

**Tender
For
Open Heart Surgery Equipments
At
Jawaharlal Nehru Medical College Hospital
AMU, Aligarh.**

NIT Issue Date	: 7th March, 2019
NIT No.	: JNMC Cath lab.(P)/Tender/16/2019-20
Last Date of Submission	: 21st March, 2020 at 03:00 PM
Bid opening	: 24th March, 2020
Opening Date of Financial Bid	: 25th March, 2020
(Only for Qualified Bidders)	

Tender documents may be downloaded from university web site www.amu.ac.in



Aligarh Muslim University Aligarh
Office of the Medical Superintendent
JN Medical College Hospital
AMU Aligarh 202002
email: pedcardiology.jnmc@gmail.com

Jawaharlal Nehru Medical College AMU Aligarh invites **bids in two bid system** for tenders for supply & installation of the **Open Heart surgery equipments** at the institute. You are requested to quote your best offer along with the complete details specifications, terms & conditions.

Instructions:

1. Tender Cost:

Applicant contractor must submit the demand draft for Rs 1,000/- (Rupees One thousand only) in favour of Finance Officer AMU Aligarh obtained from any Nationalized/ scheduled Bank as a tender fees. All applicable bank charges shall be borne by the applicant and he shall not have any claim what so ever on this account on Government. The Demand Draft submitted for tender fee shall be non- refundable. **The demand drafts for tender fees must be delivered to JN Medical College Aligarh along with tender quotation on or before last date/time of Bid Submission.**

2. Submission of Tender:

The tender shall be submitted in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

i) Technical Bid

The following documents are to be furnished by the Contractor along with **Technical Bid** as per the tender document:

- i) Signed and scanned copy of appropriate value of valid registration certificate (if any), experience certificate as per the tender notice, PAN, GST registration certificate and Tender Acceptance Letter.
- ii) Signed and Scanned copy of documents like Tender Cost (Tender Fees/ Earnest Money Deposit)
- iii) Signed and Scanned Copy of Make and model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.
- iv. Copy of valid registration certificate of central purchase organisation /central purchase office AMU Aligarh.

Terms & Conditions:

- 1. Validity:** The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.
- 2.** In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

3. Delivery and Installation:

I. For goods supplied from India:

All the goods ordered shall be delivered and Installed at JN Medical College Aligarh, within **45 days** from the date of issue of supply order.

II. For goods imported directly from abroad:

All the goods ordered shall be delivered and Installed at JN Medical College Aligarh, within **90 days** from the date of opening of letter of credit for shipment.

All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, then a penalty at the rate of 0.5% per week of the total order value shall be levied subject to maximum of 10% of the total order value. The successful tenderer will also provide required training for supplied items at JN Medical College Aligarh. The goods should be manufactured after adoption of latest technology.

If at any time during the currency of the contract, the supplier encounters conditions hindering timely of the goods and performance of services, the supplier shall promptly inform the JN Medical College Aligarh, for extension of the delivery schedule accordingly. On receiving the supplier's communication, the JN Medical College Aligarh, shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

- 4. Signing the Contract:** - The successful bidder shall be required to execute the Contract Agreement accepting all terms and conditions stipulated herein on a non-judicial stamp paper of Rs. 500/- (Rs. Five Hundred only) along with performance security within fifteen days of the issue of the Letter of notification of award. In the event of failure on the part of the successful bidder to sign the Contract within the period stipulated above, the EMD shall be forfeited and the acceptance of BID shall be considered as cancelled.
- 5. Performance Security:** As a guarantee towards due performance and compliance of the contract work, the successful bidder (contractor) will deposit an amount equal to 10% of order value and should be kept valid for a period of 60 day beyond completion of all the contractual obligation, including CMC period towards security deposit by way of demand draft/ bank Guarantee in favour of "Finance officer AMU Aligarh" drawn on any Nationalized Bank/Scheduled Bank and payable at Aligarh within fifteen days of the issue of the Letter of notification of award along with non-judicial stamp paper of Rs. 500/- (Contract agreement).
- 6. Incidental Services:** The supplier shall be required to perform the following services:-
- a. Installation & Commissioning, Supervision and Demonstration of the goods.
 - b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
 - c. On Site Training to Doctors/ Technicians/ Staff is to be provided by Supplier for operation and maintenance of the equipment for a period of 30 working days after successful installation of the machine, as per direction of user department.
 - d. Supplying required number of operation & maintenance manual for the goods.
 - e. To provide non-locked open software and standard interface inter-operability conditions for networked equipment's in hospital management information system, wherever applicable.
- 7. Accessories & Consumables:** The separate price list of all accessories and consumables, if any, must be attached/ enclosed along with the Financial Bid.

