

BIDDING DOCUMENT

TENDER NOTICE No.: 17 / 2017- 2018 / Biomedical Equipt./ IGIMS / Store



Supply, Installation & Commissioning of Bio-Medical Equipments / Instruments

TENDER NOTICE No 17/2017 – 2018/ Biomedical Equiptt. / IGIMS / Store

Issued to:

Cost of Document: Rs.

Paid By: Cash: Receipt No.:

Demand Draft: No.:

Issuing Bank:

(Authorized Signatory)

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES,

SHEIKHPURA, PATNA - 800014.

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IMPORTANT DATES

Last date for Purchase of Bidding Document	Can be downloaded from Institute website
Last date for submission of Technical bid.(Hard copy)	3/3/2018 up to 11.00 A.M. by registered/speed post/ Courier only
Date of opening of technical bid	5/3/2018 at 3:00 P.M. in conference hall IGIMS, Patna.
Date of demonstration of equipment	To be informed to the qualified bidders qualifying after opening of technical bids.

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES,
SHEIKHPURA, PATNA -800014 (Bihar, India)

SI. No. OF TENDER: _____

FILE NO. : Tender No.: _____

Tender form issued in favour of:

Dear Sir,

1. I/We hereby submit our tender for the

2. I/WE are enclosing herewith the Demand Draft No..... dated..... for Rs. /- drawn in favour of **Director I.G.I.M.S. - Patna (payable at Patna)** towards **EMD / Bid Security**.

(EMD AND COST OF BIDDING DOCUMENTS MUST BE SUBMITTED IN SEPRATE ENVELOP.TENDERS NOT ACCOMPANIED WITH EMD / BIDSECURITY ALONGWITH THE TECHNO-COMMERCIAL BID SHALL BE SUMMARILY REJECTED).

3. I/We have gone through all terms and conditions of the tender documents before submitting the same.

4. I/We hereby agree to all the terms and conditions, stipulated by the I.G.I.M.S. - Patna including delivery, warranty, penalty etc. Quotations for each group are being submitted under separate covers, and sheets and shall be considered on their face value.

5. I/We have noted that overwritten entries shall be deleted unless duly cut & rewritten and Initialled.

6. Tenders are duly signed and stamped.(No thumb impression should be affixed)

7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my EMD/Bid deposited may be forfeited and our/my name may be removed from the list of suppliers

Yours faithfully,

(Signature of Bidder with full name and address)

CHECK LIST FOR TERMS AND CONDITIONS

A.: **To be filled by the bidder and submitted along with the Technical Bid.**

Sl. No.	Terms & Conditions as per Bidding Document	Page No.	Remarks
1.	Status of Bidder: <ul style="list-style-type: none"> • Manufacturer or Authorized Agent of the Manufacturer • Whether Public Undertaking, Public Ltd., Private Ltd. Company or Proprietary Firm/partnership firm • (Please attach Notary certified MANUFACTURER'S AUTHORISATION FORM as per FORMAT placed at Annexure – III)		
2.	Power of Attorney as per Annexure - V in favour of person to sign, submit and negotiate the bid.		
3.	Certificate towards market standing of minimum 05 years in the area of supply and or maintenance of bio-medical equipments.		
4.	Certificate for sole ownership / partnership		
5.	Statement of financial standing from bankers		
6.	Statements of turnover per year for last three successive years duly certified by the Chartered Accountants.		
7.	Notary certified User List (List of Govt. /Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.		
8.	Notary certified Supply order copy (Minimum 3nos. or more) issued by Govt./Semi Govt./Reputed Pvt. Institutions/organization for the quoted items. (same model)		
9.	Notary certified Performance certificate of the same supplied machine (of quoted make and Model) issued by Head of the deptt. or Institution after a minimum period of six months of installation		
10.	Prerequisite (if any) for installation of the Machine, if any, to be provided by the Institute.		
11.	Whether rates quoted are inclusive of all taxes or not.		
12.	Whether rates are quoted as per format mentioned in the Bidding Document or not.		
13.	Affidavit to the effect that the bidder is not blacklisted by any Govt. agency or have no		

	pending case either Civil or Criminal against them.		
14.	Affidavit, to the effect that the bidder is not supplying the quoted item(s) to any other Govt. / Pvt. Organizations / Institutions / Hospitals at the rate lower than the rate quoted against this tender.		
15.	Quality Assurance Certificate like ISI, ISO-9002, IP/BP, CE, FDA (US) or any other (please specify)		
16.	Bid Security amount deposited is enclosed or not. If yes, please mention the details.		
17.	Original Technical Catalogue of the quoted model		
18.	Certificate, to the effect that bidder will maintain the quoted item(s) during Warranty period of three years including all spares, accessories, consumables etc., (Please mention the name of the item / items with price, which are not supplied by the bidder free of cost with frequency of replacement)		
19.	Certificate, to the effect that bidder has quoted its rate for Comprehensive Annual Maintenance Contract inclusive of labour, spares, consumables, accessories etc. on per year basis for a further period of seven years after expiry of warranty period of three years in the price bid . (Please mention the name of the item / items with price, which are not supplied by the bidder free of cost with frequency of replacement during Comprehensive Annual Maintenance Contract period in the price bid)		
20.	Acceptance of all terms / conditions towards after sales / services as mentioned in the bidding document.(Clause No- 13 of “ Instruction to Bidder “ & clause no- 3, 4 and 5 of Condition of contract.)		
21.	Compliance Statement with relation to the technical specification as mentioned in the bidding document duly supported by the original catalogue. The bidder must quote specification in the compliance column Mere writing” Complied shall not be accepted.		
22.	Compliance Statement with relation to the terms & conditions as mentioned in the document.		
23.	PAN and copies of Income Tax Returns for the last three years.		

24.	Duly attested copy of sales tax/Vat registration certificate.		

B: To be filled by the Bidder and submitted along with Price Bid

Sl. No.	Terms & Conditions as per Bidding Document	Page No.	Remarks
1.	Item wise price for the item(s) as mentioned in the Bidding Document and as per format attached as Annexure – I(a) or I (b)		
2.	Rate for Comprehensive Annual Maintenance Contract as per terms & conditions mentioned in the Bidding Document and as per format attached as Annexure - II		

Note: If the above-tender details are not mentioned and required documents are not attached at appropriate places, the offer of the bidder(s) shall be summarily rejected. Hence, bidder(s) are advised to go through the bidding document carefully and tender be prepared with all the required documents to avoid rejection of offer.

(Name of the Bidder with signature & seal)

ELIGIBILITY CRITERIA

01	Manufacturers or their authorized dealers/Indian subsidiaries/direct importers having a place of business in any of the States of India are eligible to participate in this tender.	Mentioned Page no.
02	The bidder and manufacturer of the equipment offered should be in the business of the supply and installation of same / similar equipment for the last five calendar years.	
03	<p>(a) The manufacturer should have completed at least 05(Five) nos. installations of the quoted items in Govt. /Pvt. Institutions /Hospitals in India. The installations mentioned by the manufacturer in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.</p> <p>(b) The bids quoted as the authorized representative of the manufacturer meeting the above criteria 02 (a) should have also supplied and installed at least 03(Three) nos. installations of the quoted items in Govt. /Pvt. Institutions/ Hospitals in India in last five years from the last date of submission of tender. The installations mentioned by the authorized representative in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.</p>	
04	The Bidder should be public undertaking /Autonomous Body /Public Ltd./Pvt. Ltd. Company or proprietary firm /Partnership Firm and should be in medical equipment business since last five years in India. The Bidders having manufacturing facility in their name in India for the majority of the items offered by them shall be given preference.	
05	The Bidder (manufacturer or their authorized agent) should have had average annual financial turnover of Rs. 50 Lakh during the last three years ending s 31 st March 2017.	
06	Bidders who have the capability to attend repairs of these equipment within the time mentioned in this bidding document and who are willing to provide stand by equipment or replace the faulty equipment if the repair/down time extends beyond 72 hours from the time of reporting of the fault within the next 48 hours (total down time should not exceed 5 days in one instance). The bidders who have the capability to ensure the uptime mentioned in this document (Documentary proof shall be submitted on the after sales facilities and expertise of the bidder.)	
07	Bidders are not offering the equipment of a firm /company that has been blacklisted by Indira Gandhi Institute of Medical Sciences – Patna or blacklisted/debarred by any other State / Central Government's organization.	

Note:

- Notwithstanding anything stated above, the Institute reserves the right to assess the Bidder's capability and capacity to perform the contract satisfactorily before deciding on award of contract, should circumstances warrant such an assessment in the overall interest of the purchaser.
- The Institute reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser of technical acceptability as per the tender specification, before the opening of the price tender.

INSTRUCTION TO BIDDER

GENERAL INSTRUCTIONS TO BIDDERS

1. **Tendering System**

The tenders/Bids are to be submitted in two Parts i.e. **Part - I & Part II.**

PART - I titled as TECHNICAL BID shall contain the complete technical specifications and details on the competency of the bidder and also the commercial bid package with terms and conditions of supply, warranty, after sales service etc. (Except Price Bid Form). Apart from the documents and signed copy of the purchased tender document, the necessary enclosures should be submitted in this technical bid. In short, the technical bid should contain all the necessary documents to prove the technical competency and capability of the bidders for supplying and installing a trouble free equipment meeting the quality standards and technical specification and the ability of the bidders for providing efficient after sales service to the satisfaction of the Tender Inviting Authority and the user institution.

PART - II titled as PRICE BID shall be submitted in the E- tender mode only

2. The tender offers, duly filled, shall be submitted in sealed covers for **technical**. Such covers shall be super scribed as **"Tender No..... (here mention the tender no as specified) TECHNICAL BID for supply of (here mention the name of the equipment**

3. Quantity of items may increase or decrease. Director, I.G.I.M.S. - Patna reserves the rights to purchase different sub items/ components of items from different bidders.

This rate Contract will be valid for one FY and repeat Supply Order will be placed as per requirement of the deptt. of all the quoted and approved items.

4. The "Bidding Document" along with terms and conditions, technical specification can be obtained from the office of the Store Officer, IGIMS, Patna on payment of Rs. 2000/- (Rs. Two thousand only) Non –refundable for each Group either by cash or demand draft favouring Director , IGIMS, Patna payable at Patna.

