capability at inhalation and exhalation ports.
 - d. Should have back-up O₂ control which provides an independent fresh gas source and flow meter control in case of electronic failure.
 - e. Gas regulators shall be of modular design / graphic display.
 - f. One no. yoke each for Oxygen & Nitrous Oxide. Separate Pipeline inlet for Oxygen, Nitrous -Oxide and Air.
 - g. Hypoxic Guard to ensure minimum 25% O₂ across all O₂-N₂O mixtures and Oxygen Failure warning.
 - h. Fresh gas flow range should be from 0- 10 L/min each for air, N₂O & O₂ (minimal flow capable).
 - i. In the event of complete power loss and battery failure it shall be possible to manually ventilate at 100% O₂ and deliver anaesthetic agents.
 - j. In case of O₂ failure machine should automatically switch over to air.
- 6. Breathing system-**
 - a. Latex free fully autoclavable, does not require tool to dismantle the breathing system.

- b. Flow sensing capability at inhalation and exhalation ports, sensor connections shall be internal to help prevent disconnect.
- c. Sensor should not require daily maintenance.
- d. Bag to vent switch shall be bi-stable and automatically begins mechanical ventilation in the ventilator position.
- e. Adjustable pressure limiting valve.
- f. Compact breathing system should be supplied with CO₂ absorbent canister of capacity more than 800 Gms and should be reusable and autoclavable.
- g. Fresh gas decoupled/ compensated breathing system should be available.
- h. Should have facility for automatic moisture removal.
- i. Optional CO₂ bypass facility should be available.

7. Vaporizers-

- I. New generation Vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.
- II. Vaporizer should mount to a Selectatec/ Quick mount manifold of 2 vaporizers, which allows easy exchange between agents. Temperature, pressure and flow compensated vaporizers and Maintenance free for Isoflurane, Desflurane and Sevoflurane with proper calibration certificate.
- III. The vaporizer should be maintenance free and should not require any calibration.

8. Ventilation-

- a. The workstation should have integrated Anesthesia Ventilator system.
- b. Ventilator should have Volume Control and Pressure Controlled and SIMV with PS & Pressure Control, Pressure support with Apnea Back up ventilation modes.
- c. Ventilator should have a tidal volume compensation capability to adjust for losses due to compression, compliance and leaks; and compensation for fresh gas flow.
- d. The workstation should be capable of delivery of low/ minimal flow anesthesia.
- e. Ventilator should be capable of up to 150 L/min peak flow to facilitate rapid movement through physiologic —dead space in the Pressure Control mode.
- f. Tidal volume: 05 ml-1400ml.
- g. Monitoring of Volume, Pressure & Oxygen.
- h. Should monitor patient compliance.
- i. Trending for alarms and measured values with graphic trend display.

9. Anesthesia Monitoring Specifications 19” Screen

- a. Advanced high end patient monitor having integrated non-invasive, invasive measurements & features suitable for neonate, pediatrics & adult patients.
- b. Monitor must have bright, highly visible minimum 19” or more Color TFT display (Medical Grade) with full touch screen.
- c. The control should be from rotary knob &/ or touch screen.
- d. Monitor must have the facility to display 8 or more waveforms on a single screen.
- e. Monitors must be able to monitor ECG (5/12 lead display with reduced lead sets), SpO₂, NIBP, Respiration, dual temp, dual IBP & ETCO₂ with simultaneous monitoring of 2×IBP and 2× Temp, for all monitors.
- f. The monitor should be upgradeable to a) Multi Gas measurements including CO₂, N₂O, O₂, and Anesthetic Agents including inspiratory & expiratory values, b) BIS, c) NMT, d) PICCO, e) ICP, f) 4 channel EEG g) and Continuous Cardiac Output (price to be quoted as optional).
- g. Monitor must have advanced arrhythmia detection including life threatening arrhythmias as standard feature. Also must have inbuilt and automatic facility to eliminate false arrhythmia alarms & must have ST segment analysis with ST trend.
- h. The SpO₂ probes must be of Massimo/ Nelcor or equivalent for signal extraction technology to monitor SpO₂ during poor perfusion (Proof for the same).
- i. Must have minimum 24 hours review data including graphical and tabular trends, arrhythmia event recalls, alarms etc.
- j. Must have mainstream EtCO₂ sensor can be used on both intubated and non-intubated patients.
- k. Should have minimum up to 100 events, graphical and tabular trends, alarm log, drug dose calculations, Oxy CRG, Oxygen/ Ventilation and hemodynamic calculations as standard features.
- l. All Monitors should be able to communicate with each other and can display other patient monitor data without the need of central monitor.
- m. Monitor should provide easy to use spirometric monitoring for continuous analysis of respiratory flow, pressure & volume parameters during anaesthesia & intensive care of ventilated patients.

