

**TENDER DOCUMENT**

M/S \_\_\_\_\_

Receipt No. \_\_\_\_\_

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

**FOR  
SUPPLY OF  
BIPLANE DSA MACHINE FOR RADIOLOGY DEPARTMENT  
OF IGMC, SHIMLA**

**DUE ON 09-10-2017**

**LAST DATE  
FOR RECEIPT OF BID  
UPTO 1 PM ON 09-10-2017**

**BID OPENING ON  
09-10-2017 AT 3:00 PM**

**PRINCIPAL  
INDIRA GANDHI MEDICAL COLLEGE,  
SHIMLA**

**TEL No. 0177- 2883214, 2807682**

**COST OF TENDER DOCUMENT**

**AT COUNTER RS. 1000/-  
BY POST RS. 1050/-**

# INDIRA GANDHI MEDICAL COLLEGE, SHIMLA

Phone No.0177-2804251, 2883401, Fax. 0177-2658339, 2808011

No. HFW/ME (MCS)G(3)-(Purchase)-(Radiology)-(DSA)-

Dated:

## **TENDER NOTICE**

Properly sealed tenders are invited for the supply of **Biplane DSA Machine** for Radiology department of Indira Gandhi Medical College, Shimla so as to reach in this office on or before **09-10-2017** upto 1 PM thereafter no tender shall be entertained. The offers will be opened on same day at 3 PM in the presence of the prospective tenderers who may wish to remain present.

Tender form containing specifications, terms and conditions can be purchased from the office of the undersigned on any working day between 10 AM to 5PM upto **07-10-2017** at the cost of Rs. 1000/- on counter and Rs. 1050/- by Registered post, which is non refundable (only M.O/ TMO will be entertained sufficiently in advance to avoid the risk of late dispatch of the tender forms. Delay in submission of tender form due to late receipt of MO/TMO will be the entire responsibility of the tenderers). The tenders sent by post or courier shall be entertained only if these are actually received by the specific date and time.

The tender document can also be downloaded from the website [www.igmcshimla.org](http://www.igmcshimla.org), however, such bidder shall be required to pay the cost of the tender document in the form of DD in favour of the Principal IGMC Shimla alongwith their bid.

The tender must be accompanied with an earnest money of **Rs. 5,00,000/- ( Rupees Five Lac)** only in the shape of FDR duly pledged in the name of PRINCIPAL, INDIRA GANDHI MEDICAL COLLEGE, SHIMLA. The tenders without earnest money or short or not in form specified above will be rejected straightway.

In case any date mentioned above happens to be a holiday, the next day will be considered as due date.

**Note:** Any queries in this regard can be addressed to this office before **27-09-2017** positively.

-sd/-

**Principal  
IGMC Shimla**

**Dated:-11-09-2017**

**Endst. No. Even/-15494-500**

Copy forwarded for information and necessary action to:-

1. The Director, Information & Public Relation Department, Himachal Pradesh, Shimla-2 alongwith six spare copies for wide publicity in the leading News papers in English and Hindi.
2. The Director Medical Education & Research, Himachal Pradesh, Shimla-9.
3. The Controller of Stores, Himachal Pradesh, Shimla-1.
4. All the Members of Technical Committee.
5. Interested tenderers.
6. Notice Board.

-sd/-

**Principal  
IGMC Shimla**

**ANNEXURE- C**

**INDIRA GANDHI MEDICAL COLLEGE, SHIMLA, HIMACHAL PRADESH**

S.NO. OF TENDER : \_\_\_\_\_

FILE NO. :

Name of the party in whose :

Favour the Tender form has  
been issued \_\_\_\_\_

(SEAL OF THE OFFICER)

**To**

**The Principal,**  
Indira Gandhi Medical College  
Shimla, HP -171001

Dear Sir,

1. I am /We are hereby submit our tender for the \_\_\_\_\_
2. I/WE am/are enclosing herewith the FDR. No..... dated..... for Rs.5,00,000/- (Rupees Five Lac Only) in respect of items at Annexure-A of Tender document duly pledged in favour of the “Principal IGMC Shimla” towards EMD. (TENDERS NOT ACCOMPANIED WITH EMD/BID SECURITY ALONGWITH THE TECHNICAL 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 IGMC, in this connection including demonstration, delivery, installation and warranty and 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 & re-written and initialled.
6. Tenders are duly signed (No thumb impression should be affixed).
7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the IGMC Shimla-1.

