BIDDING DOCUMENT

SHORT TENDER NOTICE No: 28/2019- 2020/Bio-Medical Equipment/IGIMS/Store



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

SHORT TENDER NOTICE No:28/2019- 2020/Bio-medical Equipment/IGIMS/Store							
Issued to:							
Cost of Docume	nt: Rs.2000/-						
Paid By:	Cash:	Receipt No.:					
Demand Draft:	No.:						
		Issuing Bank:					
		(Authorized Signator	·y)				

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES,

SHEIKHPURA, PATNA - 800014.

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IMPORTANT DATES

Last date for Purchase of Bidding Document	Can be downloaded from Institute website
Last date for submission of completed bidding	07/06/2019 up to 4.00 PM.
document	by registered/speed post/ Courier only
Date of opening of technical bid	08/06/2019 at 11.00 A.M. in Conference
	Hall IGIMS, Patna.
Date of demonstration of equipment	To be informed to the qualified bidders
	qualifying after opening of technical bids.

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

Sr. No. of Tender:

FILE NO. : Tender No.:

Tender form issued in favour of:_____

Dear Sir,

1. I/We hereby submit our tender for the _____

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

Yours faithfully,

(Signature of Bidder with full name and address)

CHECK LIST FOR TERMS AND CONDITIONS

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

Sr. No.	Terms & Conditions as per Bidding Document	Page No.	Remarks
1.	 Status of Bidder: Manufacturer or Authorized Agent of the Manufacturer Whether Public Undertaking, Public Ltd., Private Ltd. Company or Proprietary Firm/partnership firm (Please attach Notary certified MANUFACTURER'S AUTHORISATION FORM as per FORMAT placed at Authority Company of Co		
2.	Annexure – III) Power of Attorney as per Annexure - V in favour		
3.	of person to sign, submit and negotiate the bid. Certificate towards market standing of minimum 05 years in the area of supply and or maintenance of bio-medical equipment's.		
4.	Certificate for sole ownership / partnership		
5.	Statement of financial standing from bankers		
6.	Statements of turnover per year for last three successive years duly certified by the Chartered Accountants.		
7.	Notary certified User List (List of Govt. /Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.		
8.	Notary certified Supply order copy (Minimum 3nos. or more) issued by Govt./Semi Govt.//Reputed Pvt. Institutions/organization for the quoted items. (same model)		
9.	Notary certified Performance certificate of the same supplied machine (of quoted make and Model) issued by Head of the dept. or Institution after a minimum period of six months of installation		
10.	Prerequisite (if any) for installation of the Machine, if any, to be provided by the Institute.		
11.	Whether rates quoted are inclusive of all taxes or not.		
12.	Whether rates are quoted as per format mentioned in the Bidding Document or not.		
13.	Affidavit to the effect that the bidder is not blacklisted by any Govt. agency or have no pending case either Civil or Criminal against them.		
14.	Affidavit, to the effect that the bidder is not supplying the quoted item(s) to any other Govt. / Pvt. Organizations / Institutions / Hospitals at the rate lower than the rate quoted against this tender.		
15.	Quality Assurance Certificate like ISI, ISO-9002,		

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

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

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

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

(Name of the Bidder with signature & seal)

ELIGIBILITY CRITERIA

01	Manufacturers or their authorized dealers/Indian subsidiaries/direct importers having	Mentioned
	a place of business in any of the States of India are eligible to participate in this tender.	Page no.
02	The bidder and manufacturer of the equipment offered should be in the business of the supply and installation of same / similar equipment for the last five calendar years.	
	(a)The manufacturer should have completed at least 05(Five) nos. installations of the quoted items in Govt. /Pvt. Institutions /Hospitals in India. The installations mentioned by the manufacturer in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.	
	(b) The bids quoted as the authorized representative of the manufacturer meeting the above criteria 02 (a) should have also supplied and installed at least 03(Three) nos. installations of the quoted items in Govt. /Pvt. Institutions/ Hospitals in India in last five years from the last date of submission of tender. The installations mentioned by the authorized representative in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.	
03	The Bidder should be public undertaking /Autonomous Body /Public Ltd./Pvt. Ltd. Company or proprietary firm /Partnership Firm and should be in medical equipment business since last five years in India. The Bidders having manufacturing facility in their name in India for the majority of the items offered by them shall be given preference.	
04	The Bidder (manufacturer or their authorized agent) should have had average annual financial turnover of Rs. 50 Lakh during the last three years ending s 31 st March 2016.	
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:		

Note:

• Notwithstanding anything stated above, the Institute reserves the right to assess the Bidder's capability and capacity to perform the contract satisfactorily before deciding on award of contract, should circumstances warrant such an assessment in the overall interest of the purchaser.

• The Institute reserves the right to ask for a free demonstration of the quoted equipment at a predetermined place acceptable to the purchaser of technical acceptability as per the tender specification, before the opening of the price tender.

INSTRUCTION TO BIDDER

GENERAL INSTRUCTIONS TO BIDDERS

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

PART - II titled as PRICE BID

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

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

- 4. The "Bidding Document" along with terms and conditions, technical specification can be obtained from the office of the Store Officer, IGIMS, Patna on payment of Rs.2000/-(Rs. Two thousand only) Non –refundable for each Group by demand draft favouring Director, IGIMS, Patna payable at Patna.
- 5. The "Bidding Document" can also be downloaded from institute website <u>www.igims.org</u>. 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 07/06/2019up to 4.00PM by speed/Regd. post/ Courier only and technical bid will be opened on 08/06/2019 at 11.00 AM in Conference hall IGIMS, Patna

7. Earnest Money Deposit (EMD):

- **Earnest Money2% of the cost of Equipment required** to be submitted along with tender by Demand Draft from any scheduled Indian Bank (valid up to one year from the date of technical bid opening.) only along with the tender favouring Director, I.G.I.M.S. Patna (payable at Patna). No interest is payable on EMD/ Bid security.
 - a. Bidder may quote more than one/several models. In such a situation EMD will be payable on the basis of highest priced model.