- n. Monitor should have Systolic pressure variation (SPV) and Pulse pressure variation (PPV) monitoring capability which helps clinician in guiding fluid management.
- o. Monitor must be US FDA approved for monitor as well as all other parameters.
- p. Monitor should have a cautery/ electrical disturbance filter as a standard feature.
- q. Each monitor to be supplied with following:
 - 5/6 Lead ECG electrode cable 1. No each.
 - Adult Spo2 probe - 1 no.
 - NIBP cuffs for Adult & Pediatrics - 2 no each (of different sizes).
 - Temp Probe - 02 Nos. (Skin & esophageal/ rectal one each).
 - IBP connection cable – 02 Nos.
 - IBP Disposable Pressure Transducers – 10 Nos.
 - Mainstream ETCO2 set –with accessories- 01
- r. The price of central nursing station (12 bedded & 16 bedded) with complete networking, 23 inch display and laser printer to be quoted separately.
- s. Manufacturer should quote to ensure proper after sale services & company should provide the service directly not by channel partner to ensure maximum uptime of the equipment by local service center.
- t. The quoted equipment should comply with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
- u. Live Demo is mandatory at our premises within stipulated time.
- v. In case of technical snag/ failure the response time for Inspection within 24 Hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the University.

Item No. 16

Negative Pressure Suction Machine

1. voltage: Power AC220V±10% 50Hz
2. Negative pressure: $\geq 0.09\text{MPa}$ (680mmHg)
3. Suction rate: $\geq 25\text{L/min}$ (35L pump suitable)
4. Range of negative pressure: 0.013MPa~0.09Mpa(680mmHg)
5. Suction bottle: 2500ml x 2
6. Noise: $\leq 55\text{dB}$
7. Input power: 400VA
8. Pump structure: Diaphragm type
9. Working type: intermittent loading,continuous operation

Item No. 17

Flush Autoclave

1. Should have chamber of stainless steel with carbon steel jacket. Single door sterilizer,
 2. The sterilizer.should have built in steam generator with anti filling system and vaccum ejectors.
- The operable temperature should be 121 and / or 131 °C

Item No. 18

Pressure Tourniquet Machine

Maximum Pressure	90KPa (650mmHg)
Time Set	0—99 minutes
Power Supply	110v, 50HZ /220,60HZ
Power of Whole Machine	No more than 25 W
Range of Pressure	1KPa—90KPa
Pressure Accuracy	$\pm 5\text{ mmHg}$ pressure set
Time Accuracy	0.5±1 sec
Li-ion battery	14.8V, $\geq 1000\text{mAh}$
Normal working environment temperature range	5°C~35°C
The normal work of relative humidity	$\leq 80\%$
Transportation and storage environment temperature	5°C~45°C
Transportation and storage of relative humidity	$\leq 80\%$

Item No. 19

Air Mattress

1. Medical grade PVC mattress with 2.5''bubbles.
2. Suitable for prevention & stage1 ulcer.
3. Operational on invertors also.
4. Hospital bed size mattress (6.5'x3').
5. Pressure adjustment regulator.
6. Extended mattress on both end for tuck into restrict the mattress for slipping down.
7. Merged alternate pressure relief system
8. Voltage – 230V
9. Consumption – 0.17A
10. Air Output - >4
11. Pressure Range – 50 – 105mmHG
12. Cycle Time – 5 M- 6M

Item No. 20

Laryngoscope (Adult & Pediatrics)

1. LED Laryngoscope
2. Bright: The LED (Light Emitting Diode) in the Greenlight II and Vital View
3. Standard Handle
4. Stubby Handle
5. Plastic Macintosh Blades sizes 2 / 3 / 4
6. Plastic Miller Blades sizes 0 / 1 / 2 / 3
7. Stainless Steel Macintosh Blades sizes 2 / 3 / 4
8. Stainless Steel Miller Blades sizes 0 / 1 / 2 / 3

Item No. 21

Magnifier Loop

Precise vision...

- High image quality and color fidelity – brilliant image that extends to the peripheral zones
- High depth of fields yields excellent depth orientation
- Large fields of view allow for an optimum overview of the working field

Work in comfort...

- The ergonomic design of the carrier system ensures an outstanding fit
- Customizable settings promote an upright posture regardless of the viewing angle
- The large selection of working distances permits an optimal treatment position

Intuitive operation...

- Simple adjustments for fast, easy operation
- Flip-up function facilitates unobstructed vision and easy communication with the patient
- Sterilizable contact guards allow quick flip up/down operation even under sterile conditions

EyeMag Pro (Kepler type) Medical Loupe include:

- EyeMag Pro F telescopes and carrier system (titanium eyeglass frame available in three sizes)
- EyeMag Pro s telescopes and carrier system (adjustable headband)
- Protective lens caps
- Sterilizable contact guards
- Optics cleaning cloth

Item No. 22

Fiberoptic intubation bronchoscope

1. Flexible bronchoscope with CMOS chip on tip/ Equivalent technology for digitally transferring the image to the screen. There should be NO Optical Fiber bundles. Flexible Endoscope to display Full Frame 4:3 Imaging, replacing the circular display windows. The image can be displayed directly on a small TFT monitor attached to the screen.

