

BIDDING DOCUMENT

SHORT URGENT TENDER NOTICE No.: 11 / 2014 - 2015 / Mach-Equip / IGIMS / Store



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

SHORT URGENT TENDER NOTICE No.: 11 / 2014 - 2015 / Mach-Equip / IGIMS / Store

Issued to:

Cost of Document: Rs. 1, 000/- (Rs. One Thousand Only)

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 Bidding Document	10 / 10 / 2014 up to 3:30 P.M. by registered/speed post/ Courier only
Date of opening of the Technical bid	11 / 10 / 2014 at 11:30 P.M. in the Conference Hall of the Institute.
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)**

Sl. 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.**

**(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 is
connection 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
initialed.
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 security money
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 (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 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 five nos. 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 have quoted their rates 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 technical bid)		
20.	Acceptance of all terms / conditions towards after sales / services as mentioned in the bidding document. (Clause No. – 13 of “Instruction to Bidder” & Clauses 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.		

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 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-mentioned 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 be prepared with all the required documents to avoid rejection of offer.

(Name of the Bidder with signature & seal)

ELIGIBILITY CRITERIA

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.
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.
 - (a) The manufacturer should have completed atleast ten nos. installations of the quoted items (or similar equipment meeting major specification parameter) 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.
 - (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 five nos. installations of the quoted items (or similar equipment meeting major specification parameter) 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.
04. The Bidder should be public undertaking / Autonomous Body /Public Ltd. / Pvt Ltd. Company or proprietary firm and should be in medical equipment business since last five years in India. The Bidder 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. 25 Lakhs** during the last three years ends 31st march 2014.
06. Bidders who have the capability to attend repairs of the equipments 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 who 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.
- 08.. Firm / company who have withdrawn after participating in any of the previous tenders of Indira Gandhi Institute of Medical Sciences – Patna are not eligible to participate in this tender.

Note:

- Notwithstanding anything stated above, the Institute reserves the right to assess the Bidder's capability and capacity to perform the contract satisfactory 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 contain only the 'Price Bid Form' duly filled in the prescribed Performa (Annexure - I) and Comprehensive Annual Maintenance Contract offer in prescribed format (Annexure – II). Price Bid not submitted in the prescribed performa will not be considered for evaluation and summarily rejected.

2. The tender offers, duly filled, shall be submitted in two separate sealed covers separately for **technical and price bids** respectively. 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)”** or **“Tender No..... (here mention the tender no as specified) PRICE BID for supply of(here mention the name of the equipment)”** as the case may be. Both the sealed covers shall be enclosed in another sealed (third) bigger cover which should also be super scribed as **“Tender No..... (here mention the tender no as specified) TENDER 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.
4. The Bidding Documents along with terms and conditions, technical specification can be obtained from the office of the Store Officer, I.G.I.M.S. – Patna on payment of **Rs.1, 000/- (Rs. One Thousand only, Non -Refundable) for each GROUP** either by cash or demand draft favoring Director, I.G.I.M.S. - Patna payable at Patna
5. The **“Bidding Document”** can also be downloaded from **institute website www.igims.org**. In case, downloaded bidding document is used, bidder(s) have to submit the cost of the Tender Document along with the completed documents in the form of Demand Draft in favour of Director, I.G.I.M.S. – Patna payable at Patna towards cost of the **“Tender documents”**. Firm is required to attach separate D.D. for the same in a separate envelope super scribed with **“Cost of Bidding Document”**. If the cost of tender document is not submitted by the bidder(s), his offer shall be outright rejected and returned.

6. Bidding document can be downloaded from Institute Website www.igims.org.
7. Last date for submission of bidding document 10 / 10 / 2014 up to 4:00 P.M. by registered post / speed post/ Courier only. Bidder(s) are requested to send the bid well in advance so as to ensure that bid reaches in time. Institute will not be responsible for any postal delay. **Bids received after due date and time shall be summarily rejected.**
8. **Earnest Money Deposit (EMD):**
 - a. **Earnest Money @ 2%** of the cost of equipment is required to be submitted along with tender by D.D./ Bank Guarantee from any scheduled Indian Bank (valid up to one year from the date of technical bids opening) 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 and its validity period be made with technical bids 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. of Bihar 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.
 - i. The successful Bidder's EMD will be discharged upon the Bidders signing the contract and furnishing the performance security. The EMD 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. Supply order (Minimum five nos. or more issued by Govt./Semi Govt./Reputed Pvt. Institutions/organization for the quoted items.(same model)
 - c. 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.
 - d. Prerequisite (if any) for installation of the Machine if any to be provided by the Institute.
 - e. 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 (Manufactured/ 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.
 - f. Bidder must submit a compliance checklist along with the technical bid itself.
 - g. Any tender offer without submission of above mentioned document (i.e. a to e) shall be rejected during technical scrutiny.
 - h. 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 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 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.
- 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 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 Bidder 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. 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.	Delivery period & Installation	08 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 48 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 in newspaper and on institute website www.igims.org 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).

**Director,
I.G.I.M.S.- Patna**

CONDITIONS OF THE CONTRACT

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. 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 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 warrantee/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:-.

$$\begin{aligned} 1 \text{ Year} &= 365 \text{ days} \\ 95\% \text{ of } 365 \text{ days} &= 347 \text{ Days per annum} \end{aligned}$$

- 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 make 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 been 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.
- a. 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.

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.
 - i. 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.
- b. 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 interalia, 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).

**Director,
IGIMS - Patna**

CHAPTER:

Schedule of the Requirement.

SCHEDULE OF THE REQUIREMENT.

Sl. No.	Name of the equipment	Qty.
1.	Anesthesia Work Station	
2.	O. T. Table	
3.	O. T. Light	
4.	Multi Para Monitor	
5.	Cardiac Monitor with Defibrillator	
6.	Labour Table	
7.	Neuro Surgical Instruments	
8.	Pediatric Surgical Instruments	
9.	Orthopedics Surgical Instruments	
10.	Gynecological Surgical Instruments	
11.	Syringe Infusion Pump	
12.	Radiant Warmer	
13.	Equipments / Instruments for Obs. & Gyane Department	
14.	Arthoscopy System	
15.	Dental Chair	

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.	Packin g 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)					
scheduled	Brief description of goods Make: Model:	Country of origin	Qty. nos.	FOB price at port/Airport of lading (a)	Carriage & Insurance (port of loading to port of entry) and other incidental cost . (b)	Incidental Services (Including Installation & Commissioning, supervision , Demonstration 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 . (d)	Unit Price on CIP Named port of Destination + Extended Insurance (Local Transportation and storage) (e_)	Total Price on CIP Named Port of Destination + Insurance (Local Transportation and storage) 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.

