

**Bidding document for-**

**Group A: Supply, Installation & Commissioning of Equipments for the department of RIO**

**Group B: Supply, Installation & Commissioning of Equipments for the department of Pathology**

**Group C: Supply, Installation & Commissioning of Equipments for the department of Pharmacology**

**Group D: Supply, Installation & Commissioning of Equipments for the department of Gastroenterology**

**Group E: Supply, Installation & Commissioning of Equipments for the department of Radiology**

**Group F: Supply, Installation & Commissioning of Equipments for the department of Skin & VD**

## **BIDDING DOCUMENT**

**E- TENDER NOTICE No: 23 / 2022- 2023/ Bio-Medical Equipment/ IGIMS/ Store**



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

**E-TENDER NOTICE No: 23 / 2022- 2023/ 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.**

**INDEX**

Sr. No.	Description	Page No.
1.	CHECK LIST	4-5
2.	ELIGIBILITY CRITERIA	6
3.	INSTRUCTION TO BIDDER	7-13
4.	CONDITION OF THE CONTRACT	14-18
5.	SCHEDULE OF THE REQUIREMENT	19
6.	SPECIFICATION AND ALLIED TECHNICAL DETAILS	25-37

**IMPORTANT DATES**

1. Name & address of advertiser : Director, IGIMS, Sheikhpura, Patna- 800014 (Bihar)
2. Date of issue of E-Tender notice : 12 / 04 / 2023
3. Period for download of tender document only on [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in) : From 14 / 04 / 2023 to 05 / 05 / 2023 up to 12.00 hours through above website
4. Last date & Time for submission / uploading of complete tender at [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in) : 05 / 05 / 2023 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 : 08 / 05 / 2023 up to 16.00 Hours, at Director IGIMS, Patna-800014 (Bihar)
6. Date, Time and Place of opening of Techno Commercial bid only on [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in) : 09 / 05 / 2023 at 15.00 hours on [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in)
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 [www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in)

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

Sr. No. Of Tender: \_\_\_\_\_

FILE NO. : Tender No.: \_\_\_\_\_

Tender form issued in favour of: \_\_\_\_\_

Dear Sir,

1. I/We hereby submit our tender for the \_\_\_\_\_
2. I/We are enclosing herewith the Demand Draft No..... dated.....  
for Rs. /- drawn in favour of **Director I.G.I.M.S. – Patna (payable at Patna)** towards  
**EMD / Bid Security.**  
  
**(EMD AND COST OF BIDDING DOCUMENTS MUST BE SUBMITTED IN SEPRATE ENVELOP.TENDERS NOT ACCOMPANIED WITH EMD / BIDSECURITY ALONGWITH THE TECHNO-COMMERCIAL BID SHALL BE SUMMARILY REJECTED).**
3. I/We have gone through all terms and conditions of the tender documents before submitting the same.
4. I/We hereby agree to all the terms and conditions, stipulated by the I.G.I.M.S. – Patna including delivery, warranty, penalty etc. Quotations for each group are being submitted under separate covers, and sheets and shall be considered on their face value.
5. I/We have noted that overwritten entries shall be deleted unless duly cut & rewritten and initialled.
6. Tenders are duly signed and stamped.(No thumb impression should be affixed)
7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my EMD/Bid deposited may be forfeited and our/my name may be removed from the list of suppliers.
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.: **To be filled by the bidder and submitted along with the Technical Bid.**

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.	<p><b>Status of Bidder:</b></p> <ul style="list-style-type: none"> <li>• Manufacturer or Authorized Agent of the Manufacturer</li> <li>• Whether Public Undertaking, Public Ltd., Private Ltd. Company or Proprietary Firm/partnership firm</li> </ul> <p>(Please attach Notary certified <b>MANUFACTURER'S AUTHORISATION FORM</b> as per <b>FORMAT</b> placed at <b>Annexure – III</b>)</p>		
2.	<b>Power of Attorney</b> as per <b>Annexure – V</b> in favour of person to sign, submit and negotiate the bid.		
3.	Certificate towards market standing of minimum 05 years in the area of supply and or maintenance of bio-medical equipment's.		
4.	Certificate for sole ownership / partnership		
5.	Statement of financial standing from bankers		
6.	Statements of turnover per year for last three successive years duly certified by the Chartered Accountants.		
7.	<b>Notary certified User List</b> (List of Govt./Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.		
8.	<b>Notary certified Supply</b> order copy (Minimum 3nos. or more) issued by Govt. /Semi Govt. /Reputed Pvt. Institutions/organization for the quoted items. (same model)		
9.	<b>Notary certified Performance certificate</b> of the same supplied machine (of quoted make and Model) issued by <b>Head of the dept. or Institution</b> after a minimum period of six months of installation		
10.	Prerequisite (if any) for installation of the Machine, if any, to be provided by the Institute.		
11.	Whether rates quoted are inclusive of all taxes or not.		
12.	Whether rates are quoted as per format mentioned in the Bidding Document or not.		
13.	Affidavit to the effect that the bidder is not blacklisted by any Govt. Agency or has no pending case either Civil or Criminal against them.		
14.	Affidavit, to the effect that the bidder is not supplying the quoted item(s) to any other Govt. /Semi Govt. Organizations / Institutions / Hospitals at the rate lower than the rate quoted against this tender.		
15.	<b>Quality Assurance Certificate</b> like <b>ISI, ISO-9002, IP/BP, ICMED 9001/ ICMED 13485/ICMED 13485 Plus/CE/USAFDA/QCI</b> or any other (please specify)		
16.	<b>Bid Security</b> amount deposited is enclosed or not. If yes, please mention the details.		
17.	<b>Original Technical Catalogue</b> of the quoted model.		

18.	Certificate, to the effect that bidder will maintain the quoted item(s) during Warranty period of five 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 five years after expiry of warranty period of five years in the <b>price bid</b> . (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 <b>after sales / services</b> as mentioned in the bidding document. (Clause No- 13 of “ Instruction to Bidder “ & clause no- 3, 4 and 5 of Condition of contract.)		
21.	<b>Compliance Statement</b> 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.	<b>Compliance Statement</b> with relation to the terms & conditions as mentioned in the document.		
23.	<b>PAN and copies of Income Tax Returns</b> 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 <b>Annexure – I</b>		
2.	<b>Rate for Comprehensive Annual Maintenance Contract</b> as per terms & conditions mentioned in the Bidding Document and as per format attached as <b>Annexure – II</b>		

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

(Name of the Bidder with signature & seal)

## **ELIGIBILITY CRITERIA**

<b>Sl. No.</b>	<b>Description</b>	<b>Page No. (Please note that the page numbers must be mentioned.)</b>
01	Manufacturers or their authorized dealers / Indian subsidiaries / direct importers having a place of business in any of the States of India are eligible to participate in this tender.	
02	The bidder and manufacturer of the equipment offered should be in the business of the supply and installation of same / similar equipment for the last five calendar years.	
	(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 2022.	
05	Bidders who have the capability to attend repairs of these equipment within the time mentioned in this bidding document and who are willing to provide stand by equipment or replace the faulty equipment if the repair/down time extends beyond 72 hours from the time of reporting of the fault within the next 48 hours (total down time should not exceed 5 days in one instance). The bidders who have the capability to ensure the uptime mentioned in this document (Documentary proof shall be submitted on the after sales facilities and expertise of the bidder.)	
06	Bidders are not offering the equipment of a firm /company that has been blacklisted by Indira Gandhi Institute of Medical Sciences – Patna or blacklisted/debarred by any other State / Central Government’s organization.	