NOTE: ALL TERMS AND CONDITIONS SUCH AS TAXES ETC, HAS BEEN INDICATED IN THE QUOTATIONS FAILING WHICH IT WILL BE PRESUMED THAT ALL THE RATES ARE INCLUSIVE OF ALL TAXES AND OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENTS.

Yours faithfully,

Signature of Tenderer(s)  
full Address

WITNESS \_\_\_\_\_

WITNESS \_\_\_\_\_

WITNESS \_\_\_\_\_

## **1. Instructions to Bidders**

- 1.1 Bids are invited, for and on behalf of Principal, IGMC Shimla from established, reputed and experienced manufacturers or their authorized dealers/representatives for the purchase of **Biplane DSA Machine** for Radiology Department as per Technical Specifications as at **Annexure-A** .
- 1.2 Bidders are requested to study the tender document and terms & conditions carefully. Submission of tender shall be deemed to have been done after careful study and examination of the tender document with full understanding of its implications.
- 1.3 The scope of work shall include Supply, Installation, Commissioning, & Satisfactory Demonstration. This will also include testing, packing, transportation, scheduling of transportation, transit insurance, delivery at sites, unloading, storage, job site storage, insurance, installation and any other services associated with the delivery of the equipment and materials providing warranty of services and operation and maintenance of other related equipment / items required for complete installation. The successful bidder will assume full responsibility of the complete system until final acceptance.
- 1.4 It will be imperative on each bidder to fully acquaint himself with all the local conditions and factors which would have any effect on the performance of the System. No request for the change of price, or time, schedule of delivery of stores shall be entertained after the purchase on account of any local condition or factor.
- 1.5 The bidders may have a survey including a site visit before furnishing the quotations. They have to apply for permission in this regard to the Principal IGMC Shimla. The Principal, IGMC Shimla will give such permission in writing, but the expenses, in connection with the visit and surveys etc., shall be borne by the bidders themselves.
- 1.6 The bidders will not form a part of the cartel and put in supporting quotations for some other company. This will debar the company for participating in other tenders floated or to be floated in by the purchaser. The authorities can compare the prices of other Bidders L2, L3 etc. also with the prices quoted in other tenders for same products and in case of discrepancy suitable action will be initiated
- 1.7 No Gratification Clause: The bidders will give an undertaking that they will not try to gratify any person or use any other unfair means involved in the purchase of the quoted equipment. This will also debar the company for participating in other tenders floated or to be floated in by the purchaser and suitable action will be initiated against such defaulters.
- 1.8 Non Blacklisting Certificate: All the bidders will give an undertaking on non judicial Stamp paper duly attested that neither they nor their principals or the manufacturers have been blacklisted by any State / Central Government Departments/other organisations.
- 1.9 The bidders shall also be required to submit the copies of PAN and income tax returns for the last three year along with the copy of TIN/GST/ copy of registration of their firms with appropriate authority
- 1.10 All the correspondences shall be addressed to the Principal, IGMC Shimla.
- 1.11 The Bid Documents are not transferable and the cost of the documents is not refundable under any circumstances.

## **2. Bid Security/Earnest Money**

- 2.1 Bid Security/EMD amount should be enclosed along with the Technical Bid for an amount of Rs.5,00,000/-(Rupees Five Lac)only in respect of items at Annexure-A in the shape of FDR duly pledged in the name of “Principal, IGMC Shimla”, failing which the tenders will be out rightly rejected. Bid Security/EMD, if already deposited against other tenders, shall not be adjusted against this tender.
- 2.2 The "Bid Security/Earnest Money ", in case of unsuccessful Bidders, shall be retained by the Purchaser, up-to a maximum period of one year from the date of opening of the Bids or till the finalization of the tender, whichever is later. The Bid security shall be refunded to the unsuccessful tenderers on their written request. No interest will be payable by the Purchaser on the Bid Security/EMD
- 2.3 The Bid Security/Earnest Money shall be forfeited ;
- a) If a Bidder withdraws his bid during the period of bid validity specified by the Bidder in the Bid; or
- b) In the case of finally selected Bidder, if the Bidder fails;
- i) to sign the Contract in accordance with Clause 13; or
- ii) to furnish Performance Guarantee in accordance with Clause 5.8 or
- iii) if, at any stage, any of the information/declaration is found false.
- 2.4 Bid security/Earnest Money in respect of the finally selected Bidder(s) will be discharged upon the Bidder(s) after executing the Contract and furnishing the Performance Guarantee, pursuant to Clause-5.8.