5. The " Bidding Document" can also be downloaded from institute website [www.igims. Org..](http://www.igims.Org..) In case, downloaded bidding document is used ,Bidder(s) have to submit the cost of the Tender Document alongwith the completed documents in the form of demand draft in favour of Director , IGIMS, Patna, payable at patna towards cost of the " Tender documents" Bidder is required to attach seprate D D for the same in a seprate envelop super scribed with " cost of bidding document" if the cost of tender document is not submitted by the bidder, his offer shall be outright rejected .

6. Last date for purchase of bidding document is (As mentioned above).....

7. **Earnest Money Deposit (EMD):**

EMD cost of Equipment wise mentioned in the Tender Notice is required to be submitted along with tender by Demand Draft from any scheduled Indian Bank (valid up to one year from the date of technical bid opening.) only along with the tender favoring Director, I.G.I.M.S. – Patna (payable at Patna). No interest is payable on EMD/ Bid security.

b. Bidder may quote more than one/several models. In such a situation EMD will be payable on the basis of highest priced model.

- c. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of final bid validity and latest on or before the 30th day after the award of the contract without any interest.
 - d. EMD must be submitted in separate sealed envelope and endorsement of the same with DD number & date Bank Guarantee No. and its validity period be made with technical bids without amount stating that the same has been complied with price bid. If same is later found not enclosed tender will be cancelled for the party.
 - e. Non- submission of sufficient EMD along with the Technical Bid shall be one of the primary reasons for rejection of the offer in the first round.
 - f. Cheque, Cash payment, Money Order, Fixed deposit etc will not be accepted as EMD.
 - g. Public Sector Units within the State or State micro, small and medium enterprises registered with Govt. are exempted from remittance of EMD subject to submission of valid documents.
 - h. The EMD shall be in one of the following forms:
 - i. A demand draft in favour of Director, I.G.I.M.S. – Patna (payable at Patna);
 - OR
 - ii A Bank Guarantee issued by a nationalized/ scheduled bank located in India, in the form prescribed in the tender document as Annexure- IV (valid up to one year from the date of technical bids opening) Bank Guarantee in any other format will not be acceptable and render the bid non-responsive.
 - iii. The successful Bidder's EMD will be discharged upon the Bidders signing the contract and furnishing the performance security. The EMD deposited in the form of DD of the successful Bidder can be adjusted towards the security deposit payable.
9. Bidder(s) should mention the DGS & D registration, if registered, and attach photocopy of DGS &D registration certificate Photocopy of Income tax & sales tax clearance certificate should be enclosed.
10. For Imported Goods, Indian Agency Commission must be declared in financial bid.
11. The Bidder's shall have to submit the following documents (Certified by Notary) in technical bid: -
- a. User List (List of Govt. / Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.
 - b. Performance certificate of the same supplied machine (of quoted make and Model) issued by **Head of the deptt. or Institution** after a minimum period of six months of installation.
 - c. Prerequisite (if any) for installation of the Machine if any to be provided by the Institute.
 - d. If the manufacturing company and/or its Indian agent (for Foreign manufactured) have authorized some agency for participation in this tender for a limited period than in that case they (Manufacturer / Indian agent) shall have to submit an undertaking duly notarized by Public notary that if their tender is selected they shall be solely responsible for compliance of all the terms and conditions mentioned in the bilateral agreement for purchase and subsequent supply order even if their authorized agent

is changed. Any tender offer without such certificate duly certified by public notary shall be rejected in technical scrutiny itself.

- e. Bidder must submit a compliance checklist along with the technical bid itself.
- f. (Any tender offer without submission of above mentioned document (i.e. a to e) shall be rejected during technical scrutiny.)
- g. If any new System/ Latest model machine is a launched in the market and seller has not installed such quoted models they should submit an undertaking that he has not installed such models previously (Notarized by Public Notary). . They may submit supply order / performance certificate of previous model, which was recently installed by them.

12. Installation & site plan:-

Requirement regarding site/location etc for installation of equipment, if any, should be mentioned in the tender. Time required for installation of system after delivery must be mentioned. In case of delay in installation institute will have right to charge liquidated damage. Specify the following points for installation of the System: -

- a. Total power consumption along with break up of main System and Accessories.
- b. Whether the System needs uninterrupted power supply where ever applicable.
- c. Maximum tolerated transfer time in case of interruption of power supply.
- d. Whether the System needs any humidity control device.
- e. Whether the System needs any separate power line/isolation Transformer.
- f. Does the System need the electrical shielding?
- g. Does it require special civil works for installation?
- h. Whether Air conditioner is an essential requirement for the system.
- i. Does it require any special civil works for Installation?

13. After Sales Service Conditions:

- a. The Institute is in the pursuit of ensuring excellent after sales service for every user in respect of the equipments supplied under this contract. The after sales services terms and conditions will be strictly enforced and those Bidders who are willing to support the Institute in its endeavor to provide trouble free operation/performance of the equipments for the prescribed period need only participate in the tender.
- b. The after sales service shall be performed during the warranty period and also during the Comprehensive Maintenance Period (CMC)/ Annual Maintenance Contract, if awarded. The detailed terms and conditions for after sales service are mentioned hereunder.

c. Guarantee/Warranty Terms:

- i. The successful Bidder has to warrant that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.
- ii. The successful Bidder further have to warrant that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Tender Inviting Authority's specifications) or from any act or omission of the successful Bidder, that may develop under normal use of the supplied goods.
- iii. All the equipments including the accessories supplied as per the technical specification as mentioned in the bidding document should carry comprehensive warranty (including all spares, accessories and consumables) for a period mentioned in this document in the first instance. During this period, the successful Bidder shall replace all defective parts / accessories /

consumables and attend to all repairs/break downs and undertake stipulated number of preventive maintenance visits to every user installation site. The cost of spare parts for all replacements has to be borne by the successful Bidder during the period of comprehensive warranty. The items which are not covered under warranty should be clearly mentioned along with rate of the items . If any spares / accessories / consumables etc. are not replaced by the bidder during warranty period, bidder should mention it clearly with name of the items with frequency of replacement and its rate

- iv. On expiration of the comprehensive warranty period, the successful Bidder shall be willing to provide after sales support for an additional period prescribed in this document.
- v. The prospective Bidder, who are not manufacturers, shall submit an undertaking from the Original Equipment Manufacturers (OEM) that they are willing to provide spare parts for the period of warranty as mentioned and also during the additional CMC/AMC period, if awarded. The OEM shall also assure continuity of service to their product, in the event of change in dealership or the Bidders – their existing dealers - couldn't provide service during the warranty / CAMC period. The undertaking from OEM is an essential document forming part of the Technical Bid, without which the tenders will be rejected summarily in the first round itself.
- vi. After sales service centre in Patna (Bihar) preferably or at least in East India should be available as part of the pre-qualification and the Bidder shall provide proof of their capability to undertake such maintenance/repair within the stipulated time.
- vii. The successful Bidder shall provide preventive maintenance as per the frequency mentioned in this document during the warranty period. The Bidder shall attend any number of break down/repair calls as and when informed by the institute authority.
- viii. Upon receipt of such notice for repair/breakdown from the institute, the successful Bidder shall, within the period as specified in this document, and with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the Tender Inviting Authority.
- ix. If the successful Bidder, having been notified, fails to rectify the defect(s) within the period specified mentioned in this document, the Tender Inviting Authority may proceed to take such remedial action as may be deemed necessary, at the successful Bidder's risk and cost and without prejudice to any other rights which the Tender Inviting Authority may have against the successful Bidder under the contract.
- x. Failure to attend the repairs in time or failure to attend the stipulated preventive maintenance visit or failure to replace the defective equipments or to provide stand by equipment if the fault/down time exceeds the stipulated period or to ensure the stipulated up-time in an year shall lead to forfeiture of the performance security and/or may lead to blacklisting/debarring of the defaulting Bidder.
- xi. The equipment which requires quality assurance test shall be done at free of cost immediately after installation, during the comprehensive warranty period, during the CMC/AMC period, by the demand of User and also when major spares are replaced.
- xii. Any mandatory approval required for installation shall be obtained by the successful Bidder in liaison with the respective authorities.
- xiii. The Bidder shall submit the parameters which require calibration and the frequency of calibration required.
- xiv. The Bidder shall undertake on-site calibration of the equipment every year as part of the after sales service during the period of comprehensive warranty, CMC/AMC or on demand from the user.

xv. The Bidders shall also have to submit whether periodic replacements of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year, if the same is not replaced free of cost during warranty / guarantee period.

xvi. An undertaking of the principal regarding continuity of after sales and services (CAMC) @ the agreement rate even in case of changes of Indian agent during the life span of the equipment, must be enclosed in the technical bid. Further, it will be the responsibility of the manufacturer Indian agent to get counter signature on the agreement to be executed with them by the principal.

Xvii;- The offered warranty includes:

- Visits to the user institutions at frequencies prescribed as part of preventive maintenance.
- Testing & calibration as per technical/service/operation manual of the manufacturer or as per the period specified or as per the demand of the user.
- Quality Assurance tests (if applicable).
- The cost of labour for all repairs/ and all spares required for replacement during repairs all kinds of accessories, Probes, all types of sensors and transducers, Electrodes, Detectors, battery, battery for UPS, other vaccumatic parts etc wherever applicable and also the accessories and other devices supplied along with the equipments like stabilizer, UPS, AC, Computer, Compressor, Monitor, etc, which forms part of the equipment system, without which it cannot perform satisfactorily.
- The exclusion of warranty of any vital equipment parts will be compared with offers of other Bidders during evaluation of the bids and this may be taken into consideration in deciding the successful Bidder on the basis of expert advice.
- The Bidder shall provide up-time warranty of complete equipment as mentioned in this document, the uptime being calculated on 24 (hrs) X 7 (days) basis failing Warranty period will be extended for every additional day of down time equal to one week.
- All software updates, if any required, should be provided free of cost during Warranty period.

d. Comprehensive Annual Maintenance Contract:

- The decision to enter into CMC or AMC will be determined on the basis of cost and complexity of the equipment by the Tender Inviting Authority, at its discretion, prior to the expiration of warranty period.
- The Comprehensive Maintenance Contract (CMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing the comprehensive warranty of the equipment shall be extended during the period of CMC, only difference being the payment of CMC charges is absent during the period of comprehensive warranty.
- The cost of CMC, accessories and spares, reagents and consumables as in case may be quoted along with taxes applicable, if any. The taxes to be paid extra, to be specifically indicated. 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.
- Failure/refusal on the part of the successful tender supplying/installing the equipments to enter into CMC with the Tender Inviting Authority, at the end of the Comprehensive

Warranty Period, if the Institute, as the case may be, desires so, shall lead to forfeiture of performance security and may also result in the blacklisting/debarring of the Bidder.