**Note:**

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

## **INSTRUCTION TO BIDDER**

### **GENERAL INSTRUCTIONS TO BIDDERS**

#### **1. Tendering System**

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

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

#### **PART – II titled as PRICE BID**

2. The tender offers, duly filled, shall be submitted in sealed covers for **technical**. Such covers shall be super scribed as “**Tender No..... (here mention the tender no as specified) TECHNICAL BID for supply of ..... (here mention the name of the equipment**
3. Quantity of items may increase or decrease. Director, I.G.I.M.S. – Patna reserves the rights to purchase different sub items/ components of items from different bidders.
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](http://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 03 / 05 / 2023 up to 4.00PM by speed/Regd. Post/ Courier services only and technical bid will be opened on 05 / 05 / 2023 at 3.00 PM in Ground Floor, Administrative Building Conference Hall of 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 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. After Sales Service Conditions:**

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

**c. Guarantee/Warranty Terms:**

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

Bidders – their existing dealers – couldn't provide service during the warranty / CAMC period. The undertaking from OEM is an essential document forming part of the Technical Bid, without which the tenders will be rejected summarily in the first round itself.

- vi. After sales service centre in Patna (Bihar) preferably or at least in East India should be available as part of the pre-qualification and the Bidder shall provide proof of their capability to undertake such maintenance/repair within the stipulated time.
- vii. The successful Bidder shall provide preventive maintenance as per the frequency mentioned in this document during the warranty period. The Bidder shall attend any number of break down/repair calls as and when informed by the institute authority.
- viii. Upon receipt of such notice for repair/breakdown from the institute, the successful Bidder shall, within the period as specified in this document, and with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the Tender Inviting Authority.
- ix. If the successful Bidder, having been notified, fails to rectify the defect(s) within the period specified mentioned in this document, the Tender Inviting Authority may proceed to take such remedial action as may be deemed necessary, at the successful Bidder's risk and cost and without prejudice to any other rights which the Tender Inviting Authority may have against the successful Bidder under the contract.
- x. Failure to attend the repairs in time or failure to attend the stipulated preventive maintenance visit or failure to replace the defective equipment's or to provide stand by equipment if the fault/down time exceeds the stipulated period or to ensure the stipulated up-time in an year shall lead to forfeiture of the performance security and/or may lead to blacklisting/debarring of the defaulting Bidder.
- xi. The equipment which requires quality assurance test shall be done at free of cost immediately after installation, during the comprehensive warranty period, during the CMC/AMC period, by the demand of User and also when major spares are replaced.
- xii. Any mandatory approval required for installation shall be obtained by the successful Bidder in liaison with the respective authorities.
- xiii. The Bidder shall submit the parameters which require calibration and the frequency of calibration required.
- xiv. The Bidder shall undertake on-site calibration of the equipment every year as part of the after sales service during the period of comprehensive warranty, CMC/AMC or on demand from the user.
- xv. The Bidders shall also have to submit whether periodic replacements of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year, if the same is not replaced free of cost during warranty / guarantee period.
- xvi. An undertaking of the principal regarding continuity of after sales and services (CAMC) @ the agreement rate even in case of changes of Indian agent during the life span of the equipment, must be enclosed in the technical bid. Further, it will be the responsibility of the manufacturer Indian agent to get counter signature on the agreement to be executed with them by the principal.
- xvii. The offered warranty includes:
  - Visits to the user institutions at frequencies prescribed as part of preventive maintenance.
  - Testing & calibration as per technical/service/operation manual of the manufacturer or as per the period specified or as per the demand of the user.
  - Quality Assurance tests (if applicable).
  - The cost of labour for all repairs/ and all spares required for replacement during repairs all kinds of accessories, Probes, all types of sensors and transducers, Electrodes, Detectors, battery, battery for UPS, other vaccumatic parts etc wherever applicable and also the accessories and other devices supplied along with the equipments like stabilizer, UPS, AC,

Computer, Compressor, Monitor, etc, which forms part of the equipment system, without which it cannot perform satisfactorily.

- The exclusion of warranty of any vital equipment parts will be compared with offers of other Bidders during evaluation of the bids and this may be taken into consideration in deciding the successful Bidder on the basis of expert advice.
- The Bidder shall provide up-time warranty of complete equipment as mentioned in this document, the uptime being calculated on 24 (hrs) X 7 (days) basis failing Warranty period will be extended for every additional day of down time equal to one week.
- All software updates, if any required, should be provided free of cost during Warranty period.

**d. Comprehensive Annual Maintenance Contract:**

- The decision to enter into CMC or AMC will be determined on the basis of cost and complexity of the equipment by the Tender Inviting Authority, at its discretion, prior to the expiration of warranty period.
- The Comprehensive Maintenance Contract (CMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing the comprehensive warranty of the equipment shall be extended during the period of CMC, only difference being the payment of CMC charges is absent during the period of comprehensive warranty.
- The cost of CMC, accessories spares, and consumables as in case may be quoted along with taxes applicable, if any. The taxes to be paid extra, to be specifically indicated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- Failure/refusal on the part of the successful tender supplying/installing the equipment's to enter into CMC with the Tender Inviting Authority, at the end of the Comprehensive Warranty Period, if the Institute, as the case may be, desires so, shall lead to forfeiture of performance security and may also result in the blacklisting/debarring of the Bidder.
- The successful Bidder shall also indicate the rates for the CMC in price bid form and such rates are binding on the successful tenders after the expiration of the warranty period. The yearly rates for CMC shall remain the one and the same as quoted in the price bid form for the extended years.
- Cost of CMC (excluding taxes, if any) will be considered for Ranking/Evaluation purpose.
- The payment of the agreed CMC charges will be made as per frequency for payment after satisfactory completion of said period, on receipt of service report/ break down report from the user.
- The Bidder shall also have to submit whether periodic replacement of consumable items 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.

**12. Time Limits prescribed**

Sl. No.	Activity	Time Limit
a.	Installation & Delivery period	12 weeks from date of issuance of Supply Order
b.	Comprehensive warranty period	5 years from the date of successful installation.
c.	CMC period	5 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	Every six months after completion of

	charges	thePeriod.
f.	Submission of Performance Security and entering into contract	10 days from the date of issuance of Letter of Intent
g.	Maximum time to attend any Repair call	Within 24 hours.
h.	Uptime in a year during warranty as well as during CAMC period.	95% of 365 days.

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 five years after expiry of the warranty period of five 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 five years after the expiry of warranty period of five 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, separatemaintenance training for the machine and the sub systems should also be given to the "Equipment Maintenance Engineer" and "Equipment Maintenance Technicians". All the financial commitments in this regard shall be met by the bidder(s).
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)**
  - B. 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. **Clarifications:**

**In case the bidders requires any clarification regarding the tender documents, they are requested to contact our office (e-mail: [storeofficer@igims.org](mailto:storeofficer@igims.org) ) on or before 24 / 04 / 2023.**

26. The Director reserves the right to accept or reject any or all tenders without assigning reasons.
27. The Director reserves the right to modify, add or delete any terms & conditions of the contract as and when required.
28. **Amendment of tender documents:**
- a. At any time prior to the dead line for submission of Tender, the Institute may, for any reason, modify the tender document by amendment.
  - b. The amendment shall be notified and uploaded on the institute website [www.igims.org](http://www.igims.org) only and such amendments shall be binding on them thereafter.
  - c. The Institute shall not be responsible for failure to inform the prospective bidders. Purchasers of tender documents are requested to browse the website of the Institute for information/general notices/amendments to tender document etc on a day to day basis till the tender is concluded.
29. The Dispute, if any, will be subject to Jurisdiction at Patna (Bihar).