## **3. Bidder’s Qualification**

The "Bidder" as used in the tender document shall mean one who has signed the Bid Form. The Bidder may be either the manufacturer of the equipment/machinery/material for which prices are quoted on the Price Schedule or his duly authorized representative, in which case, he shall submit a certificate of authority as per **Annexure- B.** All necessary certificates and documents shall be furnished by the manufacturer/ representative of the firm. Manufactures/companies should authorize only one distributor for the State/for this particular tender and such specific authorization to this effect should be accompanied with tender document.

Only one bid from a manufacturer firm shall be accepted and in case the manufacturer firm itself apply in the tender process, the bid of the authorized representative shall not be considered.

## **4. Procurement and Submission of Tender Document**

- 4.1 The non-transferable Tender Document will be sold at counter on payment of tender fee of Rs.1,000/- (Rupees One Thousand only non refundable) through cash or MO/TMO or demand draft or by post Rs.1050/- by MO/TMO or Demand Draft payable at Shimla drawn in favour of the “Principal IGMC Shimla”.

**IMPORTANT:** IN CASE THE TENDER DOCUMENTS ARE DOWNLOADED FROM THE WEBSITE:-THE BIDDERS MAY DOWNLOAD THE TENDER DOCUMENTS DIRECTLY

FROM THE WEBSITE AVAILABLE AT [WWW.IGMCSHIMLA.ORG](http://WWW.IGMCSHIMLA.ORG) IN SUCH CASE, THE BIDDERS ARE REQUIRED TO SUBMIT THE TENDER COST FEE OF RS.1,000/-(NON-REFUNDABLE) BY WAY OF SEPARATE DEMAND DRAFT MENTIONING FIRMS NAME ON BACK OF BANK DRAFT DRAWN IN FAVOUR OF PRINCIPAL, INDIRA GANDHI MEDICAL COLLEGE, SHIMLA AND THE SAME SHOULD ESSENTIALLY BE ENCLOSED ALONGWITH THE TECHNICAL BID. THE BIDDERS SHOULD SPECIFICALLY SUPERSCRIBE, "DOWNLOADED FROM THE WEBSITE" ON THE TOP LEFT CORNER OF THE OUTER ENVELOPE CONTAINING TECHNICAL BID & PRICE BID SEPARATELY. IN NO CASE, THE TENDER COST FEE SHOULD BE MIXED WITH EMD AMOUNT. THE TENDERS NOT FOLLOWING THE ABOVE PROCEDURE WILL BE SUMMARILY REJECTED.

- 4.2 The non-transferable tender document can be obtained from the Office of Principal IGMC Shimla on or before **07-10-2017** on any working day from 10.00 AM to 05.00 PM.
- 4.3 The sealed bids will be accepted upto **09-10-2017** till 1.00 p.m. in the office of the Principal IGMC Shimla.
- 4.4 The Technical Bids will be opened on **09-10-2017** at 03.00 p.m. in the office of the Principal IGMC Shimla. The bidders or their authorized representatives may like to be present, if they so desire.
- 4.5 After evaluation of the Technical Bids and the technical presentation, the short listed bidders will be intimated accordingly.
- 4.6 The Financial bids of the short listed bidders will be opened in the Office of the Principal IGMC Shimla in the presence of prospective bidders/their authorized representatives, if any. (The date of opening of financial bids will be communicated to the technically successful bidders separately).

Note :- The forwarding letter as at **Annexure C** and other relevant documents as per check list duly signed should invariably be returned alongwith the quotation furnished, failing which the tender shall be rejected.