2. Screen 7 inch or more in size for display with clearly arranged soft keys for immediate use. The screen should have HDMI or HD output for connecting to a big screen. Also there should be port to connect USB drive in monitor.
3. Automatic/ manual white balance facility should be available on the monitor as well as on the scope
4. Documentation of Video & still images should be possible on data card or USB drive with JPEG and MPEG4 format which can be easily transferred to the computer/laptop. Documented videos & still images should be easily recalled on the monitor
5. Screen should be rechargeable & runs on Lithium Ion Batteries (operating time- 1 hr or more).
6. It should be light weight, high resolution & portable flexible scope.
7. Monitor should have a facility to connect two flexible scope directly without any special coupler or accessory.
8. TUBE HOLDER should be a part of standard accessory
9. Set should include- Suction Adaptors (Disposable) at least- 04, cleaning brush & Leakage tester at least 02 and Bite guard at least 04 with each machine as standard accessories.
10. Scopes will be requiring for bronchoscopy, Double Lumen tube placements and Intubations.
11. Suitable Biopsy forceps, flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120cm.
12. Suitable Grasping forceps, flexible, alligator, jaws, double action jaws, diameter 1.8 mm, working length 120cm.
13. One 15" Medical Grade Monitor manufactured from the same company, color systems PAL/NTSC, max. screen resolution 1024 x 768, power supply 100 - 240 VAC, 50/60 Hz, wall-mounted with VESA 100 adaptor, including: - Mains Adaptor & Mains Cord - S-Video. HDMI cable should be provided to connect above small monitor with 15" medical grade monitor.
14. Suitable Trolley manufactured by the same company should be provided.
15. All the above equipments should be manufactured from the same company.
16. Product should have US FDA approval.
17. All standard accessories must be covered under CMC, Like Leak test positive, Forward & backward bending and Camera including Chip etc.
18. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
19. Live Demo is mandatory at our premises within stipulated time.
20. In case of technical snag/ failure the response time for Inspection within 24 Hour and repair within 5 days after providing a service machine. Failing which will attract penal action as per the decision of the University.

21. Suitable for following applications

- a) Bronchoscopy
- b) Endotracheal Intubation
- c) Foreign body removal
- d) Bronchial Lavage
- e) Inspection of the Airways
- f) Dilatation Tracheotomy

Technical Details of Flexible Video Endoscope (Adult)

- a) Tip deflection UP/DOWN: 140°/140° ,
- b) Angle of view 85° or more,
- c) Working Length: at least 65 cm,
- d) Total length: at least 90 cm,
- e) Working Channel diameter: at least 2.2 mm,
- f) Distal Tip Outer Diameter:- 5.5 mm or less

Optional Items:- Flexible Video Endoscope (Paediatric) Technical Details:

- a) Tip deflection UP/DOWN: 140°/140° ,
- b) Angle of view 85° or more,
- c) Working Length: at least 65 cm,
- d) Total length: at least 90 cm,
- e) Working Channel diameter: at least 2.2 mm,
- f) Distal Tip Outer Diameter: - 4 mm or less

LED portable light source (rechargeable)

- LED light source with brightness not less than 50000Lux,
- Should be provided with chargeable battery and charger • The set should include all the required accessories and can be easily attached to fiberscope via click or rotation function,

- Should be light weight.
- Life of LED should be close to 50,000 Hrs.
- Battery charger should have a facility to charge two light sources simultaneously.

Camera Head Camera

head, 8-pin, one-chip CMOS camera head, resolution 640x480, focal length f=20 mm, compatible with above 7 inch monitor to connect existing fiberscope.

Item No. 23

Bath Tub

1. Characteristics

Operation
Manual

2. Options and accessories:

For burn Victims

3. Description:-

The stationary burn treatment tub is offered as a complete system with a reclining lifter of lifting device. Its stationary tub is 85 cm wide and has interior length of 240 cm. providing ample space for situations that can be challenging. such as treating head injuries of taking care of large patients. The burn treatment tub is equipped with a thermometer and an anti-scalding device, The tub has slightly rounded corners and is made of premium acid-resistant stainless steel, There is a shower head on both sides of the tub for effective wound treatment.

Item No. 24

Sl. No.	Surgical instruments & Specification	Estimated Quantity
1)	Artery Forceps Spencer wells straight -15cm	06 Nos
2)	Artery Forceps Spencer wells straight -20cm	06 Nos
3)	Artery Forceps Spencer wells curved -15cm	06 Nos
4)	Artery Forceps Spencer wells curved -20cm	06 Nos
5)	Artery Forceps Halsted mosquito straight -12.5cm	06 Nos
6)	Artery Forceps Halsted mosquito straight -14cm	06 Nos
7)	Artery Forceps Halsted mosquito curved -12.5cm	06 Nos
8)	Artery Forceps Halsted mosquito curved -14cm	06 Nos
9)	Artery Forceps Halsted mosquito straight -21cm	06 Nos
10)	Artery Forceps Halsted mosquito curved -21cm	06 Nos
11)	Scissors Mayo straight 15cm	01 Nos
12)	Scissors Mayo straight 18cm	01 Nos
13)	Scissors Mayo straight 20cm	01 Nos
14)	Scissors joseph straight 14cm	02 Nos
15)	Scissors joseph curved 14cm	01 Nos
16)	Scissors gorney straight 14cm	02 Nos
17)	Scissors gorney curved 14cm	02 Nos
18)	Scissors stevens straight 11cm	02 Nos
19)	Scissors stevens curved 11cm	02 Nos
20)	Scissors strabismus straight 11cm	02 Nos
21)	Scissors strabismus curved 11cm	02 Nos
22)	Scissors enucleation curved 11.5cm	02 Nos
23)	Scissors doyen straight 18cm	02 Nos
24)	Scissors Lloyd-Davies curved 25cm	01 Nos
25)	Scissors stelnzer straight 30cm	01 Nos
26)	Needle Holders Crile wood 10cm	02 Nos
27)	Needle Holders Crile wood 12.5cm	02 Nos
28)	Needle Holders Crile wood 15cm	01 Nos