- The successful Bidder shall also indicate the rates for the CMC in price bid form and such rates are binding on the successful tenders after the expiration of the warranty period. The yearly rates for CMC shall remain the one and the same as quoted in the price bid form for the extended years.
- Cost of CMC (excluding taxes, if any) will be considered for Ranking/Evaluation purpose.
- The payment of the agreed CMC charges will be made as per frequency for payment after satisfactory completion of said period, on receipt of service report/ break down report from the user.
- The Bidder shall also have to submit whether periodic replacement of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year if the same is not included in quoted Comprehensive Annual Maintenance Contract charges per year.

14. Time Limits prescribed

Sl. No	Activity	Time Limit
a.	Installation & Delivery period	12 weeks from date of issuance of Supply Order
b.	Comprehensive warranty period	3 years from the date of successful installation.
c.	CMC period	7 years
d.	Frequency of visits to all User Institution concerned during Warranty/CMC	One visit every three months (4 visits in a year) for periodic/preventive maintenance and any time for attending repairs/break down calls.
e.	Frequency of payment of CMC charges	Every six months after completion of the Period.
f.	Submission of Performance Security and entering into contract	10 days from the date of issuance of Letter of Intent
g.	Maximum time to attend any Repair call	Within 24 hours.
h.	Uptime in a year during warranty as well as during CAMC period.	95% of 365 days.

15. Firm have to provide a minimum **UPTIME GUARANTEE** of 95% (95% of 365 Days) per year during the warranty period as well as during the Comprehensive Annual Maintenance Contract.
16. While calculating the total unit price of the item / system to be procured, expenditure to be incurred in maintenance of the quoted item / system including all spare parts for a total period of seven years after expiry of the warranty period of three years shall also be taken into consideration. Accordingly, it is mandatory for the bidders to submit the rate for Comprehensive Annual Maintenance Contract (with spares) for a minimum period of seven years after the expiry of warranty period of three years.
17. Supplier will submit undertaking for ensuring uninterrupted supply of spares during the total life span of the equipments.
18. Indian agency commission and Installation charge if any will be paid in Indian rupees after successful installation and demonstration of the equipments.
19. Principal's Invoice of the quoted items must be submitted with the quotations.

20. Proof of the official Indian agent certificate of the firm must be attached. (Notary Certified Photocopy)
21. In order to fully and optimally utilize the equipment, training to Para Medical Staffs and Doctors should be provided. In continuation to this training, separate maintenance training for the machine and the sub systems should also be given to the "Equipment Maintenance Engineer" and "Equipment Maintenance Technicians". All the financial commitments in this regard shall be met by the bidder(s).
22. Bidder(s) have to submit an affidavit to the effect that they have not supplied the offered item(s) to any Govt., semi Govt. / Pvt. Organization, Institution, Nursing Home etc. at the price lower than the price offered to I.G.I.M.S. – Patna.
23. All the claims regarding meeting the specifications shall be duly supported by appropriate, latest technical catalogues/brochures from the manufacturer. Simply stating that the equipment(s) meets the specifications is not sufficient and any such quotations will be summarily rejected. Computer printed documents or Photostat copy or laser printouts will not be accepted as technical catalogues / brochures.
24. Bidder might be required to demonstrate the system at the discretion of the institute.
25. **Notification of Award/Letter of Intent (LOI)**
 - a. Before expiry of the tender validity period, the Institute will notify the successful Bidder(s) in writing, by registered / speed post or by fax or by email (to be confirmed by registered / speed post immediately afterwards) that its tender for equipment(s), which have been selected by the Institute, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. This notification is undertaken by issuing a Letter of Intent (LOI) by the Institute.
 - b. The successful bidder, upon receipt of the LOI, shall furnish the required performance security and submit an agreement in the prescribed format within ten days, failing which the EMD will be forfeited and the award will be cancelled.
 - c. The Notification of Award shall constitute the conclusion of the Contract.
26. **Signing of Contract**

The successful bidder shall execute an agreement for ensuring satisfactory supply, installation, commissioning and the after sales service/support during the warranty period and during the Comprehensive Annual Maintenance Contract.
27. The Director reserves the right to accept or reject any or all tenders without assigning reasons.
28. The Director reserves the right to modify, add or delete any terms & conditions of the contract as and when required.
29. **Amendment of tender documents:**
 - a. At any time prior to the dead line for submission of Tender, the Institute may, for any reason, modify the tender document by amendment.
 - b. The amendment shall be notified and uploaded on the institute website www.igims.org only and such amendments shall be binding on them thereafter.
 - c. The Institute shall not be responsible for failure to inform the prospective bidders. Purchasers of tender documents are requested to browse the website of the Institute for information/general notices/amendments to tender document etc on a day to day basis till the tender is concluded.
30. The Dispute, if any, will be subject to Jurisdiction at Patna (Bihar).

Sd/-
Director,
I.G.I.M.S. - Patna

CONDITIONS OF THE CONTRACT

01. Duty Free Clearance, Transportation, Forwarding & Handling Charges:

Clearance charges at point of Entry / Air Port and on ward transportation charges with Insurance upto I.G.I.M.S. - Patna will be borne by supplier's Indian Agent for which this Institute will not pay the charges.

02. Demurrage, Taxes & Octroi:

No demurrage charges will be paid by the Institute in case of delay on the part of supplier. However, this Institute will provide all necessary documents required for clearance / transportation of the goods and for exemption of the taxes/octroi for which supplier/Indian agent will have to intimate/furnish his requisition of document required, if any, well in advance. Octroi will be payable by supplier / Indian agent, if required.

03. Warranty Period:

- a. The "**Complete System**" shall remain under warranty period of **three years** from the date of satisfactory installation. The Complete System should include the basic unit and allied supporting components like UPS, Computer System, Printer, De-ionizer, Dehumidifier etc to be supplied by the bidder along with basic unit.
- b. During warranty period of three years, bidder shall provide at least **four maintenance visits per year** at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval, a proportionate deduction in the form of penalty on pro-rata basis will be recovered from the bidder from the Bank Guarantee amount. In case the Bank Guarantee is not adequate, Institute shall have right to recover the losses / penalty from other sources as well.
- c. Bidder shall also attend all breakdown calls within 48 hours of the receipt of the information from institute through fax/e-mail/mobile/sms etc.
- d. During warranty period, **bidder** shall maintain and keep **95% uptime** per year of the "**Complete System**" as per calculation given below:-

$$1 \text{ Year} = 365_{\text{days}}$$
$$95\% \text{ of } 365 \text{ days} = 347 \text{ Days per annum}$$
- e. The bidder shall compensate the uptime less than the specified above for **every additional day** of down time over and above 18 days stipulated above, warranty period will get extended by one week as penalty at no extra cost i.e. the extended penalty period will be equal to one week for every additional day of down time.
- f. During warranty period, **bidder** will make the "**Complete System**" in satisfactory working condition. In case, any spare parts, accessories, PCB, consumables etc. needs replacement due to normal wear and tear, **bidder** will supply and install the same for which no additional payment is to be made with a validity to cover warranty period.
- g. In case, the **bidder** is not able to provide services (and the items / accessories is not functioning as the reason thereof) due to natural calamity (act of God), Political unrest, Riot and fire at the user site, then in such a situation the warranty period will be extended by the period for which the item / accessories could not be operated because of supplier not been able to provide services.
- h. During warranty period, in case of any alleged damage due to accident / human error, a committee under the Chairmanship of Director, I.G.I.M.S. – Patna with one member from the bidder and one member from the Institute will decide the authenticity of the claim. The decision of the committee shall be final and binding on both the parties.

04. After Sales Services: -

- a. After expiry of the warranty/Guarantee period of the equipment, the Indian agent will have to undertake the Comprehensive Annual Maintenance contract (with spare parts, accessories, consumables etc.) of the Complete System for the further life span of equipment. The life span of the equipment shall not be less than ten years. In special circumstances the total life span of the Equipment/ items may be reduced by the Institute.
- b. The Complete System should include the basic unit and allied supporting components like UPS, Stabilizer, Computer System, Printer, De-ionizer, Dehumidifier etc to be supplied by the bidder along with basic unit.
- c. During Comprehensive Annual Maintenance Contract, bidder shall provide at least **four maintenance visits per year** at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval per year, a proportionate deduction in the form of penalty at the rate of 25% of contract amount per year will be deducted.
- d. Bidder shall also attend all breakdown calls within 48 hours of the receipt of the information from institute through fax/e-mail/mobile/sms etc.
- e. During Comprehensive Annual Maintenance Contract, **bidder** shall maintain and keep **95% uptime** per year of the “**Complete System**” as per calculation given below:-
$$1 \text{ Year} = 365_{\text{days}}$$
$$95\% \text{ of } 365 \text{ days} = 347 \text{ Days per annum}$$
- f. The bidder shall compensate the uptime less than the specified above for **every additional day** of down time over and above 18 days stipulated above, warranty period will get extended by one week as penalty at no extra cost i.e. the extended penalty period will be equal to one week for every additional day of down time.
- g. During Comprehensive Annual Maintenance Contract, **bidder** will keep the “**Complete System**” in satisfactory working condition. In case, any spare parts, accessories, PCB, all type of consumables etc. needs replacement due to normal wear and tear, **bidder** will supply and install the same for which no additional payment is to be made. **.If any spares / consumables / accessories etc. are not covered under Comprehensive Annual Maintenance Contract charges, it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.**
- h. The payment of Comprehensive Annual Maintenance Contract will be made on half yearly basis after submission of satisfactory functioning report of the Complete System by the officials authorized by the Institute.
- i. In case, the **bidder** is not able to provide services (and the items / accessories is not functioning as the reason thereof) due to natural calamity (act of God), Political unrest, Riot and fire at the user site, then in such a situation the Comprehensive Annual Maintenance Contract will be extended by the period for which the item / accessories could not be operated because of supplier not being able to provide services.
- j. During Comprehensive Annual Maintenance Contract, in case of any alleged damage due to accident / human error, a committee under the Chairmanship of Director, I.G.I.M.S. – Patna with one member from the bidder and one member from the Institute will decide the authenticity of the claim. The decision of the committee shall be final and binding on both the parties.