ANNEXURE - III
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 contract 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 contract 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 contract;

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 or 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 : _____

SPECIFICATION AND ALLIED TECHNICAL DETAILS

Sl. No.	Name of the Equipment	Technical Specifications
1.	Anesthesia Work Station	<p>The Anaesthesia work station system, duly CE marked, FDA, etc. Should consist of:</p> <p>A. Anaesthesia machine with vaporizers. B. Close Circuit.</p> <p><u>Anaesthesia machine with vaporizers:</u></p> <ol style="list-style-type: none"> 1. Rigid construction and design with standard frame mounted on antistatic twin castor wheels with front brakes and full length side rails on both sides of the table to facilitate mounting of accessories. 2. Three spacious drawers, integrated suction (venture operated), auxiliary Oxygen flowmeter for mask O2 delivery without going through the main rotamerter, integrated active AGS system and integrated Indicator should be supplied. Provision of extra jet outlet 3. Provision to connect oxygen, air & nitrous oxide directly to system with pipeline supply for each gas. (suitable connectors and Pipes to be Provided) 4. The system should have minimum 2 Hrs. Battery backup. 5. The machine should have pressure gauges for cylinders and central supply lines mounted on front of Anaesthesia machine for better visibility. The gas connections should be non- interchangeable. 6. Automatic cutoff on N2O by Oxygen pressure failure. 7. Hypoxic guard for linear regulation of minimum oxygen concentration at 21% volume and must ensure a minimum Oxygen flow of 200 ml at low fresh gas flow setting even below total 500 ml fresh gas flow. 8. Audible & visual oxygen failure alarm. 9. Emergency Oxygen flush at 20 – 75 L/min by passing the vaporizer. 10. Oxygen flush, which is able to deliver at least 20 -75 liters per minute of Oxygen 11. Single canister integrated circle absorber with unidirectional and airway pressure relief valves, integrated sensing mechanism. It should have facility for changing the sodalime inter operatively with sodalime capacity of about 900 gms. 12. Fully integrated circle absorber system for adult as well as pediatric patient category. It should have an autoclavable base block and should have canister approx. 1.5 ltr. 13. Anaesthesia ventilator with latest attachment for pediatric and adult latest version. 14. Adjustable high / low limits with audio and visual alarms for following parameters. <ul style="list-style-type: none"> - Minute volume, - Airway pressure (incl stenosis and disconnect) - Insp oxygen concentration, - Audio power supply fail alarm, - Fail to cycle warning. 15. It should have a spirometry sensor position able at Y or at the distal end, for measurement of I /E Tidal volume, minimum volume, loops and scalars etc. 16. It should have an integrated colour TFT screen monitor for display of ventilation parameters etc. + Et CO2 /Airway Pr/ RR/FiO2 17. <u>Vaporizer:-</u> <ul style="list-style-type: none"> - Provision to connect two vaporizers at a time with interlocking facility. One isoflurane /flow should be temperature, and pressure compensated and maintenance free for a min of 10 years. - Should be provided with a Temperature / Pressure compensated and flow independent Vaporizer for Isoflurane & Sevoflurane and Halothane (any of the two). - Vaporizer should have extended delivery range from 0 to 6 Vol.% The vaporizer design should be maintenance free. 18. <u>Mention</u> <ul style="list-style-type: none"> - Safety standards - Battery backup - Pediatric /adult - Standard Accessories - Optional Accessories - <u>Scope of supply</u> - 3 gas Anaesthesia machine

		<ul style="list-style-type: none"> - Trolley with 3 drawers + on top plat form - Writing surface - Pin Index yokes for O2 & N2O + Air - Pipeline connections for all three gases - Ventilator & monitor - Semi closed breathing system - Adult & Peadiatric autoclavable patient tubings - Anaesthetic mask size – Adult & Sevofloruane & Halothene - Central gas supply hoses (color coded) - Instructed for use <p>Facility to attach any compatible multiparameter monitor to the anaesthesia work station (for this, on top platform.)</p> <p><u>Multi Parameter Vital Signs Monitor</u></p> <p>Description of Equipment</p> <ul style="list-style-type: none"> • It should be of 12” to 17” active matrix color screen atleast 6 waveforms. • Should have ECG, SPO2, NIBP, TEMP RESP, ETCO2 and IBP’s parameter. • Should have Multi- lead (5)ECG with St Segment analysis & Basic Arrthmia detection software. Slandered lead configuration : I,II,III, AVR, AVF or V. • Full lead selector with right leg drive . • It should have Masimo SET motion proof SpO2 technology reduce false alarms and provide pluse saturation values at low perfusion. • Plethysmogratic display should be up-gradable foreasy software upgrades and enhancements. • Should have Recorder (Specify types of recorders.) • Should have double hose for NIBP for faster, accurate Non- invasive blood pressure reading. • Should have pluse Oximeter prove for adult and paediatric patients. • Should have NIBP cuff for Adult and Peadiatric Patients. • It should store 24 hours of tubular and gtraphical trends. <ul style="list-style-type: none"> - Mention safety standards. - Flexible, automatic recording of BP. 																
2.	O. T. Table	<p>Remote controlled electro operation table can also be used for general surgeries like Gynaec, Urology, Endoscopy, etc. They should be made from high grade material and sophisticated technology.</p> <p>Special Features</p> <ul style="list-style-type: none"> • Compatible with 'C' - Arm image intensifier • Can also be used for general surgeries like Gynaec, Urology, Endoscopy, etc • Totally maintenance free • More safety for the patients • Gynae and obs attachments <p>Technical Data</p> <table border="1" data-bbox="561 1645 1520 2001"> <tr> <td>Table top length</td> <td>180 to 195</td> </tr> <tr> <td>Width of the table top</td> <td>50 cm.</td> </tr> <tr> <td>Minimum Height</td> <td>75 ± 5 cm</td> </tr> <tr> <td>Maximum Height</td> <td>95 ± 5 cm</td> </tr> <tr> <td>Lateral tilt</td> <td>20o± 2o</td> </tr> <tr> <td>Flex & Reflex</td> <td>2200</td> </tr> <tr> <td>Lateral tilt</td> <td>45o± 3o</td> </tr> <tr> <td>Lateral tilt</td> <td>90o</td> </tr> </table>	Table top length	180 to 195	Width of the table top	50 cm.	Minimum Height	75 ± 5 cm	Maximum Height	95 ± 5 cm	Lateral tilt	20o± 2o	Flex & Reflex	2200	Lateral tilt	45o± 3o	Lateral tilt	90o
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3.	O. T. Light	<p>Standard Single Dome LED O. T. Light</p> <ul style="list-style-type: none"> • Central Illuminance – Min 1, 00, 000 LUX at 1m (max). This illumination may be achieved with minimum bulbs. • LED Life – minimum 50, 000 Hours. • Colour Temperature – 3700 – 5000 K • Full Spectrum CRI – minimum 95 Ra • Illumination Depth – 100 Cm. • Focusing Area – 8” – 16” diameter • Increase in temperature near surgeon’s head area - < 2 Degree C • Power Supply: 12V/25 Amp. 										
4.	MULTI PARAMETER MONITOR	<ul style="list-style-type: none"> • Patient monitor system should be of modular type and capable of monitoring adult, pediatric neonatal patients. • Monitor should have 15” or more independent flat panel display. • Touch screen user interface. • Module rack / housing should be independent and shall be able to be placed near to the patient. • Should be capable of 8 traces display. • Monitor must be capable of simultaneously monitoring the following parameters which should be present as standard: ECG, NIBP, SpO2, invasive pressures (4), temperatures (2), and Capnography. • Should be compatible with Cardiac output, EEG, and BIS. • ECG should have capability for 3, 5 and / or 10 lead monitoring and should have built in arrhythmia monitoring on all leads. • Inbuilt ST segment analysis and arrhythmia detection for all the leads should be possible. • Haemodynamic and drug dose calculations should be available. • Arrhythmia should be grouped based on classifications – and should show no of arrhythmias occurred. • Respiration should be available with Cardio Vascular Artifact filter. • OCRG should be available for monitoring neonates. • ICP monitoring should be possible. • Alarm parameter should flash red in the presence of high priority alarms (e.g. ventricular fibrillation and a systole) and flash yellow in the presence of medium or low priority alarms (e.g. noisy signal, etc.) • 24 hours trend data should be displayed. • All monitors including central station should have similar user interface for easy usage among all clinicians. • Monitor shall provide the capability to interact with alarms at remote bedsides. • Monitor shall provide the capability to receive and display real-time waveforms, trended data and alarm status from other bedside or telemetry units on the patient monitoring network. • Monitor shall provide the capability enter patient information at the bedside or central monitor. • On-screen keyboard for entering this data is preferable. Should have USB ports to connect mouse, key board, bar code scanner. • Alarm limit status (ON/OFF) must be indicated on-screen for each parameter and actual parameter alarm settings must be displayed on-screen when alarms are on. • Position of the displayed waveforms must be user configurable. • Waveform color changing should be user configurable. • Monitor shall permit the optional ability to receive and display information from other patient devices such as ventilators, infusion pumps and other standalone devices. 										