- b. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of final bid validity and latest on or before the 30th day after the award of the contract without any interest.
- c. EMD must be submitted in separate sealed envelope and endorsement of the same with DD number & date Bank Guarantee No. and its validity period be made with technical bids without amount stating that the same has been complied with price bid. If same is later found not enclosed tender will be cancelled for the party.
- d. Non- submission of sufficient EMD along with the Technical Bid shall be one of the primary reasons for rejection of the offer in the first round.
- e. Cheque, Cash payment, Money Order, Fixed deposit etc will not be accepted as EMD.
- f. Public Sector Units within the State or State micro, small and medium enterprises registered with Govt. are exempted from remittance of EMD subject to submission of valid documents.
- g. The EMD shall be in one of the following forms:
 i.; A demand draft in favour of Director, I.G.I.M.S. Patna (payable at Patna);

OR

ii; A Bank Guarantee issued by a nationalized/ scheduled bank located in India, in the form prescribed in the tender document as Annexure- IV (valid up to one year from the date of technical bids opening) Bank Guarantee in any other format will not be acceptable and render the bid non-responsive.

iii.;The successful Bidder's EMD will be discharged upon the Bidders signing the contract and furnishing the performance security. The EMD deposited in the form of DD of the successful Bidder can be adjusted towards the security deposit payable.

9. Bidder(s) should mention the DGS & D registration, if registered, and attach photocopy of DGS &D

registration certificate Photocopy of Income tax & sales tax clearance certificate should be enclosed.

- 10. For Imported Goods, Indian Agency Commission must be declared in financial bid.
- 11. The Bidder's shall have to submit the following documents (Certified by Notary) in technical bid:
 - a. User List (List of Govt. / Semi Govt., Reputed Pvt. Hospital) where quoted model of the items has been supplied and installed.
 - b. Supply order (minimum 3 nos. Or more issued by govt./semi govt./reputed pvt.institution/organisation for quoted items (same model)
 - c. Performance certificate of the same supplied machine (of quoted make and Model) issued by **Head of the deptt. or Institution** after a minimum period of six months of installation.
 - d. Prerequisite (if any) for installation of the Machine if any to be provided by the Institute.
 - e. If the manufacturing company and/or its Indian agent (for Foreign manufactured) have authorized some agency for participation in this tender for a limited period than in that case they (Manufacturer / Indian agent) shall have to submit an undertaking duly notarized by Public notary that if their tender is selected they shall be solely responsible for compliance of all the terms and conditions mentioned in the bilateral agreement for purchase and subsequent supply order even if their authorized agent is changed. Any tender offer without such certificate duly certified by public notary shall be rejected in technical scrutiny itself.
 - f. Bidder must submit a compliance checklist along with the technical bid itself.
 - **g.** (Any tender offer without submission of above mentioned document (i.e. a to e) shall be rejected during technical scrutiny.)

h. If any new System/ Latest model machine is a launched in the market and seller has not installed such quoted models they should submit an undertaking that he has not installed such models previously (Notarized by Public Notary). They may submit supply order / performance certificate of previous model, which was recently installed by them.

Installation & site plan:-

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

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

12. After Sales Service Conditions:

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

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

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

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

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

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

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

- The decision to enter into CMC or AMC will be determined on the basis of cost and complexity of the equipment by the Tender Inviting Authority, at its discretion, prior to the expiration of warranty period.
- The Comprehensive Maintenance Contract (CMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing the comprehensive warranty of the equipment shall be extended during the period of CMC, only difference being the payment of CMC charges is absent during the period of comprehensive warranty.
- The cost of CMC, accessories spares, and consumables as in case may be quoted along with taxes applicable, if any. The taxes to be paid extra, to be specifically indicated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- Failure/refusal on the part of the successful tender supplying/installing the equipment's to enter into CMC with the Tender Inviting Authority, at the end of the Comprehensive Warranty Period, if the Institute, as the case may be, desires so, shall lead to forfeiture of performance security and may also result in the blacklisting/debarring of the Bidder.
- The successful Bidder shall also indicate the rates for the CMC in price bid form and such rates are binding on the successful tenders after the expiration of the warranty period. The yearly rates for CMC shall remain the one and the same as quoted in the price bid form for the extended years.
- Cost of CMC (excluding taxes, if any) will be considered for Ranking/Evaluation purpose.
- The payment of the agreed CMC charges will be made as per frequency for payment after satisfactory completion of said period, on receipt of service report/ break down report from the user.
- The Bidder shall also have to submit whether periodic replacement of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year if the same is not included in quoted Comprehensive Annual Maintenance Contract charges per year.

13. <u>Time Limits prescribed</u>

Sl.	Activity	Time Limit
No		
a.	Installation & Delivery period	12 weeks from date of issuance of Supply Order
b.	Comprehensive warranty period	3 years from the date of successful installation except Sr.No-4
		& Sr.No-5 (Group-A)
c.	CMC period	7 years
_		
d.	Frequency of visits to all User Institution concerned during	One visit every three months (4 visits in a year) for
	Institution concerned during Warranty/CMC	periodic/preventive maintenance and any time for attending repairs/break down calls.
e.	Frequency of payment of CMC charges	Every six months after completion of the Period.
f.	Submission of Performance Security	10 days from the date of issuance of Letter of Intent
	and entering into contract	
g.	Maximum time to attend any Repair	Within 24 hours.
	call	
h.	Uptime in a year during warranty as	95% of 365 days.
	well as during CAMC period.	