**Director,  
I.G.I.M.S. – Patna**

## **CONDITIONS OF THE CONTRACT**

### **1. Duty Free Clearance, Transportation, Forwarding & Handling Charges:**

Clearance charges at point of Entry / Air Port and on ward transportation charges with Insurance up to I.G.I.M.S. – Patna will be borne by supplier's Indian Agent for which this Institute will not pay the charges. The firm should quote as FOR IGIMS Patna including all expenditure 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 **five 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 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 = 365 days

**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 binding 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 = 365 days

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

- f. The bidder shall compensate the uptime less than the specified above for **every additional day** of down time over and above 18 days stipulated above, warranty period will get extended by one week as penalty at no extra cost i.e. the extended penalty period will be equal to one week for every additional day of down time.
- g. During Comprehensive Annual Maintenance Contract, **bidder** will keep the “**Complete System**” in satisfactory working condition. In case, any spare parts, accessories, PCB, all type of consumables etc. Needs replacement due to normal wear and tear, **bidder** will supply and install the same for which no additional payment is to be made. .If any spares / consumables / accessories etc. Are not covered under Comprehensive Annual Maintenance Contract charges, it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.
- h. The payment of Comprehensive Annual Maintenance Contract will be made on half yearly basis after submission of satisfactory functioning report of the Complete System by the officials authorized by the Institute.
- i. In case, the **bidder** is not able to provide services (and the items / accessories is not functioning as the reason thereof) due to natural calamity (act of God), Political unrest, Riot and fire at the user site, then in such a situation the Comprehensive Annual Maintenance Contract will be extended by the period for which the item / accessories could not be operated because of supplier not being able to provide services.
- j. During Comprehensive Annual Maintenance Contract, in case of any alleged damage due to accident / human error, a committee under the Chairmanship of Director, I.G.I.M.S. – Patna with one member from the bidder and one member from the Institute will decide the authenticity of the claim. The decision of the committee shall be final and binding on both the parties.

## **5. Performance Security**

- 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.

**06. 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<sup>st</sup> 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.

**07. 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.

**08. Validity of Price:-**

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

**09. Part Supply:**

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

**10. Packing & Marking:-**

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

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

**12. Insurance: -**

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

**13. Installation & site plan:**

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



Specify the following points for installation of the System: -

- a. Total power consumption along with breakup of main System and Accessories.
- b. Whether the System needs uninterrupted power supply.
- c. Maximum tolerated transfer time in case of interruption of power supply.
- d. Whether the System needs any humidity control device.
- e. Whether the System needs any separate power line/isolation Transformer.
- f. Does the System need the electrical shielding?
- g. Whether Air Conditioner is required for the System.
- h. Does it require special civil works for installation?

14. The bidder should also quote for supply of “Un-Interrupted Power Supply” (UPS) with a battery backup of at least 30 minutes, “Constant Voltage Transformer (CVT)” of reputed manufacturer of required capacity along with Spike Suppressor or “Servo Voltage Stabilizer” as per requirement of the System. Bidder may quote the prices for all the above items (UPS/CVT/SERVO VOLTAGE STABILIZER) and the decision will be taken during technical evaluation of the item whether UPS is suitable or CVT / Servo Voltage Stabilizer will serve the purpose.

15. **Responsibility:-**

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

## SCHEDULE OF THE REQUIREMENT

<b>List of Equipment's</b>
<b>Group A: RIO</b>
<b>Multi Spot Green Laser with Slit Lamp Delivery &amp; LIO</b>
<b>Single Spot Green Laser with Slit Lamp Delivery &amp; LIO</b>
<b>OPHTHALMIC ULTRASOUND SCANNER</b>
<b>Group B : Pathology</b>
<b>Automated immounohistochemistry Machine – BENCHMARK ULTRA</b>
<b>Agitator Mixer-Agitator Mixer &amp; Temperature Controller (Incubation with Accessories)</b>
<b>Clevenger Apparatus-Clevenger Apparatus with heating mantle &amp; Temperature Controller with probe sonicator.</b>
<b>Multimode micro plate raeder-Multimode stability chamber (Climate) with Reader (Display)</b>
<b>Vacuum Pump-Vacuum Pump &amp; Pipette Controller</b>
<b>Group C: Pharmacology</b>
<b>Double Bean UV-Visible Spectrophotometer</b>
<b>PCR Machine</b>
<b>Group D : Gastroenterology</b>
<b>Digital Flat Panel Fluroscopy Radiography System</b>
<b>Group- E : Radiology</b>
<b>Flat Pannel Detector (Retrofit DR System)</b>
<b>Group F : Skin &amp; VD</b>
<b>Fraction Carbon Dioxide (Co2) Laser</b>

**ANNEXURES**

**ANNEXURE - I**

**PRICE SCHEDULED**

**LOCATED WITHIN INDIA**

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

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**

**ANNEXURE – II**

**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.	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)
a	b	c	d	e	f	g	j
1.	Name of the Equipment:  Make: Model:  Qty.:						
2.	Name of the Equipment:  Make: Model:  Qty.:						

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

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

**ANNEXURE – III**

**MANUFACTURER’S AUTHORISATION FORM**

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

No.

Dated:

To

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

Dear Sir,

Tender No :  
Equipment Name :

1. We ..... (Name of the OEM) are the original manufacturers of the above equipment having registered office at ..... (full address with telephone number/fax number & email ID and website), having factories at \_\_\_\_\_ and \_\_\_\_\_ , do hereby authorize M/s.\_\_\_\_\_ (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender no.
  
2. No company or firm or individual other than M/s.\_\_\_\_\_ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.
  
3. We also hereby undertake to provide full guarantee/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:

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

**ANNEXURE – IV**

**BANK GUARANTEE FORM**

To

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

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

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

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

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

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

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

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

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

(Signature with date of the authorized officer of the Bank) .....

Name and designation of the officer  
.....  
.....

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

**ANNEXURE – V**

**(TO BE SUBMITTED WITH TECHNICAL BID)**

**POWER OF ATTORNEY**

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

I/ We.....(name and address of the registered office) do hereby constitute, appoint and authorise Sri/Smt.....(name and address) who is presently employed with us and holding the position of ..... as our attorney, to act and sign on my/our behalf to participate in the tenderno.....for ..... (Equipment name).

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

Dated this the \_\_\_ day of 202\_ For \_\_\_\_\_

(Name, Designation and Address)

Accepted

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

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



## Specification & Allied Technical Details

### GROUP-A: RIO

#### **1: Multi Spot Green Laser with Slit Lamp Delivery & LIO**

<b>Multi Spot GREEN LASER with Slit Lamp Delivery &amp; LIO</b>	
<b>Laser Type</b>	Diode pumped, frequency doubled, true cw & solid state. (Medical Grade), 532nm.
<b>Therapy Laser Power</b>	Between 1.3-1.5 W at the cornea
<b>Pulse Duration</b>	10-2500 ms (CW) (Single Pulse) 20-50ms (Multiple pulse option)
<b>Cooling</b>	thermoelectric/ air cooled
<b>Pilot/ Aiming Laser</b>	635-650 nm Red diode laser (for Multi Spot The Aiming Beam Should be in selected Pattern)
<b>Delivery Device Output Ranges</b>	
<b>LIO+</b>	0-2000 mW, True Focus type
<b>Slit Lamp</b>	5 step slit Lamp with Slit Lamp LASER Delivery unit integrated to Slit Lamp Body.
<b>Laser Spots</b>	Customize laser spot field during the procedure. Laser spot of upto 25 spot sequence, Single spot, shift a linear spot sequence (horizontally / vertically) of rectangular, square and contoured cascades. Shift a linear spot sequence of variable and contoured cascades. Shift a curved spot sequence of variable orientation of circular and quadrant cascades
<b>Delivery System</b>	Dedicated or mountable laser Slit Lamp with following facilities; Laser beam delivery coaxial via slit illumination Continuously adjustable laser spot diameter from 50-1000 microns or step Size : 50µm, 100µm, 200µ, 300µ, 500µ
<b>Slit Lamp</b>	Slit height- 1- ≥12 mm Slit width, continuous 1- ≥12 mm Must have adjustable micro manipulator. Dynamic/ automatic physician safety filter which swing automatically into position when laser is delivered via microscope
<b>Motorised Table</b>	CE/FDA approved broad based with adequate space for space for keeping arm rest
<b>Weight</b>	It should be Light weight and portable
Machine should have option to shift to the desired delivery Device, Should have intuitive Graphical Touch/button Screen Interface.	
The following accessories are to be quoted and rates to be provided inclusive of them:	
<ul style="list-style-type: none"> <li>- Laser Indirect Ophthalmoscope (LIO)</li> <li>- High quality Laser treatment contact lenses (standard focal/Grid, PRP 165 )- 1 Pair(Contact Lenses should be FDA Approved)</li> <li>- Micro Manipulator for slit Lamp</li> <li>- High quality 20 Dioptre Lens for LIO -2</li> <li>- Additional Laser Link Cable- 2 ( for SL one &amp; LIO one )</li> <li>- Foot switch</li> <li>- Elbow rest</li> <li>- Laser safety eye glasses-5</li> <li>- Carry Case for console</li> <li>- Online UPS with adequate capacity for 15 minute backup</li> <li>- The unit should be CE/FDA approved.</li> </ul>	