8. After Sales Service: After sales service centre should be available on 24 (hrs.) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 24 hrs to ensure an uptime of minimum 95%, wherever applicable, failing which the necessary penalty measures shall be enforced.

9. Inspection:

- a. JN Medical College Aligarh shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the Purchaser.
- b. JN Medical College Aligarh has the right to inspect, test and, where necessary, reject the Goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by JN Medical College Aligarh, prior to the goods shipment.
- c. Medical superintendent, JN Medical College Aligarh, shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.
- d. No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

10. Documents:

- a. All **pages of the Tender should be numbered and indexed.**
- b. The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully confirm to the goods and services specified by the purchaser in the tender documents. For this purpose the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the tender documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.
- c. The bidder shall provide a list of major Government and Private Institutions where its relevant bid item has been supplied during last one year.

11. Manufacturer Authorisation: The bidder (if not original equipment manufacturer must submit Original Equipment Manufacturer authorization certificate that the tenderer is authorized for selling and maintain the equipment quoted for. Performa attached at **Annexure- III.**

12. The bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (Government/ Private).

13. The successful bidder will be required to submit order copies of the supply of the equipment in Government institutions in last 12 month for rate reasonability purpose.

14. Insurance: - The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. If the equipment's is not commissioned and handed over to JN Medical College Aligarh, within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the JN Medical College Aligarh.

15. Tender Currencies:

- a. The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees. Further, imported goods to be imported and supplied by the bidder are also required to be quoted in Indian Rupees.
- b. For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible

currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed /undertaken in India.

c. Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

16. Tender Prices: While filling up the columns of the Financial Bid, the following aspects should be noted for compliance:

For domestic goods or goods of foreign origin located within India, the prices in the corresponding Financial Bid shall be entered separately in the following manner:

- a. The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST/ GST, CENGST, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc.;
- b. Any sales tax or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c. Charges towards Packing & Forwarding, Inland Transportation, Insurance, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Financial Bid;
- d. The price of Incidental Services, as mentioned in List of Requirements and Financial Bid;
- e. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- f. The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Financial Bid.

For goods offered from abroad, the prices in the corresponding Financial Bid shall be entered separately in the following manner:

- a. The price of goods quoted FOB port of shipment, as indicated in the List of Requirements and Financial Bid;
- b. The price of goods quoted CIF port of entry in India as indicated in the list of Requirements and Financial Bid;
- c. The price of goods quoted for delivery at JN Medical College Aligarh, as indicated in the list of Requirements Financial Bid and Consignee List;
- d. Wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported;
- e. The charges for Loading/Unloading, Inland transportation, Insurance and other local costs, Incidental cost to delivery of the goods from the port of entry in India to JN Medical College Aligarh, as specified in the List of Requirement and Financial Bid;
- f. The charges for Incidental Services, as in the List of Requirement and Financial Bid;
- g. The prices of Turkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- h. The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Financial Bid.

Additional information and instruction on Duties and Taxes: If the Bidder desires to ask for excise duty, sales tax/CST / GST/ CENGST, Custom Duty, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

Excise Duty:

- a. If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no

- claim on account of excise duty will be entertained after the opening of tenders.
- b. If a Bidder chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the Bidder must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
 - c. Subject to sub clauses (i) & (ii) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

Sales Tax: - If a bidder asks for sales tax/CST / GST/CENGST, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The CST / GST/CENGST, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax/ CST / GST/CENGST, Service Tax and Works Contract Tax and is payable as per the terms of the contract.

Octroi Duty and Local Duties & Taxes:- Normally, goods to be supplied to Government departments against Government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned Government department. Keeping this in view, the supplier shall ensure that the goods to be supplied by the supplier against the contract placed by the JN Medical College Aligarh, are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the JN Medical College Aligarh. However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the JN Medical College Aligarh, to enable the JN Medical College Aligarh, reimburse the supplier and take other necessary action in the matter.

Customs Duty: In respect of imported goods offered from abroad, the bidder shall specify the rate as well as the total amount of customs duty payable with Custom Duty Exemption Certificate, if applicable, on the quoted goods in the Financial Bid. The bidder shall also indicate the corresponding Indian Customs Tariff Number applicable for the goods.