- 14. Firm have to provide a minimum **UPTIME GUARANTEE** of 95% (95% of 365 Days) per year during the warranty period as well as during the Comprehensive Annual Maintenance Contract.
- 15. While calculating the total unit price of the item / system to be procured, expenditure to be incurred in maintenance of the quoted item / system including all spare parts for a total period of seven years after expiry of the warranty period of three years shall also be taken into consideration. Accordingly, it is mandatory for the bidders to submit the rate for Comprehensive Annual Maintenance Contract (with spares) for a minimum period of seven years after the expiry of warranty period of three years.
- 16. Supplier will submit undertaking for ensuring uninterrupted supply of spares during the total life span of the equipment's.
- 17. Indian agency commission and Installation charge if any will be paid in Indian rupees after successful installation and demonstration of the equipment's.
- 18. Principal's Invoice of the quoted items must be submitted with the quotations.
- 19. Proof of the official Indian agent certificate of the firm must be attached. (Notary Certified Photocopy)
- 20. In order to fully and optimally utilize the equipment, training to Para Medical Staffs and Doctors should be provided. In continuation to this training, separatemaintenance training for the machine and the sub systems should also be given to the "Equipment Maintenance Engineer" and "Equipment Maintenance Technicians". All the financial commitments in this regard shall be met by the bidder(s).
- 21. Bidder(s) have to submit an affidavit to the effect that they have not supplied the offered item(s) to any Govt., semi Govt. / Pvt. Organization, Institution, Nursing Home etc. at the price lower than the price offered to I.G.I.M.S. Patna.
- 22. All the claims regarding meeting the specifications shall be duly supported by appropriate, latest technical catalogues/brochures from the manufacturer. Simply stating that the equipment(s) meets the specifications is not sufficient and any such quotations will be summarily rejected. Computer printed documents or Photostat copy or laser printouts will not be accepted as technical catalogues / brochures.
- 23. Bidder might be required to demonstrate the system at the discretion of the institute.

24. Notification of Award/Letter of Intent (LOI)

- a. Before expiry of the tender validity period, the Institute will notify the successful Bidder(s) in writing, by registered / speed post or by fax or by email (to be confirmed by registered / speed post immediately afterwards) that its tender for equipment(s), which have been selected by the Institute, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. This notification is undertaken by issuing a Letter of Intent (LOI) by the Institute.
- b. The successful bidder, upon receipt of the LOI, shall furnish the required performance security and submit an agreement in the prescribed format within ten days, failing which the EMD will forfeited and the award will be cancelled.

c. The Notification of Award shall constitute the conclusion of the Contract.

25. Signing of Contract

- The successful bidder shall execute an agreement for ensuring satisfactory supply, installation, commissioning and the after sales service/support during the warranty period and during the Comprehensive Annual Maintenance Contract.
- 27. The Director reserves the right to accept or reject any or all tenders without assigning reasons.
- 28. The Director reserves the right to modify, add or delete any terms & conditions of the contract as and when required.

29. Amendment of tender documents:

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

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

CONDITIONS OF THE CONTRACT

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

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

02. <u>Demurrage. Taxes & Octroi:-</u>

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

03. Warranty Period:

- a. The "**Complete System**" shall remain under warranty period of <u>three years</u> except Sr. No- 4 & 5 of Group-A from the date of satisfactory installation. The Complete System should include the basic unit and allied supporting components like UPS, Computer System, Printer, De-ionizer, Dehumidifier etc. to be supplied by the bidder along with basic unit if necessary for running the system.
- b. During warranty period of three years, bidder shall provide at least **four maintenance visits per year** at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval, a proportionate deduction in the form of penalty on pro-rata basis will be recovered from the bidder from the Bank Guarantee amount. In case the Bank Guarantee is not adequate, Institute shall have right to recover the losses / penalty from other sources as well.
- c. Bidder shall also attend all breakdown calls within 48 hours of the receipt of the information from institute through fax/e-mail/mobile/sms etc.
- d. During warranty period, **bidder** shall maintain and keep **95% uptime** per year of the **Complete System**"as per calculation given below:-.

1 Year = 365days 95% of 365 days = 347 Days per annum

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

04. After Sales Services: -

a. After expiry of the warrantee/Guarantee period of the equipment, the Indian agent will have to undertake the Comprehensive Annual Maintenance contract (with spare parts, accessories,

consumables etc.) of the Complete System for the further life span of equipment. The life span of the equipment shall not be less than ten years. In special circumstances the total life span of the Equipment/ items may be reduced by the Institute.

- b. The Complete System should include the basic unit and allied supporting components like UPS, Stabilizer, Computer System, Printer, De-ionizer, Dehumidifier etc to be supplied by the bidder along with basic unit if necessary for running the system.
- c. During Comprehensive Annual Maintenance Contract, bidder shall provide at least **four maintenance visits per year** at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval per year, a proportionate deduction in the form of penalty at the rate of 25% of contract amount per year will be deducted.
- d. Bidder shall also attend all breakdown calls within 48 hours of the receipt of the information from institute through fax/e-mail/mobile/sms etc.
- e. During Comprehensive Annual Maintenance Contract, **bidder** shall maintain and keep **95% uptime** per year of the"**Complete System**"as per calculation given below:-.

```
1 Year = 365days
95% of 365 days = 347 Days per annum
```

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

05. **Performance Security**

- a. There will be a performance security deposit amounting to 10 % of the total value of the equipment excluding taxes, which shall be submitted by the successful bidder within 10 days from the date of issuance of "Letter of Intent".
- b. The contract duly signed and returned to the Institute shall be accompanied by a demand Draft or Bank Guarantee in the prescribed format.

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

06. Delivery period/Liquidated Damage: -

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

i. 1st extension for a month or a part thereof @ 2% per month of C.I.F. value.

ii. 2nd extension for an additional month or a part thereof @ 3% per month of C.I.F. value subject to maximum Limit of 20% of the order items. All expenses incurred for extension of L.C. will be borne by supplier/his Indian agent.

iii. Cancellation.- If delivery is not done even after 2nd extension Institute shall have the right of cancellation of Supply order at its discretion..

07. <u>Payment: -</u>

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

- a. In case, the equipment is purchased in Indian Currency then the payment will be made as per following scheduled.
- b. 90% payment will be released against delivery and successful installation of the equipment & balance 10% will be released on submission of 10 % Bank Guarantee of the total cost of ordered value. This Bank Guarantee will be released after expiry of guarantee period.
- c. L. C. will be opened only after receipt of the 20% bank Guarantee of the total cost of equipment (with a minimum validity to cover up the warranty / guarantee period), confirmation letter of all our terms and condition, submission of agency certificate in favour of Indian agent who have submitted and quoted the price, name of the Bankers abroad; intimation about country of origin and 10 copies of Performa invoice of the ordered item. Indian Agency commission will be paid in Indian currency

only to Indian agent, if any. No extra charges will be paid for installation/demonstration and training to personnel.