#### **2: Single Spot Green Laser with Slit Lamp Delivery & LIO**

<b>Single Spot GREEN LASER with Slit Lamp Delivery &amp; LIO</b>	
<b>Laser Type</b>	Diode pumped, frequency doubled, true cw & solid state. (Medical Grade), 532nm.
<b>Therapy Laser Power</b>	Between 1.3-1.5 W at the cornea
<b>Pulse Duration</b>	10-2500 ms (CW) (Single Pulse) 20-50ms (Multiple pulse option)
<b>Cooling</b>	thermoelectric/ air cooled
<b>Pilot/ Aiming Laser</b>	635-650 nm Red diode laser (for Multi Spot The Aiming Beam Should be in selected Pattern)

Delivery Device Output Ranges	
LIO+	0-2000 mW, True Focus type
Slit Lamp	5 step slit Lamp with Slit Lamp LASER Delivery unit integrated to Slit Lamp Body.
Laser Spots	Continuously adjustable laser spot diameter from 50-1000 microns or step Size : 50µm, 100µm, 200µ, 300µ, 500µ
Delivery System	Dedicated or mountable laser Slit Lamp with following facilities; Laser beam delivery coaxial via slit illumination
Slit Lamp	Slit height- 1- ≥12 mm Slit width, continuous 1- ≥12 mm Must have adjustable micro manipulator. Dynamic/ automatic physician safety filter which swing automatically into position when laser is delivered via microscope
Motorised Table	CE/FDA/ approved broad based with adequate space for space for keeping arm rest
Weight	It should be Light weight and portable
Machine should have option to shift to the desired delivery Device, Should have intuitive Graphical Touch/ button Screen Interface.	
The following accessories are to be quoted and rates to be provided inclusive of them:	
<ul style="list-style-type: none"> <li>- Laser Indirect Ophthalmoscope (LIO)</li> <li>- High quality Laser treatment contact lenses (standard focal/Grid, PRP 165 )- 1 Pair(Contact Lenses should be FDA Approved)</li> <li>- Micro Manipulator for slit Lamp</li> <li>- High quality 20 Dioptre Lens for LIO -2</li> <li>- Additional Laser Link Cable- 2 ( for SL one &amp; LIO one )</li> <li>- Foot switch</li> <li>- Elbow rest</li> <li>- Laser safety eye glasses-</li> <li>- Carry Case for console</li> <li>- Online UPS with adequate capacity for 15 minute backup</li> <li>- The unit should be CE/FDA approved.</li> </ul>	

### 3: OPHTHALMIC ULTRASOUND SCANNER

#### A-Scan Specification

- A-Scan: 10 MHZ with Fixation Light
- Scan Mode: Manual & Auto
- Scan Method: Contact & Immersion
- Gain Control: 0% to 100%
- IOL Formulas: SRKII, SRK T, Holladay 1, Binhorst II, Haigis, Hoffer Q.
- Refraction Formulas: Clinical History Method, Contact Lens, Rosa, SRK-T,Shammas
- Lens Type: Aphakic, Dense Cataract, Phokic, Pseudo (Acrylic, PMMA, SILICONE), Silicone Oil
- Patient Record: Name, MRD, Gender, DOB, Dr's comments
- IOL Configuration: More than 200
- Axial Length Measurement: 12-40mm
- Printer: Any PC support standard printer (Laser, Deskjet, etc...)
- Data Exporting: jpeg, pdf, Html, MHT, Rtf, Xls, Xlsx, Csv, Text, Image file
- Patient Record Storage: Data stored in system hard disk (1TB)

#### B-Scan with UBM Specification

- Gain: -128 to +128
- TGC: Near, Mid, Far (User adjustable slider)
- B-Scan Probe =: 12 MHZ (Optional: 10 MHZ, 20 MHZ)
- UBM Probe: 35 MHZ (Optional: 50 MHZ)
- Scan Angle for: 20 to 60 degree (B-Scan ), 20 to 35 degree (UBM)
- Vector density and sampling: 256 vectors X 2048 points/ per vector
- View Zone: 30mm to 60mm (B-Scan), 15 to 18mm (UBM)
- Axial Resolutions: 300 microns (B-Scan ), 40 Microns (UBM)
- Lateral Resolution: 500 microns (B-Scan ), 50 microns (UBM)
- Data Base Dimensions: 1Mb/Image
- Measurement Tools: Angle, Caliper and Area
- Other Tools: Arrow mark, Probe Orientation and Text annotation
- A/B Scans Capability: A-Scan vector available as overlay on B-mode Images
- Velocity: Adjustable to tissue or material being imaged
- Gray Scal: 256
- Flood fill Colour: Fill the false Colour for differentiate the image segment
- Image: Gray levels

- Image Capture Rate: 15fps
- Video Recording: Avi format, Cine
- Image Buffer: 600 Frames per cine (Total 600 X 10= 6000 Frames)
- Image exporting: PNG, jpeg, BMP, GIF, TIFF
- Report exporting: jpeg, pdf, Html, MHT, Rtf, Xls, Xlsx, Csv, Text, Image
- System Control Input Devices: USB Keyboard, Mouse & Foot Pedal
- **A-scan probe:** 10MHZ solid probe 6mmØ with LED fixation.
- **B-scan probe:** 12MHZ solid probe for high resolution posterior segment Diagnosis. Also available as optional probes 10MHZ and 20MHZ.
- **UBM probe & Transducers:** 35MHz and 50MHz Transducers for high resolution anterior segment Diagnosis.
- **Standoff set:** Contact method for UBM. It's very useful for any infected cases.
- **Foot Switch:** scan/freeze control by foot switch for user convenient.

## **GROUP-B: Pathology**

### **1: Automated immunohistochemistry Machine – BENCHMARK ULTRA**

- The system must be walking away fully automated slide staining system to process slides for immune Histochemistry, in situ Hybridization, immune fluorescence. It should able to do FDA approved, ALK (D5F3), MMR panel PD –L1 (SP263) PD –L1 (SP142) & DISH assay
- System should have 30 independent slide drawers to add slide at any time and customize each individual protocol.
- Automated IHC, ISH platform manages STAT requests with no impact to in process slides.
- The system must be fully automated to do baking deparaffinization, antigen retrieval and staining within the same system.
- Up to 7 different bulk solutions can be changed on the fly without process interruption.
- The system should be open for primary antibodies.
- System should have capacity for 30 slides at a time and have throughput of 90 slides in 8-hour shift.
- It should able to do test as well as control on same slide without any extra consumption of reagents.
- The system must have individual slide heaters for all the slide position slide temperature should be individually controlled.
- The system should have liquid cover slip technology which will be able to control evaporation and protect tissue integrity on each slide.
- The reagents and the antibody should get mixed through air vortex technology and no mechanical part should be involved for mixing the reagents and antibodies.
- System should have dispenser technology to dispense the critical reagents to avoid cross contamination.
- Should have facility of individual programming for each slide with any protocol.
- only 100 micro litter of primary antibody must be required to cover the whole slide, irrespective of the size and number of the tissue section on the slide.
- The system should be able to recognize slide specific Barcode label which would provide automatic programming patient and case identification.
- System should have facility to control multiple staining systems in single control system to enable sharing of reagents and protocols across multiple instruments.
- The system should be US FDA certified.
- The installation and training should be done free of cost.
- The system should have compatible computer and software of latest technology available during installation. The software should be upgradable.
- The reagent carousel holds 35 ready to use reagent container.