- a. For transportation of imported goods offered from abroad, relevant instructions as incorporated shall be followed.
- b. For insurance of goods to be supplied, relevant instructions as provided shall be followed.
- c. Unless otherwise specifically indicated in this NIT document, the terms FCA, FOB, FAS, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.
- d. The need for indication of all such price components by the bidders, as required in this clause is for the purpose of comparison of the tenders by the purchaser and will no way restrict the JN Medical College Aligarh, right to award the contract on the selected bidder on any of the terms offered.

17. Indian Agent:- If a foreign bidder has engaged an agent in India in connection with its bid, the foreign bidder, in addition to indicating Indian agent's commission, if any, shall also furnish the following information:

- a. The complete name and address of the Indian Agent and its Permanent Account Number as allotted by the Indian Income Tax authority.
- b. The details of the services to be rendered by the agent for the subject requirement.
- c. Details of Service outlets in India, nearest to the JN Medical College Aligarh, to render services during Warranty and CMC Period.

18. Firm Price

- a. Unless otherwise specified in the NIT, prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- b. However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated will apply.

19. Conversion of tender currencies to Indian Rupees: - In case the bid document permits the bidders to quote their prices in different currencies, all such quoted prices of the responsive bidders will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the closing exchange rates established by the Reserve Bank of India for similar transactions, as on the date of '**Last Date of Submission of Tender**'.

20. Payment Terms:

i) **Payment for goods supplied from India:**

100% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the inspection report.

ii) **Payment for Imported goods:**

For imported goods payment shall be made in the following manner:

- a. **On shipment:** 75% payment of the contract price shall be paid 60 days after presentation of shipping documents { goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country } and upon the submission of the following documents:
 - i. Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
 - ii. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
 - iii. Insurance Certificate;
 - iv. Certificate of origin by the chamber of commerce of the concerned country;
 - v. Certificate of country of origin;
 - vi. Manufacturer's / Supplier's warranty certificate;
 - vii. Manufacturer's own factory inspection report.
- b) **On Acceptance:** 25 % payment would be made after satisfactory installation & commissioning on issuance of Inspection certificate by the JN Medical College Aligarh.

Note:-The supplier shall not claim any interest or any other payment under the contract.

21. Custom Clearance: For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concessional rate of duty as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. Transportation of goods up to JN Medical College Aligarh, and its successful installation and commissioning is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier. **NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC.**

22. Guarantee / Warrantee Period: The Tenderers must quote for **05 years** comprehensive warranty (Including all Spares, Accessories and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent **05 years** Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be

taking into account on basic price and post warranty CMC.

- 23. Uptime guarantee:** The firm should provide uptime guarantee of 95%
- 24. Downtime penalty Clause**
- a. During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handling over the unit to the Institute. If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.
 - b. The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.
- 25. Arbitration:** If any difference arises concerning this agreement, its interpretation on payment to the made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision to the sole arbitrator i.e. Vice-Chancellor AMU Aligarh, or his nominee. The decision of the sole arbitrator shall be binding on parties. The venue of arbitrator will be at Aligarh.
- 26. Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of JN Medical College Aligarh, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.
- 27. Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to cancel the work order/ job without assigning any reason thereof and nothing will be payable by JN Medical College Aligarh, in that event the security deposit shall also stands forfeited.
- 28. Insolvency etc:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified JN Medical College Aligarh, shall have the power to terminate the contract without any prior notice.
- 29. Force Majeure:** If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party shall be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries have been so resumed or not shall be final and conclusive.
- Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at least option to terminate the contract.
- 30.** Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.

31. The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.
32. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
33. After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer
34. Conditional bid will be treated as unresponsive and it may be rejected.
35. **Demonstration:** - JN Medical College Aligarh, reserves the right to ask the tenderers for arranging demonstration of their equipment for which rates have been quoted, to the concerned committee, if required.
36. The Institute reserves the right to accept in part or in full or reject any or more tender(s) without assigning any reasons or cancel the tendering process and reject all tender(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
37. **Applicable Law:**
 - The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
 - Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Aligarh Uttar Pradesh, India only.
 - The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Aligarh. The decision of the Arbitrator shall be final and binding on both the parties.
 - Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