08. Validity of Price:-

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

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

10. Packing & Marking:-

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

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

12. Insurance: -

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

13. <u>Installation & site plan</u>:

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

- a. Total power consumption along with breakup of main System and Accessories.
- b. Whether the System needs uninterrupted power supply.
- c. Maximum tolerated transfer time in case of interruption of power supply.
- d. Whether the System needs any humidity control device.
- e. Whether the System needs any separate power line/isolation Transformer.
- f. Does the System need the electrical shielding?
- g. Whether Air Conditioner is required for the System.
- h. Does it require special civil works for installation?
- 14. The bidder should also quote for supply of "Un-Interrupted Power Supply" (UPS) with a battery backup of at least 30 minutes, "Constant Voltage Transformer (CVT)" of reputed manufacturer of required capacity along with Spike Suppressor or "Servo Voltage Stabilizer" as per requirement of the System. Bidder may quote the prices for all the above items (UPS/CVT/SERVO VOLTAGE STABILIZER) and the decision will be taken during technical evaluation of the item whether UPS is suitable or CVT / Servo Voltage Stabilizer will serve the purpose.

15. <u>Responsibility:-</u>

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

- 16. The bidder is required to provide list of persons (along with their permanent and correspondence address) owing more than 1% share ownership in the company/firm (both principle and Indian Agent).
- 17. The bidder is required to submit compliance sheet, which should reflect details of clause-byclause compliance of technical specifications as well as general terms & conditions failing which their offer shall be rejected.
- 18. In order to fully and optimally utilize the equipment, training to paramedical staff and Doctors should be provided. In continuation to this training a separate maintenance training for the machine and the sub system should also be given to the Equipment Maintenance Engineer and Maintenance Technicians of the Institute. All the financial commitment in this regard shall be met by the firm/Principal.

19. Penalties for non-performance

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

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

20. **Termination of Contract**

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

Termination for convenience: - The Institute reserves the right to terminate the e. whole (Institute) contract. in or in part for its 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 also indicate interalia, which successful notice shall the extent to the under contract is the bidder's performance the terminated, and 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'ssupplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

22. Applicable Law & Jurisdiction of Courts

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

Director, IGIMS - Patna.

CHAPTER:

SCHEDULE OF THE REQUIREMENT

Group -A- NELS
List of Equipment's
SYRINGS INFUSION PUMP
VENTILATOR
DEFIBRILLATOR CUM MONITOR WITH EXT. PACING
FLEXIBLE SPINE MODEL
CERVICAL SPINE MODEL
Group-B- Radiology
80 KW HIGH FREQUENCY X-RAY MACHINE
30 KW HIGH FREQUENCY X-RAY MACHINE
Group-C- Medical Oncology
VERTICAL LAMINAR SAFETY CABINET (CLASS II TYPE B)
CHEMOTHERAPY COUCH / RECLINERS

ANNEXURES Annexure - I (a)

PRICE SCHEDULED FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN

LOCATED WITHIN INDIA.

1	2	3	4	5							6
				Price per un	it (Rs.)						
Sched uled	Brief descript ion of goods Make: Model:	Countr y of origin	Qty. nos.	Ex- factory/ex- warehouse /ex- showroom/ off-the shelf (a)	Excise duty(if any) % and value. (b)	Sales tax/ vat(if any % and value. (C)	Packi ng and forwa rding charg e (d)	Inland transportatio n, insurance for a period including 3 months delivery, loading/ unloading and incidental cost till consignee site. (e)	Incidental services (including installatio n and commissi oning, supervisio n, demonstra tion and training) at the consignee site. (f)	Unit price (at consign ee site basis(g)	Total unit price (At Consign ee Site) Basis Rs. 4x5(g)

Total quoted price in Rs. In Words: Note: 1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

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

Date:

Signature of Bidder;-

Business Address;-

Seal of the Bidder;-

Annexure: I (b)

PRICE SCHEDULED FOR GOODS TO BE IMPORTED FROM ABROAD

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

To be paid in Indian Currency (Rs) : Total Tender Price in Foreign Currency:.... In Words;-....

Note:-

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

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

Indian Agent;-Indian agency commission: % of FOB

> Name: Signature of Bidder;-Business address;-Signature of Bidder Seal of the Bidder;-

Place;-Date

<u>Annexure - II</u> <u>COMPREHINSIVE ANNUAL MAINTENANCE CONTRACT PRICES SCHEDULE</u>

3rd Yr.

e

2nd Yr.

d

1.	Make: Model: Qty.:					
2.	Name of the Equipment: Make: Model: Qty.:					

4th Yr.

f

5th Yr.

g

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)

S.

а

No.

Item

b

1 1

Description

Name of the Equipment:

1st Yr.

с

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:**

- 48 Hours.
- e) Uptime Guarantee: 95% of 365 days
- f) The above-mentioned charges should includes labour charges for maintenance and breakdown visits per year, spares, accessories and all type of consumables required for the maintenance of the supplied items. If any spares / consumables /accessories etc. are not covered under above-mentioned charges; it should be clearly mentioned with frequency of replacement and with rate. The validity of rate of such items should also be mentioned clearly. What will be the rate of escalation on the quoted rate after expiry of the validity of rate of such item must be mentioned.
- g) Payment of Comprehensive Annual Maintenance Contract would be made on half yearly basis after completion of work and satisfactory working report. In no case, advance payment is to be considered.

Seal and Signature of the bidder

within

The rate

Total

Annual

expiry

from

j

g + h + i)

6th Yr.

h

7th Yr.

i

Comprehensive

Contract over a period of seven years after

period of three years

successful installation. (a + b + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + e + f + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c + d + c

of

the

Maintenance

date

warranty

of

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

:

:

- 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.

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

То

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

WHEREAS _______ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of tender no______ dated ______ 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.