29)	Needle Holders Crile wood 18cm	01 Nos
30)	Needle Holders Crile wood 20cm	01 Nos
31)	Needle Holders Ryder vascular 13cm	01 Nos
32)	Needle Holders Ryder vascular 15cm	01 Nos
33)	Needle Holders Ryder vascular 18cm	01 Nos
34)	Needle Holders Ryder vascular 20cm	01 Nos
35)	Needle Holders jamison 23cm	01 Nos
36)	B.P. Knife standardsolid(Graduated) no.3	03 Nos
37)	B.P. Knife standard solid(Round) no.4	01 Nos
38)	B.P. Knife standard solid no.4	01 Nos
39)	B.P. Knife standard solid double handle no.3+no.4	01 Nos
40)	Skin hook (single & double hook different size)	12 Nos
41)	C-shape Retractor	01 set
42)	Cat paw Retractor	01 set
43)	Urethra Dilator stainless steel (one set)	01 set
44)	Hegar Dilator stainless steel (one set)	01 set
45)	Ding man mouth gag (Adult& Pedi.)	02 Nos
46)	Ferguson mouth gag	0 Nos
47)	Lane mouth gag	01 Nos
48)	Magill Forceps (Small-2Nos &Big-2Nos)	04 Nos
49)	Air way different sizes 1,2,3,4	04 Nos
50)	Tracheotomy sets	02 sets
51)	Basin steel	06 nos
52)	Steel katori Different size	12 Nos
53)	Kidney tray Different sizes	12 Nos
54)	Marker Pen Black	04 Nos
55)	Probe cum dilator	04 Nos
56)	Measuring scale 6" and 12" (stainless steel)	02 Nos
57)	Tongue Depressor different size	02 Nos
58)	Cheek Retractor (Metallic)	02 Nos
59)	Bone Nibular double action (small & big)	02 Nos
60)	Hand Drill- Electric operated hand held with micrometer hand pieces, for drilling bone 220- 240 Volt. vulnerable motor speed with provision speed control, clockwise and anti clock wise , hand piece to be optional quoted.	01 Nos
61)	Bone Cutter double action stainless steel with sharp/diamond/tongue carbide cutting edge.	02 Nos
62)	Periosteal Elevator Howarth type	02 Nos
63)	Periosteal Elevator Surgical type small	02 Nos
64)	Humby's Skin grafting handle Watson modification stainless steel	04 Nos
65)	Humby's Skin grafting blade (Hamby's Skin grafting handle size)	04 Nos

Note: All Surgical Instruments (S.no.1 to 65) should be CE/ US FDA approved.

Item No. 25

Electric Blanket

- Pattern : Stripe
- Weight : 1.56 Kgs
- With three temperature settings : Low/Medium/High(1-2-3). Use setting 3 for 20 minutes for pre-heating the blanket, and then use at 1 or 2 as per your convenience.
- Two built in Thermal cut outs for 100% Safety.
- Teflon Coated Wiring for protection against overheat.
- LED Indicator for Clear Viewing.

- Even Distribution of Heat.
- Water Proof Element.
- Long Lasting Heating element.
- Well insulated on either side for complete safety and comfort.
- SIZE (Approx.):27 x 60 inches (Single bed)
- WATTAGE (Approx.):80 Watts (Single bed)
- VOLTAGE(Operable at low voltages too) : 220 - 250 volts (AC)
- FREQUENCY : 50-60 Hz

Item No. 26

Meshes

- Manual graft mesher
- Graft carried on carrier
- Expansion atleast 5 times

PART-B

Item No. 1

Fowler Bed

1. Overall approximate dimension 2250 mm(L) x 985 mm(W)
2. Bed frame dimension 2050 mm(L) x 910 mm(W)
3. Minimum height 490 mm (Without mattress)
4. Maximum height 710 mm (Without mattress)
5. Trendelenburg / Reverse Trendelenburg by Crank System
6. Four Corners - Standard side buffers
7. Polymer molded Head & Foot boards
8. 125 mm Non Rusting Castors, 2 with brake\
9. Pre-treated and powder coated finish\
10. Upper leg section adjustable by crank section
11. Mattress (Sectional)
12. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 2