05. **Performance Security**

- a. There will be a performance security deposit amounting to 10 % of the total value of the equipment excluding taxes, which shall be submitted by the successful bidder within 10 days from the date of issuance of "Letter of Intent".
- b. The contract duly signed and returned to the Institute shall be accompanied by a demand Draft or Bank Guarantee in the prescribed format.
- c. Upon receipt of such contract and the performance security, the Institute shall issue the Supply Orders containing the terms and conditions for the execution of the order.
- d. Failure of the successful bidder in providing performance security as mentioned above and / or in returning contract copy duly signed in time shall make the bidder liable for forfeiture of its EMD.
- e. The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
 - i. It shall be in any one of the forms namely Account Payee Demand Draft or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in this document endorsed in favour of the Institute.
 - ii. Institute will release the Performance Security without any interest to the successful bidder on completion of the successful bidder's all contractual obligations including the warranty obligations & after receipt of certificates confirming that all the contractual obligations have been successfully complied with.

06. **Delivery period/Liquidated Damage: -**

Goods should be delivered within two months after receipt of irrevocable and confirmed Letter of Credit. If the delivery is not affected by due date, the Director, I.G.I.M.S. - Patna shall have the right to charge liquidated damage on supplier/his Indian agent as under: -

- i. 1st extension for a month or a part thereof @ 2% per month of C.I.F. value.
- ii. 2nd extension for an additional month or a part thereof @ 3% per month of C.I.F. value subject to maximum Limit of 20% of the order items. All expenses incurred for extension of L.C. will be borne by supplier/his Indian agent.
- iii. Cancellation.- If delivery is not done even after 2nd extension Institute shall have the right of cancellation of Supply order at its discretion..

07. **Payment: -**

100% payment through International Irrevocable Letter of Credit in favour of principal abroad, but 80% will be released on shipment of goods & balance 20% after satisfactory installation of equipment on submission of Bank Guarantee of value not less than 20% of the cost of the quoted equipment (with a minimum validity to cover up the warranty / guarantee period) will be submitted by supplier. This Bank Guarantee will be released after expiry of guarantee period.

- a. In case, the equipment is purchased in Indian Currency then the payment will be made as per following scheduled.
- b. 90% payment will be released against delivery and successful installation of the equipment & balance 10% will be released on submission of 10 % Bank Guarantee of the total cost of ordered value. This Bank Guarantee will be released after expiry of guarantee period.

- c. L. C. will be opened only after receipt of the 10% bank Guarantee of the total cost of equipment (with a minimum validity to cover up the warranty / guarantee period), confirmation letter of all our terms and condition, submission of agency certificate in favour of Indian agent who have submitted and quoted the price, name of the Bankers abroad; intimation about country of origin and 10 copies of Performa invoice of the ordered item. Indian Agency commission will be paid in Indian currency only to Indian agent, if any. No extra charges will be paid for installation/demonstration and training to personnel.

08. **Validity of Price:-**

Minimum up to one year from date of tender submission and it should be extendable.

09. **Part Supply:** No part supply/ wrong supply or short supply will be accepted by the Institute. The Director IGIMS, Patna will be the final authority and will have the right to reject full or any part of supply, which is contradictory to the terms and conditions agreed at the time of placement of order. In case of rejection of any supplied items due to nonconformity in quantity and/or quality, Institute will have right to charge liquidated damages, as it deems fit

10. **Packing & Marking:-**

Goods must be securely and adequately packed and protected in order to prevent damage, otherwise all losses and /or damage resulting from inadequate packing and/or inadequate protection or inadequate marking shall be borne by seller/seller's Principal abroad.

11. Supplier may have to provide required manpower for running the equipments at mutually agreed remuneration (Which shall not be more than remuneration payable for the particular category of staff at IGIMS) at the sole discretion of the Institute, till institute is able to arrange its own staff for the purpose.

12. **Insurance: -**

Insurance up to Patna will be borne/arranged by principal supplier/his Indian Agent.

13. **Installation & site plan:**

Requirement regarding site/location for installation of equipment, if any, should be mentioned in the tender. Time required for installation of system after delivery must be mentioned. In case of delay in installation institute will have right to charge liquidated damage.

Specify the following points for installation of the System: -

- a. Total power consumption along with break up of main System and Accessories.
- b. Whether the System needs uninterrupted power supply.
- c. Maximum tolerated transfer time in case of interruption of power supply.
- d. Whether the System needs any humidity control device.
- e. Whether the System needs any separate power line/isolation Transformer.

- f. Does the System need the electrical shielding?
 - g. Whether Air Conditioner is required for the System.
 - h. Does it require special civil works for installation?
14. The bidder should also quote for supply of “Un-Interrupted Power Supply” (UPS) with a battery back up of at least 30 minutes, “Constant Voltage Transformer (CVT)” of reputed manufacturer of required capacity along with Spike Suppressor or “Servo Voltage Stabilizer” as per requirement of the System. Bidder may quote the prices for all the above items (UPS/CVT/SERVO VOLTAGE STABILIZER) and the decision will be taken during technical evaluation of the item whether UPS is suitable or CVT / Servo Voltage Stabilizer will serve the purpose.
15. **Responsibility:-**
The principal as well as its agent will be severally and jointly responsible for ensuring the minimum life span of 10 years for the equipment. Both the said principal abroad and his Indian agent will have the full responsibility for the proper functioning of the equipment/instruments within the warrantee period and thereafter during the life span of the equipment
16. The bidder is required to provide list of persons (along with their permanent and correspondence address) owing more than 1% share ownership in the company/firm (both principle and Indian Agent).
17. The bidder is required to submit compliance sheet, which should reflect details of clause-by-clause compliance of technical specifications as well as general terms & conditions failing which their offer shall be rejected.
18. In order to fully and optimally utilize the equipment, training to paramedical staff and Doctors should be provided. In continuation to this training a separate maintenance training for the machine and the sub system should also be given to the Equipment Maintenance Engineer and Maintenance Technicians of the Institute. All the financial commitment in this regard shall be met by the firm/Principal.
19. **Penalties for non-performance**
The penalties to be imposed, at any stage ,under this tender are;
- a. imposition of liquidated damages,
 - b. forfeiture of EMD/performance security,
 - c. termination of the contract,
 - d. Blacklisting/debarring of the bidder.
20. **Termination of Contract**
- a. Termination for default:- The Institute, without prejudice to any other contractual rights and remedies available to it (the Institute), may, by written notice of default sent to the successful bidder, terminate the contract in whole or in part, if the successful Bidder fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Institute.
 - b. In the event of the Institute terminates the contract in whole or in part, the Institute may procure goods and/or services similar to those cancelled,

with such terms and conditions and in such manner as it deems fit and the successful bidder shall be liable to the Institute for the extra expenditure, if any, incurred by the Institute for arranging such procurement.

- c. Unless otherwise instructed by the Institute, the successful bidder shall continue to perform the contract to the extent not terminated.
- d. Termination for insolvency: If the successful bidder becomes bankrupt or otherwise insolvent, the Institute reserves the right to terminate the contract at any time, by serving written notice to the successful bidder without any compensation, whatsoever, to the successful Bidder, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Institute.
- e. Termination for convenience: - The Institute reserves the right to terminate the contract, in whole or in part for its (Institute) convenience, by serving written notice on the successful bidder at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Institute. The notice shall also indicate inter alia, the extent to which the successful bidder's performance under the contract is terminated, and the date with effect from which such termination will become effective.

21. **Fall Clause:**

The prices charged for the equipment supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the equipments of identical description to any other persons during the period of contract. If any time, during the contract, the bidder reduces the sales price chargeable under the contract, he shall forth with notify such reduction to the Institute and the price payable under the contract of the equipments supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

22. **Applicable Law & Jurisdiction of Courts**

- a. The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.
- b. All disputes arising out of this tender will be subject to the jurisdiction of courts of law in Patna (Bihar, India).

**Sd/-
Director,
IGIMS - Patna**

CHAPTER:

Schedule of the Requirement.

SCHEDULE OF THE REQUIREMENT

Sl No	Name of the Department	Name of the equipment
Group	Name of Department	Name of Machine Equipments
A		As mentioned in the NIT

ANNEXURES
Annexure - I (a)

PRICE SCHEDULED FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN

LOCATED WITHIN INDIA.

1	2	3	4	5							6
				Price per unit (Rs.)							
Scheduled	Brief description of goods Make: Model:	Country of origin	Qty. nos.	Ex-factory/ex-warehouse /ex-showroom/off-the shelf	Excise duty(if any) % and value.	Sales tax/vat(if any % and value.	Packing and forwarding charge	Inland transportation , insurance for a period including 3 months delivery, loading/unloading and incidental cost till consignee site.	Incidental services (including installation and commissioning, supervision, demonstration and training) at the consignee site.	Unit price (at consignee site basis(g)	Total unit price (At Consignee Site) Basis Rs. 4x5(g)

Total quoted price in Rs.

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 warrantee shall be quoted separately as per price scheduled.