.....

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

ANNEXURE - V

POWER OF ATTORNEY

(On a Stamp Paper of relevant value)

Sri/Smt...... undertake that 1/we will be responsible for all action of the reafter on award of the contract. His / her signature is attested below

Dated this the ____day of 201_ For_____

(Name, Designation and Address)

Accepted

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

Date : _____

Specification & Allied Technical Details Group-A

1. Syringe Infusion Pump- 1 Nos.

Technical Specifications of Syringe Infusion Pump-

1. Description of Function-

1.1 The Syringe Infusion Pump provides uniform flow of fluid by Precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of I.V. medication in critical medical care.

2. Operational Requirements-

2.1 The syringe pump should be programmable, user friendly, safe to use and should have battery backup and comprehensive alarm system.

2.2 Demonstration of the equipment is a must.

3. Technical Specifications-

3.1 Flow rate programmable from 0.1 to at least 999 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option.

3.2 Bolus rate should be programmable from 0.1.to at least 999 ml/hr or more with infused volume display. Reminder audio after every 0.5 ml delivered bolus.

3.3 Display of Drug Name with a provision of memorizing 10~15 names by the operator with drug calculations 3.4 Keep Vein Open (KVO) must be available 1.0 ml/hr or set rate if lower than 1.0 ml. User should have choice to disable KVO whenever desired.

3.5 Occlusion pressure trigger three levels

3.6 Should be European CE/USFDA APPROVED/CERTIFIED

3.7 Should work with standard disposable syringes of 10, 20, 50/60 ml sizes of different makes.

3.8 Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc.

3.9 Anti bolus system to reduce pressure on sudden release of occlusion

3.10 Should have comprehensive alarm package including: Occlusion limit exceed alarm, Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre alarm and alarm, AC power failure, Drive disengaged.

3.10 Power input to be 220-240 VAC, 50 Hz. Rechargeable Battery having at least 4~6 hour backup for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.

4. System should include-

4.1 Syringe Infusion Pump - 01

5. Environmental factors-

5.1 Shall meet IEC-60601-1-2: 2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

5.2 The unit shall be capable of operating continuously in ambient Temperature of 10 -40deg C and relative humidity of 15-90%

5.3 The unit shall be capable of being stored continuously in ambient temperature of 0 degree Celsius to 50 degree Celsius and relative humidity of 15-90%

5.4 Demonstration is a must.

5.5 ESSENTIAL TO SEPARATELY MENTION THE PRICE OF EACH CONSUMABLE

5.6 Should be USFDA/ European CE approved

5.7 Warranty of 3 years followed by CAMC of 7 years.

5.8 Electrical safety norms: should be compatible with Indian electricity supply.

5.9 Rate of accessories to be quoted separately.

2. <u>Centralized Compressed Based Mechanical Ventilator – 1 Nos.</u>

Technical Specification of Centralized compressed based Mechanical Ventilator-

Ventilator for demonstration should be kept for at least 3 days for use as desired by the TEC during technical evaluation. Software simulation or detail videos explaining each feature should be provided in demonstration. Those who fail to demonstrate ventilator may be disqualified. Selection will be done by fulfillment of specification and maintenance cost.

Department of Anesthesiology should be contacted for any query about tender.

Attach images of all accessories intended to be provided along with information about make and model.

Features required in ventilators

Pediatric-Adult ventilator with Volume control, Pressure control, SIMV, NIV (pressure support and pressure control), Pressure regulated volume control, volume support (preferable)

Cost should be quoted in following parts for comparison

- 1. Cost of ventilator with features with accessories (except high flow oxygen therapy accessories) as mentioned
- 2. Cost of reusable flow sensor

Technical specifications:

1. Compressor based ICU ventilator (Independent of central gas installation)	
2. Brand of international repute with presence in market for at least 10 years (preferable)	
 3. Modes of ventilation: Volume control: VC with flow adaptation, VC without flow adaptation and VC with decelerating flow option is preferable Pressure control Pressure Regulated volume control SIMV (VC) +PS SIMV (PC) +PS, NIV (NIV PS and NIV PC modes) with maximum leakage compensation level 50L/min Pressure support including apnea backup ventilation. Volume support(preferable) High Flow oxygen therapy ((Preferable) 	
4. Pediatric - Adult use with preferable tidal volume 100 ml- 2000 ml (in increments of 10 ml).	

5.	Display:	
5.	 Display: At least 10"-12" LCD TFT touch screen display (must) with intuitive menu with viewing area 246 x 184 mm approximately. Facility of rotation and 45° tilt of display Ventilator settings can be made either via the touch screen, the main rotary dial, or a combination of both High-resolution pressure, flow and volume waveforms & loops, Clear graphic presentation Up to 2/3 waveforms should be displayed simultaneously. Waveforms should be easily seen from distance for interpretation Graphic scale: auto and adjustable scale. Ventilator with option of adjustable graphic scale will be preferable. Machine should have the facility to show inlet pressure of oxygen & Compress Air. 360-degree visible alarm lamp (preferable) 	
6.	Lung mechanics package including loops & respiratory parameters: resistance, static and dynamic compliance, P0.1, rapid Shallow Breathing Index, Work of Breathing, elastance, NIF	
7.	Display following monitoring values: Breathing frequency, Spontaneous breaths per minute, Peak Airway Pressure, Mean Airway Pressure, Pause Airway Pressure, End Expiratory Pressure, Inspired Tidal Volume, Expired Tidal Volume, Inspired Minute Volume, Expired Minute Volume, Leakage fraction in NIV (%), Ti/Ttot, I:E ratio, Total PEEP, oxygen Concentration (measured), MVe sp / MVe, Spontaneous Exp. Minute Volume (MVe sp), End Expiratory Flow, Static Compliance, Dynamic Compliance, Inspiratory Resistance, Expiratory Resistance, P0.1, NIF	
8.	Special functions:	
	 Suction maneuver: Pre-suction oxygenation, automatic disconnection detection for suction, automatic reconnection detection and post suction oxygen enrichment phase. Manual inspiratory hold Expiratory hold Integrated medication nebulization 100% O2 P0.1 NIF 	
9.	Automatic Disconnection detection and Reconnection detection	
	Diagnostic trend tools to ensure accurate time and detail recording for at least 24 hours after an event Event log: storage and display of events with date and time stamp	
12.	Trended values: Breathing frequency, spontaneous breaths per min, peak airway pressure, mean airway pressure, pause airway pressure, end expiratory pressure, inspired tidal volume, Expired tidal volume, leak fraction in NIV, O2 concentration, spontaneous expiratory minute volume and optional values: static compliance, dynamic compliance, inspiratory resistance, expiratory resistance, elastance, P0.1, work of breathing, rapid shallow breathing index	
13.	System Check	
•	O2 /Air/Expiratory flow sensor test Expiratory/safety valve test	

