

Bidding document for-

Group A: Supply, Installation & Commissioning of Biomedical Equipt. for Reproductive Biology.

Group B: Supply, Installation & Commissioning of Biomedical Equipt. for State Cancer Institute

Group C: Supply, Installation & Commissioning of Biomedical Equipt. for Paediatrics.

Group D: Supply, Installation & Commissioning of Biomedical Equipt. for Anaesthesiology.

BIDDING DOCUMENT

E-TENDER NOTICE No: 02/2019- 2020/Bio-Medical Equipment/IGIMS/Store



Supply, Installation & Commissioning of Bio-Medical Equipment's / Instruments

E-TENDER NOTICE No: 02/2019- 2020/Bio-medical Equipment/IGIMS/Store

Issued to:

Cost of Document: Rs.2000/-

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 completed bidding document	22/08/2019 up to 4.00 PM. by registered/speed post/ Courier only
Date of opening of technical bid	23/08/2019 at 02.00 P.M. in Conference Hall IGIMS, Patna.
Date of demonstration of equipment	To be informed to the qualified bidders qualifying after opening of technical bids.

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

Sr. No. of Tender: _____

FILE NO. : Tender No.: _____

Tender form issued in favour of: _____

Dear Sir,

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

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

3. I/We have gone through all terms and conditions of the tender documents before submitting the same.
4. I/We hereby agree to all the terms and conditions, stipulated by the I.G.I.M.S. - Patna including delivery, warranty, penalty etc. Quotations for each group are being submitted under separate covers, and sheets and shall be considered on their face value.
5. I/We have noted that overwritten entries shall be deleted unless duly cut & rewritten and initialled.
6. Tenders are duly signed and stamped.(No thumb impression should be affixed)
7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my EMD/Bid deposited may be forfeited and our/my name may be removed from the list of suppliers

Yours faithfully,

(Signature of Bidder with full name and address)

CHECK LIST FOR TERMS AND CONDITIONS

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

Sr. No.	Terms & Conditions as per Bidding Document	Page No.	Remarks
1.	Status of Bidder: <ul style="list-style-type: none">• Manufacturer or Authorized Agent of the Manufacturer• Whether Public Undertaking, Public Ltd., Private Ltd. Company or Proprietary Firm/partnership firm• (Please attach Notary certified MANUFACTURER'S AUTHORISATION FORM as per FORMAT placed at Annexure – III)		
2.	Power of Attorney as per Annexure - V in favour of person to sign, submit and negotiate the bid.		
3.	Certificate towards market standing of minimum 05 years in the area of supply and or maintenance of bio-medical equipment's.		
4.	Certificate for sole ownership / partnership		
5.	Statement of financial standing from bankers		
6.	Statements of turnover per year for last three successive years duly certified by the Chartered Accountants.		
7.	Notary certified User List (List of Govt. /Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.		
8.	Notary certified Supply order copy (Minimum 3nos. or more) issued by Govt./Semi Govt./Reputed Pvt. Institutions/organization for the quoted items. (same model)		
9.	Notary certified Performance certificate of the same supplied machine (of quoted make and Model) issued by Head of the dept. or Institution after a minimum period of six months of installation		
10.	Prerequisite (if any) for installation of the Machine, if any, to be provided by the Institute.		
11.	Whether rates quoted are inclusive of all taxes or not.		
12.	Whether rates are quoted as per format mentioned in the Bidding Document or not.		
13.	Affidavit to the effect that the bidder is not blacklisted by any Govt. agency or have no pending case either Civil or Criminal against them.		
14.	Affidavit, to the effect that the bidder is not supplying the quoted item(s) to any other Govt. / Pvt. Organizations / Institutions / Hospitals at the rate lower than the rate quoted against this tender.		
15.	Quality Assurance Certificate like ISI, ISO-9002,		

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

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

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

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

(Name of the Bidder with signature & seal)

ELIGIBILITY CRITERIA

01	Manufacturers or their authorized dealers/Indian subsidiaries/direct importers having a place of business in any of the States of India are eligible to participate in this tender.	Mentioned Page no.
02	The bidder and manufacturer of the equipment offered should be in the business of the supply and installation of same / similar equipment for the last five calendar years.	
	<p>(a)The manufacturer should have completed at least 05(Five) nos. installations of the quoted items in Govt. /Pvt. Institutions /Hospitals in India. The installations mentioned by the manufacturer in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.</p> <p>(b) The bids quoted as the authorized representative of the manufacturer meeting the above criteria 02 (a) should have also supplied and installed at least 03(Three) nos. installations of the quoted items in Govt. /Pvt. Institutions/ Hospitals in India in last five years from the last date of submission of tender. The installations mentioned by the authorized representative in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.</p>	
03	The Bidder should be public undertaking /Autonomous Body /Public Ltd./Pvt. Ltd. Company or proprietary firm /Partnership Firm and should be in medical equipment business since last five years in India. The Bidders having manufacturing facility in their name in India for the majority of the items offered by them shall be given preference.	
04	The Bidder (manufacturer or their authorized agent) should have had average annual financial turnover of Rs. 50 Lakh during the last three years ending s 31 st March 2018.	
05	Bidders who have the capability to attend repairs of these equipment within the time mentioned in this bidding document and who are willing to provide stand by equipment or replace the faulty equipment if the repair/down time extends beyond 72 hours from the time of reporting of the fault within the next 48 hours (total down time should not exceed 5 days in one instance). The bidders who have the capability to ensure the uptime mentioned in this document (Documentary proof shall be submitted on the after sales facilities and expertise of the bidder.)	
06	Bidders are not offering the equipment of a firm /company that has been blacklisted by Indira Gandhi Institute of Medical Sciences – Patna or blacklisted/debarred by any other State / Central Government's organization.	

Note:

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

INSTRUCTION TO BIDDER

GENERAL INSTRUCTIONS TO BIDDERS

1. **Tendering System**

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

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

PART - II titled as PRICE BID

2. The tender offers, duly filled, shall be submitted in sealed covers for **technical**. Such covers shall be super scribed as “**Tender No..... (here mention the tender no as specified) TECHNICAL BID for supply of (here mention the name of the equipment**”
3. Quantity of items may increase or decrease. Director, I.G.I.M.S. - Patna reserves the rights to purchase different sub items/ components of items from different bidders.

This rate Contract will be valid for one year from date of 1st satisfactory installation and acceptance of the equipment. Repeat Supply Order will be placed as per requirement of the Institute of all the quoted and approved items. The rate contract may be further extended for period of one year as decided by Director, IGIMS-Patna.

4. The “Bidding Document” along with terms and conditions, technical specification can be obtained from the office of the Store Officer, IGIMS, Patna on payment of Rs.2000/- (Rs. Two thousand only) Non –refundable for each Group by demand draft favouring Director , IGIMS, 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 , IGIMS, Patna, payable at patna towards cost of the “ Tender documents” Bidder is required to attach separate DD for the same in a separate envelop super scribed with “ cost of bidding document” if the cost of tender document is not submitted by the bidder, his offer shall be outright rejected .

6. Last date for submission of bidding document is 22/08/2019 up to 4.00PM by speed/Regd. post/ Courier only and technical bid will be opened on 23/08/2019 at 02.00 PM in Conference hall IGIMS, Patna

7. **Earnest Money Deposit (EMD):**
Earnest Money 2% of the cost of Equipment required to be submitted along with tender by Demand Draft from any scheduled Indian Bank (valid up to one year from the date of technical bid opening.) only along with the tender favouring Director, I.G.I.M.S. – Patna (payable at Patna). No interest is payable on EMD/ Bid security.

- a. Bidder may quote more than one/several models. In such a situation EMD will be payable on the basis of highest priced model.
 - b. 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.
 - c. EMD must be submitted in separate sealed envelope and endorsement of the same with DD number & date Bank Guarantee No. and its validity period be made with technical bids without amount stating that the same has been complied with price bid. If same is later found not enclosed tender will be cancelled for the party.
 - d. 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.
 - e. Cheque, Cash payment, Money Order, Fixed deposit etc will not be accepted as EMD.
 - f. Public Sector Units within the State or State micro, small and medium enterprises registered with Govt. are exempted from remittance of EMD subject to submission of valid documents.
 - g. The EMD shall be in one of the following forms:
 - i. A demand draft in favour of Director, I.G.I.M.S. – Patna (payable at Patna);
 - OR
 - ii. A Bank Guarantee issued by a nationalized/ scheduled bank located in India, in the form prescribed in the tender document as Annexure- IV (valid up to one year from the date of technical bids opening) Bank Guarantee in any other format will not be acceptable and render the bid non-responsive.
 - iii. The successful Bidder's EMD will be discharged upon the Bidders signing the contract and furnishing the performance security. The EMD deposited in the form of DD of the successful Bidder can be adjusted towards the security deposit payable.
9. Bidder(s) should mention the DGS & D registration, if registered, and attach photocopy of DGS & D registration certificate Photocopy of Income tax & sales tax clearance certificate should be enclosed.
10. For Imported Goods, Indian Agency Commission must be declared in financial bid.
11. The Bidder's shall have to submit the following documents (Certified by Notary) in technical bid: -
- a. User List (List of Govt. / Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.
 - b. Supply order (minimum 3 nos. Or more issued by govt./semi govt./reputed pvt.institution/organisation for 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 (Manufacturer / Indian agent) shall have to submit an undertaking duly notarized by Public notary that if their tender is selected they shall be solely responsible for compliance of all the terms and conditions mentioned in the bilateral agreement for purchase and subsequent supply order even if their authorized agent is changed. Any tender offer without such certificate duly certified by public notary shall be rejected in technical scrutiny itself.
 - 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.

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?

12. After Sales Service Conditions:

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

c. Guarantee/Warranty Terms:

- i. The successful Bidder has to warrant that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.
- ii. The successful Bidder further have to warrant that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Tender Inviting Authority's specifications) or from any act or omission of the successful Bidder, that may develop under normal use of the supplied goods.
- iii. All the equipment's including the accessories supplied as per the technical specification as mentioned in the bidding document should carry comprehensive warranty (including all spares, accessories and consumables) for a period mentioned in this document in the first instance. During this period, the successful Bidder shall replace all defective parts / accessories / consumables and attend to all repairs/break downs and undertake stipulated number of preventive maintenance visits to every user installation site. The cost of spare parts for all replacements has to be borne by the successful Bidder during the period of comprehensive warranty. The items which are not covered under warranty should be clearly mentioned along with rate of the items . If any spares / accessories / consumables etc. are not replaced by the bidder during warranty period, bidder should mention it clearly with name of the items with frequency of replacement and its rate of the item.
- iv. On expiration of the comprehensive warranty period, the successful Bidder shall be willing to provide after sales support for an additional period prescribed in this document.

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

Xvii;- The offered warranty includes:

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

d. Comprehensive Annual Maintenance Contract:

- The decision to enter into CMC or AMC will be determined on the basis of cost and complexity of the equipment by the Tender Inviting Authority, at its discretion, prior to the expiration of warranty period.
- The Comprehensive Maintenance Contract (CMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing the comprehensive warranty of the equipment shall be extended during the period of CMC, only difference being the payment of CMC charges is absent during the period of comprehensive warranty.
- The cost of CMC, accessories spares, 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 equipment's 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.

13. Time Limits prescribed

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

14. 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.
15. **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.**
16. Supplier will submit undertaking for ensuring uninterrupted supply of spares during the total life span of the equipment's.
17. Indian agency commission and Installation charge if any will be paid in Indian rupees after successful installation and demonstration of the equipment's.
18. Principal's Invoice of the quoted items must be submitted with the quotations.
19. Proof of the official Indian agent certificate of the firm must be attached. (Notary Certified Photocopy)
20. In order to fully and optimally utilize the equipment, training to Para Medical Staffs and Doctors should be provided. In continuation to this training, separatemaintenance 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).
21. 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.
22. 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.
23. Bidder might be required to demonstrate the system at the discretion of the institute.
24. **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.

25. **Signing of Contract**

The successful bidder shall execute an agreement for ensuring satisfactory supply, installation, commissioning and the after sales service/support during the warranty period and during the Comprehensive Annual Maintenance Contract.

27. The Director reserves the right to accept or reject any or all tenders without assigning reasons.
28. The Director reserves the right to modify, add or delete any terms & conditions of the contract as and when required.

29. **Amendment of tender documents:**

- a. At any time prior to the dead line for submission of Tender, the Institute may, for any reason, modify the tender document by amendment.
 - b. The amendment shall be notified and uploaded on the institute website www.igims.org only and such amendments shall be binding on them thereafter.
 - c. The Institute shall not be responsible for failure to inform the prospective bidders. Purchasers of tender documents are requested to browse the website of the Institute for information/general notices/amendments to tender document etc on a day to day basis till the tender is concluded.
30. The Dispute, if any, will be subject to Jurisdiction at Patna (Bihar).

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

CONDITIONS OF THE CONTRACT

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

Clearance charges at point of Entry / Air Port and on ward transportation charges with Insurance up to I.G.I.M.S. - Patna will be borne by supplier's Indian Agent for which this Institute will not pay the charges. The firm should quote as FOR IGIMS Patna including all expenditure.

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 if necessary for running the system.

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:-

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

e. The bidder shall compensate the uptime less than the specified above for **every additional day** of down time over and above 18 days stipulated above, warranty period will get extended by one week as penalty at no extra cost i.e. the extended penalty period will be equal to one week for every additional day of down time.

f. During warranty period, **bidder** will make the “**Complete System**” in satisfactory working condition. In case, any spare parts, accessories, PCB, consumables etc. needs replacement due to normal wear and tear, **bidder** will supply and install the same for which no additional payment is to be made with a validity to cover warranty period if required.

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

05. Performance Security

- a. There will be a performance security deposit amounting to 10 % of the total value of the equipment excluding taxes, which shall be submitted by the successful bidder within 10 days from the date of issuance of “Letter of Intent”.
- b. The contract duly signed and returned to the Institute shall be accompanied by a demand Draft or Bank Guarantee in the prescribed format.
- c. Upon receipt of such contract and the performance security, the Institute shall issue the Supply Orders containing the terms and conditions for the execution of the order.

- d. Failure of the successful bidder in providing performance security as mentioned above and / or in returning contract copy duly signed in time shall make the bidder liable for forfeiture of its EMD.
- e. The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
 - i. It shall be in any one of the forms namely Account Payee Demand Draft or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in this document endorsed in favour of the Institute.
 - ii. Institute will release the Performance Security without any interest to the successful bidder on completion of the successful bidder's all contractual obligations including the warranty obligations & after receipt of certificates confirming that all the contractual obligations have been successfully complied with.

06. Delivery period/Liquidated Damage: -

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

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

07. Payment: -

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

- a. In case, the equipment is purchased in Indian Currency then the payment will be made as per following scheduled.
- b. 90% payment will be released against delivery and successful installation of the equipment & balance 10% will be released on submission of 10 % Bank Guarantee of the total cost of ordered value. This Bank Guarantee will be released after expiry of guarantee period.
- c. L. C. will be opened only after receipt of the 20% 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 breakup 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 backup 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 warranty 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) owning more than 1% share ownership in the company/firm (both principle and Indian Agent).
17. The bidder is required to submit compliance sheet, which should reflect details of clause-by-clause compliance of technical specifications as well as general terms & conditions failing which their offer shall be rejected.
18. In order to fully and optimally utilize the equipment, training to paramedical staff and Doctors should be provided. In continuation to this training a separate maintenance training for the machine and the sub system should also be given to the Equipment Maintenance Engineer and Maintenance Technicians of the Institute. All the financial commitment in this regard shall be met by the firm/Principal.

19. Penalties for non-performance

The penalties to be imposed, at any stage, under this tender are;

- a. imposition of liquidated damages,
- b. forfeiture of EMD/performance security,
- c. termination of the contract,
- d. Blacklisting/debarring of the bidder.

20. Termination of Contract

- a. Termination for default:- The Institute, without prejudice to any other contractual rights and remedies available to it (the Institute), may, by written notice of default sent to the successful bidder, terminate the contract in whole or in part, if the successful Bidder fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Institute.
- b. In the event of the Institute terminates the contract in whole or in part, the Institute may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the successful bidder shall be liable to the Institute for the extra expenditure, if any, incurred by the Institute for arranging such procurement.
- c. Unless otherwise instructed by the Institute, the successful bidder shall continue to perform the contract to the extent not terminated.
- d. Termination for insolvency: If the successful bidder becomes bankrupt or otherwise insolvent, the Institute reserves the right to terminate the contract at any time, by serving written notice to the successful bidder without any compensation, whatsoever, to the successful Bidder, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Institute.
- e. Termination for convenience: - The Institute reserves the right to terminate the contract, in whole or in part for its (Institute) convenience, by

serving written notice on the successful bidder at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Institute. The notice shall also indicate inter alia, the extent to which the successful bidder's performance under the contract is terminated, and the date with effect from which such termination will become effective.

21. **Fall Clause:**

The prices charged for the equipment supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the equipment's 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 equipment's 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

Group -A-Reproductive Biology
High End Color Doppler Ultrasound System
Trigas incubator
IVF Laser System
Group-B-State Cancer Institute
Video endoscope unit having upper and lower gastrointestinal scopes
Cystoscopy set
Bronchoscope- rigid and flexible
Micro drill and saw system
Laryngopharyngoscopy system
Group-C-Paediatrics
Paediatric Ventilator with Humidifier
Multipara Monitor
Group-C-Anesthesiology
Flexible Intubation Video Endoscope (Adult Size + Ped Size) Non Fiber

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.)							
Sched uled	Brief descript ion of goods Make: Model:	Countr y 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.	Packi ng and forwa rding charg e	Inland transportatio n , insurance for a period including 3 months delivery, loading/ unloading and incidental cost till consignee site.	Incidental services (including installatio n and commissi oning, supervisio n, demonstra tion and training) at the consignee site. (f)	Unit price (at consign ee site basis(g) a + b + c + d+ e + f	Total unit price (At Consign ee Site) Basis Rs. 4x5(g)
				(a)	(b)	(C)	(d)	(e)	(f)		

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:

Name:

Date:

Business Address; -

Signature of Bidder;-

Seal of the Bidder;-

Annexure: I (b)

PRICE SCHEDULED FOR GOODS TO BE IMPORTED FROM ABROAD

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

To be paid in Indian Currency (Rs) :

Total Tender Price in Foreign Currency:.....

In Words;-.....

Note:-

- a) If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warrantee shall be quoted separately as per price scheduled.
3. The Bidder will be fully responsible for the safe arrival of the goods at the named port of entry in goods condition as per terms of CIP as per INCOTERMS, if applicable

Indian Agent;-

Indian agency commission: % of FOB

Name:

Signature of Bidder;-

Business address;-

Signature of Bidder

Seal of the Bidder;-

Place;-

Date

Annexure - II
COMPREHINSIVE ANNUAL MAINTENANCE CONTRACT PRICES SCHEDULE

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

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

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

Seal and Signature of the bidder

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 equipment's tendered within the stipulated time.

(Name)

for and on behalf of M/s. _____

Date:

(Name of manufacturers)

Place:

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

ANNEXURE – IV
BANK GUARANTEE FORM

To

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

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

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

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

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

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

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

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

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

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

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

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

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

I/ We.....(name and address of the registered office) do here
byconstitute,appointandauthoriseSri/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 & Allied Technical Details

Group-A: Reproductive Biology

1. HIGH END COLOR DOPPLER ULTRASOUND SYSTEM

S.NO.	TECHNICAL SPECIFICIATIONS
1.	It should be robust state of art, fully digital high end latest Color Doppler Ultrasound System with S vision or similar architecture capable of precision beam forming ,capable of performing imaging applications in abdominal, obs/gynae, Fetal Heart etc.
2.	System should have broad band beam former capable of processing signals from 1-18 MHz.
3.	System processing channels must be more than 5, 00,000.
4.	Frame rates more than 1900 frames/sec preferred.
5.	System with Digital TGC control is preferred.
6.	System with 4 or more probe ports including pencil probe preferred.
7.	System must contain inbuilt gel warmer.
8.	System should incorporate facility for high resolution 2D, M-mode, PW, Color Flow Imaging, Color Power Angio imaging, Power Pulse Inversion Harmonics, Directional Color Power angio imaging modes
9.	<p>System should have Full Spectrum Imaging eg</p> <ul style="list-style-type: none"> • Tissue Harmonic Imaging • Spatial Compound Imaging • Pulse Inversion Harmonic Imaging • Trapezoidal Imaging • Quad Imaging • Dual Imaging in Horizontal Split • 3D/4D Live Imaging • Automatic PW Doppler Adjustment and Auto 3D Adjustment <p>System should have panoramic extended field of view</p>
10.	The system offered must have High Definition Speckle Reduction Imaging, which is a real-time algorithm to increases contrast resolution by reducing speckle noise while maintaining true tissue appearance. This image processing technique should be able to remove speckles and clutter artifacts
11.	System should have fully digital real time Multi recording in DVD.
12.	System should have scan depth of 2 to 40 cm or more. Please specify through data sheet.
13.	System should have 256 shades of gray display.
14.	System should have feature to Volume shade imaging for skin tones and shading to improve visualization of 3D/4D with variable light source time.
15.	System should have facility for real time or frozen, pan or point zoom. Anatomic M-Mode. should be available with,at least 3 M line cursors .System must provide TGC and LGC for proper gain adjustments.
16.	System should have cine loop review minimum 12000 frames and Loop Review for 8,000 Lines. Please specify through data sheet.
17.	System should have automatic tool to trace and measure Follicles and generate report.
18.	Console height should be adjustable for user's comfort.
19.	System should have Advanced Image Processing algorithm to analyze between targets and artifacts so as to sharpen target anatomy, reduce the sparkle & artifacts to improve image .
20.	System should have Dynamic range 250 db or more.

S.NO.	TECHNICAL SPECIFICIATIONS
21.	It should have extensive software for automatic and user programmable calculation package for gray scale, color Doppler, 3D and 4D applications.
22.	System should have more than 21" or more Flat, high resolution anti flickering with contrast and brightness adjustment with forward and backward tilt ,left/right swivel facility LED Monitor.
23.	System should have more than 10" wide LED Touch Screen Control.
24.	System should be DICOM ready.
25.	<ul style="list-style-type: none"> • System should have independent steering of B mode and color on linear probe. • Should have Auto Image optimization function, Physical key should be available on the keyboard for easy access. • System should have 1TB hard disk for digital image storage. • System should have at least 2 ports of Hi Speed USB for data transfer . • The system should have the facility of digital storage and retrieval of B/W and color image data on built-in CD/DVD Drive .
26.	System should have built in Image Management Software, for off line application when patient has gone after examination, such as Image Manipulation, Multi Planner reformatting, surface & volume rendering etc
27.	System must be able to upgrade to Auto NT measurement package in Obstetrics application.
28.	The quoted model should be US FDA approved.
29.	Please respond to each specification in the same format and order and support it with Product Data Sheet.
30.	The system should be able to support at least 5 transducers with universal ports allowing electronic switching between transducers. At least 4 transducers port should be active.
31.	The system should have a full alphanumeric keyboard and Customized Control panel & freely programmable, mode-sensitive 6" color Touch command Screen which enable direct access to all basic and advanced system controls
32.	<p>System should be provided with following transducer:</p> <ol style="list-style-type: none"> 1. Single Crystal Convex probe with frequency range from 1 to 6 MHz. 2. Endocavity Probe (TV/TR) 4-9 MHZ with volume (4D). Automatic Volume Calculation for Follicles in TV volume probe. CT slices software should also be available. <p>Optional: Broad band Convex Volume probe with bandwidth of 2-7 MHz</p>
33.	System should be quoted with 2KVA online UPS with 30 minutes back up and Sony B/W Thermal Printer and Color inject printer

2. TECHNICAL SPECIFICIATIONS OF TRIGAS INCUBATOR

S.NO.	TECHNICAL SPECIFICIATIONS
1.	Should have drawer type incubator (A combination of box & bench top incubator)
2.	Should have four Individual Incubators in One to the Power of Cube
3.	Should have unique maintenance of optimum environment all the way.
4.	<p>Should have</p> <ul style="list-style-type: none"> • Independent sliding and removal of all 4 incubator drawers out of the Cube. • 4 drawers with individual temperature and gas controls. • Each drawer should incorporate 12 x 35mm dishes or 6 x 60mm/centre well dishes or 4 x 4well dishes.
5.	<p>Should have.</p> <ul style="list-style-type: none"> • All important alarm systems, independent for each drawer

S.NO.	TECHNICAL SPECIFICIATIONS
	<ul style="list-style-type: none"> • Software controlled Overheat Prevention • Circuit Protector • CE marking
6.	Should have removable drawers
7.	Should have easy cleaning and access for maintenance.
8.	Should have autoclavable aluminium incubation blocks.
9.	Should have easy grip knob on the drawer
10.	Should have a useful latch & hinges on the lid
11.	Should have a strategically integrated Laser engraved water tray as part of the design.
12.	Should have digital PID controls to the accuracy of ± 0.1
13.	Should have gas control algorithms

3. IVF Laser System

S. No.	Technical Specifications
1.	Laser for IVF lab to ablate zona pellucida, hatching, biopsies and blastomere collapse . Laser position controlled by computer.
2.	Moveable laser with biopsy mode
3.	Laser and red-target locator built into 40x objective
4.	Compatible with fluorescence and function in visible,infra-red and ultraviolet wave length
5.	Laser should include both pilot and ablation laser
6.	Laser should have a option to indicate heat safety zone
7.	Laser power should be between 300-425mW
8.	Powerful software should be supplied with laser to ensure that it can have home position setting, measuring tool digital magnification, simulator for training and demo features.
9.	Image capture, image auto labelling, real time and time lapse video capture, image and video thumbnails
10.	Multi-pulse mode for fast and easy trophoctoderm biopsy

Group-B: State Cancer Institute

1. VIDEO ENDOSCOPE UNIT HAVING UPPER AND LOWER GASTROINTESTINAL SCOPES

TECHNICAL SPECIFICATION

VIDEO Endoscope unit with NBI/HD plus video with upper GI endoscope and Colonoscope with accessories

Technical Specifications (Upper GI Endoscopes):

1. Diagnostic Gastrovideoscope: (01 Quantity)

- Built in HD TV compatible CCD with close focus observation capacity.
- Should have Chrome endoscopy imaging (NBI/FICE-BLI/ I scan-OE/m BLU/S technology) and preferably dual focus Capacity for detailed mucosal study.
- Fully immersible in disinfectant solution resistant cap and one touch connectivity.
- Inbuilt scope identification memory chip for monitor display of scope model no. serial no. white balancing memory. No of connections
- Should have forward/auxillary water jet for mucosal cleaning
- The scope should be the latest high end model available in Indian market

- A. Insertion tube outer diameter: 9.9 mm or less for diagnostic purpose
- B. Field of view/ Angle of view: Normal/Near focus 140 degrees or more
- C. Direction of view: Forward viewing
- D. Depth of field: Near 2-3mm or better and Far 4-100 mm or better.
- E. **Angulation tip**
 - a. Upwards: 210 degree or more
 - b. Downwards: 90 degrees or more
 - c. Right: 100 degrees or more
 - d. Left: 100 degrees or more
- F. Instrument channel : > 2.8 mm
- G. Working length: 1030 mm or more
- H. Total length : 1030 mm or more
- I. Minimum visible distance of instrument used through channel : 3 mm or closer from the distal end

2. Accessories:

- a. Reusable biopsy forceps oval cup fenestrated and oval cup non fenestrated – 2 each
- b. Hot biopsy forceps with alligator cups with and without needle – 2 each
- c. Foreign body retrievable basket 6 wires – 2
- d. Reusable hot biopsy forceps – 2
- e. Electrosurgical snare – 2
- f. Bipolar probes- 5
- g. Cleaning brushes and channel opening brush – 5 each
- h. Washing pipe/ spray catheter – 10
- i. Injection needle 21 G – 10
- j. Grasping forceps- rat tooth, rubber tip – 2
- k. Rotatable clip fixing device short and long – 5 each
- l. Endoloop ligating device length 1650 mm and 2300 mm – 2 each
- m. Endoloop 30 mm and 20 mm – 5 boxes each
- n. Hemoclips - 20
- o. Extra xenon bulb – 1
- p. Biopsy channel valves – 1 pack of 100
- q. Extra suction and air water buttons – 5 each
- r. Accessories: Authorization certificate by the parent company of the endoscope should be attached for compatibility.

3. Colonovideoscope (01 Quantity)

- Built in HD TV compatible CCD with near and normal focus observation capacity
- Should have Chrome endoscopy imaging (NBI/FICE-BLI/ I scan-OE/m BLU/S technology) for detailed mucosal study.
- Fully immersible in disinfectant solution (No need to attach water resistant cap) and one touch connectivity
- Inbuilt scope identification memory chip for monitor display of scope model no. serial no. white balancing memory. No of connections
- Inbuilt features like variable stiffness, high force transmission and passive bending for ease of insertion
- Should have forward/auxillary water jet for mucosal cleaning
- The scope should be the latest high end model available in Indian market.
- Insertion tube outer diameter: 13.2 mm or less
- Field of view: In normal focus ≥ 140 degrees or better and in near focus ≥ 140 degrees or better.
- Direction of view: Forward viewing
- Depth of field: Far-4-100 mm or better and near 2-3 mm or better.
- Distal end outer diameter: 13.2 mm or less
- Angulation tip

- o Upwards: 180 degree or more
- o Downwards: 180 degrees or more
- o Right: 160 degrees or more
- o Left: 160 degrees or more
- Instrument channel : 3.2-3.8 mm
- Working length: 1600 mm or more
- Total length : 2005 mm or more

4. Accessories:

- Compatible reusable biopsy forceps with or without needle – 5 each
- Polypectomy snare hexagonal and oval rotatable : 1 pack of 10
- Reusable hot biopsy forceps – 2
- Electrosurgical snare – 2
- Cleaning brushes and channel opening brush – 5 each
- Washing pipe/ spray catheter – 20
- Injection needle 21 G – 10
- Rotatable clip fixing device short and long – 5 each
- Single use clip - 100
- Endoloop ligating device length 1650 mm and 2300 mm – 2 each
- Endoloop 30 mm and 20 mm – 5 boxes each
- Hemoclips - 20
- Extra xenon bulb – 1
- Biopsy channel valves – 1 pack of 100
- Extra suction and air water buttons – 5 each
- Accessories: Authorization certificate by the parent company of the endoscope should be attached for compatibility.

5. Video Processor (01 Quantity)

- Should be compatible with analog HD- SDI and DVI output for HDTV monitor should be available
- Should contain electronics for clear visibility of near and far objects.
- Equipped with high resolution HDTV imaging capacity
- Compact and ergonomically designed
- Optical chrome endoscopy imaging such as NBI/FICE-BLI/I scanOE/mBLU/S technology and HD plus videoscope.
- Portable memory and USB slot for image recording
- Automatic IRIS control and white balance.
- Picture in picture display and index function ability
- Electronic zoom upto 1.5 x
- Equipped with memory backup for settings and lithium battery
- Should have prefreeze function for image stabilization
- Should have inbuilt light source or separate light source with NBI/FICEBLI/I scan - OE/m BLU/S technology imaging capacity/ HD plus video.
- High intensity Xenon light source (300W) with 500 hours life with emergency halogen light for backup
- Backlit front panel indicator, equipped with automatic light adjustment, forced air cooling, regulated air feeding pump and fan with low noise
- Should be supplied with two extra xenon bulbs and one extra halogen bulbs
- Compatible with the quoted gastrovideoscope and colonoscope
- Video signal output : RGB, Y/C and composite (Simultaneous)
- The endoscope system must be suitable for high resolution, high magnification images of the GI tract with ability to detect early cancer and precancerous lesions by optical enhancement of images. The system must have the facility to provide images with optical chromoendoscopy
- Should be supplied with 2kw online UPS
- Video endoscopy workstation with space for accommodation of a LCD video monitor (26" or more in size), video processor, light source with scope hanger
- Two water bottles compatible with the processor

- Two high pressure suction machine (>1 kpa) should be supplied
- 6. High definition Medical Grade LED monitor(From the same parent manufacturer of the scope)
 - 26 inch full HD LED monitor with high resolution 1920× 1080
 - Low power consumption
 - Aspect ratio 16:9/ 16:10 with output of (1080/601: NTSC) (1080/501: PAL)
 - Should have picture in picture and picture out picture for viewing side by side split screen images
 - One separate 32” LED monitor for teaching purpose

Suitable computer, printer, Trolley, Suction machine (2), Leakage tester and endoscope software is to be supplied with the unit.

The complete system should be European CE or US FDA approved, other than the suction machine, UPS, Computer, Printer, Trolley, and endoscopic software to be supplied with the machine

Almirah: An almirah either customized or made to order should be provided for housing the scopes should be provided.

Demonstration: Demonstration of the quoted model of the endoscope at AIIMS Raipur is mandatory for technical evaluation and acceptability.

Manufactures/Supplier should have ISO certificate to Quality Standard.

Comprehensive warranty for 5 years and 5 years CMC after warranty.

Warranty and CMC:

- Should provide Warranty period: As per mentioned on the Annexure and CMC after warranty as per mentioned on the Annexure.
- Availability of spares for at least 10 years after date of installation.
- Comprehensive warranty would include all parts-plastic, metallic, glass, batteries and rubber (without any exclusion) except the consumable accessories listed above.
- Comprehensive warranty would include periodic checking and periodic calibration of all parameters strictly as per manufacturer’s recommendations (at least every 6 month) and any spares or standards required for that.
- Should have online and telephonic registration of the complaints.
- Should have resident service engineer available in Raipur within 24 hrs to solve the complaints.
- Down time of the equipment will start from the time of lodgement of first complaint.
- The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CMC.
- No request in this regard will be entertained on the pretext of on availability of items with the supplier/company.
- Prices of all Equipments and CMC should be quoted separately and frozen for the period including warranty and CMC.
- Should have local service facility and should have the necessary equipment’s to carry out preventive maintenance test.
- Onsite physical demonstration and training of the equipment to all the end users with all the requested facilities will be mandatory.
- Original literature, and not the photocopy, to be supplied with the quotation.
- Company should certify that model quoted is latest and not obsolete, and spares are available for minimum 5 years after warranty (5 years).
- Warranty and CMC should be provided by company and accessories should be included in warranty and CMC.
- Should provide the preventive maintenance in every 6 month and also calibrate the machine at the time PM if required.

2. Cystoscopy Set

TECHNICAL SPECIFICATIONS

Technical specifications for Cystoscopy set		
S.No	Name	Specifications
1	Telescope (Fiberoptic light transmission incorporated)	Forward oblique 30° Diameter – 4 mm, Length 30 cm Autoclavable
2	Cystoscope – Urethroscope sheath	20 Fr with obturator and 2 luer lock adaptors
4	Telescope bridge	1 lockable instruments channels, 10 Fr
5	Coagulating Electrodes	4 Fr Unipolar length 53 cm
6	Unipolar High Frequency cord	Length 300 cm, 4mm plug
7	Biopsy forceps optical	Double Action Jaws, straight
8	Grasping forceps	Double Action Jaws for Stent removal for use with telescopes

3. Bronchoscope- Rigid and Flexible

SPECIFICATIONS FOR FLEXIBLE BRONCHOSCOPE

1. It should have superior image quality with crisp, clear images and true-to life colour preferably HD images.
2. Should have facility for pressure regulated leakage testing.
3. Scope should have minimum three user programmable remote switches to improve operability.
4. Should have Narrow Band/ I-SCAN/ FICE Imaging facility.
5. Outer diameter should be 6.0mm or less.
6. Channel diameter should be 2.0 mm or more. Separate channels for Oxygen and suction
7. Insertion tube length should be 600mm or more.
8. Field of view should be 120 degree or more.
9. Depth of field should be 3-50mm or better.
10. Angulation – UP-180 degree, Down-130 degree or better.
11. Minimum visible distance should be 3mm or less. Should have telescopic eye
12. Should be compatible with laser and electrocautery. Fully immiscible in disinfectant solution.
13. Should have scope ID function.
14. Autoclavable suction valve to avoid risk of cross contamination.

15. The equipment/system should be Latest model only. preferably, USFDA or European CE approved. 16. The equipment should be supplied with the following standard accessories:

A) LED Light Source (Xenon short arc Ozone free 300 Watt lamp): -Xenon / LED light with scope compatibility having lamp life of at least 500 hours. - Emergency halogen/LED light for backup. - 4 spare bulbs

B) Compact Trolley - Should be made of Stainless steel capable of carrying the weight of all the equipments. - Should have multiple shelves to keep accessories mentioned.

C) Essential Accessories

a. FORCEPS

a. Foreign Body Forceps i. Rubber Tip - 2

ii. Alligator Jaw/crocodile – 2

iii. Retrieval basket – 1

b. Biopsy Forceps – plain - 5, toothed – 3

b. Cytology brushes with sheath - 8

c. TBNA Needles with sheath – 5 sets

d. Biopsy valves (Reusable) 2

e. Suction valves (Reusable) 10

f. Cleaning brushes (Reusable) 3

g. Bite block (Reusable) 4

h. Leakage tester- 1

i. Cleaning and maintenance kit- 1

D) Appropriate UPS with at least 60 mins backup- 01

E) Video converter to attach with scope and video system processor for video output01(optional- Quoted separately).

F) Software for video-recording and CD-storage of bronchoscopic procedure (optional- Quoted separately).

-The bronchoscope and all the accessories mentioned above should be supplied by the same manufacturer.

- In case of Essential accessories as mentioned in section C above, they should be of the same manufacturer as that of the bronchoscope or from any reputed company if being provided other than the manufacturer of bronchoscope.

Environmental factors:

1) The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%

2) The unit shall be capable of operating continuously in ambient temperature of 10 -50 deg C and relative humidity of 15-90% Standards,

Safety and Training

1) The company should give a certificate that the model quoted is the latest and not obsolete, and spares will be available for next 7 years.

2) Manufacturer should have ISO or equivalent certification for quality standards.

3) Comprehensive warranty for 5 years and 5 years CMC after warranty should be included with compulsory provision of supply of spare parts of the model supplied for next 10 years.

RIGID BRONCHOSCOPE SET

The Technical Specification &Description

1. Straight Forward Telescope 0°, Diameter 4.5 mm,length 50 cm, autoclavable. Fiber optic light transmission incorporated - ONE

2. Lateral telescope 30°, diameter 2.8mm,length 44 cm fibre optic light transmission. Colour code: yellow.- ONE
 3. Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 8.5 - ONE
 4. Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 7.5 - ONE
 5. Bronchoscope Tube Universal, without distal fiber light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 6.5 - ONE
 6. Prismatic Light Deflector with connection for fiber optic light cable - ONE
 7. Glass Window Plug ONE
 8. Rubber Telescope Guide ONE
 9. Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable, for use with Full Lumen Tracheoscopes and Bronchoscopes ONE
 10. Injection Cannula for positive pressure assisted ventilation system, O.D. 3.5 mm for use with bronchoscopes and tracheoscopes with LUER-lock female fitting ONE
 11. Tube Guide, for Bronchoscope - ONE
 12. Adaptor from bronchoscope to any type of pediatric respiration equipment. ONE
 13. Plug for Ventilation Attachment of Bronchoscopes- ONE
 14. Bronchoscopic Forceps, circular cup, biopsy, malleable, double action jaws, diameter: 2.5 mm, working length 50 cm – ONE
 15. Bronchoscopic Forceps, universal biopsy and rasping, double action jaws, diameter: 2.5 mm, working length 50 cm - TWO
 16. Bronchoscopic and Esophagoscopic Forceps, universal biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 35 cm - TWO
 17. Bronchoscopic and Esophagoscopic Forceps, alligator, grasping, double action jaws, diameter 2.0 mm, working length 35 cm - TWO
 18. Bronchoscopic Forceps, alligator, grasping, double action jaws, diameter: 2.0 mm, working length 45 cm - TWO
 19. Bronchoscopic Forceps, universal, biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 45 cm - TWO
 20. Rigid Suction Tube for Bronchoscopy, O.D. 2,5 mm working length 50 cm TWO
 21. Micro Scissors, 30 cm length, 4.0 mm shaft diameter- ONE
 22. Fiber optic cable 2.5mm Diameter 1.80 meter length- 02
 23. Cold light source 250 Watt -1
 24. Mobile TROLLEY – 1 (Made of Stainless steel. Should accommodate all equipment with electrical connection on the trolley. Should have sufficient space and baskets for keeping accessories and to accommodate all the major equipment)
- The bronchoscope and all the accessories mentioned above should be supplied by the same manufacturer. In case of Essential accessories as mentioned above, they should be of the same manufacturer as that of the bronchoscope or from a reputed company or US-FDA / European CE approved/certified if being provided other than the manufacturer of bronchoscope.

4. Micro Drill And Saw System

1. Console :- 01 (Quantity)

1. Should have Software upgradeable Provision
2. Should have touch screen display control for incorporating multifunctions into systems
3. Outputs should represent in digital figures or in graphic charts
4. With inbuilt irrigating system
5. Supply 220- 240V only 50-60Hz
6. Should be able to identify different handpieces with display on console
7. Should have function of controlling brightness, contrast and alarm volumes on the console
8. Ability to recognize & accept 02 two handpieces at the same time
9. Able to change the setting of the BRAKING; Speed to provide hard or soft brake and acceleration of the handpiece
10. Torque sensing feedback capability
11. Should be programmable as per surgeon preference
12. Should be able to store user setting for different surgeries
13. Colour Display
14. On Screen Help

2. Footswitch :- 01 (Quantity)

1. Should have fully programmable footswitch as user need
2. User should be able to control following functions via footswitch
3. Forward
4. Reverse
5. Oscillation
6. Select handpiece
7. Irrigation Control with Increase/decrease water flow rate
8. Switch over to high/ low speed
9. Increase or decrease speed (Accelerator type for accurate speed control)

3. Drill Handpiece :- -01 (Quantity)

1. Maximum Speed not less than 60000 RPM
2. Should accept straight, angled attachments and contra-angle attachment
3. Should have facility of hand controlled hand switch also
4. Should be able to mount accessories/ attachments without usage of any tools
5. DC brushless motors
4. Attachments for the Drill :- 01 Each
 1. Angled Long
 2. Angled Medium
 3. Straight Medium
 4. Straight Long

Burs for the Attachments

Assorted Tungsten Carbide Cutting &Diamond from 1 mm to 7 mm 10 Burs of each size

5. Micro saws :- 01 Each

Sagittal Saw

- Maximum speed of 23000 cpm
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Oscillating Saw

- Maximum speed of 22000 cpm
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Reciprocating Saw

- Maximum speed of 18000 cpm
- Snap-lock assembly and disassembly of all attachments
- Maintenance free DC brushless motor

Assorted Blades for Sagittal, Oscillating and Reciprocating Saws

All sizes (Short, Medium, Long in Both Narrow and Wide Variant)- 5 each

6. Wire and Pin Driver :- 01

- Maximum speed of 1500 rpm
- Trigger control for variable speed control on the handpiece.
- Cannulated for use with wires and pins.
- Forward/Reverse and oscillation mode controls on the headpiece.

7. Pin Collet for Universal Driver--01

8. Jacobs Chuck with key-01

9. Wire Collet of compatible and suitable diameter-01

10. Connecting cord-02

10ft long, 3/8" diameter flexible electrical connecting cord.

Dot-to-Dot type push-pull connectors at both ends.

Autoclavable

10. Compatible Irrigation tubings-20

Instruments must be ISO/EN ISO/BS-EN-ISO certified and copy should be enclosed

Copy of the European CE / US FDA certificate must be attached.

All the motors should be maintenance free D.C. brushless motors

Should have operation from both hand switch and foot switch

All Attachments, hand piece etc should be sterilisable through Steam and Flash Autoclave.

Prior demo to be provided if needed.

5. Laryngopharyngoscopy System

Sl. No.	Name of Implant	Quantity
01	Sinoscope Rigid D= 3.0 mm Working Length=140 mm Direcion of view=70°/0°	01
02	Sinoscope Rigid D= 4.0 mm Working Length=175 mm Direcion of view=30°/70°	01
03	SLaryngoscopes Rigid Diameter= 6.0 mm/ 8.0 mm Working Length=170 mm/ 170 mm Direcion of view=70° 70°	01
04	Flexible Laryngoscope Field of view=85° Depth of field = 2.5-50 mm Outer diameter Distal end = 3.4 mm Working length = 300 mm Bending range of distal tip + up 130° down 130°	01
05	Anterior commissure laryngoscope with fiber optic light carrier Length = 17 cm-18 cm Adult Size	01
06	175 Xenon light source	02
07	Fiber optic light cable 3.5 mm	02

Group-C: Paediatrics

1. Paediatric Ventilator with Humidifier

Paediatrics ventilator

1. Description of function

ICU ventilator (Neonatal to adult) provide artificial respiratory support to critical patients

2. Operational Requirement

2.1 Should be microprocessor controlled ventilator with integrated facility for ventilation monitoring suitable for neonatal, Pediatric and adult ventilation.

2.2 The unit should be compressor based with same make and automatic switch over facility to central air supply (not a turbine/ piston/ blower based ventilator will be accepted). Demonstration of the equipment is a must.

2.3 Ventilator and compressor should be operable on mains and battery (upto 60 min)

3. Technical specification

3.1 Hinged arm holder for holding the circuit

3.2 Should have colored Touch Screen, 10 Inch or more should have facility to measure and display

(b) 3 Scalar waves – Pressure and time, volume and time and flow and time.

3.3 (c) 3 loops P-V, F-V,P-F.

(d) Graphic display to have automatic scaling facility for waves

(e) Status indicator for ventilator mode, battery life, patient data, alarm setting etc.

3.4 Should have trending facility for 24 hours

3.5 Should have Automatic compliance and leakage compensation for circuit

3.6 Should have following settings for all age groups.

(a) Tidal Volume 5 ml to 2000 ml

(b) Pressure (insp) 2 – 80 cmH₂O

(c) Pressure Ramp / Flow patterns

(d) Respiratory Rate 1 to 150 bpm, Insp. Time 0.1 to 3 sec, I: E Ratio 4:1 to 1:9

(e) Insp. Flow (Resultant) 0.2 to 180 LPM, continuous Flow 0-40 lpm

(f) CPAP/PEEP 0-35 cmH₂O

(g) Pressure Support 2-80 cmH₂O

(h) FIO₂ 21 to 100%

(i) Pause Time 0 to 2 sec

(j) Flow Trigger 0.2 to 15 lpm or Pressure Trigger 0.5 to 20 cmH₂O

3.7 Should have monitoring of the following parameters.

(a) Airway pressure (Peak & Mean)

(b) Tidal Volume (Inspired & Expired)

(c) Minute Volume (Expired)

(d) Spontaneous Minute Volume

(e) Total Frequency

(f) FiO₂ dynamic

(g) Intrinsic PEEP (or trapped volume)

(h) Plateau Pressure

(i) Resistance & Compliance

(j) Use Selector Alarms for all measured & monitored parameters

3.8 Should have modes of ventilation

(a) Volume controlled

(b) Pressure controlled – BIPAP with/without pressure support with spontaneous breathing

(c) SIMV with/without pressure support.

(d) CPAP/ PEEP

(e) Non Invasive ventilation in all ventilation modes

- (f) PRVC/ Autoflow/PSV + assured tidal volume
- (g) Apnea / backup ventilation in CPAP/ PSV, SIMV mode
- 3.9 Expiratory block should be autoclavable and no routine calibration required.
- 3.10 Should have below advanced monitoring
 - (a) Intrinsic Peep
 - (b) Occlusion Pressure, Max Inspiratory pressure (p1 Max)
 - (c) RSBI
 - (d) Patient circuit compensation
- 3.11 Should have integrated ultrasonic nebulizer with capability to deliver fine particle size of < 3 micron to be used in on line.
- 3.12 Ventilator should have optional upgradation facility for integrated EtCO₂.
- 3.13 Replacement of oxygen cells should be free within the period of warranty and CMC.
- 3.14 Should have RS232 port for data transfer and software compatible with windows. Should have facility for network connection and should be HL7 compatible.
- 3.15 With each ventilator, two sets each of reusable patient interface (masks) for non-invasive ventilation should be provided for infants, children and adolescents (that is total of six patient interfaces for non-invasive ventilation with each ventilator).

4. ICU Ventilator with imported, non corrosive trolley – 01

Adult, Pediatric, Neonatal reusable silicon patient circuit – 02 each
 Expiratory valve/ expiratory cassette – 02 nos. with each ventilator. Reusable and autoclavable flow sensor -10 nos. with each ventilator. Minimum Warranty on expiration cassette/ expiratory valve should be 3 years. In case it fails, the company/ supplier should replace it without any charge.

Proximal flow sensor for neonatal use- 05nos

Hinged Support Arm – 1 no

Oxygen Hose – 1 no ; Air hose – 2 nos.

- 4.1 Medical Air compressor (same manufacture) should be USFDA and CE Certified
- 4.2 Reusable Masks (Small, Medium, Large) with each machine – 02 each
- 4.3 Humidifier –Automated, Servo Controlled with digital monitoring of inspired gas temperature, complete with heating wire – 01; with reusable infant and pediatric chamber. Should be USFDA and CE approved product.

Power and inlet gas pressure requirement

5.1 Power input to be 220 – 240 VAC, 50 Hz

5.2 Gas input (air and oxygen) – 50-100 psi

6 Standards, Safety and Training

- 6.1 Should be US FDA and CE approved Product. The company should attach valid 510 K and US FDA certificate along with in the technical bid. The supplier must be ISO certified company.
- 6.2 Demonstration of quoted equipment model is a must.
- 6.3 Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines in the service / maintenance manual.
- 6.4 Rates of consumables should be quoted and freezed for five years.

Humidifier

- 1) Automated, servo controlled humidifiers for delivering air-oxygen mixture through hood, CPAP or ventilator
- 2) Display: Should be of LED type with at least three digits
- 3) Single key selection of optimum temperature levels for invasive and noninvasive therapies.
- 4) Heating settings:
 - Heater plate – 150 W
 - Heater plate over-temperature cutout - 118 +/- 6 °C
 - Heater with flow resistance up to 1 cmH₂O /L/sec
- (5) Temperature control settings:
 - Temperature range: 28-40 deg. C

- Invasive mode: Chamber outlet 35 -37 °C, Airway 35-40°C, humidity output >33mg/L
- Non-invasive mode: Chamber outlet 31- 36 °C, Airway 28-34 °C, humidity output >10 mg/L
- Warm up time less than 30 minutes
- Temperature control accuracy: ± 0.5 deg. C
- 6) Alarm control and settings:
 - Automatic audible and visual alarms for high and low temperatures
 - High & low humidity alarm
 - Visual indicator for water level and digital display for temperatures
 - Temperature probe faulty/disconnect
 - Heater wire or heater wire adaptor faulty/disconnect
 - Chamber probe/airway probe improperly inserted
- 7) Power supply requirements:
 - Supply frequency, voltage: 50/60 Hz, 115 V-240 V
- (8) Should be USFDA and European CE approved and should be certified for neonatal use
- (9) Detailed operator manual
- (10) Minimum 4 preventive maintenance visits per year during warranty as well as CMC and visits on call basis
- (11) Rates of consumables should be frozen for the full duration of warranty and CMC.
- (12) Accessories to be supplied with each humidifier:
 - Reusable (autoclavable) chamber, neonatal and pediatric -1 no.each
 - Heater wire adaptors suitable for a disposable circuit – 2 nos.
 - Heater wire adaptor suitable for reusable (autoclavable) circuits – 1 no.
 - Temperature probes – 2 nos

2 Multipara Monitor

• Patient monitor system should be of modular type and capable of monitoring adult, paediatric & neonatal patients.
• Monitor should have 17” 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, SpO ₂ , invasive pressures (2), temperatures (2)
• Should be compatible with Capnography, cardiac output, EEG, and BIS and prices to be offered as optional
• 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.
• ICP monitoring should be possible
• Alarm parameter should flash red in the presence of high priority alarms (e.g. ventricular fibrillation and 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.

<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • Monitor shall provide the capability enter patient information at the bedside or central monitor.
<ul style="list-style-type: none"> • On-screen keyboard for entering this data is preferable. Should have USB ports to connect mouse,
<ul style="list-style-type: none"> • Key board, bar code scanner.
<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • Position of the displayed waveforms must be user configurable.
<ul style="list-style-type: none"> • Waveform color changing should be user configurable.
<ul style="list-style-type: none"> • Monitor shall permit the optional ability to receive and display information from other patient devices
<ul style="list-style-type: none"> • Such as ventilators, infusion pumps and other standalone devices
<ul style="list-style-type: none"> • All modules should be compatible with all monitors quoted.
<ul style="list-style-type: none"> • Bed to bed communication between the monitors should be possible without a central station. Networking to central station should be possible and price of central station should be offered as optional
<ul style="list-style-type: none"> • Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospitals network infrastructure.
<ul style="list-style-type: none"> • Should be compatible with HIS and should be HL7 compliant.
<ul style="list-style-type: none"> • Monitor should provide remote viewing of real time waveforms through internet.
<ul style="list-style-type: none"> • Should be supplied with necessary accessories for adult, paediatric and neonatal accessories.
<ul style="list-style-type: none"> • Must be US-FDA certified.

Group-D: Anesthesiology

FLEXIBLE INTUBATION VIDEO ENDOSCOPE (ADULT SIZE + PED SIZE) non fiber, Qty. -2 Sets

SPECIFICATION OF FLEXIBLE INTUBATION VIDEO ENDOSCOPE (ADULT SIZE + PED SIZE) non fiber

Flexible Intubation Endoscope with CMOS chip on tip for digitally transferring the image to the screen.

There should be NO Images Fiber bundles/non fiber optics. Intubation Endoscope should display Full Frame 4/3 or 16/9 Imaging and not the circular image.

For adult outer diameter of scope should be ranging 4.8- 5.5mm with working length of 65cm or more. Up and down tip deflection should be same ranging 120-160 degrees. Working channel should be 2.0 -2.3mm and it should take ETT from 5.5 sizes onwards.

For Pediatric outer diameter of scope should be ranging 3.0- 4.1 mm with working length of 65cm or more. Up and down tip deflection should be same ranging 120-160 degrees. Working channel should be 1.4 -1.6mm and it should take ETT from 3.5 sizes onwards.

Flexible Intubation scope should display good quality picture by connecting it with 7inch or more TFT monitor/integrated LED light source (One monitor for each video Endoscope)

TFT monitor/Screen should have feature control buttons on the screen with HDMI output for connecting to a big screen.

Automatic/ manual white balance facility should be available

Monitor should run on battery, when fully charged should work for more than 60 minutes

Monitor should be upgradable

Documentation of Video & still images should be possible with operating buttons on the scope to be recorded on SD card and USB pen drive present in the monitor

- It should be light weight , high resolution & potable flexible scope
- Airway Guide (cum Bite block) for Oral intubation should be provided with the set.
- ET TUBE HOLDER has to be a part standard accessory and 5 piece should be provided
- Set should include- Suction Adaptors (Disposable), Cleaning brush & Leakage tester as standard accessories
- Container for sterilization and storage of scope should be provided
- One Trolley for each Scope
- Ten reusable suction caps to be also provided
- Equipment should be European CE/ US FDA approved
- Suitable for following applications-
 - Bronchoscopy
 - Endotracheal Intubation
 - Foreign body removal
 - Bronchial Lavage
 - Inspection of the Airways
 - Dilatation Tracheotomy
- biopsy forceps, grasping forceps should be provided with alligator jaw
- Trolley from same manufacturer
- USFDA or CE European approved
- Warranty 5yrs and CAMC 5 yrs.
- Rate of consumable should be quoted separately
- Note: All equipment's /accessories should be reusable /Autoclavable/ chemical sterilization