		<ul style="list-style-type: none"> • All modules should be compatible with all monitors quoted. • Bed to bed communication between the monitors should be possible with out a central station. • Networking to central station should be possible. • Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure. • Should be compatible with HIS and should be HL7 compliant. • Monitor should have capability to accommodate remote viewing of real time waveforms through internet. • Patient monitoring network shall be able to support up to 1,000 monitoring nodes. • Should be supplied with necessary accessories for adult, pediatric and neonatal accessories. • Should have European CE or US FDA certifications. <p style="text-align: center;">Accessories and spares</p> <ol style="list-style-type: none"> 1. ECG / respiration: 5 lead ECG cable and lead wire set and 10 lead ECG cable and lead wire set per monitor 2. NIBP: Adult: 2 sizes and Pediatric 2 sizes and neonatal, 1 size per monitor 3. SPO2 Sensor: Adult sensor with cable, pediatric sensor with cable and neonatal sensor with cable per monitor 4. IBP: Include 10 nos of disposable pressure transducer with bracket and interface cable per monitor 5. Temperature: Skin and nasopharyngeal probes per monitor. 6. BIS: 25 nos of disposable sensors per monitor <p>Central Monitoring Station for Multi Para Monitor</p> <ul style="list-style-type: none"> • System should have minimum 16 beds capability. • Central station should have 17" color display. • Should have drug dose and hemodynamic calculations. • It should have possible to view information such as vital signs, alarm status, arrhythmia analysis, trended parameters, patient data etc for any selected bed from the central station. • Should have separate computer keyboard and 4 channel thermal array recorder. • Should have default alarm limits and customizable parameter settings. • Central station should have full bed review capability. • Central station should be able to be configured as a bedside monitor if required. • Should have 24 hours trends. • Should have capability for HL7 interface. Should be capable of monitoring telemetry modules. • All system should have European CE or US FDA certifications. • Should be supplied with a On-line suitable UPS
5.	CARDIAC MONITOR WITH DEFIBRILATOR	<ul style="list-style-type: none"> • Compact, portable and easy to use • Light weight. • Biphasic • Waveform Display • External energy selection from 2 J to 200 J, biphasic • Charging time less than 8 seconds @ 200 J (with a charged battery) • Synchronizer and cardio version • Unique disarm button (in addition to automatic time delay) • Should come with High resolution monitor. • Should come with 3 lead ECG than can be measured from cables, hard adult external paddles, paediatric adapters, disposable multipurpose defibrillator/pacing/ECG paddles. • Respiration: Measured from ECG • Heart rate: 20 to 300 BPM with user selectable alarms. • Should come with external pacing, demand and asynchronous modes • Should be capable of display CPR in real time • Should have large internal memory that stores and prints 25 ECG events. • Long lasting sealed lead acid Ni-Cd battery: not less than 2 hours of continuous ECG monitoring or 60 full energy discharges. • Battery indicator on display and self test on battery