- O2 sensor test
- Leakage/compliance/circuit resistance measurement
- Leakage, resistance and compliance are automatically compensated during ventilation

14. General ventilator specifications

- Installed over mobile cart for intra-hospital transfer (Supplied by company) with connection slot for heated humidifier.
- Ventilator side arm (imported and supplied by company)
- Internal battery support upto 60 min
- Low bias flow (2.0 LPM for adult) & high sensitivity at low volumes
- Gas delivery system: Microprocessor controlled valves and precise gas delivery by speed in sensing and regulation
- PEEP regulation: Microprocessor controlled valves.
- Peak gas flow >180 L/min
- Reusable flow sensor- for high sensitivity, accuracy, reliability & speed
- O2 Sensor: Non-consumable and maintenance- free O2 sensor will be preferable. Free replacement during Warranty & CAMC.
- Autoclavable expiratory valve set
- O2 high pressure hose with coupling with each ventilator
- Air high pressure hose with coupling with each ventilator
- Air festo filter with each ventilator

15. Software: Free upgradation of software for lifetime of ventilator.16. Vendor will have to inform about any updates in software every year.

17. Accessories: should meet the requirements of relevant BS, ISO and EN standards

- A. Vibrating mesh nebulizer Unit (Aerogen) with AC-DC adapter with **reusable** nebulizer chambers: 1
- B. Extra reusable flow sensor with exhalation valve:1
- C. HME Cum bacteria filter (Pure hygroscopic or combined hydrophobic hygroscopic) with at least 70% efficiency, providing at least 30 mg/L of water vapor: **10**
- D. Reusable NIV non-vented masks with soft silicon cushion with headgear with nonbreakable clips: <u>2 small size and 2 medium size</u>
- **E.** Adult disposable dual limb circuit <u>:10</u>
- F. Autofill reusable humidifying chamber for heated humidifier(MR850) <u>:1</u>
- G. Aeroneb nebulizer/ Programmable Nebulised with Kit(Inbuilt)

18. Operational data

- Operating temperature: +10 to +40°C, Relative humidity: 15 to 85% noncondensing, Atmospheric pressure: 660 to 1060 hPa, Lowest pressure in breathing system -400 cmH2O
- Certificates (Pre-market, sanitary; performance and safety standards (Specific to the device type); local &/or international:
- FDA/European CE/BIS approved product.
- Manufacturer and supplier should have ISO 13485 certification for the quality standards
- Electrical safety conforms to the standards for electrical safety IEC60601 general requirement
- Shall meet internationally recognized for electromagnetic compatibility (EMI/EMC) for electrometrical equipment: 61326-1 Certified to be complaint with IEC 61010-1, IEC 61010-2 40 safety
- 19. Disinfection: Parts of the device that are designed to come into contact with the patient or the operator should be capable of easy disinfection

20. Requirement for sign-off:

• Certificate of calibration and inspection of parts from the manufacturer.	
• Training of staff (Medical, nurses, technicians):	
• Training of users on operation and basic maintenance for 2 weeks	
• Advanced maintenance task required shall be documented	
21. Maintenance and Service	
• Response time should be less than 24hrs.	
 Time to rectification should be less than 48hrs. 	
• If rectification time more than 48 hrs then standby unit to be provided.	
• User & service manual should be provided (Soft copy & Hard copy).	
• Operating & maintenance training should be given to BME.	
• Calibration & quality testing certificate from manufacturer.	
• Uptime guarantee should be 95%.	
• Price list of the important spare parts with their parts number is must	
22. Warranty of 3 years followed by CAMC of 7 years.	
23. To quote price of enabling neonatal mode with proximal flow sensor separately	

3. Defibrillator-cum-Monitor with external pacing- 4 Nos.

Technical Specifications of Defibrillator-cum-Monitor with External Pacing-

Description of Function

- 1. Defibrillator should use low energy biphasic waveform for delivering shock energy & must have energy selection from 1-200J.
- 2. It should have AED as well as manual mode.
- 3. Should have facility to do ECG monitoring, transcutaneous pacing, defibrillation and synchronized cardioversion.
- 4. Must be capable of monitoring ECG through ECG cables, multiple function electrodes/pads & external paddles.
- 5. Unit should have adult & in-built paediatric external paddles & should be able to defibrillate both adult & paediatric patients.
- 6. Machine should be compact & portable within built rechargeable battery for at least 1 hr. of continuous ECG monitoring.
- 7. It should have battery charge indicator.
- 8. Should have facility for self-test.
- 9. It should have disarm facility.
- 10. Defibrillator should have pulse Should have facility for external non-invasive pacing.
- 11. Should have user selectable alarm settings.
- 12. Should work on mains as well as rechargeable battery.
- 13. Should be supplied with following accessories-
- 1)Battery: 1no.
- 2)5 Lead ECG cable 1no.
- 3)External defibrillator paddles (ped & adult)- 1no.
- 4)Multi-function defibrillator & monitoring pads/gel sheets 4 per unit
- 5)SPO2 probe- finger probe one for adult per unit
- 6)NIBP cuff for Adult one per unit
- 13. Demonstration is a must.
- 14. Should be USFDA/ European CE approved
- 15. Warranty of 3 years followed by CAMC of 7 years.
- 16. Electrical safety norms: should be compatible with Indian electricity supply.