Fully Motorized ICU Beds

- Fully Motorized Hi-Lo ICU bed
- Fully length S.S. Collapsible Railing
- S. S. heavy duty I.V. Rod.
- Mattress (Sectional)
- Excellent adjustable auto contoured position through sequential movements thus allowing maximum patient comfort.
- Retractable back and upper legs sections thus avoiding friction and shear force on the back.
- Sleek designed user friendly handset for the caregiver and the patient.
- Inbuilt battery backup.
- Built-in bed extension for taller patients
- Convenient low height of 520 mm.
- Convenient raised height of 750 mm.
- Quick & easily removable head and foot panels during intubation and resuscitation.
- 125 mm castors for smooth and optimal movement with accessible foot brakes on two castors.
- Split safety side rails.
- Wall deflection buffers at all four corners.
- Dual sided manual CPR position.
- Safe and smooth trendelenburg and reverse trendelenburg.
- Easily removable 5 section platform tops allow easy cleaning thus easy to disinfect, fumigate & wash and is impact resistant.
- Lightweight removable head and foot panels allow open access for bed cleaning.
- The modular design helps in better cleaning of the entire bed.
- Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 3

Central Oxygen and Suction pipe fitting with accessories

1. Copper Pipe 12mm O.D
2. Copper Pipe 15mm O.D
3. Isolation Valve- 12mm
4. Isolation Valve- 15mm
5. Isolation Valve- 28mm
6. BPC Flowmeter with Humidifier Bottle
7. 600ml Ward Vacuum Unit
8. Front Loaded Parkodex Type Gas Outlet Points with probes.
9. Parkodex Type probes
10. N2O,O2 C-Air & Vacuum SS valve probes
11. Area online system
12. Isolation valve 22 mm
13. Theater Suction Unit
14. O2,N2O, Vacuum & Air High Pressure Hose
15. L.P Tubing for Suction.
16. O2 & N2O Pin Index
17. Vacuum SS Valve
18. Other items (pendents,etc).

Item No. 4

Bed Side Table (adjustable)

1. Approximate top dimension of 810 mm L X 352 mm W.
2. Two section laminated top.
3. M.S. tubular telescopic stem, with geared S.S. handle for height adjustable from approximately 760 mm to 1050 mm.
4. M.S. rectangular tubular base frame mounted on four twin wheel non rusting castors, 50 mm diameter without brake.
5. Pre-treated and powder coated.
6. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 5

Emergency & Recovery Trolley

- Overall Approximate Size: 1905 mm x 710 mm, 75" x 28" (L x W).
- Stretcher size: 1830 mm x 555 mm, 72" x 22" (L x W).
- Two section top.
- Height adjusted by foot operated imported hydraulic pump from 660 mm (26") to 910 mm (36").
- X-Ray permeable removable stretcher.
- Backrest raised on ratchet.
- Gas spring assisted Trendelenburg / Reverse Trendelenburg positions.
- Four imported swivel castors, 125 mm (5") diameter, two with total lock.
- Complete with corner buffers.
- Synthetic rubber covered handles.
- Sliding X-Ray cassette holder & accessories tray.
- Oxygen cylinder holder
- S.S. telescopic I.V. rod and swing-away S.S. side rails.
- Safe working load of 165 kgs and patient load bearing capacity of 135 kgs.
- Pretreated and powder coated.
- Rexine covered mattress of 25 mm (1") thickness

Item No. 6

Bed Side Lockers

01. Overall size : 40L x 40W x 82H cms.
02. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage.
03. Stainless steel top of 22G in matt finish.

04. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving.
05. Pre-treated and epoxy powder coated finish.
06. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

PART-C

Item No. 1

Stretcher Trolley

- Overall approximate dimension: 2030 mm x 560 mm x 820 mm, 80" x 22" x 32" (L x W x H)
- S.S. tubular framework mounted on four swivel castor of 200 mm diameter, two with brake and two without brake
- Removable stretcher top made of stainless steel sheet supported on S.S. tubular frame
- Two provisions for IV. Pole
- Supplied with safety belts
- Safe working load of 135 kgs and patient load bearing capacity of 130 kgs
- Rexine covered 25 mm thick single section mattress 1830 mm x 560 mm, 72" x 22" (L x W)
- I.V. rod
- S.S. oxygen cylinder cage (0166G)
- S.S. storage tray (0149A)

Item No. 2

Medicine Stand

1. Height adjustment from 1620mm to 2340mm
2. Five legs MS stable base made of 20mm x 40mm x 1818 g tubes fitted with 50mm dia non rusting castor.
3. SS rod with double hooks made from 304 grade ss 10mm rod.
4. Working in nylon buffers SS parts finished with matt polish.