Place:
Date:

Name:
Business Address;-

Signature of Bidder;-
Seal of the Bidder;-

Annexure: I (b)

PRICE SCHEDULED FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5					6
				Price per unit (CURRENCY)					
schedule d	Brief descrip tion of goods Make: Model:	Country of origin	Qty. nos.	FOB price at port/ Airport of loading	Carriage & Insurance (port of loading to port of entry) and other incidental cost .	Incidental Services (Including Installatio n & Commissi oning, supervisi on, Demonstr ation And Training) at the consignee 's site. (C)	Extended Insurance (Local transportation and storage) from port of entry to the consignee site for a period including 3 month beyond date of delivery .	Unit Price on CIP Named port of Destination + Extended Insurance (Local Transportati on and storage)	Total Price on CIP Named Port of Destination + Insurance (Local Transportati on and storage)
				(a)	(b)	(C)	(d)	(e_)	4x5(e)

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 warrantee shall be quoted separately as per price scheduled.
3. The Bidder will be fully responsible for the safe arrival of the goods at the named port of entry in goods condition as per terms of CIP as per INCOTERMS, if applicable

Indian Agent;-

Indian agency commission: % of FOB

Name:

Signature of Bidder;-

Business address;-

Signature of Bidder

Seal of the Bidder;-

Place;-

Date

Annexure - II

COMPREHINSIVE ANNUAL MAINTENANCE CONTRACT PRICES SCHEDULE

S. No.	Item Description	1 st Yr.	2 nd Yr.	3 rd Yr.	4 th Yr.	5 th Yr.	6 th Yr.	7 th Yr.	Total Comprehensive Annual Maintenance Contract over a period of seven years after expiry of warranty period of three years from the date of successful installation. (a + b + c + d + e + f + g + h + i)
a	b	c	d	e	f	g	h	i	j
1.	Name of the Equipment: Make: Model: Qty.:								
2.	Name of the Equipment: Make: Model: Qty.:								

Scope of Contract (details as mentioned in the Clause No. – 13 of "Instruction to Bidder" & Clauses No.: 3, 4 and 5 of "Condition of Contract".):

- a) The rate of Comprehensive Annual Maintenance Contract as mentioned above should cover the Complete System. Complete System should include the basic unit and allied supporting components like UPS, Stabilizer, Computer System, Printer, De-ionizer, Dehumidifier etc to be supplied by the bidder along with basic unit.
- b) **Preventive maintenance visit:** Four Maintenance visits at regular interval for usual maintenance & supervision failing which 25% of the contract amount per visit would be deducted as penalty.
- c) **Break down maintenance visit:** As & when required
- d) **Response Time:** _____ within 48 Hours.
- e) Uptime Guarantee: 95% of 365 days
- f) The above-mentioned charges should includes labour charges for maintenance and breakdown visits per year, spares, accessories and all type of consumables required for the maintenance of the supplied items. If any spares / consumables /accessories etc. are not covered under above-mentioned charges; it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.
- g) Payment of Comprehensive Annual Maintenance Contract would be made on half yearly basis after completion of work and satisfactory working report. In no case, advance payment is to be considered.

Seal and Signature of the bidder

MANUFACTURER'S AUTHORISATION FORM

(To be submitted by authorized dealers/representatives/importers)

No.

Dated:

To

The Director
Indira Gandhi Institute of Medical Sciences,
Sheikhpura,
Patna – 800 014 (Bihar, India)

Dear Sir,

Tender No :
Equipment Name :

1. We (name of the OEM) are the original manufacturers of the above equipment having registered office at (full address with telephone number/fax number & email ID and website), having factories at _____ and _____ , do hereby authorize M/s. _____ (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender no..
2. No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.
3. We also hereby undertake to provide full guarantee/warranty /Comprehensive Annual Maintenance Contract as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive Warranty / Comprehensive Annual Maintenance Contract and to supply all the spares/ accessories / consumables etc. during the said period.
4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

(Name)
for and on behalf of M/s. _____

Date: (Name of manufacturers)

Place:

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

ANNEXURE – IV
BANK GUARANTEE FORM

To The Director

Indira Gandhi Institute of Medical Sciences,
Sheikhpura,
Patna – 800 014 (Bihar, India)

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of tender no _____ dated _____ (herein after called “the contract”) to supply The Director, Indira Gandhi Institute of Medical Sciences, (address) with (description of goods and supplies).

AND WHEREAS it has been stipulated by you in the said tender/bid that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the bid scopet;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total amount of _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We undertake to pay you any money so demanded notwithstanding any dispute or disputes raised by the supplier(s) in any suit or proceeding pending before any Court or tribunal relating thereto our liability under these presents being absolute and unequivocal.

We agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition no modification.

No action, event, or condition that by any applicable law should operate to discharge us from liability, hereunder shall have any effect and we hereby waive any right we may have to apply such law, so that in all respects our liability hereunder shall be irrevocable and except as stated herein, unconditional in all respects.

This guarantee will not be discharged due to the change in the constitution of the Bank or the Supplier(s).

We, _____ (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent, in writing, of The Director, Indira Gandhi Institute of Medical Sciences, Patna (Bihar). This Guarantee will remain in force up to (Date). Unless a claim or a demand in writing is made against the bank in terms of this guarantee on or before the expiry of (Date) all your rights in the said guarantee shall be forfeited and we shall be relieved and discharged from all the liability there under irrespective of whether the original guarantee is received by us or not.

(Signature with date of the authorized officer of the Bank)
Name and designation of the officer

.....
.....

Seal, name & address of the Bank and address of the Branch

ANNEXURE - V
POWER OF ATTORNEY
(On a Stamp Paper of relevant value)

I/ We.....(name and address of the registered office) do hereby constitute, appoint and authorise Sri/Smt(name and address) who is presently employed with us and holding the position of as our attorney, to act and sign on my/our behalf to participate in the tender no..... for (Equipment name).

I/ We hereby also undertake that I/we will be responsible for all action of Sri/Smt..... undertaken by him/her during the tender process and thereafter on award of the contract. His / her signature is attested below

Dated this the ___ day of 201_ For _____

(Name, Designation and Address)

Accepted

(Signature) (Name, Title and Address of the Attorney)

Date : _____

Group-A

SPECIFICATION AND ALLIED TECHNICAL DETAILS **A:Full Room D R System (Digital Radiography)**

Specification of auto-position, auto tracking & auto positioning with two flat panel detector, full room DR (Digital Radiography) System for various radiological examinations.

Detector:

Flat panel detector made up of amorphous silicon and CSi scintillator.

Size- more than 43 x 43 cm for wall stand and more than 43 x 35 cm for table panel. Image matrix size more than 3kx3k for wall stand detector and 3kx2.4k in table detector. Pixel size- 140 microns or less.

Gray scale- 14 bits or more

A/D conversion must be 16 bits or more. Pre view time must be less than 5 seconds. Image resolutions- 3.5 lps/mm or more.

DEQ of detector system should be more than 65% or more at zero line pairs.

Generator:

Microprocessor based high frequency generator.

Capacity: 80 KW or more

kVp range- 40 – 150

mA output should be 800mA to 1000mA @ 80kv

Generator capacity must be capable of giving up to 500 mAs.

Exposure time- 1mili second or less.

Automatic exposure control must be present.

X-Ray tube and Collimator

High speed rotating anode with dual focal spot compatible with generator Focal spot: Large- 1.2 mm x 1.2 mm or less with loading of 96 KW or more. Small: 0.6mm x 0.6 mm or less with loading of 36Kw or more.

Anode heat storage capacity should be at least 600 KHU. Higher HKU will be preferred. Tube protection against high voltage and over load should be available.

Rotor material must have high thermal conductivity and it should be 8000 rpm or more starter.

Collimator must be automatic with manual override facility.

It must be capable of rotation of +- 35 degree. More will be prefer. Laser beam centring and must be fitted with high luminous lamp.

It should have copper filter.

Ceiling suspended 3D column with display:

Ceiling suspended tube with motorized adjustment and it should be provided with horizontal and vertical auto tracking of tube and detector.

Should have touch panel display mounted on tube side.

X-Ray table:

Free floating carbon fibre or equivalent table top table with low attenuation of beam. Motorized height adjustable with 6 way floating table.

Foot switch to control movement

Should support patient weight 200 kg or more

Auto tracking (synchronized with X-ray tube with table detector).

Vertical Bucky stand :

Motorized, counter balanced, height adjustable, vertical Bucky with a flat panel detector. Auto tracking with vertical Bucky.

Grid ratio: 10:1 and focus distance of 180 cm. Tilt of detector on wall stand - -20 to +90 degree

Vertical travel range: 0 mm to 1800 mm or more.

Vertical & horizontal auto stitching must be available with necessary stitching stand and accessory.

Operating station and console:

i7 7 th generation PC based work station having 1Tb hard disc, latest solid state HDD, RAM 8 GB or more, 19 inch or more latest high quality medical monitor / LED monitor.

Console software must be able to manage the patient information and capable of connecting to RIS/HIS/PACS. X-Ray parameters must be controlled from console

Preview time on console must be less than 5 sec.

Full range of console software should be provided without time bound licence.

Automatic Image Stitching Software upto 3 or 4 images must be provided for performing full leg full spine / long body imaging in both vertical bucky and table bucky .

Scoliosis measurement, leg length difference measurement tools must be provided.

The console should also have the functionality/tool to correct radiographic magnification on the image.

The console should have automatic program to indicate over /under exposure visually in the preview screen

System should be fully DICOM 3.0 Ready

It should get DICOM worklist from HIS/RIS , store images through PACS network system and should support DICOM image print and DICOM MPPS functions

Must be AERB, USA FDA and European CE approved. AERB valid NOC with declaration on non judicial stamp paper. In case of NOC from AERB, valid type approval certificate has to be submitted prior to submission of invoice for payment.

Accessories

- a. Voltage Stabilized of Suitable capacity for the entire system must be provided
- b. 3 KVA UPS for the console workstation with 30min backup to be provided
- c. One Lead Glass of minimum size of 100 x 150 cm to be provided.
- d. Compression Belt and Patient Hand Grips to be provided
- e. Two sets of high quality zero Lead apron, thyroid shield, gloves, goggles, and scrotal guard.
- f. High quality LED illuminated large size (three film) view box - 03
- g. Two good quality table and revolving low back chairs.

TRUNKEY work:

All civil, electrical, cooling system and other work will be done by vendor as per AERB norms.

All site approval, layout approval and registration of equipment from AERB shall be the responsibility of supplier. Following commissioning, permission to operate should also be responsibility of the supplier.

Trunky work will be done in consultation with civil dept and HOD Radio diagnosis of IGIMS

The vendor will inspect the site and project will be submitted as TRUNKEY project.

B: Technical specification for Digital mammography system

Full field digital mammography system with lowest radiation dose.

The machine should be supplied with digital breast Tomosynthesis, stereotactic biopsy and vacuum assisted biopsy. Only manufacturer / or their authorized subsidiaries are allowed to quote the tender.