**Medical superintendent
JN Medical College Hospital
A.M.U. Aligarh**

Annexure-I

S. No.	Name of equipment	Specifications	Quantity
1.	Oscillating saw	<p>Hand piece</p> <ul style="list-style-type: none">• Hand held Battery operated• 2 speed control modes(standard and fast) with Safe mode option on hand piece• Light weight pistol grip• Oscillating saw should be mountable on hand piece• Autoclavable• Microprocessor controlled hand piece, can be calibrated for consistent performance• Can be fitted with aseptic battery kit• Tool less mounting of accessories <p>Battery charger</p> <ul style="list-style-type: none">• 220-240V charger and should have the feature to count the charging cycles for a particular battery• Should have capability to identify worn out battery• Should have capability to charge 4 batteries at a time with no module requirement• Should have an indicator to provide battery status for charging <p>Battery</p> <ul style="list-style-type: none">• Ni-Mh and Ni-Cd with low internal impedance to deliver higher current than other battery types• Ni-Mh and Ni-Cd cells with capacity to produce more torque and non autoclavable and autoclavable options with average life of approximately 200 charging cycles• Should have a minimum run time of 15 minutes• Should be autoclavable <p>Accessories and sterilization case</p> <ul style="list-style-type: none">• Sternal blade guard• Should accommodate all hand piece attachments and accessories for autoclave	1

2.	Sternal saw	<p>Hand piece</p> <ul style="list-style-type: none"> • Hand held Battery operated • 2 speed control modes(standard and fast) with Safe mode option on hand piece • Light weight pistol grip • Oscillating saw should be mountable on hand piece • Autoclavable • Microprocessor controlled hand piece, can be calibrated for consistent performance • Can be fitted with aseptic battery kit • Tool less mounting of accessories <p>Battery charger</p> <ul style="list-style-type: none"> • 220-240V charger and should have the feature to count the charging cycles for a particular battery • Should have capability to identify worn out battery • Should have capability to charge 4 batteries at a time with no module requirement • Should have an indicator to provide battery status for charging <p>Battery</p> <ul style="list-style-type: none"> • Ni-Mh and Ni-Cd with low internal impedance to deliver higher current than other battery types • Ni-Mh and Ni-Cd cells with capacity to produce more torque and non autoclavable and autoclavable options with average life of approximately 200 charging cycles • Should have a minimum run time of 15 minutes • Should be autoclavable <p>Accessories and sterilization case</p> <ul style="list-style-type: none"> • Sternal blade guard <p>Should accommodate all hand piece attachments and accessories for autoclave</p>	1
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3.	Dual chamber External pacemaker	<ul style="list-style-type: none"> • It should have following modes DDD, DOO, DDI, AAI, AOO, VVI, VOO • Capable of Pacing Rates 30 – 200 ppm • Upper Rate 80 – 230 ppm • Rapid Atrial Pacing Rates 80 – 800 ppm • Output Amplitude Atrial: 0.1 – 20 mA Ventricular: 0.1 – 25 mA • Pulse Width Atrial: 1.0 ms Ventricular: 1.5 ms • Sensitivity Atrial: 0.4 – 10 mV Ventricular: 0.8 – 20 mV • A-V Interval Paced A-V (PAV): 50 – 250 Auto 20 – 300 Manual Sensed A-V (SAV): 50 – 250 • Refractory Period Atrial: 150 – 500 ms (PVARP) Atrial Refractory after an Atrial event is equal to the AV interval Ventricular: NA • Ventricular Blanking Pace: 200 ms Sense: 120 ms • Weight < 700gm • Battery Type Two IEC type LR6-sized (AA-sized) 1.5 V alkaline batteries (Duracell MN1500, Eveready E91 or equivalent) • Battery Life 9 days typical, 7 days minimum. 	1
4.	Single chamber External pacemaker	<ul style="list-style-type: none"> • It should have following modes AAI, AOO, VVI, VOO • Capable of Pacing Rates 30 – 200 ppm • Rapid Atrial Pacing Rates 80 – 800 ppm • Output Amplitude 0.1 – 25 mA • Pulse Width 1.5 ms • Sensitivity 0.4 – 20 mV • Blanking 200 ms +5/-30 ms — after pace 120 ms +2/-30 ms — after sense • Weight < 500gm • Battery Type Two IEC type LR6-sized (AA-sized) 1.5 V alkaline batteries (Duracell MN1500, Eveready E91 or equivalent) • Battery Life Up to 19 days1 • Electrode Type Unipolar or bipolar 	3