Item No. 3

Wheel Chair

1. Overall approximate dimension: 670 mm x 1120 mm x 920 mm, 26" x 44" x 36" (W x D x H)
2. S.S. tubular frame work fitted with cushioned seat and back
3. Adjustable aluminium footrests
4. Two solid rubber tyred bicycle wheels with brake and self propelling S.S. hoops
5. Two swivel castors in front of 200 mm (8") diameter
6. Safety belts provided
7. S.S. tubular construction
8. Moulded chart holder provided

Item No. 4

Hydrotherapy Exercise Instrument

1. **Construction:-** Constructed of heavy gauge (14 & 16 gauge) stainless steel sheet electrically Argon welded tank is in rectangular shape
2. **Inside dimension:-** Tank measures 200cm long x 100cm wide x 50cm deep from inside.
3. **Turbine Ejectors, Aerators & Carriages:** One with ½ H/P motor, Ejectors with elevators on ball bearing carriages.
4. **Head-rest:-** Adjustable stainless Steel head-Support.
5. **Stretcher:-** Stainless Steel body stretcher fitted with nylon cloth.
6. **Stool:-** Stainless steel stainless sitting seat fitted with nylon cloth.
7. **Thermometer:-** Thermometer- One digital thermometer to show the temperature of water.
8. **Power Supply:-** 220 V AC

ACCESSORIES

1. An Electric hoist of 500 kg. capacity for lifting and lowering of patient in the tank. Works on 440 v. three phase A.C. power supply Hoist is fitted with electric Travelling trolley that moves the hoist side ways on the I beam comes complete with eye hooks for stretcher.
2. **Trolley:**
3. Painted trolley frame. Mounted on four 20cm dia wheels for carrying stainless steel stretcher with nylon cloth & belts.

Item No. 5

Oxygen Cylinder with flow meter

1. Fine Adjustment Valve with Flow meter and Humidifier.
2. Full Brass construction.
3. Suitable for Bull-Nose type valves.
4. Includes floating type flow meter.
5. Polycarbonate humidifier bottle.
6. Oxygen Cylinders

Item No. 6

Bed side Bowl with Stand (Kick bucket)

- 01 Stainless Steel tubular framework fitted with three 125 mm diameter castors with synthetic body, without brake.
02. Stainless steel bowl of approximate 375 mm diameter.
03. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs

Item No. 7

Ultra Violet Light

1. Compact and hand held UV lamp unit design for curing UV adhesive.
2. Ensure constant UV output for more than 1000 operating hours
3. Adequate ultra violet intensity.
4. Simulate to natural light spectrum.

Item No. 8

Dressing Trolley

01. Overall approximate dimension: 1010 mm L X 510 mm W X 900 mm H.
02. Approximate shelf dimension: 750 mm L X 500 mm W.
03. S.S. tubular frame mounted on four 125 mm diameter castors with synthetic body, two with brake & two without brake.
04. Two S.S. shelves with protective railings on all four sides.
05. With S.S. bowl and S.S. bucket.
06. Supplied in SKD condition.

Item No. 9

Bed Side Stool

01. Overall approximate dimension: 300 mm x 300 mm x 510 mm, 12 x 12 x 20 (Lx W xH)
02. Framework of mild steel, pressed bent angles and ORCA steel sheet top
03. Legs fitted with rubber feet
04. Pre-treated and powder coated finish
- 05 Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 10

IV Set Stand

- 01 Height adjustment from 1620mm to 2340mm.
02. Five legs stable base made of 20 mm X 1818 G tubes fitted with 50mm dia non rusting castor .
03. SS rod with double hooks made from 304 Grads SS 10mm Rod.
04. Working in nylon buffers. SS parts finished with matt polish.
05. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 11

Avorgatan IM2

• IMI-2536: IMICO COLE THERAPY UNIT

Made out of heavy gauge stainless steel sheet. Tank is fully insulated in between top and sides. Fitted with heavy duty cooling unit and thermostat for temperature control. A drain valve is provided for emptying. Mounted on 3" sizes ball bearing rubber castors for easy mobility. Comes with 6 standard packs (Size 25x30cm) containing special silica gel crystals. Finished bright inside and special paint outside.

Item No. 12

Sona Bath

1. **Construction:-** Hardwood and proof ply. With acrylic window on both sides. With whal bitted
2. **Steam:-** Generator heavy aluminum body. With safety vaive. Controlee calve & pressure gauge .
3. **Herbal Basket:-** Perforated stainless Steel herbal basket on stand is provided placing Herbs in steamer.
4. **Timer:-** 60 minutes,. To control the working of steam generator .
5. **Power:-** 3kw. Heater.. 220v Ac
6. **Temperature:-** unit is fitted with temperature controller cum indicator.
7. **Overall Size:-** 84” longx36” wide x 40” high
8. **Finish:-** Inside painted and outside is polised natural. (you have to fill water manually in steam generator, after every 4 baths)
9. **Note:-** Fill water manually in steam generator, after every 4 baths.

Item No. 13

Ambu Bag

1. Silicon make ambu bag.
2. Adjustable Pressure Limiting (APL*) Value
3. The Adjustable PEEP Valve is designed for use with our self-infl ating resuscitation products and allows the user to select PEEP from 5-20 cm H2O.
4. Vital Gauge is a disposable pressure gauge to monitor the peak inspiratory pressure delivered to the patient. An adjustable “O” ring facilitates confirmation of peak inspiratory pressure.