Equipments should be of latest technology.

Technical specifications must be supported with product data sheet

The detailed specifications that follow shall be understood to be minimum requirement and any additional features of the equipment offered should be specified separately which has to be offered as a slandered without any extra cost. Such additional features if beneficial for department and patient will be given due consideration.

Specification:

1. X-Ray generator:
 - Micro processor controlled High frequency generator
 - Power out put- 5KW or more
 - Tube current- 100 mA or more
 - mAs range- 4-500 mAs or more
 - kV range – 20+-4kv to 35 kv or more. It should be in 1kv steps or less
 - Displayed parameters kV, mAs, target filter, density selection.
2. X-Ray tube:
 - Single tract with duel focus or duel tract with quadruple focus X-ray tube
 - Focal spot size- smaller-0.1 mm, larger-0.3 mm or less. Please mention anode material

- Anode heat storage capacity- 200 KHU or more
 - Specify the inherent filtration used in the tube.
3. Gantry assembly:
- It should be an iso centric system
 - System should have fully motorized rotation and up/down movement
 - The angle of the C-arm movement should be at least +180 to -180 deg
 - The breast compression device should be motorized, automatic, controlled by foot paddles as well as from gantry. There should be automatic decompression after exposure. There should be facility to release compression in case of power failure.
 - There should be provision for motorized and manual compression with digital display of compression force and compression thickness.
 - SID should be 60 cm or more
 - Magnification c should be minimum of 1.5 or 1.8
 - Mention the grid ratio.
 - Following paddle one each should be supplied as slandered-
 - a. Small paddle- 18x24 cm
 - b. Large paddle – 24x30 cm
 - c. 1.8 or 1.5 magnification attachment with field magnification and spot magnification paddles
4. Exposure control:
- Should have manual, semi automatic, automatic mode. The anode track and filters shall be selected automatically
 - Should display the dose after each exposure.
5. Flat panel detector
- Size at least 24 x 30 +/- 1 cm and pixel size should be 90 micrometer or less.
 - Detector technology and material used should be mentioned. Mention the expected life of detector
6. Digital acquisition system:
- Image storage capacity should be 8000 images or more
 - Should provide 3MP 19" medical grade LED/LCD monitor with high luminance.
 - There should be highly effective Computer Added Detection (CAD) digital mammography solutions for early detection of cancer. Latest technology should available. There should be advanced technology for identification of micro calcifications and suspicious lesions.
 - The following imaging processing should be possible on the work station:
 - Measurements
 - Zoom, Roam, Magnification
 - Brightness, contrast changes
 - Image inversion
 - Contrast enhancement processing
 - Flip rotate inward
 - Annotations, measurements
 - Image evaluation like contrast enhancement histogram display, length measurements before and after compression etc
 - Filming from acquisition work station should be possible.

- It should be possible to receive the demographic patient data directly from HIS. Demographic data may also be entered manually. Retrieval of images from CD, DVD or PACS should be possible.
 - Should be DICOM ready
 - Dry Laser camera with at least 2 online film tray compatible for sizes 8x10 and 11x14 inches, 500 dpi or more for printing digital images should be supplied.
7. Reporting work station and Archiving
- PACKS based archiving.
 - The following monitors required are in addition to the acquisition workstation including monitor/monitors (depending upon vendor configuration).
 - Two 5MP medical grade (DICOM calibrated) monitor
 - all image processing and measurement mentioned previously should be present.
 - there should be a DVD ROM drive with quadrant or selected zooming function. RAM should be not less than 4 GB. Hard disc capacity should be 1Tb or more.
8. TOMOSYNTHESIS
- Tomosynthesis scan angle should be 25 degree or more
 - Specify scan time
 - Number of projection – specify
 - Distance between reconstructed images – 1 mm or less
 - It should be possible to re construct 2D image with acquired projections and 2D plus Tomosynthesis acquisition in single breast compression
 - It should be inclusive of any specific Tomosynthesis compression paddle if required.
9. Stereotactic Biopsy system
- It should be fully compatible with Full Field Digital Detector
 - Should have facility to do stereotactic biopsy automated on all the three axis
 - Facility for needle core biopsy, fine needle aspiration and wire localization
 - Should be based on main imaging detector
 - Ergonomically designed high quality Mammography positioning chair for screening and biopsy procedure, capable for lateral biopsy also.
 - The reusable needle guides for FNAC and needles for core biopsy of 10G and 14 G should be supplied and incase of disposable needle guides being offered by supplier, minimum 100 quantity need to be provided of each required size
10. Unit should be supplied with vendor neutral Vacuumed Assisted Biopsy System. Provide Make, Model and technical details of offered system.
11. Others-
- Should be supplied with transparent lead radiation shield, face shield, quality control tool kit, user manual, technical documentations, etc
 - 100x150 cm size lead glass for the window between console room and reporting room.
 - Dedicated online UPS for complete system including workstation for at least 30 minutes.
 - An automatic Servo stabilizer of suitable capacity.
 - Should be supplied with ACR phantom for calibration
 - The offered model should have AERB approval certificate or NOC from AERB. In case of NOC, AERB approval shall be obtained before installation, by the supplier.

- The Digital mammography unit with all features as per specification as well as stereotactic system and Tomosynthesis should be European CE / US FDA approved.
 - Site approval plan from AERB has to be done by the company without any extra cost.
 - Two weeks onsite training to technician and doctor by trained company person.
12. Buyback offer:
Buyback offer should mentioned for existing analog mammography machine, NOVA 3000 make Siemens. Price for the machine should be mentioned.
13. 5 years warranty including X-ray tube and all accessory and next 5 years comprehensive annual maintenance contract including tube and accessories.

(C) Specification for digital subtraction angiography unit for diagnostic and interventional purpose.

A single plane floor/ceiling mounted US FDA approved C-arm DSA system and DR with flat panel detector technology for peripheral, neurovascular and interventional procedure.

The future software update should be provided in the offered machine, as and when launched by the company without any additional cost for a period of 5 years after handing over the system.

System should have following specifications:

Gantry

- C arm should be multidirectional, floor/ceiling mounted.
- It should be three motor driven axes.
- C arm angulations of minimum RAO/LAO +- 120 deg/100 deg. System should have 45 deg cranial and 45 deg caudal angulations.
- Angulation speed of 15 deg/sec or more in every axis.
- All movement gantry should be controlled from table side and control room.
- System should allow access to the patient from both side of table.
- Motorized peripheral position for peripheral and vascular intervention should be available.
- The system should have user defined various programmed positions of the C arm.
- Collision protection should be present.

Patient table:

- Table should have free floating carbon fiber top.
- The table should have motorized longitudinal, horizontal and vertical travel. It should have full range of applications without restrictions on position during CPR.
- Longitudinal travel should be 100 cm or more, transverse travel should be 15 cm or more, vertical travel should be 30 cm or more.
- Fluoroscopic coverage – 120 cm or more.
- Table top rotation- +- 180 deg
- Table should have motorized axis tilt (head down and head up)
- Table should support weight of 180 kg
- Should have facility to lock in any position.
- System should have switches for releasing fluoroscopy, acquisition and table breaks.

X-Ray Generator

- High frequency, microprocessor controlled three phase power unit that provide pulsed fluoroscopy capability & radiography.
- Power rating should be 100 KW or more
- Automatic regulation of radiation dose for all fluoro DSA and acquisition mode
- Radiography kVp range should be 40- 125 kVp or more
- Radiographic mA rating-10-1000mA
- Fluoroscopy mode: 40 to 120 kVp
- Fluoroscopy mA rating: 1-100 mA
- It should have automatic exposure control device for radiographic fluoroscopy and angiography mode.
- It should have over loading protection

X-ray Tube

- X-ray tube should be dual focus (triple focus preferred) with high cooling rate to ensure continuous operation, capable of pulsed fluoroscopy.
- Focal spot – 1.0 mm or less and 3.0 mm or less
- The smaller focal spot should have loadability of minimum 30kw or more, larger focal spot have 65 kw or more.
- Anode heat storage capacity should be 3.0 MHU or more

Flat panel detector:

- Digital flat panel detector with special resolution and 16 bite contrast resolution. Dimension should be 42 cm (diagonal) or more which comprises at least 1024 x 1024 arrays of imaging element.
- Pixel size 200 microns or less
- Input field formats: 4 or more
- DQE- minimum 70%
- Special resolutions should be at least 3.0 LP/mm or more
- Acquisition speed of detector panel should be 30 images / sec or more

X-Ray Collimators

- Dual level collimator IRIS/rectangular blades to provide maximum blockage of direct radiation
- System should be provided latest dose reduction algorithms and image process chain.
- Systems should have latest software / hardware packages for radiation safety of operator and patients as per AERB rules 2004 (please specify the radiation safety package being offered).

Monitors/Display

- The monitor in examination room should be ceiling suspended and should be possible to position it left or right of patient table. Two high grade monitor of at least 8 MP with PIP facility to display live and reference images from each plane, patient hemodynamic monitoring, 3D images, CT images or IVU images.
- Two such monitors should be also available in console room also.

Image Acquisition system:

- Road mapping facility (real time 2D & 3D) should be available with capability of superimposing fluoro images on reference images.
- System should have on line & off line ventricles analysis programmed.
- The full system should have table side control operation with complete acquisition and post processing capabilities.
- Post processing software facilities with real time edge enhancement, positive / negative image display window, electronic shuttering, roaming, image reversal, zooming and magnifying with text annotation junction should be available on both main console and work station.
- 3D data acquisition with an output of cross sectional CT like images should be possible. These CT like images should be available in both console room and examination room monitors.
- CT images for visualization of device / stent and flow diverters and for feeder vessels in area of tumors.
- System should have subtracted 3D facility.
- Automatic and interactive bolus chase facility should be available.
- Should have minimum storage capacity of 100000 images in 1024 x 1024 /12 bit
- DSA and work station should be connected to latest DICOM compatible LASER camera
- The digital system should have software for vascular analysis and quantification including stenosis %. All the measurements should be possible from the patient table side.