- 17. Rate of accessories to be quoted separately.
- 18. Shall meet IEC 60601 1 -2: 2001 (or equivalent BIS) general requirements of safety for electromagnetic compatibility.
- 19. The unit shall be capable of operating continuously in ambient temperature of 10 degree Celsius to 50 degree Celsius and relative humidity of 15% to 90%.
- 20. After sales service should be available locally.

4. Flexible Spine Model- 1 Nos.

Technical Specifications of Flexible Spine Model-

- 1. Size: complete Spine model, standing Height 74.00cm approx.
- 2. Fully flexible mounting throughout spine. Flexibly mounted for effective demonstration on a stand
- 3. Full pelvis and occipital plate
- 4. Spinal nerve exits
- 5. Cervical vertebral artery
- 6. Durable and of good quality
- 7. Demonstration is must
- 8. Warranty of 2 years followed by CAMC of 5 years.

5. <u>Cervical Spine Anatomic Model- 1 Nos.</u>

Technical Specifications of Cervical Spine Anatomic Model-

- 1. This Model features a detailed occipital cervical vertebral column, which is mounted on a sturdy white base.
- 2. Model weighs .55 lbs. Model measures 6" H X 3" W X 4" L (without stand).
- 3. Model measures 8" H X 4" W X 5" L (including stand).
- 4. Warranty of 2 years followed by CAMC of 5 years.

Group-B

GROUP-B (Radiology)

1. <u>SPECIFICATIONS OF 80 KW HIGH FREQUENCY X-RAY MACHINE</u>

High frequency X-Ray machine suitable for general radiography & Fluoroscopy applications.

X-RAY GENERATOR:

- High Frequency X-Ray Generator having frequency of 40 KHz or more should be provided.
- Power output of generator should be of 80 KW.
- KV Range should be:
 - Radiographic KV range:40 to 150 KV in 1 KV/Step
 - Fluoroscopic KV range:40 to 120 KV in 1 KV Step.
- mA output (Rad.): 1000mA.
- mA output (Flr.): up to 3mA.
- Exposure time (Rad.): 1msec to 5 sec
- mAs output (Rad.): 1 to 200mAs.

CONTROL:

Attractive and ergonomically designed control panel with total soft touch switches for various operations. having following functions & indications.

- Machine ON/OFF switch
- Digital display of KV and mAs.
- KV and mAs increase and decrease switches.
- Ready and x-ray on switch with indicators
- Bucky selection switch.
- Stand by and exposure release switch.
- Self diagnostic program with indicators for:-
 - Earth fault error
 - KV error,
 - $\circ \quad \ \ \, Filament \ error$
 - Tube Head thermal overload.
- X-Ray on indicator.
- Incoming voltage indicator.
- Anatomical programming up to 216 pre-programmed functions in which automatic selection of Technical Factors is done according to the Body part Selection.

A 2-Step hand switch with dual action for exposure release with retractable cord is provided for taking images from a safer distance.

X-RAY TUBE:

- Two Nos. Dual focus Rotating Anode X-Ray tube thermally protected.
- Anode heat storage capacity of tube should be more than 300 KHU.
- Two Pairs of H.V. Cable with 6 meter or more length.
- Two Nos. Collimators should be provided, One Manual for overcouch and one motorized for under couch operation.

TUBE STAND:

• Floor to Ceiling Stand with Counter Balanced Tube Head (Rotatable ± 180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements is provided.

TABLE:

• All Position Motorized Table having Motorized Bucky should be provided. The table should move from

- 12degree Trendlenburg position to 90 degree vertical with Automatic stop at Horizontal, Vertical & Trendlenburg Position.

- Motorized Bucky consisting of Bucky grid of size 17 ¹/₄" x 18 7/8" ratio 8:1, 85 Lines/inch. Spot Film Device (Semi Automatic) capable of doing all routine Spot Filming (4 on 1, 2 on 1, 1 on 1) for use with 8" x 10", 10" x 12", 14" x 14" cassettes should be provided. Grid Size 15" x 15", Ratio 6:1, 103 lines per inch.
- Table Accessories like Stray radiation lead rubber flap, Stainless steel cassette tray Compression band, handgrips, Footrest & footstep should be provided.

IITV SYSTEM:

- 9" triple field Image Intensifier should be provided.
- 9" I.I mounted directly on SFD with Motorized Up/Down movement. Soft touch control panel on SFD should be provided to control fluoro KVP.
- High Resolution Compact CCD Camera should be provided. Pixels of camera should be 750(H) X 500(V) or more.
- 02 No. 17" TFT / LCD Monitor along with a trolley.

MEMORY SYSTEM should include the following features:

Digital Image Processing-IQ System consists of the following functions:-

Standard features detail

• Dedicated PC based Image acquisition software with Image storage capacity of > 10,000 Frames. PC should be of 1Tb hard disc memory, 3.5 MHz processor and 8GB RAM.

- Operating Modes
- o Fluoroscopy
- o Boost Flouro/ Cine

Pre-Processing Features

- Pulse fluoroscopy facility with Frame rate of 12fps for Fluoro & cine modes.
- Cine loops storage up to 630frames (Multiple cine Loops storage).
- Option entering for of Patient ID, Data type, operator & Location.
- Last Image Hold facility
- Frame averaging (recursive) for smoothing of images real time up to 256 frames
- Histogram view.
- 75 Temporary image storage for quick review.
- Circular blanking.

Post processing features.

- Image reversal-Left to Right & Top to Bottom
- Image rotation Clock wise & antic clock wise up to 3600 (In 150 steps)
- Window width (WW) & Window level (WL) adjustment for brightness & contrast.
- Image Zoom with pan
- Image Invert / Negative Image
- Image sharpening
- Tile/ mosaic/Thumbnail view for multiple image display i.e. 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8.

- Automatic storage of Cine loops.
- Quick Review of already stored images & Cine loops
- Frame by frame review of Cine loops
- Copy to 2nd monitor

Text & Annotation

- Addition of text markers
- Addition of pointer
- Removal option of all text from the image.