## **5. Bid Requirements**

- 5.1 The College invites two part Bids from eligible suppliers/bidders. The two part bid shall consist of Part-I Technical Bid and Part-II Financial Bid. Technical and Financial Bids for each Machinery/Equipment as detailed at **Annexure-A** should be submitted in two separate sealed envelopes superscribed "Technical Bid" and "Financial Bid" respectively. The technical bid would be opened first. The Financial bid would be opened only in the case of those bidders who qualify and meet requisite parameters for technical evaluation. Further the
  - a) Technical Bid shall comprise the following and to be submitted alongwith following documents-
    - i) Manufacturers' Authorisation Form (Annexure -B)
    - ii) Forwarding letter (Annexure-C)
    - iii) Bidders particulars (Annexure-E)
    - iv) Undertaking for supply, installation and maintenance of equipment (Annexure -F)
    - v) Earnest Money Deposit
    - vi) Proforma of Guarantee for supply of spares during the post warranty period (Annexure -G)
    - viii) Any other certificates/undertaking as per check list
  - b) Financial Bid in one cover. (Annexure-D). Separate Financial Bid shall be submitted in respect of each equipment in a separate envelope.

5.2 Bidders are required to submit all relevant documents as per check list, brochures, authority letters etc. with the technical offer of the concerned equipment and separate sealed envelope for each equipment should be submitted.

**PLEASE NOTE NO PRICE/ COST SHOULD BE INDICATED IN THE TECHNICAL BID. TENDERS SUBMITTED WITHOUT FOLLOWING THE TWO BID SYSTEM PROCEDURE WILL BE SUMMARILY REJECTED.**

5.3 Both these covers shall also contain name and address of the firms. Technical Bid cover and Financial Bid cover prepared as above are to be kept in a single sealed cover super-scribed with Tender Number.

5.4 The cover thus prepared should also indicate clearly the name and address of the Bidder.

5.5 Each copy of the tender should be a complete document and should be bound as a volume. Different copies must be bound separately.

5.6 The sealed cover as mentioned at Clause 5.3 above shall be deposited with the Principal IGMC Shimla.

5.7 The Bidder must quote for the equipment with all items and quantities as listed in Annexure-A. **The bidder is required to quote only one model of the equipment.** The bid is liable to be rejected in case more than one model is offered.

5.8 The finally selected Bidder(s) will be required to furnish Security amount for Contract Performance equal to 10% of the Contract Price, on award of Contract as per the prescribed Performa, in the shape of Bank Guarantee from any scheduled Indian Bank or FDR duly pledged in favour of the Principal, IGMC, Shimla which shall be valid till warranty period. Failure to furnish security for the performance of contract, in time, would also entail forfeiture of EMD.

5.9 Bids not accompanied by EMD and Bids from representatives without letter of Authority from the manufacturers will be summarily rejected.

5.10 Telex/Fax bids, bids received through e-mail and incomplete bids will be summarily rejected.

5.11 Bidders should enclose, alongwith the Technical Bid of their offers, the full details including proposed configuration of offers with full documentation, descriptive literature/leaflets supplementing the description and point out any special feature of their system. All documentation is required to be in English.

5.12 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be initialed by the person or persons signing the bid.

5.13 All pages of the Bid being submitted must be signed and sequentially numbered by the Bidder and a certificate may be provided on the covering letter indicating the number of pages submitted along with the bid.

5.14 All information in the offer must be in English. Information in any other language must be accompanied by its authenticated translation in English. Failure to comply with this may render the offer liable to be rejected. In the event of any discrepancy between the offer in a language other than English and its English translation, the English translation will prevail.

5.15 The bidder must give an undertaking that the offered equipments have not been supplied anywhere at a less rate than offered rate in this tender.

- 5.16 The bidder must submit the list of installation of similar nature of equipments and also submit the copy of latest supply order alongwith satisfactory performance report.

**6. Period of Validity of Bids**

Bids shall remain valid for one year from the date of opening of price bid prescribed by the Purchaser or till the completion of job, whichever is later, unless otherwise prescribed contrary in other terms and conditions of this tender document. The Purchaser may reject a bid valid for a shorter period.