5.	Autoclave Rapid Sterilizer	<ul style="list-style-type: none"> • Removable stainless steel cassette, when inserted into the insulated steel receptacle, forms the sterilization chamber. • Should be utilizing a pressure pulse method of dynamic air removal and also designed with a much smaller sterilization chamber that allows for a faster turnaround time for smaller loads. • Should have ultrafast 9 minute unwrapped cycle and 17.5 minute wrapped cycle. • Should be single use water, exceptional instrument turnover, aseptic transfer of instruments directly to the point of use and reduced instrument investment. • Should have 15 minute Dri-Tec drying technology. • Should have internal volume of at least 15 litres. 	1
6.	CR System	<ul style="list-style-type: none"> • System Must achieve minimum 45 Plates/ hour or more for the cassette size 35x43 • System must be approved by FDA for general radiology application. • System must be CE marked • System must be desktop / floor stand solution • System must be single plate scanning CR solution • System should be able to upgrade the cassette speed in future • Monitor can be any ones available as STD ,LCD or touch screen • Monitor resolution must be at least 1280x1024 • Imaging plates must be flexible type • System must offer the capability to read plates 35x35 and 35x43cm with pixel pitch smaller than 100 micron (,12pix/rnm) • Grey scale resolution for image acquisition before processing must be 16 bit. • Grey Scale resolution for post processed images must be at least 12 bit • Cassette at imaging plates must be available in various size • System is capable for reading for QR codes to acquire patient ID • System allows to associate patient ID with cassette through a bar code reader of RF Device • Image processing algorithms are based on multi frequency processing type • Software automatically masks the area outside the collimation edges for the better productivity • Manual adjustment of the masked area should be possible • System Must Be capable to connect to PACS through 	1

DICOM store

- System Must be capable to print dry laser printer through DICOM print
- System must be able to acquire work list form existing HIS/RIS
- System must be able to boring patient image on CD/DVD
- System must be able to remove grid lines 1031pi static grid
- System must be capable of running a QA/QC test to verify performance
- Statistical report must be generated to track repeat exam, dose etc.
- Image can be freely Rotated
- System is fully compliant with storage commitment requirement
- Capability to customize the procedure and create customized views.
- System must be capable importing images into the database form various media type such USB sticks, CD rooms etc.
- System must be allowed to create annotations or images
- System must make available advance measurement tools such as length, angle, cob angle, cardio thoracic area etc.
- Cine Loop future must be made available to review images from modalities such as US,CT,MR
- Patient list can be created either from the work station or from a web client remotely connected
- System can offer optional feature of a specific module to generate reports and store them on the same data base along with images
- System should have optional feature or report can be created either form the main workstation or from any web client remotely connected
- System must offer the capability to accure image from modalities as CT, MR, US, ETC, review then an store them
- The system doesn't give any limitation as far as the number of modalities that can receive images from
- System create a vendor neutral exposure index for each image
- System should offer a broad selection of formatted pages while printing including asymmetric templates
- Image and reports can be distributed across web client

		<p>connected to the main workstation</p> <ul style="list-style-type: none"> • Minimum number of concurrent web clients supported should be 4 maximum of 8 or more • System support data steaming capability web clients to enhance the. • System offer the capability , to crop images, zoom and print • System has the capability to connect to existing RIS/HIS system and communicate through HL 7 protocol • System encrypts images for transmission to remote work station to avoid the use of VPN • System should have optional facility to view image on an iPad without additional s/w • System allowed to add patient picture to demographic screen • Printer must be laser technology • Printer should have multi loaded film size on Single tray online. • Each tray or draw of the printer must be able to print the following international standard films sizes 8x10, 10x12, 11x14, and 14x17 without mechanically alteration • Printing resolution must be 325dpi/ppi or more standard for all types of DICOM images printing Printer must use day light film box loading technology. 	
7.	Mobile X-Ray Machine	<ul style="list-style-type: none"> • Maximum Output should be 6 (KW) • kV Range should Be 40-125 • mA maximum should be 150 • X- Ray Tube Should Be Rotating anode Dual Focus • Control Panel should be Feather touch (Micro Controller Based) • APR facility should be available • Collimator Should Be Manually/ Motorized Light Beam Diaphragm(LBD) • Power required should be 200/220/240 VAC with 15Amps power socket • Tube Stand Should Be Counter Balance & Spring Balance Mobile • Battery / Capacitor bank should be optional 	1
8.	High end Advance ICU Ventilator	<p>1. Advanced Multi-Microprocessor Controlled Ventilator with integrated facility for Ventilation & Monitoring suitable for infant to Adult category patient. Tidal volume setting should be based on Ideal body weight calculation for safety, from the user</p>	1

input of Height, Weight and Patient type. It Should be a latest introduced model with upgradability option.