### **2: Agitator Mixer-Agitator Mixer & Temperature Controller (Incubation with Accessories)**

- System should have provision to upgrade to Hypoxia Chamber
- Multiple heaters to provide precise temperature and temperature sensors and advanced microprocessor temperature in the chamber.
- IR CO<sub>2</sub> sensor and advanced highly uniform atmosphere and fast recovery after door opening.
- A single piece water tray that can be easily removed for emptying, cleaning, and refilling to maintain humidity.
- HEPA (High Efficiency Particulate Air) filter
- High Temp disinfection process 3” Insulation
- Heavy-duty door hinges and latches to maintain a secure and uniform seal
- Florescence light for general purpose.
- Racks & trays – Stainless Steel with adjustable height
- Double walled modular structure
- Inner chamber made up of Stainless Steel and outer powder coating
- Most Cost Effective
- Highest Level of Reliability & Safety
- Maximum space saving
- Easy locking door System
- Inner chamber should be of 304 SS
- Outer body made up of MS with powder coating
- Three number of Shelves
- Capacity of Chamber should be 180L
- Digital Touch screen HMI of 5 Inch
- Microprocessor based controlling of temp, Co<sub>2</sub>, Humidity and rpm of shaker,
- Temperature range should be ambient +2 to 60 C
- Heat sterilization of 140 C for period of 2 hours
- Temperature accuracy and stability should be  $\pm 0.1$  &  $\pm 0.1$  C at 37 C
- IR Co<sub>2</sub> sensor with accuracy  $\pm 0.1$  %

- Co2 range should be 0.1 to 20 %
- Gas uniformity  $\pm 0.1$  % at set 5.0 % Co2 conc at 37 C set temperature
- Co2 recovery should be less than 6 min after door closing
- Operational gas pressure range should be variable upto 20 PSI
- Humidity should be in upto 90 %
- Shaker speed should be 50 -250 rpm
- Internal dimensions L x W x H: 500 x 600 x 600 mm
- Outer dimensions L x W x H: 700 x 800 x 1000 mm
- Weight should be 112 kg

### **3: Clevenger Apparatus-Clevenger Apparatus with heating mantle & Temperature Controller with probe sonicator.**

- It should have Touchscreen Display-TFT
- Should have User Password Protection
- It should be Microprocessor controlled and completely programmable
- Should have Auto Frequency & Tracking system
- Should have Automatic fault alarm
- The Process capacity: 0.5-500ml (approx.)
- It should be supplied with two Probe Dia (Titanium Alloy): 6mm (1/4") and 3mm
- It should have Display Function like: Temperature, Power, Time, etc.
- Temperature range ( $^{\circ}\text{C}$ ) should be 0-99 $^{\circ}\text{C}$
- It should have Selectable Timer
- It should have Overload Protection
- Suitable stabiliser must be supplied with the equipment
- Onsite warranty: Minimum one year.
- Installation, testing, validation, demonstration/technical presentations should be conducted free of cost.
- Original illustrated Catalogue in support of technical specifications should be provided.
- Probe (mm)-2mm, 6mm
- Glass essential oil determination apparatus. Clevenger apparatus. Flask capacity 2000 ml. .one unit
- 100% genuine glass essential oil determination apparatus. clevenger apparatus
- Export quality laboratory glassware and labware. Flexible shipping and pickup option upon request.
- This image represent actual product through the color of the image and product size may slightly differ
- Electric heating mantle control temperature upto 1000 C
- Touchscreen display - 4.3 inches TFT User Password Protection available Microprocessor controlled and completely programmable. Large LCD display with Time setting . Temperature Indicator and controller. Auto-tuning for convenience and optimal processing efficiency. Variable Power Output control. Auto frequency tracking Output amplitude 0-100% adjustment. Automatic fault alarm.

### **4: Multimode micro plate reader-Multimode stability chamber (Climate) with Reader (Display)**

<b>Technical specification for chamber for animal studies</b>	
Chamber Use	To carry out experiments on small animals
	Hypobaric Hypoxia Chamber
External Dimensions	1100 X 900 X 900 mm (H X D X W)
Internal Dimensions	900 x 600 x 600 mm (H X D X W)
Chamber Capacity	It is suitable for 18 animals or 2 to 3 cages
Connectors	It has 6-8 KF connector to insert wire for sensors to observe animals parameters
Normobaric Hypoxia Chamber	
External Dimensions	1100 X 900 X 900 mm (H X D X W)
Internal Dimensions	900 x 600 x 600 mm (H X D X W)
No Of animals	6 to 7 Animals
Sensors	IR-Co2, Oxygen, Temperature, humidity
Hypoxicator	There should be generator to produce hypoxic gas of 50LPM with 95% purities.
Hypoxicator	It must be In built with the hypoxia chamber
Material	Non corrosive high quality Stainless Steel of grade 304 Internal and GI Powder coating external body
Insulation	Non-flammable high density poly urethane or equivalent material of at least 100 mm thickness

Door	Double walled heavy duty door with proper seal to stop thermal or conditioned air leakage with manual closing mechanism.
Viewing window	Toughened glass filled with dry air and heaters around glass windows to prevent condensed water or frosted ice
Temperature Range with accuracy	5°C to +60°C ; Accuracy of $\pm 0.5^\circ\text{C}$ or better measurement with temperature sensor, 1°C/min average heating & cooling
Heating system:	By ISI marked air heater and blower fitted inside the chamber Heater should be placed in a way that there is no direct radiation from the heaters on the test specimen
Cooling system:	Air cooled condenser with single stage refrigeration system should be provided with ozone friendly non CFC free refrigerant with branded compressor i.e. emerson
Humidity range	30% to 90% RH with $\pm 3\%$ to $\pm 5\%$ steady state accuracy
Humidification System	Air Atomizers for Humidification, & Dehumidification system
Air Circulation	High performance externally mounted flame proof motor driven internal fan through extended stainless steel shaft
Shelves	Minimum 2 nos. of shelves to accommodate minimum 2-3 numbers of animal cages of size 410 x 282 x 153 (L x B x H).
Mounting	lockable castor wheels
Fresh Air Control	Calibrated Air Flow Meter and Automated air flow control 0- 100 lit/min, Digital Display of flow in LCD. It must be vary with number of animals. • If Co2 increase air flow must increase as per number of animals
Vacuum control	Automated vacuum control system in the range of -750 mm Hg to 10 mm Hg or 1013 millibar to 376 millibar. Accuracy of $\pm 2$ mm Hg or better.
Vacuum Pump	Two Single Phase Two Stage Rotary Vane Vacuum Pump. Capable of continuous operation up to 30 days or more. approximate 100 liter per minute displacement capacity with safeties and controls, all should be in single line and should be operate alternate.
Altitude Range:	Altitude Range should be 0-50,000 feet
CO2 accuracy	Co2 should me maintain under 600ppm throughout the experiment
CO2 analyzer:	Analyzer with IR based sensor for checking build-up of CO2 in the chamber
Oxygen Analyzer:	Oxygen Analyzer: 0-25% with accuracy of $\pm 0.1\%$
Day & Night Simulation	Provision for day and night simulation system with both automatic and manual control for variable light intensity and duration.
Behavioural monitoring	CCTV with HDD storage and Colour TV for display with USB port
Noise and Vibration	Should be less than 65 db and 0.1mm respectively
Port holes	Pluggable capillary ports on either side wall with full proof rubber closing to bring out supply & signal cables with KF40 Connector
Quick Release Valve	To release the excess pressure
Electrical Ports/Points	At least 8 electrical ports of assorted sizes for connecting equipments
Analyzers	Sensors for measuring O <sub>2</sub> , CO <sub>2</sub> and Altitude
Control Panel	Automatic & Manual control and digital display for temperature pressure, altitude, humidity, O <sub>2</sub> & Co <sub>2</sub>
Safety features:	Safety features: I. Quick release valve and warning alarm: To break the vacuum in case of emergency, provision for quick release valve in the chamber. Provision for warning alarm for temperature, pressure and humidity overshoot. II. High temperature digital safety controller should be provided with audio warning signal for the protection. III. High voltage and low voltage cutoffsingle phase preventer should be provided. IV. Over load relay should be provided for chamber motor. V. Miniature circuit breakers should be provided for heating system. VI. Pressure gauges for measuring the refrigerant should be provided in the refrigeration system.
LED display and Alarm	Control panel should display alarms and functions. Warning alarm for deviation in temperature, pressure and humidity and in such events automatic lockout of the system should be there.
Power Supply	240V, 50 Hz AC with over and under voltage system trip facility, All electrical sub system should be protected with independent MCBs.
Warranty	Other: I. System will come with three year warranty. IV. User manual and other details will supply with instruments V. A detailed practical demo of the instruments will be provided after installation of the unit.
Real Time Monitoring system (Optional)	Real time monitoring system, all data should be shown on mobile with alarming alert.