**7. Purchaser's Right to accept any Bid and to reject any or all bids**

The Purchaser reserves the right to accept any bid and to annul the tender process and reject all bids at any time, without assigning any reason, prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

**8. Opening of Bids by Purchaser**

- 8.1 The bids will be opened in the presence of Bidders/representatives who choose to attend on the scheduled date and time as mentioned. The Bidders/ representatives who are present shall sign a register evidencing their attendance. The Bidder's representatives shall furnish letter of authority from their principal to attend the bid opening. However the tenders of other participating firms shall not be allowed to be handed over to them for their inspection. Financial bids of only those Bidders, whose bids are found technically suitable/qualified (after the presentation, demonstration etc., if any) will be opened. The decision of the sub-committee on technical suitability shall be final and shall not be open for discussion.

The bidders who do not qualify the technical evaluation shall be informed separately and their EMD and unopened financial bid shall be returned on their written request after award of the contract.

**9. Scrutiny of Bids**

- 9.1 The College will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required EMD has been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

The College may waive any minor infirmity, nonconformity or irregularity in a bid that does not constitute a material deviation and that does not prejudice or affect the relative ranking of any Bidder as a result of the technical and financial evaluation.

- 9.2 Prior to the detailed evaluation, the College will determine whether each Bid is acceptable qualitatively, is generally complete and is substantially responsive to the Bid Documents. For the purposes of this determination, a substantially responsive Bid is one that conforms to all the terms, conditions and specifications of the Bid Documents without material deviations, objections, conditionalities or reservations. A material deviation, objection, conditionality or reservation is one (i) that affects in any substantial way the scope, quality of performance of the Contract; (ii) that limits in any substantial way and /or is inconsistent with the Bid Documents or the college's rights or the successful Bidder's obligations under the Contract; or



(iii) whose rectification would unfairly affect the competitive position of other Bidder's who are presenting substantially responsive Bids.

9.3 Arithmetical errors, if any, will be rectified on the following basis: If there is a discrepancy between the unit price and the total unit price as declared in the Price Schedule the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the supplier does not accept the correction of the errors, its bid will be rejected.

## 10. **Price Bid**

The prices may be quoted in **INR** only. All prices mentioned should be FOR destination at IGMC Shimla. Prices shall be quoted separately for each equipment and in a separate envelope. The bidders are required to quote the following prices:

- i) Cost of core equipment including accessories as detailed in the specification with 3 years warranty .
- ii) Cost of CMC per annum for post warranty period for the number of years as detailed in the technical specification of respective equipment. If nothing has been mentioned, it should be quoted for five (5) years. CMC shall also cover accessories supplied with the main equipment.
- iii) Cost of turn key job, wherever applicable
- iv) Cost of buy-back offer, wherever applicable.
- v) Cost of consumables, wherever applicable.

The price comparison shall be made on the basis of cost of main machinery/equipment along with its accessories plus post warranty CMC period + cost of turn key job & taking into a/c the buy back offer, cost of consumables wherever applicable.

- 10.1 The bidder shall indicate the prices on prescribed PRICE BID PROFORMA at **Annexure-D** of the tender document.. The Proforma should be duly signed & sealed by their authorized signatory/ies. Financial Bids not given in Proforma will be rejected out rightly. Separate proforma shall be used for different equipments of various Departments.
- 10.2 The prices of machinery/equipment quoted by the Bidder and accepted by IGMC Shimla shall hold good till the completion of the works or satisfactory installation of Machinery/equipment and no additional claims will be admissible on account of any price variation or fluctuation in market rates.
- 10.3 Payments made consequent to any notified change in sales tax and other statutory levies (both increase and decrease) shall be to the Purchaser's account. For such claims of variation, the Bidder shall produce the Government notification as documentary evidence. Price variation due to any other cause shall be on Bidder's account.
- 10.4 The finally selected Bidder will have to apply to the proper Government Authority for grant of requisite License for such items as required and the purchaser will only tender such assistance, as considered necessary.
- 10.5 The firm has to provide the break-up of expenditure of different quoted items as well as total expenditure clearly for the whole items.