Item No. 14

Boiler

Boiler Instrument Sterilizer, All Stainless Steel made of aisi-304 304 Grade Stainless Steel Sheet, Argon Arc welding with front hand and strong Automatic tray Lifting device, fitted with industrial water immersion heaters with water outlet tap

Item No. 15

Microwave Diathermy

1. Approximately 50 memorizes protocols
2. Space for Memorizing 50 Protocols
3. 64 K bit Smart card
4. 6 Inches LCD Graphic Display
5. 250 W (In Constant Mode) and 1600 W in
6. (In Pulsated Mode)
7. Overheating Alarm
8. Double protection system to guarantee extended magnetron life
9. Integrated Serial Controller
10. 16-Bit Microprocessor

PART-D

Item No. 1

LED (X-ray) View Box

1. LED light source whose life is 100,000 hours ,is more than 20 times of CCFL viewer
2. Take us of Mitsubishi viewing screen which make the light more bright and soft ,the screen can be used for long time and not turn yellow and deform
3. Without the effect of temperature difference as CCFL ,the viewer can be lighted as soon turn on
4. Light source .layout in equal spaced points ,which is more uniform and the uniformity of luminance is above 90% .the seed of viewer is matrix LED dot matrix board
5. The viewer can be automatically on when insert the film and off when take away the film
- 6.
7. The light frequency is above 50KHz,effectively relieves the fatigue of vision
8. Adopt advance clamping film setting which suitable for different thickness of film .avoid the drawbacks of rolling film setting as film setting as film easily fall down and hard to lock.
9. With 8 digital grades to adjust brightness, the maximum brightness can reach to 6000cd/and suitable to different density medical film

10. ROHS:it's no hurt for people ,and material of 95% can be recycled
11. The wide power design which fits for the power of different areas ,the viewer work well within AC100-250V
12. Ultra thin design and the power set inside the viewer .thickness is 2.5cm,available for desk and wall mounting, effective of space

Item No. 2

LED View Box (3 film set)

1. LED light source whose life is 100,000 hours ,is more than 20 times of CCFL viewer
2. Take us of Mitsubishi viewing screen which make the light more bright and soft ,the screen can be used for long time and not turn yellow and deform
3. Without the effect of temperature difference as CCFL ,the viewer can be lighted as soon turn on
4. Light source .layout in equal spaced points ,which is more uniform and the uniformity of luminance is above 90% .the seed of viewer is matrix LED dot matrix board
5. The viewer can be automatically on when insert the film and off when take away the film
6. The light frequency is above 50KHz,effectively relieves the fatigue of vision
7. Adopt advance clamping film setting which suitable for different thickness of film .avoid the drawbacks of rolling film setting as film setting as film easily fall down and hard to lock.
8. With 8 digital grades to adjust brightness, the maximum brightness can reach to 6000cd/and suitable to different density medical film
9. ROHS:it's no hurt for people ,and material of 95% can be recycled
10. The wide power design which fits for the power of different areas ,the viewer work well within AC100-250V
11. Ultra thin design and the power set inside the viewer .thickness is 2.5cm,available for desk and wall mounting, effective of space

Item No. 3

Moist Heat Therapy Unit

1. Made out of heavy gauge Stainless steel sheet (outer body 18 gauge and inner chamber 20 gauge) double walled,well insulated,mounted of 75 mm dia , 4 casters & drain valve.
2. Dimensions: approx 6040X80cm.
3. Heat control: Thermostat to control temperature from 30 to 110 deg;cen with 2 pilot lamps.
4. Heater :2kw.(Designed heater)
5. Hot packs: Total 12 of different sizes as:
 - a. Six –Standard Size(25X12cm)
 - b. Two –Half Size (12X30cm)
 - c. Two- Neck contour (60x15cm)
 - d. Two- full back(25x50cm)
6. Accessories : Two forceps to get out hot packs from hot water & power pin plug
7. Finish: Polished finish inside.

Item No. 4

Instrument Table

1. Overall approximate dimension: 760 mm L x 510 mm W x 900 mm H.
2. Approximate shelf dimension: 750 mm L x 500 mm W.
3. Stainless steel tubular frame mounted on four 125 mm diameter Castors with synthetic body, two with brake & two without brake.
4. Two stainless steel shelves with protective railing on all four sides.
5. Supplied in SKD condition.

Item No. 5

Non Mercury B.P. Machine

1. Should be mounted on stand, with adult and pediatric cuffs.
2. B P Instrument fitted in Stand with wheel.
3. 60.2 mm-diameter dial
4. Large zinc-alloy handle with black powder-coating
5. Nylon cuff (Adult & Pediatrics) without D-ring
6. 1-tube adult size bladder
7. Flat head latex bulb

8. Nylon carrying case
9. Large end valve

Item No. 6

Ultrasonic Doppler

1. Ultrasonic Frequency: Interchangeable probes of 2,5 and 8 MHZ
2. Audio Output : Max. 1000 milliwatts, adjustable by means of volume control.
3. Power supply : 220 Volts 50Hz..

Item No. 7

Whirlpool Bath

1. **Construction.**
2. 1.6mm thick stainless Steel sheet tank (SS grade 304) is continuously welded with Argon gas Arc welding and mounted on 10cm dia. 4 heavy duty casters
3. **Turbine:-** Turbine Ejector-Aerator is powered by a vertically mounted ½ hp electric motor & mounted on a spring loaded turbine elevator for height adjustment .
4. **Size.** - 120cm x 60cm x 60cm deep inside the tank.
5. **Water Heater :-** 2k.watt special heater, with cover,
6. **Temp. Control:-** Digital Temperature Indicator cum Controller.
7. **Drainage:-** Drainage system for emptying. No plumbing required
8. **Finish.-** Inside. Bright polish finish, Out-side: Painted or Polish.
9. **Accessories:-** Polished S.S Sheet Seat, and Arm-rest
10. **Power Supply:-** 220V AC.