2. Display should be of 15" inch LCD /TFT inbuilt Colour touch screen, preferably, navigate with a Swipe between Past, Present & Future information (additional Separate / Multiple display will not be acceptable).
3. Should display 4-waveform & 2-loop simultaneously on screen. Preferably should have present configured screen layouts for different end users.
4. Should be suitable for continuous use in ICU for therapeutic application on hospital Oxygen supply & Medical Air Compressor (not on inbuilt Turbine /blower). Ventilator should continue to run on one of the two gases.
5. Ventilator should be Cart mounted & mobile on four. it should be shipped along with ventilator from same port as ventilator.
6. The Ventilator should supply with reusable, electrically operated, independent of Flow, Aeroneb Pro nebulizer. It should follow Vibrating Mesh technology to produce < 4-micron uniform particle size to save drug wastage
7. The Ventilator should supply with Heated Humidifier with adult reusable chamber
8. The ventilator should supply with a permanent / non consumable O2 sensor for Fio2 Monitoring. in case consumables / electrochemical O2 Sensors are being offered by a vendor, then same should be provided free of charge at least for 10 yrs
9. Should have heated covered Expiratory valve/cassette to minimize condensation.
10. Power input to be 220-240VAC, 50Hz
11. Should have inbuilt battery backup at least 80 min for ventilator.
12. Should have Numerical & Graphical Trend data of Set & Exhale Parameters for 72 hrs.
13. Should provide ET-tube Resistance & leak compensation.
14. Should have following Modes of Ventilation.
 - a. A/C Volume and Pressure Controlled modes
 - b. SIMV (Pressure controlled and volume controlled) with pressure support
 - c. Spontaneous modes like CPAP / PEEP with PSV
 - d. Bilevel / BiPAP with PSV
 - e. Advanced mode like pressure controlled volume

guaranteed/dual modes /PRVC/Auto flow/
 ASV/Smartcare/NAVA/ PAV any one of these.

- f. Airway Pressure Release ventilation
- g. Volume Support
- h. Non-invasive ventilation for Adult/Pediatric & nasal CPAP for Neonatal Patient
- i. Spontaneous Breath Trial Mode
- j. Apena backup mode

15. Should have following Setting parameters

- a. Tidal Volume: Minimum 20ml and maximum of 2000 ml or more in Volume control
- b. PEEP up to 50 cmH₂O or more.
- c. Pressure support up to 60 cmH₂O. Flow Pattern: Square, Decelerating
- e. Respiratory Rate up to 150 bpm with >200LPM or more peak Flow
- f. Inspiratory Plateau up to 60% of Inspiratory time
- g. SIMV Rate up to 60 cycles/min, I:E - 1:9-4:1.
- h. Inspiratory time - 0.1-10 sec
- i. FIO₂: 21% - 100%
- j. Should have both Flow and Pressure Trigger. Flow Trigger should be with PEEP ON i.e. anything > 3 cm of H₂O of PEEP.
- k. Manual Cycle, Inspiratory Pause, Expiratory Pause, 100% O₂ for pre & post suction with automatic standby during suction.

16. Should have following Monitoring

- a. Tidal Volume & Spont Tidal Volume
- b. Minute Volume & Spont Minute Volume
- c. Leakage Percentage
- d. Plateau Pressure
- e. Mean Airway Pressure
- f. Peak Airway Pressure
- g. Spontaneous Rate
- h. RSBI (Rapid Shallow Breathing Index)
- i. Integrated Etco₂ monitoring on ventilator screen by side / main stream technique. It should be from the same make as ventilator.
- j. Pressure / Volume loops with at least six saving option for comparison
- k. Flow/ volume loops
- l. Aux Pressure
- m. Fio₂

17. Should have Following Measurements

- a. Intrinsic PEEP with PEEPi Volume (trapped Volume)
- b. Dynamic & Static Resistance and Compliance.
- c. P_{0,1}