## 5: Vacuum Pump- Vacuum Pump & Pipette Controller

It is a piston powered and oil free vacuum pump with a moisture trap/vacuum regulator. It can be used for liquid filtration and also for stack or ambient gas sampling. Compact, light and aluminium die construction makes it robust. Caution: Do not use with corrosive chemicals (alkali/acids/organic air). Avoid material/liquid suck down into pump.

Easy to use Ergonomic Design & Light weight Replaceable Filter Compatible with both Glass and Plastic Pipettes, Single handed operation with Minimum Effort Less fatigue even after long term use

Specification	Vacuum pump 300
Power	220V / 50Hz
Max Power (W)	60 (W)
Max. Vacuum	-650 mmHg
0 mmHg	17 l/min
100 mmHg	14 l/min
200 mmHg	12 l/min
300 mmHg	9.5 l/min
400 mmHg	7 l/min
500 mmHg	4.5 l/min
600 mmHg	1.5 l/min
Motor Rotation	1450 RPM
Capacitance	2 µF 450V
Horse Power	1/8 HP
Net Wt.	4.1kg
Port Thread	5/16"
Noise Level	50 db

#### Features

- Easy to use Ergonomic Design & Light weight Replaceable Filter Compatible with both Glass and Plastic Pipettes, Single handed operation with Minimum Effort Less fatigue even after long term use
- Enables single-handed operation with minimum effort • Compatible with most of the plastic and glass pipettes from 0.1-100mL • Easily adjustable speed control • 0.45µm replaceable hydrophobic filter • Stable and reliable performance, elegant appearance

#### Specification

Aspiration Speed- 25ml<7s

Dispensing Speed- Motor/Gravity

Pipette Types - Glass or Plastic Pipette (0.1-100mL), Filter 0.45µm Hydrophobic

Weight 200g

Enables single-handed operation with minimum effort • Compatible with most of the plastic and glass pipettes from 0.1-100mL • Easily adjustable speed control • 0.45µm replaceable hydrophobic filter • Stable and reliable performance, elegant appearance

#### Specification

Aspiration Speed- 25ml<7s

Dispensing Speed- Motor/Gravity

Pipette Types - Glass or Plastic Pipette (0.1-100mL), Filter 0.45µm Hydrophobic

Weight 200g

## GROUP-C: Pharmacology

### 1 Double Beam UV-Visible Spectrophotometer

- **Should have Optical system:** Double beam spectrophotometer with 1,200 lines/mm UV Vis Spectrophotometer
- Should have **Light source** : Deuterium lamp and WI lamp
- Should have **wavelength range** : 190 – 1100 nm or better
- Should have **detector** : CDD/ Silicon Photodiode
- Should have **wavelength accuracy** :  $\pm 0.1$  nm (656.1 nm)
- Should have **wavelength repeatability** :  $\pm 0.02$  nm
- Should have **spectral bandwidth** : 1.4 nm or better
- Should have **stray light**: Max. 0.05 %T (220 nm)
- Should have **mode** : Abs, %T, %R, Energy
- Should have **photometric range** : -3 to 3 Abs or better
- Should have **baseline Deviation** : 0.0005 Abs
- Should have **wavelength scanning speed** : 12000 nm/min or better
- Holmium Oxide Filter – Inbuilt or External
- One Pair 10 mm, 3.5 ml volume pathlength Quartz Cell
- Long Path Cell holder up to 50 mm
- **Long-term stability** :  $\pm 0.0005$  1/h
- **Baseline noise** at 500 nm :  $\leq 0.0001$
- Should have valid International Accreditation Certificate; either **CE** or **US-FDA**
- Should be provided compatible branded desktop computer (12<sup>th</sup> Generation Intel Core i7/16GB/1TB/Windows 11 Home/Intel HD Integrated Graphics, UPS, CD/DVD writer/reader, USB ports(4), 19.5” LED screen with **laser printer**)
- Should have ten years warranty on the optics
- The instrument should be accompanied with branded compatible UPS with at least 30 minutes back up
- Should have minimum five years CMC warranty on whole instrument with 3 more years free AMC on whole instrument (UV-Vis Spectrophotometer).
- Four extra cuvette: **two quartz** cuvette (1.0 ml & 3.5 ml) and **two glass** cuvette (1.0 ml & 3.5 ml) should be provided with UV-Vis Spectrophotometer.
- Should be provided with single channel & variable volume **Micro Pipettes (05 Nos.)** with pipette stand: **0.1 - 2.5ul; 2-20ul; 10-100 ul; 20-200 ul** and **100-1000 ul**. Micro Pipettes should have 4 digit display for more accurate volume setting and easier volume identification. Without removing any parts, full pipette needs to withstand Autoclave sterilization at 121°C for 20 min. **Pipette Volume Range with Volume Increments [0.1-2.5 ul – 0.002ul increment; 2-20ul – 0.01ul increment; 20-200ul – 0.2 ul increment; 100-100ul- 1 ul increment]**. Pipette Piston with highly resistant to heat, acids and alkalis, mildew, bleaches, aging, sunlight and abrasion. Should have ultralight weight mechanical pipette. **Micro Pipettes should have minimum 3 years warranty.**

### 2 PCR Machine

- **Platform** : 1 x 96-well plate, 96 x 0.1 ml tubes; 96 x 0.2 ml PCR tubes; 77 x 0.5 ml PCR tubes
- **Comments** : Fast 0.5 ml, 0.1 ml and 0.2 ml format and sample block enabled to run fast chemistry, Blocks: 25 °C (5 °C Zone-to-Zone)
- **Dimensions** : Height: 25 cm, Width: 24 cm, Depth: 49 cm
- **Display Interface:** 6.5 in. VGA 32k color with touch screen
- **Format** : 0.5 ml, 0.1 ml and 0.2 ml tubes, 96-well plate
- **Gradient facility:** Yes
- **High Throughput Compatibility:** High Throughput-Compatible
- **Instrument Memory:** USB and On-board
- **Peak Block Ramp Rate:** 3.0°C/sec
- **Program Features:** Auto re-start (after power outages), Program overwrite protection
- **Reaction Speed:** Fast, Standard
- **Reaction Volume Range:** 10-30  $\mu$ l
- **Sample Ramp Rate:**  $\pm 4.25^\circ\text{C}/\text{sec}$



- **Gradient block & Gradient range:** Over 12 columns & 1-20°C
- **Temperature Accuracy:** ±0.2°C (35°C to 110°C)
- **Temperature Range (Metric):** 4.0-110 °C
- **Temperature control mode:** Fast, Standard Safe; all in gradient mode
- **Heating and cooling:** Peltier
- **Temperature Uniformity:** <0.5 °C (20 sec after reaching 95 °C)
- **Tm Calculator:** Menu driven through touch screen
- **Weight:** ~11.0 kg (24 lb)
  
- Should have three steps PCR, Gradient PCR, Long range PCR, RT-PCR, Incubation cycle sequencing facility.
- Should have valid International Accreditation Certificate; either **CE or US-FDA**
- PCR machine should supply with online UPS with power back up for at least 30 min.
- Should provided with PCR tube stand (02 nos), Thermo cooler box (with gel filled cover; 32 x 2 sample storage capacity) for sample storage (02 nos.), PCR Tube of volumes 0.1 ml, 0.2 ml, 0.5 ml, quantity 100 tubes each; **Master Mixture** maintained within appropriate cold chain till delivered to the end-user, for 200 samples.
- Should be provided with single channel & variable volume **Micro Pipettes (05 Nos.)** with pipette stand: **0.1 - 2.5ul; 2-20ul; 10-100 ul; 20-200 ul** and **100-1000 ul**. Micro Pipettes should have 4 digit display for more accurate volume setting and easier volume identification. Without removing any parts, full pipette needs to withstand Autoclave sterilization at 121°C for 20 min. Pipette Piston with highly resistant to heat, acids and alkalis, mildew, bleaches, aging, sunlight and abrasion. Should have ultralight weight mechanical pipette. **Micro Pipettes should have minimum 3 years warranty.**

## GROUP-D: Gastroenterology

### 1. Digital Flat Panel Fluoroscopy Radiography System

<b>Description</b>
<ul style="list-style-type: none"> <li>• High frequency X-Ray unit with digital flat panel for various fluoroscopy &amp; Radiographic examinations. The system shall be completely integrated. The system should be suitable for fluoroscopy, Radiography &amp; DSA procedures.</li> <li>• <b>Product must be US FDA certified.</b></li> </ul>
<p><b>1. GENERATOR</b></p> <ul style="list-style-type: none"> <li>a. X-Ray unit with microprocessor controlled high frequency generator of 400 KHz with power output of 80KW or more capable of delivering upto 1000mA.</li> <li>b. Exposure kV range should be 40-150kV.</li> <li>c. System should have facility for pulsed fluoroscopy.</li> <li>d. Generator should have minimum exposure time of 1 ms or less.</li> <li>e. Fluoro mA : 0.5 mA to 10 mA in step of 0.1 mA</li> <li>f. System should have multiple user defined programs (Vendor defined programs)</li> <li>g. Automatic exposure control (AEC) should be present.</li> </ul>
<p><b>2. TABLE (+90/-90)</b></p> <ul style="list-style-type: none"> <li>a. Floor mounted, remote controlled table with scratch resistant table top, carbon fibre or equivalent radiolucent material.</li> <li>b. System should have motor driven longitudinal +/- 75 cm ( total 150 cm ) . Mention vertical and horizontal/transverse table top movements.</li> <li>c. Table should have angulations from longitudinal to head down positions.(Vertical+90 degrees to Trendelenburg-90 degrees).</li> <li>d. Table should support patient weight upto 225 kg without any restriction of table movement.</li> <li>e. System should have well designed foot switch for releasing fluoroscopy and acquisition.</li> <li>f. Table should have integrated Bucky unit for flat panel general radiography and Fluoroscopy.</li> <li>g. Minimum Table height should be 55 cm or less.</li> </ul>
<p><b>3. X RAY TUBE :</b></p> <ul style="list-style-type: none"> <li>a. X ray tube for fluoroscopy should be mounted in an Over-Couch/ <b>under Couch</b> position.</li> <li>b. X-Ray tube rating should be compatible with X-ray generator output.</li> <li>c. The X-Ray tube should have dual focal spots with rotating anode</li> <li>d. Small focal spot power rating should be minimum 30 Kw.</li> <li>e. Large focal spot power rating should be minimum 80 kW.</li> <li>f. Size of focal spots should be specified.</li> <li>g. Anode heat storage capacity should be 600 KHU or more.</li> </ul>
<p><b>4. DETECTOR SYSTEM :</b></p> <ul style="list-style-type: none"> <li>a. Dynamic digital flat panel detector, using Cesium Iodide or Amorphous silicon detector with TFT Converter.</li> <li>b. Detector dimension must be at least 43cm x 43cm or more.</li> <li>c. Image matrix size 2k X 2K pixels or more.</li> <li>d. Pixel size should be 160 micron or less.</li> <li>e. Should allow centered /de-centered collimation.</li> <li>f. DQE should be 70% or more.</li> <li>g. Resolution - 3.3lp/mm or better</li> </ul>
<p><b>5. DIRECT DIGITAL IMAGING SYSTEM</b></p> <ul style="list-style-type: none"> <li>a. Field of view of at least 40cm or more</li> <li>b. Collimator should be automatic and remote controlled.</li> <li>c. System should have real-time optimization techniques to maintain constant brightness at the lowest allowable dose to the patient.</li> <li>d. Should have Cine loop facility and last image hold facility during fluoroscopy.</li> <li>e. Acquisition matrix should be of at least 1024X1024 at minimum 14 bit rate.</li> <li>f. Digital fluoro system in standard continuous fluoroscopic operating mode from single image display to serial exposures with varying frame rates of minimum 6 fps and in pulsed fluoroscopy mode it should be upto 30 frames per second.</li> <li>g. <b>Bolus tracking system should be available.</b></li> </ul>
<p><b>6. IMAGE DISPLAY SYSTEM</b></p> <ul style="list-style-type: none"> <li>a. One large 62 inch medical grade monitor in exam room ( or 2x19 inch). One 23 inch integrated monitor on console.</li> <li>b. All Monitors should be Medical Grade with minimum resolution of 1 Mega pixel</li> </ul>
<p><b>7. CONTROL CONSOLE</b></p> <ul style="list-style-type: none"> <li>a. All system movements of table shall be controlled by the operator at the table in the examination room and also at the</li> </ul>

<p>console.</p> <p>b. The system should have facility for edge enhancement, positive/negative image display, windowing, contrast/brightness, vertical and horizontal image reversal, zoom functions.</p> <p>c. The system should have fast and direct access to all series, single images, in both examination (Remote controlled) and console room.</p> <p>d. System should have angle/distance measurement, image labeling and patient positioning facilities. e. System should have on line dosimeter on the console to display actual radiation dose.</p>
<p><b>8. IMAGE STORAGE AND TRANSMISSION</b></p> <p>a. Image storage capacity of at least 10,000 images in 1024 x 1024 matrix at 10 / 12 bits on the main system disk.</p> <p>b. The systems should support storage of images on compact discs/DVD.</p> <p>c. The system should be DICOM 3.0 (or higher version) ready (like send, receive, print, record on CD/DVD, acknowledge etc.) for connectivity to any network, computer/PC etc. in DICOM format.</p> <p>d. Vendor should connect this with existing LAN system and other laser cameras already existing in the department without any extra cost.</p> <p>e. Easy integration and networking should be possible with existing RIS including patient work list and study completion.</p>
<p><b>It is mandatory that software of DRF machine should be from manufacturer of DRF. Attach confirmation.</b></p>
<p><b>9. ACCESSORIES</b></p> <p>i. Real time online DSA Package with all DSA functions</p> <p>ii. Lead glass 100x 150 cm for console room.</p> <p>iii. 6 light weight 'zero lead' aprons with wall hanger, five of which with integrated thyroid collar, five thyroid shields, paediatric gonadal shields (All sizes both for male and female).</p> <p>iv. Stand to keep these aprons should also be supplied.</p> <p>v. Suitable online UPS for monitor &amp; digital section only with atleast 30 minutes backup. UPS battery must be covered under warranty &amp; CMC both.</p> <p>vi. Minimum necessary furniture: chairs (rotating type computer chairs of reputed brand like Godrej Interio) - 4 in number, table, 1 almirah</p> <p>vii. Fire extinguisher, alarm system</p> <p>viii. Hand grip</p> <p>ix. Foot step.</p> <p>x. Patient fixing belts and compression device (for performing excretory urography).</p> <p>xi. A voltage stabilizer of 150 KV or better for the entire unit.</p> <p>xii. Optional: 500 dpi laser printer. Rate should be quoted separately.</p> <p>xiii. <b>06 Lead spectacles</b></p>
<p><b>10. INSTALLATION</b></p> <p>Institute shall provide space for the installation of the 1000 mA digital fluoroscopy machine , UPS and accessories along with the power required for the quoted unit. Power supply shall be provided by the consignee till UPS/voltage stabilizer. Vendor shall be responsible for the installation of machine in consultation with HOD on turnkey basis with following minimum requirements. :</p> <p>i. Air conditioning 2 tons x 3 Numbers Wall type split air conditioner supply installation, testing and commissioning. Make - Daikin / Hitachi / Carrier</p> <p>ii. Lead glass with viewing window of size 100x120cm.</p> <p>iii. Floor &amp; wall mounted cupboards of adequate size.</p> <p>iv. Examination stool and foot step one each.</p> <p>v. Mike system for calling patient</p> <p>Necessary civil, electrical , mechanical , wiring, modification, furnishing , air-condition work as necessary with most reputed brand make material in a area of <b>1000 Sq Ft</b>(to be measures) to be done by bidder to satisfaction of department . All turnkey work to be covered in 5 year warranty &amp; next 5 year CMC. Submit confirmation.</p>
<p><b>11. WARRANTY/AFTER SALE SERVICE</b></p> <p>Five year comprehensive onsite warranty of entire ordered quantity with all accessories (Spares and labour) including X-ray tube, detector, all supplied items, ups batteries, and air conditioning turnkey works and all accessories. Pro rata warranty, conditional warranty not acceptable.</p>
<p><b>12. COMPREHENSIVE MAINTENANCE CONTRACT :</b></p> <p>5 years CAMC will follow after completion of warranty. Terms of CAMC will be same as of warranty period including x-ray tube, detector, all supplied accessories, UPS batteries, and turnkey. Rates of CAMC to be quoted separately on annual basis. The rates of CAMC will be considered for price bid evaluation.</p>
<p><b>13. BUY BACK</b></p> <ul style="list-style-type: none"> <li>• Buy back of existing X-ray and image intensifier system with uninstillation and decommissioning from AERB site.</li> <li>• <b>If possible, quote separate price for the existing machine.</b></li> </ul>
<p><b>14. AERB CERTIFICATION</b></p> <p>Layout plan and licensing by AERB will be responsibility of vendor.</p>