		<ul style="list-style-type: none"> • Should have European CE or FDA certifications <p style="text-align: center;">Accessories needed</p> <ul style="list-style-type: none"> • Paddles with remote energy selection, charge and discharge buttons on paddles. • Pediatric paddles adapters (set of 2) • Integral A/c 240 V 50 Hz charger and mains power source. Adult paddles and test paddles. • 3 lead patient cable • One spare battery • Roll of 50mm recording paper x 10 rolls • 5 oz tube of defibrillation gel x 5 tubes • ECG cable with leads. • External Disposable pacing pads • Operation manual, service manual complete. 																																																																														
6.	Labour Table	<ul style="list-style-type: none"> • Dimension 72” x 27” x 30” approximately • Stainless Steel top in three sections. • Trendlen burg position adjustment • Leg support adjustable with screw • Hand support • Drip stand (adjustable with screw) 																																																																														
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40	Langerbacks Retractor-215 mm-BG-475-01-J
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42	Lengerbacks Retractor-DG-475-03-N
43	Mcindoes Dessecting -HA-040-01-B
44	Micntoes Scissor-CVD-19 mm-HB-160-01-B
45	Metzhrbaum Scissor Curved-ON-BB-170-41-S
46	Meindoes Sessection-HA-040-01-B
47	Metzerbaum Scissor Curved-ON-BB-170-41-S
48	Meindoes Scissor CVD-191 mm-HB-160-01-B
49	Mcindoes Dessecting Forcep-150 mm-HA-040-01-B
50	Mcindoes Scissor- CVD- 191 mm-HB-160-01-B
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52	Payrs Intestinal Clamp-280 mm-CB-219-02-D
53	Straight Iris Scissor-KC-530-25-G
54	Straight Iris Scissor-KC-530-25-G
55	Suture Holding Forcep-102 mm-KC-490-02-U
56	Straight Scissor Sharp-100 mm-HB-130-01-K
57	Treves Dissecting Forcep-BE-010-01-N
58	Ultra Fine Halstead Mosquito -BA-100-02-1
59	Ultra Fine Halstead Mosquito-BA-100-01-J
60	Volkmans Scoop Double Ended-SM- GT-930-01-L
61	Weislanders Reflector-BG-335-01-F
62	Weislanders Retractor-165 mm-BG-02-H
63	Yanbauers Suction Tube-305 mm-CC-010-G
64	Kilers Needl Holder-130 mm-BC-135-02-P
65	Mayo Scissor Straight-140 mm-BB-110-01-W
66	Curved Iris Scissor-KC-530-26-T
67	Kocher Artery Forceps-BA-600-01-R
68	Hudson Bracs Set of -06-Assorted Burs with perforator -12 mm-TD-21 mm-Stainless Steel
69	Extension Pice for Hudson Brace
70	Skull Triphine Size-1.3/4"-Dia.
71	Skull Triphine Size-9"-Dia
72	Burrs Perforator Assorted
73	Con Scalp Retractor Hinged Arms-6. ½ "H/A
74	Cone Scalp Retractor Laminrtomy-H/A-Size-10. ½ " Long
75	Cone Scalp Laminectomy Retractor-H/A-11. ½ "-Long
76	Cairn Retractor S.R. Hip Wall to Wall- 7"
77	Crain 3 Furogs Retractor-Size- 8" long-SS
78	Brain Malliable Brain Sptula Set of (Six)-06
79	Luer Jense Bone Nibuuler C/A- Size-10"-SS
80	North Field Bone Nibbler-ST-9"-C/A
81	Moistoid Retractor Small-SRT & Left-S/R
82	Gigli Saw Wire Imported
83	Gigli Saw Wire Indian-Make
84	Gigli Saw handle Pair
85	Gigli SawGuide -SS
86	VeticularBrainCanula Assorted
87	Suction Canula Set of (Four)-04-Assorted
88	Micro Suiction Tip-SS-Fine
89	Adson ForcepToothed-Size-5"-SS
90	Bunney Baker Pariosteel Elivator-SS
91	Shunt Introducer Adult & Paediatric (Trigular)
92	Dual Hook fine Shap-SS
93	Jaonson S.R. Retractor-Long Size-
94	Garden Wall Traction Tongs-SS
95	Brain Forcep-Size-7"-SS
96	Allis Tissue Forcep-06"
97	Towel Forcep-Size-4 ½ " -Long-SS
98	Towel Clip Crossection Type-SS
99	Mosquito forcep St & CD-Size-5"-SS
100	Fine Curved Scissor- 4 ½ " -SS
101	Matzubaum Scissor Curved-Size-06"-Long
102	Dissecting Forcep Bayonet -Size-07"-Long
103	Instrument Strizer with Prforated Holes 2 or Nibbliser Punch-SS
104	Macdonald Dissector Double Ended-SS
105	Needle Holder Size- 05"-Long-SS

106	Needle Holder Size-08"-Long-SS
107	Stainless Steel Reel-No. 22
108	Dandy Artery Forcep-Size-06"-Long
109	Laminectomy Retractor-H/A-Size-13 1/2"-Long
110	Laminectomy Retractor-H/A-Size- 11 1/2"-Long
111	Cerebellar Retractor Deep Blade- 08 1/2"-Long
112	Laksall Bone Ronger Double Action- 10"-Long
113	Notthfield Russian Bone Ronger-10"-Long
114	Khiern Bone Roger-D/A-Size-1)-10"-Long
115	Swldish Pattern Shear Diuble Action- SS
116	Disc Forceps -03 Shape ST. Up/Down Ward
117	Sphenoid Punch 2.5 mm-Up/Down Ward-SS
118	Panney Baker Pariosteal Elevator-SS
119	Paristeal Elevator Oosteotome-SS
120	Neuro Dissector Double Ended
121	Adision Disecting Forcep-Size-07"Long-SS
122	Cushing Forceps Bayonet Sahpe-SS
123	Dural Scissor-Size-06"-Long-SS
124	Dural Hook Sharap Fine
125	Disc Scoop with Fiber Handel
126	Nerve Root Retractor Assorted
127	Develbis Skull Channaling Craniail Punch
128	Micro Biopsy Punch-Size-7"-Long-Shoft
129	Bone Drill Univsal with Open Air System
130	Drill Bite Assorted Size
131	Micro Scissor Bayonet Shape Sown Make-SS
132	Micro Needle Holder with Catch-SS
133	Micro Tummer Knief Fine-1.5 mm
134	Micro Neuro Hook Blunt -Size- 09"-Long
135	Micro Forceps- 1x2 Tooth

Neuro Surgical Instruments Set - II

Sl. No.	Name of item	Size
01.	Sponge holder, straight	Length 9"
02.	Towel clip	4" & 6"
03.	B. P. Handle	No. 3, 4, 7,
04.	Retractor, self retaining,	7", Blade 1"
05.	Needle Holder	6", 8" (Golden Handle)
06.	Needle Holder, micro straight	
07.	Periosteal elevator	Thumb length 6", width 4mm
08.	Penfield dissector set of five	
09.	Forcep bayonate plain,	Length 7" (adson)
10.	Forcep dissecting (dura) plain	Length 5"
11.	Forcep dissecting (dura) tooth	Length 5"
12.	Forcep dissecting thumb tooth	Length 6", tip 2.5 mm
13.	Forcep dissecting thumb plain	Length 6", tip 2.5 mm
14.	Bone nibbler curve	Length 9"
15.	Bone nibbler straight	Length 9"
16.	Bone nibbler small curve	Length 6"
17.	Suction tip	Length 110mm, dia. 1,2,3,4,5mm
18.	Scissors fine, dissecting curve	Length 7" (golden Handle)
19.	Scissors- micro, bayonate,	Length (working 3.5")
20.	Scissors mayo straight,	Length 7"
21.	Scissors dura	Length 6"
22.	Hudson brace	
23.	Trephine	Dia 2", 1 1/2", 1"
24.	Extension	
25.	H.B. Burr dia	(conical 13, 16mm)
26.	H.B. Burr dia	(spherical 16, 19, 22mm)
27.	Perforator	(12, 15mm)
28.	Gigli saw conductor	14"
29.	Gigli handle	
30.	Gigli wire	Length 16"
31.	Dura hook	Length 5"
32.	Micro Raspatory angled	Length 7"

33.	Exploration and coagulation hook	Length 9"
34.	Retractor fish (dura)	Length 7"
35.	Kerrison punch upcutt	Length 7", angle 130Degree tip 4mm
36.	Ventricular cannula,	Dia 3mm, length 4"
37.	Ventricular cannula	No. 18
38.	Kidney tray	
39.	Forcep bayonate tumour grasping,	Length 8", dia 3mm, dia 5mm
40.	Forceps artery Dandy	Length 5.5"
41.	Forcep artery Mosquito curve	Length 5"
42.	Leyla self retaining retractor (table attachment, rod, base, snake, handle joint, flat joint)	
43.	Spatula handle,	Length 6", width 14mm
44.	Spatula flat,	Length 7", width 14mm
45.	Ball point probe assorted	
46.	Container, flaps partition, silicon pad	
47.	Wire Basket & flap, partition	
48.	Retractor self retaining	Length 4"
49.	Venesection cannula	No. 20
50.	Forcep artery straight mosquito	Length 5"
51.	Retractor lanngenback	(28x14mm)
52.	Shunt pastor	
53.	Retractor self retaining Hinge sumi sharp	Length 12" 13"
54.	Retractor love nerve straight	Length 9"
55.	Retractor love nerve right angle	Length 9"
56.	Retractor love nerve root angle	Length 9"
57.	Metal oestotome	Length 8"
58.	Spine (Bone) cutter	Length 11"
59.	Hammer (metallic)	
60.	Disc rongeur	Length 6", width 4mm straight, upward, downward.
61.	Ring curette straight	Length 10"
62.	Ring curette angled	Length 10"
63.	Needle holder heavy	Length 8"
64.	Kerrison punch upends	Length 7" angle 130 Degree, tip 3mm, tip 5mm
65.	Wire twister	Length 8", tip 10mm
66.	Tip	10mm
67.	LP Set Container	
68.	LP needle 18 FD 20FG	
69.	Microscope bulb.	
70.	Forceps tooth and plain	
71.	Mosquito Artery Forceps.	