- d. NIF
- e. Vital Capacity
- 18. Audio-visual alarms
 - a. Peak inspiratory pressure – High & Low
 - b. FiO₂ – high & low
 - c. Respiratory rate – high & low
 - d. Tidal volume – high & low
 - e. Minute volume – high & low
 - f. Apnea
 - g. Gas supply failure
- 19. Advanced Features
 - a. Should have the facility for measuring the ETCO₂(Optional)
 - b. Should have a facility to measure the proximal pressure close to the lung²⁰. The following should be provided with each ventilator
 - a. Reusable Adult and Pediatric nonproprietary breathing circuit - 1 each
 - b. Reusable Expiratory valve/cassette - 2 no
 - c. Reusable Exhale Flow sensor - 4 no
 - d. Patient Circuit holding Arm & Ventilator CART- 1 each
 - e. High Pressure Color coded separate hose for O₂ & Air
 - f. Filters for O₂ & Air High Pressure Line - 1 each
 - g. Adult Test Lung - 1 no
 - h. Multiuse NIV Mask with 3 Sizes (L/M/S) - 1 no
 - i. Heated Humidifier
 - j. Adult Chamber for Humidifier
 - k. Pead Chamber for Humidifier
 - l. Adult Disposable Ckt 50
 - m. Medical Air Compressor
- 21. Ventilator, Compressor and all major components should be from the same manufacturer / Brand/principal.
- 22. Entire equipment including major components shall be European CE and US FDA 510k certified
- 23. The manufacturer should be ISO 13485 and ISO 9001 certified, certificate to be attached as part of the technical bid.
- 24. In case of imported equipment quoted, the local service provider should be ISO 13485 and ISO 9001 certified, certificate to be attached as part of the technical bid.

9.	Continuous Renal Replacement Therapy (CRRT) Equipment	<p>1 Description of Function</p> <p>1.1 Continuous Renal Replacement Therapy (CRRT) Machine provides at least 24-hour continuous (nonstop) dialysis therapy used to support patients with kidney failure</p> <p>2. Operational Requirements</p> <p>2.1 Easy to handle and maintain.</p> <p>2.2 Microprocessor/microcontroller controlled user interactive menu with operating and malfunction removal instructions on display screen</p> <p>2.3 Should be user friendly.</p> <p>3 Technical Specifications</p> <p>3.1 Should have Four pumps, one each for Blood, Dialysate, Replacement fluid and Effluent/filtrate.</p> <p>3.2 Should be able to perform SCUF, CVVH, CVVHD, CVVHDF, CAVHD, CAVH, CAVHDF</p> <p>3.3 Should have touch screen/Touch pad TFT Monitor.</p> <p>3.4 Should have blood pump speed of appr. 10-450 ml/min.</p> <p>3.5 Should have closed blood circuit to prevent air to blood interface.</p> <p>3.6 Should have short preparation and priming program and should be ready to start treatment within 10-20 minutes.</p> <p>3.7 Should have arterial pressure range: (-) 250 mmHg +/- 50 mmHg.</p> <p>3.8 Should have Venous pressure range: (+) 350 mmHg +/- 50 mmHg.</p> <p>3.9 Should have Pre Filter Pressure: 50mmHg to -500 mmHg</p> <p>3.10 Should have Effluent Pressure: 350 mmHg +/- 50 mmHg</p> <p>3.11 Should have Programmable Substitution solution flow rate: 100-8000 mL/Hr</p> <p>3.12 Should have Dialysate Flow rate: 100-2500 mL/Hr.</p> <p>3.13 Should have Effluent Flow Rate: 60-2000 mL/Hr</p> <p>3.14 Should have Integrated heparin pump with flow rate of 0.5 ml-5 mL/Hr. Should have bolus facility range 0.5mL-5mL.</p> <p>3.15 Should have Capability of changing therapies.</p> <p>3.16 Should have three weighing scales to control the system with balancing accuracy of less than 1 % of total turnover in normal conditions and weighing capacity of at least 0-12 kg.</p> <p>3.17 Should have integrated Fluid/Blood warmer for blood/dialysate warming temp range app 33- 38 deg C(+/- 0.5 deg C)</p>	1
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			<p>3.18 Should have Ultrasonic air bubble detector and Blood leak Detector.</p> <p>3.19 Should have Alarm in case of blood leak, air in line, pressure limit violation, empty dialysate/ replacement bag, full effluent bag and advisory alarms in case of excessive TMP and filter clotting.</p> <p>3.20 Should have a 10 min Battery back up for blood pump</p> <p>3.21 Should have an RS 232 Port for Data transfer and interface. 4 System Configuration Accessories, spares and consumables 4 System Configuration, Accessories, Spares and Consumable.</p> <p>4.1 System as specified</p> <p>4.2 The system should be compatible with Heamodialysis/ Haemofiltartion tubings</p> <p>4.3 Should be supplied with 10 Nos. of essential accessories such as blood line set, haemofilters and ultra filtrate bags at no extra cost.</p> <p>4.4 All media and consumables for setting up and standardization should be provided free of cost in addition to the items supplied in 4.3. Company should provide free on site training on operation and maintenance of equipment.</p> <p>5 Standards</p> <p>5.1 Should have the ISO certification and the copy of the same should be enclosed along with the technical bid.</p> <p>5.2 The unit should have BIS or US FDA or European CE with four digit notified body number certificate for the quoted model and certificate to be submitted.</p> <p>BOQ</p> <p>5.3 The company should separately quote price for.</p> <p>2 Blood line set 20 Nos</p> <p>3 Haemofilters 20 Nos (15 Pediatrics & 15 Adult)</p> <p>4 Ultra filtrate bags 20 Nos</p>	
10.	Sterna Applicator Accessories	Band with	Sternal Closure band WITH NEEDLE PEEK pack of 5 Applicator for STERNAL CLOSURE band	50 Packet 1