## **GROUP-E: Radiology**

### **1. Flat Panel Detector (Retrofit DR System)**

Offered detector must be compatible with all make and model of diagnostic x-ray machine. Flat Panel Detector (FPD) system for General Radiography System should be capable of taking the complete range of radiographic examinations with the following Specifications & Configuration.

#### **A. Flat Panel Detector :**

1. Latest 14"x17" Flat Panel cassette sized detector, ISO 4090 compliant fits in an existing wall-stand or table bucky tray without modification.
2. The Scintillator material of the detectors should be made up of Cesium Iodide and sensor with Thin Film Transistor (TFT) and Amorphous Silicon technology
3. The detectors should be water resistance with minimum IPX6 standard. Test certificates should be provided along with technical documents.
4. Detector must have passed drop test at minimum height of 120 cm.
5. The detectors offered should have on board memory capable of storing minimum 50 images.
6. The detectors should have minimum DQE of 55% @ 1 lp/mm or more.
7. The detectors should have a minimum spatial resolution of 4 lp/mm or more
8. Detector array Size: Should be a minimum of 3K x 4K pixels or higher
9. Pixel Pitch: 100 microns or less.
10. A to D conversion: 16 bits.
11. Antibacterial agent kneaded in to the exterior material of the detector to keep the detector safe from bacterial infection.
12. Weight of the detector should not more than 3 kg, enabling ease of use for Operations and easy positioning at the time of out of bucky exposures.
13. Images pre-viewing should be available in about less than 3secs after exposure and the cycle Time should be less than 12 seconds.
14. The detectors must be capable of working on both wired as well as wireless mode and switch over must be less than 2 sec. The detector should have capability of charging as well as wired data transfer when used in wired mode.
15. The battery must be of latest Lithium Ion type. 4 Nos Batteries along with battery charger should be provided. Company should replace batteries free of cost within the warranty period and CAMC. The battery offered should be replaced irrespective of charge cycle limitations. In case of inbuilt Battery, detector manufacturer should either replace battery or detector in case of any breakdown of battery. Kindly specify the battery type and life of offered model.
16. Battery charging time should not 30 minutes from empty to full.
17. Detectors offered should be capable of handling 150 or more exposures or 5 hours of operation in single full charge.
18. The detectors should have Automatic Exposure Detection as standard feature
19. System should have Image acquisition software, stitching software facility for Automatic/manual stitching on both X-Ray table and wall stand for complete spinal column or Full leg full spine (FLFS) on the console/ image acquisition system
20. The detectors should be able to work at normal room temperature and humidity. The detector system should not require frequent calibrations on daily start-up.
21. Detector weigh bearing capacity should be minimum 350 kgs.
22. In case bidder is not the manufacturer/Subsidiary then they must offer warranty certificate in original issued by original manufacturers for FPD`s. The original manufacturer must also give an Undertaking the guarantee to support during the entire life of the detector
23. The offered detectors should be CE & USFDA Approved

#### **B. Image Processing Console cum workstation:**

1. Original acquisition workstation software of Flat Panel Detector must be from parent company. The DR Console should be offered with latest high end image processing capability console software and high speed processor with Medical Grade monitor of 19" or more.
2. The Console or Acquisition Workstation PC to be supplied should be of latest generation with at least 8GB RAM, Intel i9 / i7 Processor and 1 TB hard disc memory.
3. There should be facility for measurements.
4. Selection of Patient demography.
5. Selection of the Anatomical parts to be X-rayed.
6. Windows and Level Adjustments.
7. Annotations must be possible.
8. Previews of images should be available in about 3 Sec or less.
9. Zooming, ROI, Image Cropping and Masking, automatic grid removal function.
10. Soft tissue processing must be possible.
11. Should offer capability of local image storage.
12. Should be capable of connecting minimum of 2 Flat panels simultaneously.
13. Should be capable of connecting directly to the Dry Laser printer of any make & model.

- Should have capability to push images to location(s) of choice such as: workstation, PACS, External storage devices, DICOM printers.

**C. Accessories – To be offered as standard:**

- The system should be supplied with 3KVA online UPS with 20-30 minutes battery back-up.

**D. OTHER REQUIREMENTS:**

- Detector and Console Software should mandatorily be from the same manufacturer.
- Easy availability of spares in India.
- Trained engineers to maintain and support the system.
- All specifications to be provided with original product data sheet/catalogue.
- Offered system should have 5 years warranty from date of installation and 5 years CAMC to be quoted separately thereafter. Warranty and CAMC must include whole system including detector, console, software, UPS and battery.

## GROUP-F: Skin & VD

### 1. Fractional Carbon Dioxide (CO<sub>2</sub>) Laser

<b>Laser Type</b>	<b>Normal, Continuous Wave, Super Pulse, Ultra Pulse Mode, Repeat Mode</b>
<b>Pulse Energy</b>	<b>Up to 250 mj</b>
<b>Power</b>	<b>Up to 50 Watt</b>
<b>Laser Wavelength</b>	<b>10600 nm</b>
<b>Operator Mode</b>	<b>Continuous and Ultra pulse</b>
<b>Scan Area</b>	<b>Up to 15 mm X 15 mm</b>
<b>Number of Installations Central/ State/ PSU Govt. Hospitals</b>	<b>At Least 2</b>
<b>Spot Size</b>	<b>Adjustable (0.1 mm- 1.25 mm)</b>
<b>Power Requirement</b>	<b>AC 220V 50Hz</b>
<b>Cooling System</b>	<b>Air Cooling</b>
<b>Backup UPS Rating</b>	<b>At least 3 KVA</b>
<b>Safety Goggles</b>	<b>For Operator and Patient with spares</b>

**Director,  
IGIMS - Patna.**