Work station:

- Separate work station should be provided with at least 1Tb memory for 3D reconstruction to free the main system for continuation of procedure immediately after 3D acquisition. 3D display should be visible in both control room as well as in examination room
- It should have capability of reconstruction using SSD, VRT, MIP in true 512 matrix with color display in control room and examination room
- Stereoscopic display of 3D reconstructed images on workstation should be available.
- Latest DICOM facility for data acquisition , documentation and archiving should be available.
- System should have angle / distance measurements, image labeling.
- Dosimeter on console and also on inside monitor to display online actual radiation dose.

Accessories:

- Online UPS for complete systems with 30 min backup.
- One pressure injectors of reputed make along with 500 disposable syringes set. Vendor should ensure supply of syringes whenever needed.
- Dry chemistry Laser imager with resolution of 500 DPI or more. DICOM ready and online for film size of 14x17 inch.
- Ceiling suspended radiation protection system and table side protection.
- Focused ceiling mounted light with a handle for positioning the light.
- Zero Lead apron (skirt type)- ultra light weight. - 06 number
- Thyroid shield, Gonadal shield – 06 numbers
- Lead eye glass-05
- Multi channel hemodynamic monitor to record respiration, BP, ECG, Temp, SPO2
- Head support-2
- Neuro mattress-2

- Set of arm supports with adjustable cath arm support-4
- Multi arm drip stand mounted and adjustable on table -2
- Patient strap-4
- To link video output from procedure room to conference room
- Integrated two way communication systems between control room and examination room.
- Lead glass 100 x 150 cm for console room
- Minimum necessary furniture and fire extinguisher system for angio room

Warranty / after sale service

- Five year comprehensive onsite warranty of entire system including X-ray tube and all accessories, civil, electrical work, air-conditioning. This will be followed by 5 years comprehensive AMC.

Turnkey:

- The cost of preparation in a specified area on turnkey basis which will include civil, electrical work and air conditioning and maintenance of them.
- Work will be done with consultation of the dept of radio diagnosis and engineering section of IGIMS.

Area:-500 Sq. Feet

1. Console & Workstation Table-3.
2. Low back revolving chairs of 4 Nos.
3. Wall painting.
4. Necessary flooring.
5. Lead pasting on door 2 Nos.(One for Gantry Room and the other between Gantry and Console Room.
6. Lighting and electrical wiring.
7. Electrical Panel Box.
8. Facility for non-invasive monitoring of oxygen saturation, blood pressure, respiratory rate and skin temperature for both pediatric and adult patients
9. Medical patient trolley – 1 No
10. LED view box – three / four film size -3 Nos

Group-B:ULTRASOUND (HIGH END COLOR DOPPLER)

Make:

Model:

System should be high end State of Art with fully digital technology equipment with broadband digital Beam former.

1. The system designed Green Emission Product Specification. The system should comply with standards are environmentally Conscious Product (ECP) Certificate to be attached.

2. The beam former should be able to handle independent processing channel for each receiving information from transducer.

4. The system should have 50000 or more digitally processing channel.

5.The system should following optional capabilities:

sa. Real time 4D imaging capabilities (optional)

b. Real time elastography capabilities with linear probe.

c. Contrast Ultrasound Capability (Optional)

6. The system should have region specific preset like Adult Abdomen, Pediatric Abdomen, TV/Tr, Gyn, Small Parts, Musculoskeletal and vascular preset. All preset should be customized according to the user. System should operate in following Modes.

a. 2-D mode

b. M Mode

c. Pulse Wave Mode

d. Color Flow Imaging

e. Continuous wave mode

f. Color power Angio/Power Doppler Imaging.

g. Tissue Harmonic Imaging

h. Duplex & Triplex Mode simultaneously (All three modes 2D, Color& Doppler Modes simultaneously)

i. Anatomical M Mode

j. Tissue Doppler Imaging

7. The system should have

a. Dual &/Quad Split display

b. Duplex for simultaneous B mode & spectral Doppler

c. Facility of full screen imaging.
d. The system shall support full screen display of all 3D views.
e. The system should support real time acquisition and display of two image planes simultaneously with color.
f. Facility for zoom (real-time and frozen image)
g. Cine loop review facility in individual and mixed modes with memory up to minimum of 200 images or seconds.
h. The system should autofocus for color ROI.
8. All the transducers are broadband with multi frequency capability.
9. 2D fram rate should be more than 1000/s.
10. Inbuild Hard disc Memory should be 500 GB or more.
11. The system should have advanced Real Time Spatial Compounded imaging.
12. the system should have 256 gray levels with system dynamic range more than 200 db and 2 D line density 512 lines.
13. System should have 4 active Transducer ports.
14. The system should have latest high density beam former for fast and wider system application.
15. The system should have advanced wide band color Doppler imaging mode with directional in formations without blooming/ over painting for low flow application as a option.
16. The minimum imaging depth should be 30 cm for convex probe.
17. System must have minimum boot up time (for start up to scanning).
18. System must be sturdy, resistant to breakage & damage on fall/hit against the wall/hard surface.
19. System should perform well in temp range from 5-40 degree celcius & relative humidity of 30-85%
20. System should have CE or FDA(US) approval.
21. Sophisticated Ergonomics
A flexible multi joint arm supports the LCD monitor, allowing appropriate for operations in the standing or sitting posture to be achieved easily.
22. Monitor
a. LCD/LED monitor and size should be 19" (inch) or more.
b. The system shall include a minimum 9 inch LCD touch screen control.
c. The displayed images are very easy to view and their excellent visibility is relatively intensive to the brightness of the room. Also the display size and gamma level should be adjusted.
23. Console
a. The free programmable ,mode -sensitive more direct access to all basic and advance system controls.
b. Convenient transducer trays on both sides at least four in number. Basic and advanced quantification functions should be activated directly on the programmable console.
c. A alphanumeric keyboard should be available to manually enter comments or patient data.
24. Data Management
A large capacity HDD (500 GB or more) should be provided in the standard configuration ,facilitating efficient management of acquired images. Filled images can be output via the USB port

(USBmemory or USB HDD) or stored on CD/DVD by image management.	
25. Measurement and calculation	
a. Measurement should be possible on Frozen Images and image recalled from the image archive.	
b. The system should have comprehensive set of Measurements in Ob/Gyn/Carotid/lower Limb/Upper limb/Thyroid/testis/ Abdominal applications.	
26. Transducer	
Convex probe with band width of 2 MhZ to 6 MHZ or wider bandwidth.	
Linear probe with bandwidth of 4 Mhz to 11 Mhz or wider bandwidth.	
TV/TR probe with bandwidth of 4 MHz to 9 Mhz or wider bandwidth.	
27. Standard Accessories:	
a. UPS (Online UPS-2 KVA with one hour backup)	
b. Biopsy attachments for trans rectal probe.	
Attachment for Ultrasound guided puncture for PCNL .	

Group-C-Technical Specification of General orthopedics Instrument

- A. Instrument should be USFDA Certified
- B. Price should be quoted in Indian currency
- C. Price of Instrument should be valid up to 3 Year.
- D. Warranty should be cover up to 3 years.
- E. Instrument should be supply in proper sterilization S.S. box.
- F. General description of individual Instrument -

1. Mallet 500gm
2. Mallet 200gm
3. Bone Goose 5mm
4. Bone goose 10mm
5. Bone goose 15mm
6. Osteotome straight 5mm
7. Osteotome straight 10mm
8. Osteotome straight 15mm
9. Osteotome Curved 5mm
10. Osteotome Curved 10mm
11. Osteotome Curved 15mm
12. Periosteum Elevator straight 5mm
13. Periosteum Elevator straight 10mm
14. Periosteum Elevator straight 15mm
15. Periosteum Elevator Curved end 5mm
16. Periosteum Elevator Curved end 10mm
17. Bone lever Small
18. Bone lever Medium
19. Bone lever Large
20. Bone Curette straight 2mm
21. Bone Curette straight 3mm
22. Bone Curette straight 4mm
23. Bone Curette straight 5mm
24. Bone Curette curve 2mm
25. Bone Curette curve 3mm
26. Bone Curette curve 4mm
27. Bone Curette curve 5mm
28. Bone Awl
29. Bone Holding Forceps Small
30. Bone Holding Forceps Medium
31. Bone Holding Forceps Large
32. Plate Holder Small
33. Plate Holder Medium
34. Plate Holder Large
35. Bone Nibler straight double action Small
36. Bone Nibler straight double action Medium
37. Bone Nibler straight double action Large
38. Bone Nibler Curve double action Small
39. Bone Nibler Curve double action Medium

40. Bone Nibler Curve double action Large
41. Duck bill bone nibler double action Small
42. Duck bill bone nibler double action Medium
43. Duck bill bone nibler double action Large
44. Bone cutter straight double action Small
45. Bone cutter straight double action Medium
46. Bone cutter straight double action Large
47. Bone cutter Curve 900 Double Action Large
48. Bone cutter Curve C type double action Small
49. Bone cutter Curve C type double action Medium
50. Bone cutter Curve C type double action Large
51. Bone Chisel 5mm
52. Bone Chisel 10mm
53. Bone Chisel 15mm
54. T - Handle
55. Nose Plier Small
56. Heavy duty Nose Plier
57. English Plier Small
58. Heavy duty English Plier
59. Heavy duty K-wire Cutter
60. K-wire box 9"
61. Wire Twister Small
62. Wire Twister Large
63. K wire Bender
64. Heavy duty Plate Bender Lever type
65. Patella Clamp Ball tip Single prong
66. Patella Clamp Ball tip Double Prong
67. Pelvic Clamp
68. Plate Cutter
69. Titanium tip drill 2.8mm
70. Titanium tip drill 3.2mm
71. Titanium tip drill 4 mm
72. Titanium tip drill 5 mm
73. S S Wire passer
74. Hohman Retractor 6"
75. Hohman Retractor 8"
76. Hohman Retractor 10"
77. Cobra Retractor Large
78. Hohman Retractor 90 degree Medium
79. Bone Graft Impactor straight Small
80. Bone Graft Impactor straight Medium
81. Bone Graft Impactor straight Large
82. Bone Graft Impactor Curved Small
83. Bone Graft Impactor Curved Medium
84. Bone Graft Impactor Curved Large
85. Screw Remover Set
86. Kerison punch upcut 2mm
87. Kerison punch upcut 3mm
88. Kerison punch upcut 4mm
89. Penfield double ended (full set of five)

90. Dura Retractor
91. Nerve root retractor 45 degree
92. Disc Cutting forceps straight 2mm
93. Disc Cutting forceps straight 3mm
94. Disc Cutting forceps upward 2mm
95. Disc Cutting forceps upward 3mm
96. Disc Cutting forceps downward 2mm
97. Disc Cutting forceps downward 3mm
98. Self Retaining deep retractor rotating type 4 prongs
99. Metal Tip Suction canula (full set of five)
100. Cobbs Elevator
101. Seargeant Nibler
102. Probe dissector 9"
103. Proper Size of Sterilization Instrument box

Group-D-

Establishment, of Orthodontic Laboratory at Division of Orthodontic, Department of Dentistry, IGIMS, Patna - 14

Instruments required with their specifications: -

(1)- Trimmer with Carborundum disc.:

01 Specification:-

Should have 1 Horse Power, 2800 RPM Double Motor 1 H P each, Heavy Duty Equipped with two Ball Bearing each Motor, Single speed, Continuous rating with fixed On Imported 10 " Indian, Heavy Duty, Inlet- Outlet water flow system with PVC Pipe 2 meter each.