Item No. 8

Water Jet Massager

1. **Physical therapy equipments function.**
2. Vichy shower massage bed spa equipment. Using the power of high speed water pillar to knead the head neck shoulder and back It can wake the patient. Reduce the headpain remove the tire release the muscles and remove the pain from the shoulder. Taking you out from boring and vexation.
3. 7 showerheads have individual on/off and water flow adjustment
4. It is appropriately treated and sealed for wet room use. The vichy shower has seven individually controlled showerheads which are tuned by a twist of the therapist.
5. Specification
6. Type :- Health & beauty spa equipment
7. Table size:- 1.9m(L)* 0.7m(H)
8. Material:- Myanmar hemlock and stainless
9. Nozzle:- 7 showerheads running power if power is enough. Connect to water pipe. If not need to match with water pump customized yes
10. Usage:- Hydraulic massage bed

Item No. 9

Resuscitation Cart

1. Overall approximate dimension: 960 mm x 500 mm x 1545 mm (L x W x H).
2. Stainless steel tubular frame & S.S. Shelves.
3. Six removable bins and two polystyrene lockable storage units with three drawers having containers of different sizes.
4. Four 125 diameter Castors with high grade synthetic body, two with brake and two without brake.
5. Complete with corner buffers, powder coated oxygen cylinder holder, cardiac massage board.
6. Stainless steel I.V. Rod.
7. Supplied in KDC.

Item No. 10

Temperature Chart Holder

- Keeps charts and files handy
- Wall-mountable
- Clear durable PETG construction stronger than acrylic
- Easy to install with pre-drilled keyholes or double sided tape

- Individually bagged
- Volume pricing
- 1 pound

Item No. 11

Revolving Stool

- 01.Tubular tripod based with S.S. revolving top with cushion of 75 mm thickness.
- 02.Height adjustable from approximately 480 mm to 670 mm by accurately machined screw mechanism.
3. Legs fitted with rubber feet.
4. Pre-treated and powder coated finis
5. Comprehensive warranty on site for 5 yrs, provide AMC /CMC after 5 yrs.

Item No. 12

Dressing Drum Stand

1. Stainless steel heavy-duty rod.(make)
2. S S heavy-duty top.

Item No. 13

Stepping Stool

1. Tubular tripod based with S.S. top with cushion of 75 mm thickness.
2. Double foot steps size 50Lx40Wx46Hcm
3. Single foot steps size 50Lx25Wx20Hcm
4. Legs fitted with rubber feet.
5. Pre-treated and powder coated finis

PART-E

Item No. 1

Steel Almirah

1. Almirah with adjustable shelves.
2. Sheet thickness 20 Gauge prime C.R.Sheet.
3. Number of shelves-four.
4. Dimension : Height- 1980mm(1855+125) including the height of pedestals, Width- 910mm,Depth- 480mm.
5. Color – Silver .

Item No. 2

Steel Rack

- 01Steel Rack with adjustable shelves.
2. Sheet thickness 20 Gauge prime C.R.Sheet.
- 3.Number of shelves-four.
- 4 Dimension : Height- 1980mm(1855+125) including the height of pedestals, Width- 910mm,Depth-480mm.
- 5 Color – Silver.

Item No. 3

Office Table

Steel reading table of the size 5'x3'x2.5' frame made of 14 gauge steel pipe sunmica top complete with paint and polish

Item No. 4

Revolving Chair with arm

Steel armed revolving chair cane seat and back duly castor wheel fitted with pipe base duly polished, fourteen gauge steel pipe and complete in all respect. Hydraulic height adjustment.

PART-F

Item No. 1

Linen Washing Machine

- Control Type: Fully Automatic, Programmable
- Load Type: Front Loading
- Washing Capacity: 8 kg
- Digital Display
- Dryer (optional)
- Washing Method: Tumble Wash
- Maximum Spin Speed 1400 rpm.

Item No. 2

Refrigerator

1. Capacity -250 Litre
2. Star Rating -3
3. Exterior Finish
4. Display
5. Compressor
6. Smart Diagnosis
7. Door Alarm
8. Digital Sensors
9. Fast Freeze
10. Child Lock
11. Cooling
12. Refrigerant
13. Bioshield
14. Lamp
15. Humidity Controller
16. Deodorizer
17. Fresh 0 Zone
18. Hygiene Fresh Plus
19. Icemaker
20. Lamp

PART-G

Item No. 1

Computer System with Printer & UPS

Desktop 24" Monitor , 5th Gen 2GB/500GB/DVD-RW/Preloaded Win-8,with color printer.
UPS – 600 VA

Superintendent
G.M & A.H, K.G.M.U.,
Lucknow

Chief Medical Superintendent
G.M & A.H, K.G.M.U.,
Lucknow