**Medical Superintendent
JN Medical College Hospital
A.M.U. Aligarh**

Annexure-II

TECHNICAL BID

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Phone No:- Mobile No:- Email Id:-	
Name and address of service centre nearby JN Medical College Aligarh,	
Whether the firm is a registered firm Yes/No (attached copy of certificate).	
PAN No. (enclose the attested copy of PAN Card).	
Service Tax No. (enclose the attested copy of Service Tax Certificate).	
GST No. (enclose the attested copy of GST Certificate).	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque of Earnest Money Deposit.	
Whether the Firm/Agency has signed each and every page of Tender/NIT.	
Please provide full list of consumables.	

Any other information, if necessary.	
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Authorized signatory of the bidder with seal.

Annexure-III

MANUFACTURER'S / PRINCIPAL'S AUTHORIZATION FORM

To

Medical superintendent
JN Medical College Hospital
A.M.U. Aligarh
Sir,

TENDER: _____.

we, _____, who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (name and address of agents) to bid, negotiate and conclude the contract with you against Tender

No. _____ for the above goods manufactured by us. No company or firm or individual other than Messrs. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

We hereby extend our full guarantee and warranty as per the conditions of tender for the goods offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name)

For and on behalf of Messrs. _____
(Name of manufacturers)/Principal.

Annexure-IV
Financial Bid

A) FINANCIAL BID FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA OR GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES

1	2	3	4	5						6	
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at JN Medical College Aligarh) basis (Rs.) = {4 x 5(g)}
				Ex - factory/ Ex-warehouse/Ex-showroom /Off-the shelf (a)	Excise Duty(if any) [%age & value] (b)	Sales Tax/ GST (if any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation, Insurance, loading/unloading and Incidental costs - JN Medical College Aligarh, (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at JN Medical College Aligarh, (f)	Unit Price (at JN Medical College Aligarh, basis (g)= (a+b+c+d+e+f)	

Total Tender price in Rupees: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately.
3. The Bidder must quote price for "GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES" after having taken in to account, the provision of Custom Duty Exemption Certificate (CDEC) by the Purchaser, as per Customs Tariff Act.

Place:
Date:

Name:
Business Address:
Signature of Bidder:
Seal of the Bidder:

Financial Bid
B) FINANCIAL BID FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5				6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)				Total price on Destination + Insurance (local transportation and storage) = {4X 5 (d)}
				FOB price at port/ airport of Lading (a)	Carriage & Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at JN Medical College Aligarh** (c)	Unit Price on DDP JN Medical College Aligarh, + Extended Insurance (local transportation and storage) (d) = a+b+c	

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted.
3. The Bidder will be fully responsible for the safe arrival of the goods JN Medical College Aligarh, in good condition as per terms of DDP as per INCOTERMS, if applicable.

Indian Agent:

Indian Agency Commission - ____% of FOB

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

Financial Bid

C) FINANCIAL BID FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD:

1. S.No.	2. DESCRIPTION OF GOODS	3. QUANTITY. (Nos.)	4. Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					5. Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			a	b	c	d	e	

* After completion of Warranty period.

Service Tax: Whether extra or inclusive, if extra, indicates the rate_____.

NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted as per NIT conditions on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. All software updates should be provided free of cost during CMC period.
6. The stipulations in Technical Specification will supersede above provisions
7. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Date:

Place:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder: