Bidding document for-

Group A: Supply, Installation & Commissioning of Biomedical Equipments for the department of Dentistry Group B: Supply, Installation & Commissioning of Biomedical Equipments for the department of Heamatology Group C: Supply, Installation & Commissioning of Biomedical Equipments for the department of CTVS Group D: Supply, Installation & Commissioning of Instruments for the department of Urology Group E: Supply, Installation & Commissioning of Biomedical Equipments for the State Cancer Institute Group F: Supply, Installation & Commissioning of Biomedical Equipments for Tissue Bank

# **BIDDING DOCUMENT**

# URGENT SHORT E-TENDER NOTICE No: 04/2021- 2022/Bio-Medical Equipment/IGIMS/Store



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

URGENT SHORT E-TENDER NOTICE No: 04/2021- 2022/Bio-Medical Equipment/IGIMS/Store

Issued to:

Cost of Document: Rs.2500/-

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**

1.	Name & address of advertiser	:	Director, IGIMS, Sheikhpura, Patna- 800014 (Bihar)
2.	Date of issue of E-Tender notice	:	03/ 06/ 2021
3.	Period for download of tender document only on <u>www.eproc.bihar.gov.in</u> .	:	From <b>03/ 06/ 2021 to 14/ 06/ 2021 up to 12.00 hours</b> through above website
4.	Last date & Time for submission / uploading of complete tender at www.eproc.bihar.gov.in.	:	<b>14/ 06/ 2021</b> up to 17.00 Hours
5.	Last date, time and place for submission of hard copy of the Technical bid along with EMD & Tender Document Fee at Director's office, I.G.I.M.S., Patna by Speed / Registered post / Courier only	:	<b>15/ 06/ 2021 up to 16.00 Hours</b> , at Director IGIMS, Patna-800014 (Bihar)
6.	Date, Time and Place of opening of Techno Commercial bid only on www.eproc.bihar.gov.in.	:	<b>16/ 06/ 2021 at 15.00</b> hours on <u>www.eproc.bihar.gov.in</u>
7.	Date, Time and Place of opening of price bid	:	Date & Time will be communicated later on subsequent to acceptance of techno- commercial bid at <u>www.eproc.bihar.gov.in</u>

# 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...... 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 SUBMIITED IN SEPRATE ENVELOP. TENDERS NOT ACCOMPANIED WITH EMD / BID SECURITY ALONG WITH 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.
- 8. I/we have quoted the price in Indian Rupee only.

Yours faithfully,

(Signature of Bidder with full name and address)

# CHECK LIST FOR TERMS AND CONDITIONS

# A.: <u>To be filled by the bidder and submitted along with the Technical Bid.</u>

Sr. No.	Terms & Conditions as per Bidding Document	Page No. (Please mention the page nos. of the technical bid where the concerned document is attached)	Remarks
1.	Status of Bidder:		
	<ul> <li>Manufacturer or Authorized Agent of the Manufacturer</li> </ul>		
	• 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 ownersmp / partnersmp		
<i>S</i> .	Statements of tumorum per user for last three successive		
0.	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 <b>Head of the dept. or Institution</b> after a minimum		
10	period of six months of installation Decregoricite (if any) for installation of the Machine if		
10.	any to be provided by the Institute		
11	Whather rates quoted are inclusive of all taxes or not		
11.	Whether rates are quoted as per format mentioned in the		
12.	Bidding Document or not.		
13.	Affidavit to the effect that the bidder is not blacklisted		
	by any Govt. agency or has no pending case either Civil		
1.4	or Criminal against them.		
14.	Affidavit, to the effect that the bidder is not supplying the guoted item(g) to any other Cout /Somi Cout		
	Organizations / Institutions / Hospitals at the rate lower		
	than the rate quoted against this tender.		
15	<b>Ouality Assurance Certificate</b> like ISL ISO-9002		
	IP/BP, ICMED 9001/ ICMED 13485/ICMED 13485		
	Plus/CE/USAFDA/QCI or any other (please specify)		
16.	Bid Security amount deposited is enclosed or not. If		
17	yes, please mention the details.		
17.	<b>Uriginal Technical Catalogue</b> of the quoted model.		
18.	Ceruincate, to the effect that bidder will maintain the quoted item(s) during Warranty period of three years as		
L	quotee nom(s) during mananty period of three years as		

	mentioned against each item 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.	<b>Item wise price in Indian Currency for the item(s)</b> as		
	mentioned in the Bidding Document and as per format		
	attached as Annexure – I		
2.	Rate for Comprehensive Annual Maintenance		
	Contract as per terms & conditions mentioned in the		
	Bidding Document and as per format attached as		
	Annexure - II		

<u>Note:</u> 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 and price should be mentioned in Indian Rupees.

(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.	
	(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.	
	(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. 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.	
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 endings 31 <sup>st</sup> March 2020.	
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 predetermined 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. <u>Tendering System</u>

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

- **3.** Quantity of items may increase or decrease. Director, I.G.I.M.S. Patna reserves the rights to purchase different sub items/ components of items from different bidders.
- 4. The "Bidding Document" along with terms and conditions, technical specification can be obtained from the office of the Store Officer, IGIMS, Patna on payment of **Rs.2500/-(Rs. Twenty five hundred 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 15/06/2021 up to 4.00PM by speed/Regd. post/ Courier only and technical bid will be opened on 16/06/2021 at 3.00 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 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 30<sup>th</sup> 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.
- 8. Bidder(s) should enclosed photocopy of Income tax & sales tax clearance certificate.
- 9. 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 department 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.

## 10. 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?

### 11. <u>After Sales Service Conditions</u>:

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. <u>Guarantee/Warranty Terms</u>:

- 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. <u>Comprehensive Annual Maintenance Contract</u>:

- 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 is 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.

SI. 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.
с.	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 thePeriod.

# 12. <u>Time Limits prescribed</u>

f.	Submission of Performance Security and	10 days from the date of issuance of Letter of
	entering into contract	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.

- **13.** 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.
- 14. 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.
- **15.** Supplier will submit undertaking for ensuring uninterrupted supply of spares during the total life span of the equipment's.
- **16.** Indian agency commission and Installation charge if any will be paid in Indian rupees after successful installation and demonstration of the equipment's.
- 17. Principal's Invoice of the quoted items must be submitted with the quotations.
- **18.** Proof of the official Indian agent certificate of the firm must be attached. (Notary Certified Photocopy)
- **19.** In order to fully and optimally utilize the equipment, training to Para Medical Staffs and Doctors should be provided. In continuation to this training, separate maintenance training for the machine and the sub systems should also be given to the "Equipment Maintenance Engineer" and "Equipment Maintenance Technicians". All the financial commitments in this regard shall be met by the bidder(s).
- **20.** Bidder(s) have to submit an affidavit to the effect that they have not supplied the offered item(s) to any Govt., semi Govt. /Organization, Institution, etc. at the price lower than the price offered to I.G.I.M.S. Patna.
- **21.** 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.
- 22. Bidder might be required to demonstrate the system at the discretion of the institute.

### 23. 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 forfeited and the award will be cancelled.
- c. The Notification of Award shall constitute the conclusion of the Contract.

# 24. 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.

**25.** The Director reserves the right to accept or reject any or all tenders without assigning reasons.

26. The Director reserves the right to modify, add or delete any terms & conditions of the contract as and when required.

# 27. <u>Amendment of tender documents</u>:

- 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 <u>www.igims.org</u> 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.
- 28. The Dispute, if any, will be subject to Jurisdiction at Patna (Bihar).

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

# **CONDITIONS OF THE CONTRACT**

# 1. <u>Duty Free Clearance, Transportation, Forwarding & Handling Charges</u>:

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 in **Indian Rupees only**.

# 2. 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.

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

# 1 Year = 365days

### 95% of 365 days = 347 Days per annum

- e. The bidder shall compensate the uptime less than the specified above for **every additional day** of down time over and above 18 days stipulated above, warranty period will get extended by one week as penalty at no extra cost i.e. the extended penalty period will be equal to one week for every additional day of down time.
- f. During warranty period, **bidder** will make the "**Complete System**" in satisfactory working condition. In case, any spare parts, accessories, PCB, consumables etc. needs replacement due to normal wear and tear, **bidder** will supply and install the same for which no additional payment is to be made with 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 biding on both the parties.

### 4. 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, 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 biding on both the parties.

# 5. <u>Performance Security</u>

- a. There will be a 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 security money deposit, 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 security money deposit 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 security money deposit 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.

### 6. Delivery period/Liquidated Damage: -

Goods should be delivered within three months after receipt of Supply Order. 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.  $1^{st}$  extension for a month or a part thereof @ 2% per month.
- ii. 2<sup>nd</sup> extension for an additional month or a part thereof @ 3% per month subject to maximum Limit of 20% of the order items.
- iii. Cancellation: If delivery is not done even after 2<sup>nd</sup> extension Institute shall have the right of cancellation of Supply order at its discretion. The institute may also cancel the supply order without giving any extension.

# 7. Payment:-

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.

## 8. Validity of Price:-

# Upto 31<sup>st</sup> March 2022

# 9. <u>Part Supply</u>:

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. <u>Responsibility:-</u>

The principal as well as its agent will be severally and jointly responsible for ensuring the minimum life span of 10 years for the equipment. Both the said principal abroad and his Indian agent will have the full responsibility for the proper functioning of the equipment/instruments within the warrantee period and thereafter during the life span of the equipment

**16.** The bidder is required to provide list of persons (along with their permanent and correspondence address) owing more than 1% share ownership in the company/firm (both principle and Indian Agent).

- **17.** The bidder is required to submit compliance sheet, which should reflect details of clause-by-clause compliance of technical specifications as well as general terms & conditions failing which their offer shall be rejected.
- **18.** In order to fully and optimally utilize the equipment, training to paramedical staff and Doctors should be provided. In continuation to this training 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/ Security money deposit,
- c. termination of the contract,
- d. Blacklisting/debarring of the bidder.

## 20. Termination of Contract

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

# 21. Fall Clause:

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

List of Equipment's	Tentative quantity
Group A: Dentistry	
CBCT Unit	1 No.
Dental Operating Microscope for Endodontics	1 No.
Group B: Heamatology	
Fully Automated Coagulation Analyzer	2 Nos.
Trinocular Microscope	5 Nos.
Multi Discussion System – Penta Head	2 Nos.
5 Part Hematology Analyzer	1 No.
Incubator	2 Nos.
Centrifuge	5 Nos.
Group C: CTVS	
Extra Corporeal Membrane Oxygenation (ECMO)	2 Nos.
Group D: Urology	
Open Surgical Instruments	
Group E: State Cancer Institute	
	10 Nos.
Anaesthesia Work Station with Monitor	(2 no. for Trauma &
	Emergency)
<b>Therapeutic Chairs for Chemotherapy Treatment</b>	15 Nos.
Group F: Tissue Bank	
Laboratory Lyophilizer	2 Nos.
Pulse Levage System	2 Nos.
Electric Power Drill System	2 Sets.

# ANNEXURE - I

# PRICE SCHEDULED

# LOCATED WITHIN INDIA

				1							
1	2	3	4					5			6
								Price per unit (R	s.)		
Sche dule d	Brief descript ion of goods Make: Model:	Count ry of origin	Qty. nos.	Ex- factory/ ex- wareho use /ex- showro om/off- the shelf	Excise duty( if any) % and value.	GST (if any) % and value.	Packin g and forward ing charge	Inland transportation , insurance for a period including 3 months delivery, loading/ unloading and incidental cost till consignee site.	s.) Incidental services ( including installation and commissionin g, supervision, demonstration and training) at the consignee site.	Unit price (at consignee site basis(g)	Total unit price ( At Consigne e Site) Basis Rs. 4x5
				(a)	(b)	(C)	(d)	(e)	(f)	(a + b + c + d + e + f)	(g)

Total quoted price in Rs. In Words:

### Note:

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

2. The charges for Annual CMC after warrantee shall be quoted separately as per price scheduled.

Place: Date: Name: Business Address:-

Seal and Signature of the bidder

# <u>ANNEXURE – II</u>

### COMPREHINSIVE ANNUAL MAINTENANCE CONTRACT PRICES SCHEDULE

Sl. No.	Item Description	1 <sup>st</sup> Yr.	2 <sup>nd</sup> Yr.	3 <sup>rd</sup> Yr.	4 <sup>th</sup> Yr.	5 <sup>th</sup> Yr.	6 <sup>th</sup> Yr.	7 <sup>th</sup> 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)
а	b	с	d	e	f	g	h	i	j
1.	Name of the Equipment: Make: Model: Qty.:								
2.	Name of the Equipment: Make: Model: Qty.:								

# <u>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"):</u>

- 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, Deionizer, 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

Dated:

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

То

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

Dear Sir,

Tender No Equipment Name

:

:

- 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/warrantee /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:

<u>Note:</u> 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.

# <u>ANNEXURE – IV</u> BANK GUARANTEE FORM

То

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

## (TO BE SUBMITTED WITH TECHNICAL BID)

## POWER OF ATTORNEY

### (On a Stamp Paper of relevant value)

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 202\_ For\_\_\_\_\_

(Name, Designation and Address)

Accepted

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

Date : \_\_\_\_\_

# **Specification & Allied Technical Details**

# **Group-A: Dentistry**

# 1. <u>TECHNICAL SPECIFICATION OF CBCT UNIT</u>

- CBCR machines should be combination of 3D CT, panoramic and cephalometric to meet all diagnostic needs. It should have dedicated sensors for each mode.
- Should have high resolution CT technology.
- X –Ray tube head- Tube voltage should be between 60-90 kv

Tube current 1-10 mA (approx)

Focal spot range 0.5 mm

Exposure Time 5sec-25 sec( depending upon multiple FOV)

- Should have numerous field of view options 4cmx4cm to 16cm x 18cm or more. Should have automatic switching from 2D to 3D and 3D to 2D
- Voxel size: range 70-micron to 250 micron or more.
- Capture all diagnostic images in one fast scan.
- Should follow rapid scan and fast reconstruction times
- Scout mode to avoid positioning errors.
- Machine console should be user friendly

## SOFTWARE

### **IMAGING SOFTWARE:**

- The software use to view the image should be intuitive and easy to use for capturing and evaluating the images.
- Should have software which have advance functions and applications, user-friendly programmes with advance diagnostics treatment planning tools / annotations.
- Quick and simple image sharing with capacity to share raw data
- Should have tools for adding comments on scanned volumes
- Customizable reports layout, software must cover entire work flow
- Viewer CD should include complete software for end-user
- Should have selectable cross sectional planning software- curved , linear with 3D volume rendering
- Should have software to reduce artifacts due to amalgam, metal
- Should be DICOM compatible
- Implant Dentistry- should have nerve tracing, digital virtual implant treatment planning with upgraded implant library, Evaluate mean value of bone quality/quantity of localized area or interest
- Endodontic should have high resolution for accuracy in visualization of the MB2canals in upper molars
- Periodontics Cone beam CT should allows to see bone levels in three dimensions around a tooth.
- Orthodontics- Cone beam should allow to create cephalometric reconstructions and tracing from the images, could visualize the postion and orientation of an impacted canine tooth
- Oral surgery- can see the exact location in relation to adjacent teeth, as well as to an inferior alveolar canal, bilateral TMJ assessment.
- Airway, paranasal sinus analysis—come beam should allows airway analysis, Ear analysis
- The bidder should submit documents/catalogue supporting capacity to carry out above clinical job and should arrange the demonstration in the department.

## Hardware

- Latest version of PC with latest Windows operating system CPU: 4-8 core Intel Core i9/ Graphics : AMD Radeon PRO 570 x/ 580x/Vega 48 or Nvidia Geforce GTX 1060 6 GB GTX 1070 RAM:32-64 GB Storage : 3 TB or more, supportive anti virus
- The system should include 2 suitable units with 32" or more touch panel, 1 for image acquisition and 1 for image reconstruction and proper connectivity to create work station for image and raw data transfer from one system to other.
- Suitable DICOM printer with 2 trays online 8x10 & 10x12 for Unit ,> 500 DPI print resolution and also 1 inkjet colored printer.
- Films of CBCT unit (OPG, Ceph) should be compatible with any brand for DICOM printing
- Hevy duty UPS for Unit & computer. Minimum 10 KVA with 30 mins. Backup.

### Other essential requirements

- US FDA/ European CE certificate
- The unit should have AERB clearance and be approved by AERB
- The system should have 3 years warranty and 7 yrs AMC from the date of installation.
- The machine should have supply in major Institute of India like PGI Chandigarh, AIIMS or reputed institute. They should Provide list of Government Institute / reputed centers where similar equipment has been supplied.
- Company should declare any consumable with its price. (x-ray films of multiple sizes for OPG,CEPH,CBCT images, disposable plastic sleeves for bite block of respective sizes, glossy pages for colored printer)
- Company will upgrade the machine with latest software during the life span of equipment
- Lead apron, thyroid collar, gonadal shield, Lead Barrier with glass window should be provided
- Inhouse training/ assistance for radiologist and radiographer and periodic training as and when required should be arranged.
- Development of installation areas as per AERB requirement.
- Cost should include transportation, installation.
- CBCT unit with advanced and latest technology will be preferred.

# 2. <u>TECHNICAL SPECIFICATION FOR DENTAL OPERATING MICROSCOPE FOR</u> <u>ENDODONTICS</u>

- 1. Microscope should have working distance of 200-451 mm continuously variable through motorized multifocal lens, activated through Hand switch and through control panel. Manually adjustable.
- 2. Microscope should have Motorized zoom system with apochromatic 1:6 ratio, magnification factor 0.4x 2.4 xs with total magnification of at least 14 xs without any multiplier.
- 3. Microscope should have motorized focus & Zoom facilities via multifocal lens activated through Hand Control panel. Also have facility for manually adjustable override.
- 4. Microscope should have Magnetic clutches for all system axes controllable by handgrip.
- Main surgeon Binocular Tube should be Tillable tube of 0 to 180 degree or better (f= 170mm/ 200mm). Eye piece 12.5 x magnetic wide field eyepiece with integrated eye cups for Main surgeon Binocular tube with diopter correction of + 5 D to - 8D
- 6. Microscope should have Xenon with Xenon back up illumination system with fast action lamp changer. Individual light Threshold setting & display of remaining Lamp life.
- 7. Microscope should have multi-functional programmable Hand Grip with Ergonomic handles with focus, zoom Illumination Control & all Axis Control with motorized brake system. Color graphic touch screen control panel for control/ change all microscope parameers.
- 8. Microscope should have facility of Stereo co-observation /assistant Scope with Minimum two joints for 360 degree movements. Should be provided with Tiltable/straight Binocular Tube with 12.5x wide field eyepiece with integrated eye cups for main surgeon Binocular tube with diopter correction of + 5D to -5D
- 9. Microscope should be supplied with built- in Integrated full HD Medical Grade (1080P) video camera (c-mount Camera won't be acceptable)
- 10. Microscope should have full HD recorder (1080P) with integreated HDD for storage. Recorded should have HDMI input/output
- 11. Microscope should have Beam splitter with documentation port. Stereo co-observer foot control panel for zoom and focus, splash protection for the objective lens, drapes, sterilizable asepsis caps and handgrip covers instruments tray on floor stand should be supplied along with it
- 12. Accessories should include following.
  - i. 1smart LED Tv min 55 inches of a reputed make, compatible with Endodontic microscope for viewing.
  - ii. 1 PIXMA G6070 Colour printer which can print, Scan, copy. The ISO standard print speed should be (A4) : 13.0 ipm black/6.8 ipm colour Hi-speed USB 2.0 and should have wireless technology.
  - iii. 1 Apple iMac (27-inches Retina 5K display, 3.4 GHz quad-core Intel core i5, 8 GB RAM 1 TB personal computer with video editing and windows office software along with antivirus.
  - iv. 1 intra oral camera compatible with I MAC all in one PC.
  - v. 1 offline UPS of 2 KVA with backup of 30 minute
  - vi. 1 unit of Pro ultra Endosystem XT piezoelectric ultrasonic unit for performing endodontic treatment, retreatment and other dental procedure.
  - vii. 2 sets of Pro Ultra Endodontic Tips no 1 to 8 for instrument retrieval and
  - viii. 2 sets of Ultra Access refinement Tips 1 to 6 should be supplied along with the microscope.
- 13. Microscope must have European CE/US FDA certification.
- 14. In electrical Data: The microscope should have automatic Circuit Breaker and Voltage : 115/230 V +/- 10%

15. After sale& service should include warranty of 3 years, Annual maintenance for 7 years, all necessary after sales& Service should be provided by the supplier/Manufacturer company.

# Group-B: Hematology

# 1. Fully Automated Coagulation Analyzer

1. System should be bench top fully automated Coagulation analyser and latest model. The model should be latest one up to the date of delivery to the institute.

2. System should be based on Viscosity based detection system/ Optical Based detection system.

3. Company should be in coagulation business for at least 5 years in India dealing/supporting similar equipment/ workloads.

4. Capable run Clotting assay, Chromogenic assay & Immunoturbidimetric assays.

5. System should be capable to perform Parameters namely PT, APTT, TT, ATIII, Heparin, Lupas Anticoagulant, Fibrinogen, UFH & LMWH, D-dimer, PC, PS, FVIII & FIX.

6. Should have liquid ready to use reagents for APTT, Fibrinogen & D-Dimer.

7. Should have throughput of 130 PT test/ hour or more and combined throughout of 100 Tests/hour for PT & APTT or more.

8. System should have cap piercing option for vacutainers.

9. System should be Insensitive for Hemolytic, Icteric & Lipemic samples.

10. System should have minimum 40 reagent positions. All reagent positions should be temperature controlled and maintain temperature from 15 to 19 deg C. System should have the ability to place each reagent in any positions and analyzer will detect automatically without manual intervention.

11. System should have positive barcode identification for reagents. Barcode identification for reagent name, Lot number, Expiry, on board stability.

12. System should have minimum 90 samples position carrousels for primary tubes or more. Capable of adapting pediatric tube & Microtainers.

13. System should have positive barcode identification for samples & reagents.

14. System should have continuous sample loading with all positions for STAT mode

15. System should have separate probes for Samples, Reagents 1 & reagent 2 with Liquid level detection.

16. System should have minimum 800 or more unitary cuvettes on board with continuous loading capability.

17. Pre calibrated assays for PT, FIB, D-Dimer, Free Proteins.

18. Equipment manufacturer should have PT reagent with IS1 of 0.9-1.1.

19. The reagent & Instrument should be from same manufacturer.

20. Equipment manufacturer should have APTT with Polyphenol as activator for optimum sensitivity to factor deficiency and low sensitivity to transient circulating anticoagulants for accurate & reliable results.

21. Company should have D-Dimer with linearity of up 20,000 ng/ ml with automated dilution option & specificity of more than 70 % for PE and no interference to RF up to 1000 IU/ml.

22. System should have multi-tasking software with touch screen with LCD display.

23. At least 7000 patient's tests memory with one-year IQC storage capability

24. System should have QC management with Levy Jennings chart with daily & Monthly review.

25. System should have automatic rerun capability.

26. System should run FVIII Chromogenic assay.

27. Cost of reagents, controls, calibrators and buffers supplied by the company as per catalogue should be fixed for next 5 years.

28. Company should take care of proper external and internal quality controls of the system.

29. Company should provide onsite training to the faculty and technicians, emphasizing the details of machine and its analysis free of charge.

30. Company should provide Technical team round the clock if there is system failure and for troubleshooting.

31. The company should shift the complete instrumental set up and reinstall from one campus to another campus free of cost as and when required.

32. Comprehensive warranty with parts and accessories for 5 years and without parts and accessories for next 5 years.

33. Suitable online UPS with 1 hour back-up/ laser printer and 24" monitor should be included.

34. System should be bidirectional LIS compatible.

35. Suitable workstation should be supplied for online analysis along with machine.

36. The system should be both CE & FDA approved.

37. The company should supply all the startup reagents inclusive of calibration standard sets free of cost.

# 2. <u>Trinocular Microscope:</u>

Sturdy solution designed for a long operating life (10 years and longer). Made from durable materials using minimum of 80 percent metal. Microscope should have a ECO Mode.

**Observation with photo tube:** swivelling Siedentop-tube, binocular phototube, 250 inclination (viewing angle), adjustment for interpupillary distances from 48 mm to 75 mm and invariable splitting ratio: 50% Visual and 50% Documentation

**Stage:** rectangular, built in mechanical stage with vernier scale (minimum: 185mm x135 mm) and specimen holder for two slide with spring clip left and long co-axial drive

Condenser: Abbe condenser (0.9/1.25) with slot

Nosepiece: 5 Position nosepiece, tilted backwards Objectives: Plan achromat: 4x, 10x, 40x, 100x oil immersion

Eyepieces: widefield, 10x/22, FOV 22mm, adjustable

**Brightfield illumination (Interchangeable – HAL/LED) in transmitted light mode:** White light LED, minimum 3W with a lifetime of approx. 35,000 Hrs.

Light manager for automatic adjustment of Intensity over all magnifications. LED indicators on both sides of the microscope. Transmitted light mode should have provision for HAL 6V /30 W Illumination also. (Interchangeable with LED) All optics have to be **anti-fungus** treated.

Color filter set blue, green and yellow to be offered.

Dustcover to be included

### Camera:

Color camera 8 Megapixels or better, pixel count -3840\*2160, exposure range of 0.06 ms to 1 s with a frame rate of 30 fps with a passive cooling system. And should have interfaces - HDMI, USB 3.0 Type C , Ethernet , Micro-D Full 4k Resolution in 30 fps

Images can be snapped with a single button. Automatic adjustment of parameters and scaling information. Does not require a PC or additional software – should be used in stand-alone operation with camera control by on screen display via mouse and keyboard without PC and save images on USB flash drive

Automatic exposure and gain regulation at ultra HD resolution(4k), auto white balance fast live image under low light conditions.

Microscope has to fulfil the standards: CE, CSA, UL, European Council Directive 98/79/EC (In-vitro-diagnostics)

Microscope and camera should be from same manufacturer.

The manufacturer has to fulfil the standards ISO 9001, ISO 13485.

Warranty for **three** years.

Schematic diagram of the microscope to be provided.

# 3. Multi Discussion System – Penta Head

### Stand:

Upright stand Transmitted Light Path with Infinite Optical System. Full Kohler StandECO mode and light management control button - snap button on microscope stand

#### Light intensity manager:

To produce uniform brightness among at all magnifications

### Illumination:

LED 10 W with minimum working life of 60,000 Hours

Optional Halogen light Source HAL 35 W to be quoted

### **Contrast Techniques:**

Brightfield. Upgradable for darkfield, phase contrast.

### Mechanical Stage Details:

Mechanical stage with travel dimensions 75 X 50 mm or better.

### Stage carrier and condenser carrier

Stage carrier D/A; attachable and vertically adjustable for microscope, to accommodate screw-on stages. Condenser carrier with vertical adjustment on both sides for use with attachable microscope stage carriers, adjustable height stops.

### Specimen holder:

Dual slide holder for one-hand operation

Eyepiece of main observer:

10X/ FOV 23.

Nose Piece turret:

Reverse tilted with 5 position encoded nosepiece.

### **Objectives:**

A-Plan 5X, 10X, 20X, 40X and 100X oil or better.

#### **Condenser:**

Condenser with NA 0.9 for BF and should be upgradeable for DF, Ph, DIC for both glass and plastic dishes **Binocular tube :** 

Binocular tube with phototube. Viewing Angle: 30° Viewing Height: Siedentopf design with different viewing heights from 449-485 mm.

### Camera :

Color camera 8 Megapixels or better, pixel count -3840\*2160, exposure range of 0.06 ms to 1 s with a frame rate of 30 fps with a passive cooling system. And should have interfaces - HDMI, USB 3.0 Type C , Ethernet , Micro-D Full 4k Resolution in 30 fps

Images can be snapped with a single button. Automatic adjustment of parameters and scaling information. Does not require a PC or additional software – should be used in stand-alone operation with camera control by on screen display via mouse and keyboard without PC and save images on USB flash drive

Automatic exposure and gain regulation at ultra HD resolution(4k), auto white balance fast live image under low light conditions.

### **Teaching Attachment:**

Should have teaching head for five persons (1+4) including main observer, binocular tube with 23 mm F.O.V or more along with paired eyepiece 10X magnification, 23mm F.O.V. Should have three color LED arrow pointer – Red, Green and White. To ensure optimal visibility of the pointer when reviewing specimens with different stains, the pointer's intensity and color have to be adjusted

### **Image orientation:**

The image orientation should be identical for all observers and should be completely independent of the configuration **Microscope, Camera and accessories of teaching attachment should be from same manufacturer.** 

### Microscope, Camera and accessories of teaching attachment should be from same ma

Schematic diagram of microscope to be supplied.

SOFTWARE: Should have licensed measurement software with image analysis and recording features .

Certification: Bidders should strictly quote latest model as per above specification. System should comply international quality standard with certification USFDA, CE, ISO, UL

There should be provision for demonstration before final approval of equipment.

System should come with a minimum of 3 years warranty.

# 4. <u>5 Part Hematology Analyzer</u>

The instrument should be fully automated flow cytometry based 5-part differential hematology analyzer offering automatic start-up, shutdown and sample-analysis.

The instrument should have random access discrete analysis modes for CBC, CBC+DIFFERENTIAL

The instrument should have minimum 25 PARAMETERS reported:

WBC, RBC, HGB, HCT, MCV, MCH, MCHC,RDW-SD, RDW-CV, PLT, NEUT %, LYMPH %, MONO%, EOS %, BASO %, NEUT #, LYMPH #, MONO #, EOS #, BASO #, PDW, MPV, PCT, P-LCC

THREE HISTOGRAMS – WBC, RBC, PLT and ONE SCATTERGRAM

The instrument should have throughput of minimum 80 samples per hour in both the discrete analysis modes.

The instrument should have the following analysis modes , Manual – open , Capillary mode , Pre dilute mode and Sampler mode.

The instrument should have impedance method for RBC/PLT channel.

The instrument should use Cyanide free reagents for the hemoglobin measurement

The instrument should be equipped with semiconductor laser based flow cytometry for Differential channel.

Instrument should have options for auto sampler & integrated barcode reader.

Sample volume should not exceed 20 µl

Analyzer must have facility for real time reagent monitoring

Analyzer must have facility to auto dispense Pre defined volume of diluent for Pre dilute mode

It must have provision to incorporate morphological findings and other test results like ESR, CRP etc in the instrument report printout

The instrument should have COMPREHENSIVE INFORMATION PROCESSING SYSTEM with: User-friendly software. 100000 sample data with histogram and scattergrams storage.

500 QC files each with 300 points for QC can be stored.

It should have high linearity of over 3 Lac for WBC's ,over 25 Lac for Platelets

The company supplying the instrument should have a good track record and excellent service and distributor network in Patna.

Analyzer must be US FDA / European CE approved

System should have QC management.

Cost of reagents, controls, calibrators and buffers supplied by the company as per catalogue should be fixed for next 5 years. Company should take care of proper external and internal quality controls of the system.

Company should provide onsite training to the faculty and technicians, emphasizing the details of machine and its analysis free of charge.

Company should provide Technical team round the clock if there is system failure and for troubleshooting.

The company should shift the complete instrumental set up and reinstall from one campus to another campus free of cost as and when required.

Comprehensive warranty with parts and accessories for 5 years and without parts and accessories for next 5 years.

Suitable online UPS with 1 hour back-up/ laser printer and monitor should be included.

System should be bidirectional LIS compatible.

Suitable workstation should be supplied for online analysis along with machine.

The system should be both CE & FDA approved.

The company should supply all the startup reagents inclusive of calibration standard sets free of cost.

# 5. Incubator

- ISI Mark
- Double Walled Construction
- Inner chamber made of Anodized Aluminium or Highly Polished Stainless Steel
- 75 mm gap between the walls must be filled with special grade glass wool for proper insulation
- Temperature must be controlled by capillary type thermostat from ambient to 80°C
- Air ventilators should be provided on both sides at top to flue away any gas or fumes.
- The equipment should be provided with a panel having a thermostat control knob, ON/OFF switch and two pilot lamps.
- No of shelves 3
- Size of Chamber:  $605 \times 910 \times 605 \text{ mm}$

# 6. <u>Centrifuge</u>

- > Refrigerated multipurpose bench-top centrifuge 1 Lit capacity
- > System should be capable of using fixed angle and swing out rotors with adapter to use different tube formats.
- > System should maintain temperature range  $-9^{\circ}$ C to  $40^{\circ}$ C
- > System should have a maximum Capacity of 4 x 250 ml bottles and 2 x 5 MTP
- > Maximum speed for fixed angle rotors should be 14,000 rpm and RCF 20,913 xg force, for swing out rotors maximum speed of 4,500 xg force
- > System should have user-friendly operation; key panel with provision to set speed RPM / RCF, radius correction values that can be changed during centrifugation.
- > System should have fast temperature function for rapid cooling of centrifuge and stand-by cooling options
- > System should have an in-built condensate drain to prevent water accumulation
- > System should have excellent temperature control with compressor running continuously during the run time
- > System should have automatic shut off function to reduce energy consumption and to extend compressor life when not in use for long hours
- > System must be equipped with automatic rotor recognition and imbalance detection for maximum operational safety
- > Timer setting 1 min to 99 min, with continuous run function and separate short spin key with selectable rotational speed
- > System should have 10 acceleration and deceleration steps
- > Noise level at max speed should be less than 58 dB(A) for quite operation in work place
- > Rotors and rotor lids should be made of metallic and must be fully autoclavable at 121°C
- > Centrifuge lid with soft-touch lid closure, and low opening height for stress-free lid locking
- > System must have a smallest possible foot print and smallest lid opening height for easy sample accessing while loading and unloading samples
- > System should have LCD display
- > Features in the quotations should be substantiated with proper company catalogue
- > System must be European CE Certified
- > Warranty of at least one year from the date of successful installation in the lab

#### Rotor

- >> High-speed swing-bucket rotor for applications up to  $4,500 \times g (5,000 \text{ rpm})$
- >> Rotor A-4-44 accommodates tubes from 0.2 mL to 100 mL
- >> Aerosol-tight caps1) for safe centrifugation of hazardous samples optionally available
- >> Rotor, buckets, caps and adapters are autoclavable (121 °C, 20 min)
- >>Adapters for 1.5 2.0mL, 15 mL and 50 mL

# 1. Extra Corporeal Membrane Oxygenation (ECMO)

### **Technical Specifications**

1. It should be small, compact, light in weight, movable with big lockable castor wheels.

- 2. Machine should have:
- A. Console
- B. Centrifugal Pump
- C. Oxygenator
- D. Heating Unit

3. Detailed specification for each component:

### A & B. Console with Centrifugal Pump:

Should have integrated bubble sensor & a separate level sensor to monitor level.
Should supply with an Emergency Hand Crank.
Should have an adjustable arm assembly to hold its Drive Unit & it should be able to fix it in any position.
Should have battery back up for minimum 1.5 hours.
Should have RPM speed 0-5000 RPM.
Should have Flow Rate 0-9.99 liters per minute.
Should have a warning Alert to the Operator that he has taken necessary clamp/valve to prevent back flow.
Should be possible to set higher & lower limit for RPM along with low limit setting for LPM.
Should have an integrated flow-measuring sensor.
In case of any error message, an acoustic alarm must be sound.

### C. Oxygenator:

Certified for continuous use for at least 14 days CE Mark for adults and 28 days CE mark for Pediatric applications.

### **D. Heating Unit:**

Temperature setting range of water temperature should be 30 to 39 degree Centigrade with increments of 0.1 degree Centigrade.

Should have digital display for set & outlet temperature & should be capable of showing alarm indications. Water reservoir capacity should not be more than 2 liter.

### Miscellaneous:

Should have an advanced cart design maximizing safety and convenience to move the complete unit anywhere. Should have a standard I.V. pole and provision for a second one. Should have a convenient oxygen cylinder holder. Should have a Gas Blender. Should be **CE/US FDA** certified.

### ECMO Consumables:

The Circuit should Pre-Configured with

- a. Oxygenator
- b. Tubing with bioline coated (heparin+albumin)
- c. Pump-head (heparin+albumin coated)
- d. Heat exchanger and
- e. Any other accessories to make the system functional fully.

# 1. Open Surgical Instruments

Sl No.	Description	Quantity
1	METZENBAUM (BABY) Dissecting Scissors, curved, 145 mm (5 3/4"), delicate pattern, blunt/blunt, large rings,	5
2	METZENBAUM SUPERCUT Dissecting Scissors, curved, 180 mm (7"), wave cut, blunt/blunt,	5
3	METZENBAUM (BABY) SUPERCUT Dissecting Scissors, curved, 145 mm (5 3/4"), delicate pattern, wave cut, blunt/blunt,	5
4	METZENBAUM (BABY) SUPERCUT Dissecting Scissors, straight, 145 mm (5 3/4"), delicate pattern, wave cut, blunt/blunt,	2
5	JAMESON SUPERCUT Dissecting Scissors, curved, 130 mm (5 1/8"), delicate pattern, wave cut, blunt/blunt,	5
6	METZENBAUM (BABY) DUROTIP TC Dissecting Scissors, curved, 145 mm (5 3/4"), delicate pattern, wave cut, blunt/blunt,	4
7	METZENBAUM DUROTIP TC Dissecting Scissors, curved, 180 mm (7"), delicate pattern, wave cut, blunt/blunt,	4
8	METZENBAUM DUROTIP TC Dissecting Scissors, curved, 230 mm (9"), delicate pattern, blunt/blunt, NELSON-METZENBAUM DUROTIP TC Dissecting Scissors, curved, 285 mm (11 1/4"), delicate pattern, blunt/blunt.	4
10	BABCOCK Intestinal Grasping Forcens straight 155 mm (6 1/8")	20
11	ALUS Intestinal Grasping Forceps, straight, 155 mm (6"), toothed (3x4).	10
12	ALUS Intestinal Grasping Forceps, straight, 155 mm (6 1/8"), toothed (4x5).	10
13	ALLIS Intestinal Grasping Forceps, straight, 190 mm (7 1/2") slender pattern toothed (5x 6)	4
14	Splinter Forceps (Tweezer) straight 145 mm (5 3/4") delicate serrated	4
15	Splinter Forceps (Tweezer), straight 130 mm (5 1/8"), delicate serrated	4
16	ADSON Dressing Forcers (Tweezers) straight 180 mm (7") delicate serrated	4
17	GILLIES Dressing Forceps (Tweezers), straight 155 mm (6.1/8"), delicate servated	4
18	CUSHING Dressing Forcess (Tweezers) straight 200 mm (7.7/8") delicate serviced	4
10	Dressing Forcers (Tweezers), standard, straight, 1/5 mm (5.3//"), standard, serrated	
20	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2 mm,	4
21	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2 mm,	4
22	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing DE BAKEY, width: 2,800 mm,	4
23	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 2,800 mm,	4
24	DE BAKEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing DE BAKEY, width: 3,500 mm,	4
25	COOLEY ATRAUMATA Atraumatic Forceps, straight, 150 mm (6"), toothing COOLEY, width: 1,500 mm,	2
26	COOLEY ATRAUMATA Atraumatic Forceps, straight, 200 mm (7 7/8"), toothing COOLEY, width: 2 mm,	2
27	WANGENSTEEN DUROGRIP TC Atraumatic Forceps, straight, 150 mm (6"),	2
28	FERRIS-SMITH DUROGRIP TC Ligature Forceps, straight, 175 mm (7"),	2
29	LUCAE Tissue Forceps, straight, 140 mm (5 1/2"), bayonet-shaped, toothed (1x2),	2
30	LUCAE Micro Grasping Forceps, straight, 140 mm (5 1/2"), bayonet-shaped, serrated,	2
31	ADSON Tissue Forceps, straight, 180 mm (7"), delicate, toothed (1x2),	4
32	GILLIES Tissue Forceps, straight, 155 mm (6 1/8"), delicate, toothed (1x2),	4
33	GERALD Tissue Forceps, straight, 175 mm (67/8"), delicate, toothed (1x2),	4
34	GERALD Dressing Forceps (Tweezers), straight, 175 mm (67/8"), delicate, serrated,	4
35	LANE Tissue Forceps, straight, 125 mm (5"), toothed (1x2),	4
36	BONNEY Tissue Forceps, straight, 175 mm (67/8"), toothed (1x2),	2
37	PATTERN RUSSIA Tissue Forceps, straight, 150 mm (6"), toothed, ring tip,	1
38	DEAVER Retractor, 315 mm (12 3/8"), Fig. 2, width: 25 mm,	4
39	DEAVER Retractor, 300 mm (11 3/4"), Fig. 3, width: 38 mm,	4

40	DEAVER Retractor, 310 mm (12 1/4"), Fig. 4, width: 50 mm,	4
41	DEAVER Retractor, 320 mm (12 1/2"), Fig. 5, width: 75 mm,	4
42	MIKULICZ Abdominal Wall Retractor, 255 mm (10"), depth: 86 mm, width: 55 mm,	4
43	DEAVER Retractor, 365 mm (14 3/8"), Fig. 2,5, width: 25 mm,	2
44	ST. MARKS Pelvis Retractor, 330 mm (13"), depth: 174 mm, width: 60 mm,	2
45	WEITLANER Retractor (Self Retaining), 130 mm (5 1/8"), 3 x 4 prongs, blunt,	4
46	WEITLANER Retractor (Self Retaining), 165 mm (6 1/2"), 3 x 4 prongs, blunt,	2
47	ADSON (BABY) Retractor (Self Retaining), with joint, 140 mm (5 1/2"), 3 x 4 prongs, semi-sharp,	2
48	PLESTER Retractor (Self Retaining), angled, 130 mm (5 1/8"), 2 x 2 prongs, sharp,	2
49	BALFOUR Abdominal Retractor, complete retractor, 200 mm (8"), width: 170 mm, opening width: 155 mm, consisting of BV606R,	1
50	BALFOUR Abdominal Retractor, complete retractor, 200 mm, width: 250 mm, opening width: 235 mm, consisting of BV609R,	1
51	BALFOUR Abdominal Retractor, complete retractor, 200 mm (7 7/8"), width: 270 mm, opening width: 265 mm, consisting of BV611R,	1
52	BALFOUR Abdominal Retractor, complete retractor, 200 mm (7 7/8"), depth: 105 mm, width: 250 mm, opening width: 255 mm, consisting of BV616R, , Set	1
53	BALFOUR Abdominal Retractor, center blade, depth: 54 mm, width: 80 mm,	1
54	BALFOUR Abdominal Retractor, center blade, slotted, depth: 75 mm, width: 80 mm,	1
55	BALFOUR Abdominal Retractor, spreader only, 200 mm, width: 240 mm, opening width: 240 mm,	1
56	BALFOUR Retractor Blade, pair of lateral blades, depth: 50 mm,	1
57	BALFOUR Retractor Blade, pair of lateral blades, depth: 60 mm,	1
58	BALFOUR Retractor Blade, pair of lateral blades, depth: 75 mm,	1
59	BALFOUR Retractor Blade, pair of lateral blades, depth: 90 mm,	1
60	BALFOUR Abdominal Retractor, center blade, depth: 47 mm, width: 80 mm,	1
61	BALFOUR Abdominal Retractor, center blade, depth: 60 mm, width: 76 mm,	1
62	BALFOUR Abdominal Retractor, center blade, depth: 80 mm, width: 80 mm,	1
63	MOSQUITO (HARTMANN) Hemostatic Forceps, straight, 100 mm (4"), delicate,	10
64	MOSQUITO (HARTMANN) Hemostatic Forceps, curved, 100 mm (4"), delicate,	10
65	MICRO-HALSTED Hemostatic Forceps, straight, 125 mm (5"), delicate,	10
66	MICRO-HALSTED Hemostatic Forceps, curved, 125 mm (5"), delicate,	10
67	HALSTED (MOSQUITO) Hemostatic Forceps, straight, 125 mm (5"), delicate,	10
68	HALSTED (MOSQUITO) Hemostatic Forceps, curved, 125 mm (5"), delicate,	10
69	KELLY Hemostatic Forceps, straight, 140 mm (5 1/2"), delicate, blunt,	20
70	KELLY Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt,	20
71	CRILE Hemostatic Forceps, straight, 140 mm (5 1/2"), delicate, blunt,	10
72	CRILE Hemostatic Forceps, curved, 140 mm (5 1/2"), delicate, blunt,	10
73	MOYNIHAN Hemostatic Forceps, curved, 150 mm (6"), delicate, blunt,	20
74	LERICHE Hemostatic Forceps, straight, 150 mm (6"), delicate, blunt,	6
75	LERICHE Hemostatic Forceps, curved, 150 mm (6"), delicate, toothed (1x2),	6
76	CRILE Hemostatic Forceps, curved, 160 mm (6 1/4"), delicate, blunt,	6
77	JACOBSON Hemostatic Forceps, curved, 190 mm (7 1/2"), very delicate, serrated, blunt,	8
78	MIXTER (BABY) Dissecting Forceps, curved, 140 mm (5 1/2"),	2
79	MIXTER (BABY) Dissecting Forceps, strongly curved, 180 mm (7"),	3
80	MIXTER Dissecting a. Ligature Forceps, angled right, 230 mm (9"),	4

# **Group-E: State Cancer Institute**

## 1. Anaesthesia Work Station with Monitor

# Specification of Advanced Anaesthesia Work Station with Monitor Gas Management:

Three Gas system : Oxygen Air, Nitrous Oxide

Oxygen cylinder yoke and Nitrous Oxide cylinder Yoke

Pipeline inlet for Oxygen, Air, Nitrous Oxide

Oxygen Concentration: 25% to 100%

Electronic Gas Mixing measurement and display for accurate gas flows and mixing.

Pneumatic Oxygen Backup flowmeter

Auxillary Oxygen Flowmeter

Oxygen Flush between 35 lpm -70 lpm

Will have an additional optional receptacle for accepting/ integrating Anesthesia Gas monitoring module.

Colour coded high pressure tubings 5 meter long for oxygen, nitrous oxide and air with suitable pipeline connectors.

Hypoxic guard to ensure minimum 25% oxygen across all O2-N2O mixtures.

Oxygen failure warning device. All alarms to be audio as well as visual.

Should have emergency oxygen back up mechanical flow control in case of failure of electronics

### Vaporizers:

Vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.

Vaporizer shall mount to a Selectatec® manifold which allows easy exchange between agents. Supplier must offer total vaporizer manufacturing capability- Sevoflurane, and Isoflurane. Isoflurane and Sevoflurane vaporizers to be standard accessories. Other vaporizers to be optional and price for each to be quoted. Back bar to accept two selectratec vaporizers

### **Breathing System:**

Breathing system shall be fully autoclavable to 134° C and natural latex free. It should be compact. Total circuit volume shall not exceed2.7 L. including Absorber volume.

Breathing system shall have integrated Volume sensing and shall be of a type that does not require daily maintenance. Ventilator bellows shall be integrally mounted to the breathing system. Should have Ascending Bellows design. Bag to vent switch shall be bi-stable and automatically begins mechanical ventilation in the ventilator position.

Adjustable pressure limiting valve shall be flow and pressure compensated .

Machine shall provide circle mode breathing circuits.

Components coming in contact with patient gas shall be disposable or autoclavable.

FIO2 monitoring should be available.

Common Gas outlet Should be standard supply for connecting open circuit.

AGSS ready to be connected to hospital installed active system

### Ventilation

The workstation should have integrated Anesthesia Ventilator system.

Ventilator based on flow valve technology with ICU features and modes of ventilation

Visible bellows for visual indication of leaks in the systems.

Ventilator shall have Volume Centrol and Pressure Controlled modes.

Dual Mode — PCV, VCV and PS needed for difficult lung ventilation, Obese patients laproscopy , beating heart , and neonatal.

Ventilator shall have a tidal volume compensation capability to adjust for losses due to compression, compliance and leaks, and compensation for fresh gas flow

The workstation should be capable of delivery of low flow and minimal flow anaesthesia

Ventilator shall be capable of atleast 120 L/min peak flow to facilitate rapid movement through physiologic "dead space' in the Pressure Control mode

SIMV and Pressure Support Ventilation with Apnea Back Up Ventilation should be offered

It should have a cardiac bypass mode. during cardiac bypass procedure to stop the system from alarming, and turns off automatically, when the ventilator is turned back on

Compliance Measurement and Trending (Preferable ): Measures and displays the patient's compliance to offer an view of the patient's lung condition.

Vital Capacity & Cycling procedures (Preferable ) : to automate the procedures for optimal Peep setting to recruit the lungs .

Tidal Volume: 20ml to 1500ml in VCV.TV = min 5 ml in PCV mode.

Rate: 4 to 100bpm

Electronic Peep : Off, 4 to 30cms H2O

Settable I:E ratios, Pause, Trigger (0.2-10 L/min). Insp Pressure from 5 up to 50cms H2O

Ventilator shall be capable of 120 L/min peak flow .

Ventilator shall have a tidal volume compensation. Operates on a breath-by-breath basis and does not require special calibration.

Inspiratory pressure (Pinspired)

5 - 60 cm H2O

### **Pressure limit (Plimit)**

12 to 100 cm H2O

Machine should have atleast 60 mins battery backup

Shall have integrated LED light strip that provides bi-level work surface illumination

Handle on side for easy positioning.

Machine should have mounting capability of one O2 and one N2O pin-indexed cylinder.

### **Display:**

Around 15-19" Color TFT Display with High visibility and highly visible alarm light mounted on the Anaesthesia Workstation

Monitor should be Modular and flexible.

Colour touch screen display Up to 8 waveforms / 4 digit fields, 7 optimized user modes, Standard Adult, Pediatric & Neonate mode with OxyCRG

Trend up to 72 hours of graphic and numerical data

Should have an individual Battery backup, minimum of 2 hrs

ECG and IBP analog output. Should have arrhythmia and ST segment Analysis with ST Trend

Monitor should have Simultaneous Monitoring facility for 2xIBP & 2xTernp for all monitors

Basic Patient side module for Measuring Parameters like 5 lead ECG, NIBP, SPO2, RESP, 2xIBP, 2xTemp, EtCo2 ( side stream), Anaesthesia Gas monitoring, Level of Depth of Anaesthesia monitoring and NM monitoring

Accessories - Standard use for ECG (2 in no.), SpO2 probes (2 each for adult & pediatric). NIBP(2 cuffs each for adult and pediatric & I for neonate), Temperature probes (1 for core and 1 for skin), IBP cables (2 in no with 10 pressure transducers and their one holder), EtCO2- 5 filter assemblies and 10 tubings, for anaesthesia gas monitoring, depth of anaesthesia monitoring(with 25 disposable leads),NM Monitoring cables Recorder option for printing the up to **3 or 4 waveforms** and alphanumeric data, and trends etc.

### **Power:**

Will work on electric mains

Anaesthesia workstation should have an individual battery backup of minimum up to 45mins on fully charged battery .

Should have integrated lighting for vaporizers and working table (optional)

### **Braking Mechanism**

Front caster wheel should have a central baking mechanism

#### Following upgrades should be offered as options - (Quote unit prices in price bid)

Facility for **standalone Mainstream/side stream/**Microstream EtCO2 **monitoring** with dedicated accessories **should be possible. For Mainstream sensor two sets of EtCO2 accessories** for Adult, Paediatric & Neonates (25 each) should be provided.

Cardiac Output module for measuring the cardiac output using the thermo-dilution technique with four Invasive pressure channels.

Module for monitoring Cardiac Output with the help of PiCCO technique Anaesthesia workstation and monitor should US FDA/CE Approved.

# 2. Therapeutic Chairs For Chemotherapy Treatment

- 1. Should have an ergonomically shaped backrest and seat
- 2. Should have Non deformable soft polyurethane foam.
- 3.Should have removable cushions for cleaning and maintenance.
- 4. Should have electrically operated backrest and leg rest
- > Back rest and leg rest should have capability to be used together or separately

5. Chair Dimensions.

- ➢ Fixed Height of at least 55 cm.
- Seat width should be minimum 58 cm without armrests.
- > Chair length of minimum 75cm in sitting position
- > Total chair length of at least 180cm in lying position.
- Backrest length of minimum 90cm
- 6. Functioning angular movements
- Backrest angular displacement: 0 to 80
- Seat Tilt: 0 to 20
- ► Leg rest: 0 to- 80
- ➢ Bed Position: 180
- ➢ Head low position: 20
- 7. Should have automatic recovery position
- 8. Should have an integrated movement of head rest with the back rest.
- 9. Dual lock PU castors
- 10. Should have comfortable polyurethane armrests with vertical and horizontal movements.
- 11. Should have capability for Tendelenburg position.
- 12. Should have patient load capability of at least 150 kg (up to 200 kg preferable).
- 13. Manufacturer should have ISO 9001 & ISO 13485 certification
- 14. Should have disinfectant resistant upholstery.
- 15. Should have multi button remote function.
- 16. Easily movable infusion stand
- 17. Epoxy powder coated MS frame
- 18. Electrical specification 220-240 V, 50 Hz, single phase.
- 19. Should have warranty of 1 year and CMC of 5 years.
- 20. Should have past performance to any Govt. Department like AIIMS etc

# **Group-F:** Tissue Bank

### 1. Laboratory Lyophilizer

+20 °C to -80 °C a) Temperature Range b) Temperature Accuracy 3 degree C c) Temperature Control Microprocessor based PID control with Auto tune d) Temperature Sensor PT-100 RTD, Class A Cooling CFC free compressor utilizing R 404 A-eco Friendly e) Refrigerant/ equivalent, with condenser, motor and relay Ultimate Vacuum Pressure level 0.001 to 0.0002 Mbar f) Double walled with polyurethane (PUF) g) Construction insulation provided 750 - 1000 Watt h) Power i) Standard warranty 3 years of warranty and 7 years of CAMC Body- Stainless steel 316 L j) k) Capacity: 30 cft

## 2. Pulse levage system

- a) Use Medical
- b) Application Orthopaedics
- c) Power supply 230 V (AC)/ 50 Mz +- 10%
- d) Handy
- e) Irrigation pressure
- f) Autoclavable
- g) Control in hand

- h) Stainless steel unit
- i) Peristaltic pump
- j) Shower spray nozzle
- k) Single stream tip nozzle
- l) Voltage control inbuilt
- m) Warranty 1 year

# 3. Electric Power Drill System

A. Surgical Driving Unit with stand and foot switch

- a. Material Steel
- b. Motor Power 90 Watt
- c. Power Source Electric
- d. Voltage 220 V AC
- B. Power drill hand piece
  - a. Autoclavable and piston grip lightweight
  - b. Ergonomically designed grip
  - c. Max speed 1200 rpm
  - d. Cannulation 5.5mm
- C. Power reamer hand piece
  - e. Hand piece piston grip
  - f. Speed 400rpm
  - g. AO type quick coupling
  - h. Cannulation 5.5mm
  - i. Lightweight
  - j. Adaptors available for Jacobs trinkle
  - k. Autoclavable
    - 1. Flexible reaming shaft size from 8.5 mm to 15 mm at 0.5 mm increments
- D. Autoclavable black shaft
- E. Power saw hand piece with 5 blade
  - a. Hand piece piston grip
  - b. Speed 1000-1200 rpm
  - c. Weight 700-800 gm
  - d. Voltage 220 V AC
  - e. Power source Electric
- F. Sterilization box for drill system
- G. System should be ISO certified
- H. Warranty 1 Year
- G. Price of each Item should be quoted separately

Director, IGIMS - Patna.