(2)- Hanging Motor -made up of recent make and safety standard fulfil as per standard norms.

Specifications: 1800 – 2500 RPM. 5- Speed foot control etc.

(3)- Model Trimmer with Diamond Disc with buff machine. :-

01

Specification:-1 HP 2800 RPM Double Motor 1 HP each, Heavy Duty Equipped with two ball bearing each motor, Single Speed, Continuous rating with fixed on E Imported 10", Polishing Stone wheel, Inlet- Outlet water flow with PVC Pipe 2 Meter each,

(4) - High speed lathe: ½ Hp 3450 RPM.

01

- (5)- **Plaster Dispenser:** - - 01
Specifications: - Electric Controlled unit for Dispensing required Quality Plaster at Steady rate with ON/OFF Control Switch.
- (6)- **Vibrator** (Heavy duty) - - 01
Specification:- Platform Size 6 inch and Speed Variable.
- (7)- **Automated Plaster mixing Machine:** - - 01
Specification: - Motor 320 RPM Mixing Investment, Plaster as well as Silicon, Built in Vibrator.
- (8)- **Mean Valve articulator:** - - 02
Specification:- Non – Arcon type, Stainless steel body, condylar path inclination 30 degree relative to occlusal plane and side length of 105 mm from the articular joint to the incisal needle, working height 100mm, Rust Proof.
- (9)- **Orthodontic Ultra sonic Cleaner machine:** - -
Specification: - Ultrasonic cleaner temp range 10-60 Degree, Centigrade, Capacity of 20 Lt., Digital timer and Inbuilt Heater.
- (10)- **Dental Model saw.** - - 03
Specification:- Super thin Saw Blades made of Stainless Steel,
- (11)- **Biostar machine unit:** - - 01
Specification: - latest make and safety protocols as per standard norms
Voltage 110/220 -50/60 HZ , power 850 W, work pressure Max 6 bar/87 psi, weight 35lbs/16 kg, Fuse (Two) 5x20mm 8 amp
For making T. M. J. Splint and other orthodontic appliances , with all accessories latest make with their accessories.
- (12)- **Micro wave curving unit (CD and RPD) :-** - 01
Specifications:- Install wave technology, Anti bacterial cavity 50 CM Wide, 35 CM. Deep, 30 CM. Tall, 500-1000 Watts, Capacity 15 lit imported 5-10 years warranty , For polymerising CD and RPD and with compatible flask.
- (13) –**Ceramic kit:** - - 01
For crown preparation and made of diamond bur is of various size and shapes.
- (14)- **SLR Camera:** -
Single lens reflex digital camera, 1.5x lens focal length (35mm format equivalent), image sensor should be 23.2x15.4 mm CMOS sensor, image size 6016x4000 (l), magnification aprox 0.8x(50mm f/1.4 lens at infinity-1.0m⁻¹, Imported Quality with 20 mega pixel with latest makes.
- (15)- **View Box:** - 2 x 2 Ft with good Illumination - 02
- (16)- **Models- Orthopaedic:** - One set each (like chin cup, headgear, class1, 11&111 etc.

(17) – **Base former for Upper and Lower jaw:** - -03 sets.

(18)- Orthodontic electro- polisher: 01

Durable stainless steel construction, an automated instrument with an automatic timer and automatic temperature control of the electrolyte with a holding device is used for electropolishing the materials with electrolyte solutions, connect unit 115-120 v outlet.

Estimated cost = 04 – 05 Lacs.

Note:

1. All the instruments and equipments should be non Chinese with good quality.
2. All the instruments and equipments with their latest specifications shall be considered.

Group-E- Saline TURP with electro – cautry

Make:

Model:

This system should be compatible with following procedures:

- Saline TUR
- Conventional TUR
- Can be used for open surgery and Laparoscopic surgery

System should have following features:

- Output mode: Monopolar, Bipolar and Saline
- Monopolar cutting and coagulation and vaporization
- Saline cutting and coagulation
- Base frequency range : 350 kHz – 450 Hz
- Protection against electric shock
- Automatic Smoke Evacuation facility.

System should include following:

- Electrosurgical Unit
- Footswitch

Telescope 30 Degree, 4mm, Autoclavable

Bipolar Passive Working Element for Transurethral resection in saline (TURIS)

Bipolar HF cable

Rotatable outer sheath, 26 Fr. , 2 stopcock

Resection inner sheath, 24 Fr

Cutting electrode – 12 pieces

Roller electrode – 12 Pieces

Needle electrode – 12 Pieces.

Button electrode for plasma vaporization – 12 pieces.
Enucleation electrode – 12 pieces.
Light Guide cable, 3.5 mm, 3 Meter.
Cystoscopy sheath, 22.5 Fr.
Cystoscopy Bridge, 2 Way
Rotatable Irrigation Port, 2 stopcocks.
Ellik Evacuator
Bipolar Forceps, Laparoscopic Bipolar and instruments used for vessel sealing.
HF Electrosurgical device compatible with bipolar enucleation& Vaporization of prostate.
Morcellator System along with suction and Morcelloscope.

Group-F

Name of the Item: SPECIFICATION OF COCHLEAR IMPLANTS

CI Specifications – Advanced model

- a. The Implant & speech Processor quoted here should be different & advanced from the one quoted in the basic Model. Features of implant
 - b. Should be small compact implant with air-tight titanium casing with silicon cover
 - c. Should have multi-channel multi-electrode implantable segment
 - d. Should have provision to choose special electrode arrays for individual patient needs at no added cost
 - e. Should be MRI compatible at 3.0 Tesla with/without removal of magnet
 - f. Should have both per-operative and post-operative electrode integrity testing facility
 - g. Should be compatible with current and all future technologies in speech processor Processor design
 - h. Should be water resistant with/without water cover
 - i. Should have latest, international standards of sound coding strategies
 - j. Should have adequate memory for storing multiple settings
 - k. Should have wide input dynamic range with automatic controls for sudden variation in too noisy and too quiet situations
 - l. Should be FM and other battery operated Assistive Listening Devices compatible
 - m. Should have remote controlled processor for better manoeuvrability and durability along with better switching between different listening situations
 - n. Should be telephone compatible
 - o. Should have option of rechargeable battery system and Zn air batteries
16. Should have fully automated speech/sound management system
17. Should have option for adaptive sound directionality Accessories and spares
18. Should be quoted with the following minimum set of accessories with warranties: A Coils and cables B Rechargeable batteries – 02 no., and charger C Clips to hold the processor in place – 02 no. D Provision to hinge the processor at different body levels E Electronic de-humidifier F Monitor ear phones G Signal check H 2 sets of spare cables I Interchangeable magnets of varying strengths Miscellaneous
19. Should provide per-operative and post-operative testing hardware and software compatible to upgraded versions
20. Should provide surgical, audiological and rehabilitative training
21. US-FDA approved Warranty
22. Should elaborate the inclusions and exclusions of warranty

23. Should quote CMC for 2 years after warranty Page 46
24. Should quote 1 year warranty for cables
25. Should have 1 year warranty for batteries and chargers
26. Should have 3 years warranty for coils and processors
27. Accessories, services and repairs should be available for at least 10 years
28. Company should have the provision of return in case of non-utilisation of the implant (personal or surgical causes)

CI Specifications – Basic model

1. Should be small compact implant with air-tight titanium casing with silicon cover
2. Should have multi-channel multi-electrode implantable segment
3. Should have provision to choose special electrode arrays for individual patient needs at no added cost
4. Should be MRI compatible at 1.5 Tesla and or above without removal of magnet
5. Should have both per-operative and post-operative electrode integrity testing facility
6. Should be compatible with current and all future technologies in speech processor
Processor design
7. Should be moisture resistant (to suit Indian conditions)
8. Should have latest, international standards of sound coding strategies
9. Should have adequate memory for storing multiple settings
10. Should have wide input dynamic range with automatic controls for sudden variation in too noisy and too quiet situations
11. Should be FM and other battery operated Assistive Listening Devices compatible
12. Should have remote controlled processor for better manoeuvrability and durability along with better switching between different listening situations
13. Should be telephone compatible
14. Should have option of rechargeable battery system and Zn air batteries Accessories and spares
15. Should be quoted with the following minimum set of accessories with warranties: A Coils and cables B Rechargeable batteries – 02 no., and charger C Clips to hold the processor in place – 02 no. D Provision to hinge the processor at different body levels E Electronic de-humidifier F Monitor ear phones G Signal check H 2 sets of spare cables I Interchangeable magnets of varying strengths Miscellaneous
16. Should provide per-operative and post-operative testing hardware and software compatible to upgraded versions
17. Should provide surgical, audiological and rehabilitative training
18. US-FDA approved Warranty
19. Should elaborate the inclusions and exclusions of warranty
20. Should quote CMC for 2 years after warranty
21. Should quote 1 year warranty for cables

22. Should have 1 year warranty for batteries and chargers
23. Should have 3 years warranty for coils and processors
24. Accessories, services and repairs should be available for at least 10 years
25. Company should have the provision of return in case of non-utilisation of the implant (personal or surgical causes)