- 10.6 Excise/Custom Duty, VAT, Entry Tax and any other levy/surcharge in any shape or by whatever nomenclature may be included in the quoted amount unless it is specially mentioned separately.
- 10.7 The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected.

**11. Purchaser's Right to Vary Quantities at the time of Award**

The Purchaser reserves the right to vary the quantities and/or services.

**12. Negotiation/Award of Contract**

Prior to the expiry of the period of bid validity, the Purchaser will notify the finally selected Bidder(s) in writing by registered letter or by cable or telex or fax, to be confirmed in writing by registered letter or by Hand in person, that its bid has been accepted. If need for extension of the bid validity period arises, it should be extended by mutual agreement. Before the award of contract, the College may hold negotiations with the bidder, whose bid has been determined to be substantially responsive to the bid documents and whose offers are lowest one. The aim is to reach agreement on all points and sign a contract.

**13. Signing of Contract**

- 13.1 At the same time as the Purchaser notifies the finally selected Bidder(s) that its bid has been accepted, the finally selected Bidder(s) shall collect the supply order, agreement/ Contract proforma from the office of the Principal IGMCM Shimla.
- 13.2 Without prejudice to any legal remedy, failure of the finally selected Bidder(s) to comply with the requirement of Clause 2.3 (a) or Clause 2.3 (b) shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which event the Purchaser may make the award to the next lowest evaluated Bidder or call for fresh bids.

**14. Payment:**

Payment of machinery/equipment will be released in two instalment as under:-

- 90% after the satisfactory installation & functioning of the Machinery/Equipment in the department and receiving of certificate to that effect from the concerned department.
- 10% after 2 month's satisfactory working of the machinery/equipment and receiving of certificate to that effect from the concerned department.

Payment of Turnkey job will be released in two installments as under:-

- 50% on completion of at least half of the jobs under turnkey project
- 50% after satisfactory completion certificate from the PWD(Civil & Electrical wing) and HOD of the concerned department.

**15. Other Terms and Conditions of Tendering Firms**

- 15.1 Printed terms and conditions to the Bidder will not be considered as forming part of their Bids. In case terms and conditions of the contract applicable to this invitation of tender are not acceptable to any Bidder, he should clearly specify deviation in his Bid.

## **16. Inspection and Tests**

The Purchaser shall have the right to inspect and/or test the machinery/equipment for its conformity with the given Specifications.

- 16.1 In case any inspected or tested equipment's fail to conform to the specifications, the Purchaser may reject them and the supplier shall either replace the rejected machinery/equipment's or make all alterations necessary to meet specification requirements free of cost to the Purchaser.
- 16.2 The supplier shall provide installation and standard tests for the individual equipment before the delivery of the system at site.
- 16.3 The supplier shall test each individual equipment and the complete system after installation at site and prepare a test report. This shall be compared with the factory test report to ensure that there is no deterioration in the equipment parameters during storage, transportation and installation.
- 16.4 Leaflets and literature should invariably be attached for ready references alongwith complete documentation of all the measurements conducted during installation period which shall be submitted by the supplier for future reference.
- 16.5 The technical problems faced during installation, testing and commissioning period and their solutions shall be submitted by the supplier at the time of handing over the completed works.
- 16.6 For the purpose of taking over the equipment/system supplied pursuant to this contract, an acceptance test shall be carried out at the Purchaser/Consignees destination site. The equipment which meets the acceptance test shall only be accepted by the Purchaser.
- 16.7 (a) Acceptance Test at site shall be conducted of individual equipment and complete system to ensure that individual equipment and complete system meets the technical specifications and other operational and technical requirements of tender.  
  
(b) The Purchaser shall have the right to reject any individual equipment or complete system, if in its opinion the same does not meet technical specifications, operational or technical requirements. The decision of the purchaser in this regard shall be final.  
  
(c) The delivery, installation or commissioning shall not be deemed to have been completed unless all the equipments and systems are accepted by the purchaser.