Measurements Features

- Length / Distance measurement
- Area measurement
- Angle measurement

Connectivity & storage Features

- Storage of Images on CD/DVD.
- LAN connectivity to transfer the image to another system.

POWER REQUIREMENT: The unit is operable on 3 Phase, 400Volts AC 50Hz.

Line Regulation $\pm 10\%$.

OPTIONAL ACCESSORIES : A Servo Voltage Stabilizer of suitable rating for complete Unit.

Other Requirements:

- The company should be ISO Certified.
- The unit should be approved by AERB and CE.
- Lead protection barrier in front of operating console
- Good quality floor mounting chest stand (stainless steel)
- Site Plan approval & certification from AERB.
- Online UPS for Computer system for 30 min backup.
- Uninstallation of existing machine in specified room
- Electric panel for X-ray machine

2. SPECIFICATIONS OF 30 KW HIGH FREQUENCY X-RAY MACHINE

High frequency X-Ray machine suitable for general radiography applications.

X-RAY GENERATOR:

- High Frequency X-Ray Generator having frequency of 40 KHz or more should be provided.
- Power output of generator should be 30 KW.
- Radiographic KV Range should be 40 to 125KV in 1KV per step.
- mA Output (Rad.): Up to 400mA

- Exposure time (Rad.): 1msec to 3sec
- mAs Range (Rad.): 1 to 200mAs.

CONTROL PANEL:

Attractive and ergonomically designed control panel with total soft touch switches for various operations. having following functions & indications.

- Machine ON/OFF switch
- Digital display of KV and mAs.
- KV and mAs increase and decrease switches.
- Ready and x-ray on switch with indicators
- Bucky selection switch.
- Stand by and exposure release switch.
- Self diagnostic program with indicators for:-
 - Earth fault error
 - KV error,
 - Filament error
 - Tube Head thermal overload.
 - X-Ray on indicator.
- Incoming voltage indicator.
- Anatomical programming up to 216 pre-programmed functions in which automatic selection of Technical Factors is done according to the Body part Selection.
- A 2-Step hand switch with dual action for exposure release with retractable cord is provided for taking images from a safer distance.

X-RAY TUBE:

•

- One No. Dual focus Rotating Anode X-Ray tube thermally protected.
- Anode heat storage capacity of tube should be more than 130 KHU.
- One Pair of 8 meter H.V. Cable.
- One No. Collimator with auto shut off facility should be provided.

HV TANK:

A very compact H.V. Tank filled with high dielectric transformer oil should be provided. The H.V. Tank should contain H.V. transformer, Filament Transformers, H.V. Rectifiers & H.V. Cable receptacles.

TUBE STAND:

Floor to Ceiling Stand with Counter Balanced Tube Head (Rotatable \pm 180 Degree), 360 Degree Rotatable; mounted on Floor Ceiling Rails for convenient movements should be provided.

TABLE:

5 Position Manual tilt Table:

- Hand tilt five position examination table, tilt from trendelenburg to vertical (-12, 0, 30, 60 & 90 Degree).
- It has a motorized bucky consisting of a grid having 85 lines/inch and 8:1 ratio.
- The size of the grid is $17\frac{1}{4}$ " X $18\frac{7}{8}$ ".
- It also has a stainless steel cassette tray, foot rest and grips.

POWER REQUIREMENT: The unit is operable on 3 Phase, 400Volts AC 50Hz.

Line Regulation $\pm 10\%$.

Other Requirements:

- The company should be ISO Certified.
- The unit should be approved by AERB.
- Site Plan and AERB certifications should be done by vendor.
- Two way communication system (console and machine room)
- One 6x3fit table
- Two revolving chair

TURNKEY work:

About 300sfit Floor and wall tiles. (wall tiles up to 7 fit) False roof Electricity wiring Electricity panel One Besine

Group-C

<u>GROUP-C</u> (Medical Oncology)

1. Vertical Laminar Safety Cabinet (Class II Type B) – No. 4

Technical Specification

- Direction of Flow : Vertical
- Working Size: W1800 x D 600 x H 600 mm
- Overall size: W 1900 x D750 x H 2050 mm
- System should have one HEPA filter with 99.999% efficiency for particles $> 0.3 \mu m$.
- HEPA filter should have H14 according EN 1822
- Exhaust HEPA Filter for 100 % exhaust of air from workspace
- Exhaust module of suitable capacity to discharge HEPA filtered air into the atmosphere
- Exhaust module shall be connected to the bio safety cabinet through PVC pipe duct
- System should have a prefilter for $> 0.5 \mu m$ with 85% efficiency
- Pre filter should have G4 Class according to EN779
- System should have illumination level > 800 lux
- Noise level should be < 55 dBA
- Working chamber should be made from AISI 304 stainless steel
- External and internal structure should be made from 2.00 mm electrostatically painted steel
- System should have Hour Counter up to 100.00 Hours
- System should have 0.4 m/sec. Flow velocity flow should be vertical
- System should have 2100 metre cube / hour capacity, high quantity blower with double suction.
- System should have 2 pieces covered and fuse protected

2. <u>Chemotherapy Couch / Recliners</u>

- Blood Donor Couch is a completely automatic enveloping, variable till Chair and specially designed to make blood withdrawals easier, safe and functional, and also for other diagonally and therapeutic areas.
- Variable positioning for either arm will comfortably wide arm-rests with swinging out as well as up and down moving facility
- Reclining and upright body positions with a smooth shifting to any position.
- Both sides should have supporting brockets for material required for blood collection
- Ergonomically designed comfortable chair type for donor comfort mattress should be comfortably cushioned with elegantly thick washable upholstery
- Seat, back rest and leg rest size designed for donor comfort. It should have step less electric remote controlled height adjustment
- Easily tilled to head low position, electrically operated
- Should be mobile with lockable wheels
- Comfortable working level for the operator. Lifting capacity approx 200 kg
- Certifications:
 - > Product certification: CE Class II A or USFDA certified
 - Quality Certification : ISO Certified
 - Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class - I)