Neuro Surgical Instruments Set - III

01	Muller Microscissors Curved 120 mm ,145 mm
02	Muller Microscissors Curved Ball at tip on one side 120 mm
03	Microscissors Vannos Straight 85 mm, 75 mm 125-Curved 105 mm 85 mm, Angled 85 mm
04	Microscissors with flat handles with cross serration
05	Microscissors with flat handles with cross serration Straight 185 mm Curved 185 mm Laterally angled
06	Microscissors with with round handle Straight 145 mm, 230mm Curved 145 mm
07	Micro needle handle with duro grip 120mm, 145 mm 180 mm 215 mm 230mm
08	Micro Suture tying forcep with round tip 120mm 150 mm 180 mm

09	Micro forceps with round handle with round tip 150 mm 180 mm
10	Micro nerve and vessel hook with round handle 200 mm
11	Yasargil Microscissors straight 200 mm, Bayonet shape with upward curve 200 mm Down ward Curve 200 mm
12	Yasargil Microscissors Bayonet shaped 180mm,200mm,220mm,240mm
13	Yasargil tumor forceps 3mm/5mm
14	Micro needle holder with round handle 0.5mm,0.9mm/180mm
15	Probe with ball tip
16	Krayenbuhl nerve vessel hook
17	Micro Dissector 185mm, 215mm
18	Micro vascular knife (K00S) 185mm Upward curve Downward curve
19	Assortment of Samii knives for tumor 200mm,230mm/ 1.0mm, 2.0mm,3.0mm, 5mm.
20	Micro Dissector/ Suture pusher Curved Down ward curve Up ward curve
21	Micro raspatory (yasargil) curved down ward curved Curved upward
22	Yasorgil Micro scoop
23	Assortment of Aneurysm clip with clip Applicator Yasargil Suzuki
24	Assortment of Oppel instruments for Acoustic Neurinoma
24	Cushing Landolt speculum for transphnoidal Hypophysectomy
25	Nasal Speculum
26	Assortment of currete , raspatory, Blunt Hook and Dissector for Trans sphenoidal Surgery.
27	Casper speculum for Transphenoidal Hypophysectomy
28	Fahlbusch Scissors with tubular shaft
29	Caspar Scissors, Curved turnable 360
30	Assortment Landolt Suction Canula for Hyphophysectomy
31	Ranney Clips with Ranney clip Applicator
32	Dandy scalp flap Forceps side way curved 140 mm
33	Hudson Hand Drill complete set containing Brace , Cerebellar attachment,with assortment of Perforator and Burr
34	Dura Scissors Schmidt Taylor
35	Dissector with Flexible Shaft Yasargil
36	Dissector Penfield 175, 195 mm/No 1,2,3,4,5
37	Freer Dissector Blunt, Sharp
38	Leyela with self retaining retractor with Fixation to operating table with retractor.
39	Self Retaining Retractor Weitlander 135 mm, 165 mm
40	Self Retaining Cerebellar Retractor Anderson Adson 190mm
41	Self Retaining Cerebellar Retractor Norflok and Norwich 190mm
42	Self Retaining Laminectomy Retractors Beckman Adson 280 mm Beckman Adson 310 mm Harvey jackson280 mm Adson 280mm, 320 mm
43	Self Retaining Laminectomy with Ball snap system.
44	Set of Cloward Retractors for cervical spine
45	Appfelbaum Instruments for Cervical Laminectomy
46	Cloward Lamina Retractor
47	Casper ligament and Muscle Dissector
48	Assortment of Casper Instruments for Anterior Cervical Dissectomy andAnterior Cervical Fixation

		49	Sypert Kerrisson Bone Rongeur 40 Deg upward cutting jaw 1mm, 2mm, 3mm ,4mm, 5mm/ 250 mm shaft																																													
		50	Love Gruenwald Disc Forceps.																																													
		51	Sypert Bone Rongeur																																													
		52	Casper Disc Forceps																																													
		53	Bone Rongeur Ruskin Lempert Leksell –Stille Echlin Fry khol Stille Ruskin																																													
		54	Elevators, Gouges, Ostetome, Bone Currette Langenback, Volkman , Key																																													
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		Babcock's clamps	
9. Pediatric Surgical Instruments	01	Artery forceps Small Medium Large	
	02	Scissors: Suture Cutting Fist – Medium, Small Straight; ,Medium ,Small	
	03	Intestinal Clamp: Newborn Paediatric Straight & curved	
	04	Babcock: Small Medium Large	
	05	Alice forceps	
	06	Plain Adcep forceps :	
	07	Toothed forceps : Small Medium	
	08	Debakeye's forceps	
	09	Langeneback Retractor Small Medium blade	
	10	Cat's paw retractor	
	11	Deevar retractor Large Medium	
	12	Straight artery forceps Small Medium Large	
	13	Finochietto: Newborn Paedia	
	14	Right angle forceps Small Medium Large	
	15	Scalpel handle : sIZE 1 2 3	
	16	Needle holder (Golden handle) Small Medium Large	
	17	Towel Clip	
	18	Sponge holding forceps(Std.)	
	19	Kocher's clamp (Curved size), Straight	
	20	Denis Brown Ring Retractor : Small & Medium	
	21	Mastoid Self retaining Retractor : Large Medium Small	
	22	Straight arday forcps	

10.	Orthopedics Surgical Instruments	<p>Ortho. Surgery set</p> <table border="1" data-bbox="558 415 1446 1484"> <thead> <tr> <th>Particulars</th> <th>Qty</th> </tr> </thead> <tbody> <tr><td>Instrument container</td><td>01</td></tr> <tr><td>Foerster Sponge Forceps 25.5 cm</td><td>02</td></tr> <tr><td>B P Handle No 3,4</td><td>02</td></tr> <tr><td>Forceps dissecting Thumb Tooth Length 6", Tip 2.5mm</td><td>01</td></tr> <tr><td>Forceps dissecting Thumb Plain Length 6", Tip 2.5mm</td><td>01</td></tr> <tr><td>Forceps dissecting Tooth Length 5"</td><td>01</td></tr> <tr><td>Forceps dissecting Plain Length 5"</td><td>01</td></tr> <tr><td>Gooze curve, small, medium, large</td><td>03</td></tr> <tr><td>Periosteum elevator, small, medium</td><td>02</td></tr> <tr><td>Osteotome, small, medium, large</td><td>03</td></tr> <tr><td>T- handle with chuck</td><td>01</td></tr> <tr><td>Hand drill machine</td><td>01</td></tr> <tr><td>Bone Holding forceps in pair small, medium, large</td><td>06</td></tr> <tr><td>Bone leaver, cobra head, small, medium, large (in pair)</td><td>06</td></tr> <tr><td>Hammer (5lb)</td><td>01</td></tr> <tr><td>Bone nibbler, Straight 9", curve 9"</td><td>02</td></tr> <tr><td>Bone nibbler Curve 6", straight 6"</td><td>02</td></tr> <tr><td>Bone plair</td><td>01</td></tr> <tr><td>Wire twister</td><td>01</td></tr> <tr><td>K - Wire cutter</td><td>01</td></tr> <tr><td>Ellise forceps</td><td>06</td></tr> <tr><td>Bone curette, small, medium, large</td><td>03</td></tr> <tr><td>Dissecting Scissor fine curve (Golden handle)</td><td>02</td></tr> <tr><td>Needle Holder Heavy Length 8"</td><td>01</td></tr> <tr><td>Needle Holder Heavy Length 6"</td><td>01</td></tr> <tr><td>Lagen bag retractor, small, medium (in pair)</td><td>04</td></tr> <tr><td>Scissor Straight Length 7"</td><td>01</td></tr> <tr><td>Dissecting Fine scissor curve</td><td>01</td></tr> <tr><td>Scissor straight</td><td>01</td></tr> <tr><td>Artery forceps curve Large</td><td>06</td></tr> <tr><td>Artery forceps curve Mosquito</td><td>06</td></tr> <tr><td>Koshers Straight 9"</td><td>02</td></tr> </tbody> </table> <p><u>Dressing Kit</u></p> <p>Mayo Scissors 14cm Straight TC Dissecting Scissors 14cm Sharp/Blunt Lister Bandage Scissors 15cm Spencer Stitch Scissors 11cm Foerster Sponge Forceps 25.5cm Dressing Forceps 16cm 02 Pcs Dressing Forceps 1:2 16cm 02 Pcs Kelly Forceps 14cm Straight Adson Forceps 12cm Lotion Bowl 04 Oz Kidney Dish 08" Needle Holder small, Heavy -2 B. P. Handle, small, Large-2</p>	Particulars	Qty	Instrument container	01	Foerster Sponge Forceps 25.5 cm	02	B P Handle No 3,4	02	Forceps dissecting Thumb Tooth Length 6", Tip 2.5mm	01	Forceps dissecting Thumb Plain Length 6", Tip 2.5mm	01	Forceps dissecting Tooth Length 5"	01	Forceps dissecting Plain Length 5"	01	Gooze curve, small, medium, large	03	Periosteum elevator, small, medium	02	Osteotome, small, medium, large	03	T- handle with chuck	01	Hand drill machine	01	Bone Holding forceps in pair small, medium, large	06	Bone leaver, cobra head, small, medium, large (in pair)	06	Hammer (5lb)	01	Bone nibbler, Straight 9", curve 9"	02	Bone nibbler Curve 6", straight 6"	02	Bone plair	01	Wire twister	01	K - Wire cutter	01	Ellise forceps	06	Bone curette, small, medium, large	03	Dissecting Scissor fine curve (Golden handle)	02	Needle Holder Heavy Length 8"	01	Needle Holder Heavy Length 6"	01	Lagen bag retractor, small, medium (in pair)	04	Scissor Straight Length 7"	01	Dissecting Fine scissor curve	01	Scissor straight	01	Artery forceps curve Large	06	Artery forceps curve Mosquito	06	Koshers Straight 9"	02
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11.	Syringe Infusion Pump	<p>Basic Features:-</p> <ul style="list-style-type: none"> • Equipment should be light Weight • Flow rate range 0.1 – 999.9 ml/h • 0.1 – 99.99 ml/h in increments of 0.1 ml/h • 100.0 – 999.99 ml/h in increments of 0.1 ml/h • Syringe sizes :- 2/3; 5; 10; 20; 30; 50/50 ml • Online rate modification without delivery interruption • Accuracy of set delivery rate equal or less than +/-2% including recommended syringe. • Bolus application Delivery rate 1 – 1,800 ml/h; max, Bolus Volume 99.99 ml • Bolus on demand with manual selection • Bolus with volume/dose pre-selection • Bolus delivery with time or-selection (1 min – 24 h) • Should be Automated syringe change for optimal start up characteristics • Standardized User Interface for all Syringe & volumetric infusion pumps. <p>Dose calculation: Automatic calculation of the delivery rate based on dose entries in mg, ug, IE or mmol, weight-and/or time related</p> <ul style="list-style-type: none"> • Key pad:- Clearly structured not more than 8 keys for fast and intuitive operation • Pump must have facility for stacking upto three pumps together on single pole clamp. • Pole clamp must be rotated so as to connect either in IV pole or in bed handle. • During infusion, following parameters must be displayed for better therapy control. <ul style="list-style-type: none"> ○ Infusion Rate ○ Occlusion Pressure limit setting ○ Current occlusion pressure ○ Battery level ○ Mains mode ○ Infused volume ○ Infusion therapy time ○ Infusion status <p>Safety Features:-</p> <ul style="list-style-type: none"> • Integrated piston brake within syringe drive to prevent free flow during syringe change. • Occlusion alarm pressure limits must be Adjustable in 9 steps (0.1 – 1.2 bar or • Occlusion Pressure setting must be displayed in mmHg • Pump must have facility to lock keypad in for any setting change • Pump must have facility to lock keypad in for any setting change as well as switch-off key protection • Medication error preventions through dose limits referring to selected drug • Computer assisted software for configuring 700 plus drugs for all safety related parameters setting. • International Classification according to:- <ul style="list-style-type: none"> IEC/EN60601-1 – type Moisture protection IP22 (drip protected for horizontal usage) <p>Power Supply:-</p> <ul style="list-style-type: none"> • Mains adaptor with rated voltage from 100...240 V AC 50/60 Hz for stand alone operation • Battery:- • Rechargeable battery pack with operating time approx 8 h at 25 ml/h <p>Upgradable Features:-</p> <ul style="list-style-type: none"> • Connecting & Monitoring via RS232, Ethernet, wireless LAN, USB,

12.	Radiant Warmer (Baby Warmer):	<p>Infant Warmer Infant warmer to be used in neonatology.</p> <p>The unit should conform all relevant international, national and local standards.</p> <p>Specifications:</p> <p>Temperature control:</p> <ul style="list-style-type: none"> • Range 30-38° C • Skin range 25 – 42 ° • Increment 0.1° • Display Digital <p>Control Unit (to be supplied with.)</p> <ul style="list-style-type: none"> • Automatic heat control type • Set point mechanism • Heater Indicator. <p>Alarms (Audible and Visual)</p> <ul style="list-style-type: none"> • High air temperature • Sensor disconnect • Power Failure <p>Alarm in manual mode: every 15 minutes with automatic shutoff</p> <p>The warmer should includes:</p> <ul style="list-style-type: none"> • Self- check features • Breaks for casters • Skin sensor • Supplemental humidity • Protection against breaks and bursts of radiant and light source • Spares and accessories • Service and users manuals <p>Accessories:</p> <ul style="list-style-type: none"> • No. of hand ports 6 • No. of tubing ports 6 • No. of oxygen inlet port 1 • Backup thermostat <p>Examination Light 50 W Halogen</p> <p>Radiant heat source Quartz tube 600w</p> <p>Options</p> <ul style="list-style-type: none"> • Phototherapy lights • Resuscitation equipment packages • X-Ray cassette holder
13.	Equipments / Instruments for Obs. & Gyane. Department	<p>a. Patient Monitor SPECIFICATION OF BEDSIDE MONITOR: Cardiac Monitor (ECG, NIBP and SpO2)</p> <ol style="list-style-type: none"> 1. Three channel Patient monitor with ECG, NIBP and SpO2 2. ECG - Lead I, II and III 3. Display of Heart Rate, Alarm Limit 4. Alarm indications for Arrhythmia, Tachy cardia, Brady Cardia and Fault & Cable disconnection 5. ECG Range - 30 – 250 BPM 6. Inbuilt Cautery and defibrillation protection 7. 3 lead ECG Cables – 2nos to be supplied

8. Electrodes – Disposable 50 nos and Reusable – 15 nos.
9. ECG Jelly – 2 Bottles
10. NIBP Range – 30 ~ 250 mmHg
11. Modes of NIBP – Manual, Automatic and STAT mode (Continuous BP measurement for 3-5 minute operation)
12. NIBP Intervals – Programmable from 2 min to 60 min
13. Cuffs – 6 nos. (3 Adult, 2 Paediatric and 1 Neonatal)
14. Safety Measures – Automatic Deflation if cuff pressure exceeds 290mmHg or measurement time exceeds 120 seconds.
15. Alarm setting for Systolic and Diastolic
16. SpO2 – Range 0 – 100%
17. Modes – Slow, Normal and Fast
18. Display: Plethsmograph, Pulse strength and SpO2 values
19. Alarm setting for SpO2 value
20. SpO2 Probe with extension cable – 2set
21. Minimum 18 Hours graphical trend for HR and SpO2
22. 100 readings tabular form for NIBP
23. Graded and colour coded alarm
24. Battery back up of at least 1 hour
25. High Resolution Display - Color TFT/Colour LCD
26. Easy to transport- Portable and light weight
27. USB port, Slave display , RS 232 port
28. Optional : Inbuilt or External Thermal Array recorder and Printer

b. Pulse Oximeter

- It monitors from Neonate to Adult.
- Oximax Technology to track Oxygen Saturation even during low perfusion condition.
- Sat seconds Alarm Management technology avoids unnecessary alarm & distraction during
- monitoring of severe motion patients.
- Big 7 segment LED display for better monitoring.
- Dual colour LED for differentiating normal mode & alarm mode.
- Internal battery provides minimum of 8 hours backup.
- 10 Segment LED Bar graph for pulse strength monitoring.
- Facility for Computer Interface & Printer Connectivity
- Individual Alarm settings for Sao2 & pulse rate.
- It is compact & very light, easy to transport.
- Pole mounting facility available for convenient monitoring.
- Compatible with the complete range of disposable & Reusable sensors.
- Built-in Battery Charges with charges indication.

c: Bags & Mask (Volume – 500ml) – For Term Baby

d. T – Piece Resuscitator

e. Ceilings' LED O. T. Light

- a. Should be LED based microprocessor control technology.
- b. One major dome and One satellite dome.
- c. Intensity at 1 meter distance 1, 50,000 to 1, 60,000 lux for satellite dome.
- d. Colour Temperature: 4500-5000 K.
- e. Having on off switch and light intensity control.
- f. Homogenous luminous field with lowest possible amount of shadow. 25
- g. The contrast between the lighted area and the surrounding should not cause stress to the surgeon's eye.
- h. Depth of illumination should be 120-140 cms. or more.
- i. Illuminated field diameter should be approx. 20-30 cms.
- j. Increase in temperature near head should be specified and should not be more than 10C.
- k. Colour rendering index (CRI) should be 93-98.

- l. Height adjustment by sterilisable handle.
- m. LED life span 50000 or more Hrs.
- n. Light field adjustment by sterilisable handle.
- o. Control panels on the light assembly as well as away from it for adjustment of light intensity, illuminated area and for switching on and off, focusing etc.
- p. The light head should be so constructed as to provide optimum conditions for laminar flow.
- q. Provision for attachment of Camera Head.
- r. It should have provision for using it during minimally invasive surgery maintaining the correct vision of the screen.

f. LED Examination Light

- Should be suitable for gynecological patients LED light in a single head
- 3W LED Examination Lamp:
- Chief Technical Parameters 1 piece 3W LED chip
- Intensity (0.5m) 15,000 Lux
- Color Temperature 4500 K
- Spot Diameter (0.5m) 130 mm (range $\pm 10\%$)
- Brightness Adjustment 30% - 100%
- Service Life (h) 50,000 hrs
- Power Input (W) 3W
- Pedestal type with adjustable height at examination table level
- Heave, base with wheels (lockable)

g. Gynae Examination Table with stirrup

Specifications- size length- 1830 mm, width -575mm, height- 850mm, frame- CRCA Sheets and rectangular tubes, Three cabinets- one with lock. Drawer with lock, Choir mattress with U notch, Examination trolley with three tray. Pretreated and epoxy power coated. With attached foot step. Accessories for sheet paper roll attachment (optional)

h. Video Colposcope

For diagnostic examinations and post operative treatment

- Fixable at examination chair

With the following facilities:

- Development as stereo-microscope with excellent optical system.
- Universal oculars, suitable for wearers of spectacles.
- Magnification exchange adj. in 5 steps
- Wide range of microscope focusing, tilting and swivelling
- Observation with fixed magnification.

TECHNICAL DATA

- Illumination : Halogen lamp 6V/75W-100 W
- Filter : Red-free, exchangeable
- Magnification : 4X, 7X, 12.5X, 22X, 40X
- Dia. of illuminated field : 38 mm
- Dia. of visual field : 18 mm
- Ocular magnification : 16x
- Oblique tube 45° : $f = 160$ mm
- Focusing range : ± 11 mm
- Power supply : 240 V, 50 Hz.

Quote video system as optional:

- 3 chip video camera with beam splits
- Video signal processing system
- Video monitor

		<ul style="list-style-type: none"> • DVD Recorder • All essential accessories. • Complete service manual
14.	Arthroscopy System	<p><u>ARTHROSCOPY CAMERA, INSTRUMENTS AND SHAVER SYSTEM</u></p> <p>Arthroscopy system with 3chip camera DVI video outputs, all hand instrument, ACL and PCL reconstruction (ZIG / Instruments), Meniscus Repair Instruments, CORE Saver systems, Light source L9000 XENON with cable, Fluid management Systems and trolley. <i>(Must be CE Certified or USFDA Approved)</i></p> <p><u>Technical Specification</u></p> <p>I DIGITAL ENDOSCOPIC CAMERA SYSTEM</p> <ol style="list-style-type: none"> 1 Should be a Three chip camera technology 2 Should have DVI video outputs and one S video output. 3 Should have fully automatic exposure control 4 Should have automatic white balance with memory function 5 Should have horizontal resolution of more than 450 lines 6 Should be supplied with suitable coupler 7 Should be supplied with suitable TFT / LCD TV. 8 Should work with input 200 to 240 Vac 50 Hz supply 9 Should have safety certificate from a competent authority CE/ FDA (US)/ STQC CB certificate/ STQC S certificate or valid detailed electrical and functional safety test report from ERTL. <p>II TELESCOPE</p> <ol style="list-style-type: none"> 1 Should be supplied with wide angle oblique 300 telescope, autoclavable, enlarged view of diameter 4 mm, and minimum length 18 cm 2 Should have incorporated fiber optic light transmission 3 Should have scratch resistant tip <p>III LIGHT SOURCE AND FIBER OPTIC LIGHT CABLE</p> <ol style="list-style-type: none"> 1 Should be xenon / LED light source with minimum 250 W light output 2 Should have manual light intensity control 3 Should have two lamps of 250 W and should have provision to change over in the event of failure from one lamp to another 4 Should be supplied with flexible fiber optic light cable with minimum diameter of 5 ±1 mm and minimum working length of 300 ±10 cm. 5 Should work with input 200 to 240 Vac 50 Hz supply <p>IV SHAVER SYSTEM</p> <ol style="list-style-type: none"> 1 Should be supplied with a microprocessor controlled shaver control unit, Shaver Hand piece, two pedal foot switch 2 Should display the running RPM 3 Should have feedback technology to maintain the selected RPM throughout the surgery 4 The shaver hand piece should have minimum 10000 rpm speed 5 The hand piece must be provided with DC brushless built in motor for minimal maintenance 6 Should have tools free design for mounting of cutting accessories 7 Should have autoclavable hand piece 8 Should be supplied with 1 set of autoclavable blade or 5 set of reusable blades. 9 Should work with input 200 to 240 Vac 50 Hz supply 10 Should have safety certificate from a competent authority CE/ FDA (US)/ STQC CB Certificate/ STQC S certificate or valid detailed electrical and functional safety test Report from ERTL <p>V ARTHROSCOPY INSTRUMENTS</p> <ol style="list-style-type: none"> 1 Should be provided with 6 ±0.5 mm Arthroscopy sheath / cannula with easy locking mechanism and two rotating stop cocks.

		<p>2 Trocar and obutator for 6mm \pm0.5mm easy lock sheath. 3 Arthroscopic probe 3mm\pm0.3mm 4 Punch forceps, trough cutting, straight, heavy jaws, diameter 3.5\pm0.2mm minimum working length 13 \pm1cm, consisting of handle without ratchet and working attachment (basket forceps) 5 900 left rotary punch 6 900 right rotary punch 7 3.4 \pm0.2mm grasping forceps. 8 Scissors straight, diameter 3.5\pm0.2mm, minimum working length 13\pm1cm consisting of handle without ratchet and working attachment</p> <p>VI OTHERS</p> <p>1 Should be supplied with suitable trolley 2 Trolley should have at least 5 power sockets to connect the camera, shaver system, Light source, monitor, etc. 3 Should be provided with sterilization tray and chamber 2 nos. each 4 Equipment should be provided with a line cord (power cord) of acceptable durability, quality, ;length and current carrying capacity and should be compatible with Indian standard power socket 5 Should provide additional lamp – 2 nos for the light source 6 Equipment performance should not be affected by electro magnetic radiated or conducted through power lines from another device 7 Equipment should be provided with sufficient capacity automatic servo stabilizer and should be fixed in the supplied trolley</p>
15.	Dental Chair	<p style="text-align: center;"><u>Technical Specifications for the Dental Chair Unit</u></p> <p>1. Dental Unit Purpose examination and minor surgical procedure with recent attachment and capable of upgradation for attachment.</p> <ul style="list-style-type: none"> • Body Contoured Electrically operated microprocessor remote controlled/four Programmed chair. • Fully adjustable back rest and head rest • Body of the chair and unit is painted and non- rustble. • Electrically operated water control for basin/bowl which is ceramic. • Modular (delivery system hanging over patient) . • Two airotor points • Two /three micromotor points • Three way syringes : two • High power saliva ejector; two (high and low) • Sensor controlled light with halogen bulbs 12V,55V and 02 intensity with 04 bulbs spare . and should get off –on with no touch system for maintenance proper sterilization . • S S tray with X-ray • Multifunctional foot control. • Confort dental operator stool with zero backache. • All consumables required for installation and standardization of system to be given free cost • The unit shall be capable of operating in ambient temp. Of 10-45 deg. C and relatively humidity of 15-90%. • Complete installation of the system including water input and drainage system has to be installed. • Power input to be -220-240V,50 Hz with Indian plug. • Suitable servo Controlled stabiliser/CVT

- Manufacturer should have ISO certification for quality and direct manufacturer.

Oil free air compressor (Medical Grade)

- 1.5 compressor with radiator, cooling fan drier and filter
- Built –in thermo cut-off to save the motor during excess of heat
- Auto- head air release valve and automatic cutoff.
- Safety release valve, drain valve and pressure gauge.
- The inner surface of the tank coated with epoxy to prevent rusting
- Tank capacity;40-50 liter.
- Power; 220V
- Free flow;per/mm cfm;160ltr.5 bar

02:- Dental chair unit with R V G attachment including scaler and light cure system (wireless led type)

A.: As technical specifications mentioned above (1. Dental Chair) with following:

B: RVG:- Purpose to high tech. Sensor, unique 3-D reconstruction , high resolution and pulsed exposure, Meant for 1) single tooth, arch of the jaw, if possible with OPG films, Cephalometry, facial structure like maxillary sinus,T M J structure etc

Egs:-

Image excellence	CCD SENSOR SI
Dimension of sensor (WxHxD)	36x23x05
Active sensor (WxH mm)	20x30
Pixel size (um)	20x20
Theoretical resolution (Lp/mm)	20
Length of cable (m)	2.5
Stability >	40,0000 image
Note;- any RVG with recent specification will be selected at the time of Purchase.	This as an example.

C: Ultra sonic scaler and endo- unit with different types of endo tips and scaler tips; 14 each endo-tip and scaler;-

D: Light cure unit LED type curing system with all shades materials (Wireless light cure system, latest version)

- 1;- no heat build up
- 2;- At least three mode of function or timing
- 3; Wave length 450-490nm
- 4;- Noiseless