## **18. Warranty/CMC (AFTER SALES SERVICES)**

- 18.1 The warranty charges shall be quoted alongwith the cost of main equipment on compulsory basis for three years. It shall be noted that the warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. CMC shall be applicable to the post warranty period for five years and shall be quoted on yearly basis.
- 18.2 Incremental Cost (if any) for up-gradation, if required, should form part of the contract for the Warranty and Post Warranty period.
- 18.3 The Supplier (manufacturer) shall set-up a maintenance base to provide maintenance service, of the entire system being offered, at short notice during the warranty and post warranty period. The technical maintenance personnel of the supplier, responsible for supervision and maintenance, shall be available to reach the site(s) within 48 hours' notice.
- 18.4 If the performance of any individual equipment or system is not satisfactory, the same shall be replaced by the supplier free of cost.
- 18.5 If it is found that to meet the performance criteria, any extra equipment is required the same will be provided free of cost by the supplier.

- 18.6 Any lacuna or lacunae noticed in the functioning of the installation as a result of any design feature shall be rectified by the supplier free of cost.
- 18.7 The Supplier shall fully associate the engineers and technicians of the Institute during installation, testing, commissioning, operation and maintenance period.
- 18.8 The bidder shall attach an undertaking on affidavit from the original manufacturer that the AMC/CMC INDICATING THE CMC CHARGES after warranty period shall be provided by the manufacturer OR HIS SOLE All India distributor directly on the rates and terms finalized with the bidder. The manufacturer shall be liable for the aforesaid service in case the dealership is changed/back out.

## **19. Spare Parts**

- 19.1 The Bidder will undertake that supplies of necessary maintenance equipment and spare parts will be made available for all items/equipments and for the complete system for at least twelve years on a continuing basis. An undertaking in this regard should be made available from the original manufacturer.

However, this does not relieve the supplier of any warranty obligations under the Contract.

- 19.2 The Bidder shall include in his tender, the details of essential spares, and their quantity and unit prices as per schedule of requirements.
- 19.3 In addition to the essential spares, Bidder shall indicate additional recommended quantities of spares for efficient maintenance of the equipment and the systems for a period of 9 years, after the completion of warranty period, to ensure that the quality and reliability objective is achieved. The details on which unit price and the total cost or recommended spares is based shall be included in the tender as an option. However, the cost of such recommended spares shall not be considered for tender evaluation.

## **20. Previous Installations**

- 20.1 The names and address of the institutions/hospitals where the supplier has already installed/supplied the equipment indicating the dates of installations may be given (in India and abroad). He should also attach performance certificates to indicate his prompt after sales service.
- 20.2 On site functional assessment of the similar installation and equipment of the short listed Bidders will be undertaken, if necessary, by the Committee duly constituted by the IGMC.

## **21. Delivery, Installation and Commissioning**

- 21.1 Delivery of the goods at the Institute premises shall be completed by the Supplier within 6-8 weeks from the date of Supply Order. This period could be extended on the written request of the supplier and with the mutual consent of both purchaser and supplier. However the delivery period is extendable only in peculiar circumstances.
- 21.2 The installation, testing and commissioning of the proposed system shall be completed within 8-10 weeks from the date of Supply Order, failing which necessary action as deemed fit under rules, will be taken against the defaulter.
- 21.3 In case the goods are not supplied within the prescribed/mutual agreed time period, demurrage @ 0.5% per week on the contract price subject to maximum 10% of contract price shall be charged.

**22. Site Preparation**

- 22.1 The site for installation of the equipment shall be provided by the purchaser as per the required specification and environmental conditions before the installation of System/equipment/machinery.
- 22.2 Any civil/electrical work or other related works as detailed in the technical specification shall be prepared by the supplier keeping in view the actual condition of site.

**23. Incidental Services**

- 23.1 The supplier is required to provide at free of cost to Purchaser all Hardware and Software up gradation from time to time, during warranty and CMC period.
- 23.2 Further, any bugs/shortcomings detected by the purchaser/user as well as the supplier himself shall be rectified at free of cost to purchaser even beyond warranty period

**24. Property Rights**

The Supplier shall indemnify the Purchaser against all third party claims of infringement of patent, copyright, trademark, license of industrial design rights, software piracy arising from use of the store/goods or any part thereof in the Purchaser's country.

**25. Arbitration**

Disputes, if any, shall be subjected to the sole arbitration of Principal Secretary/Secretary(Health) to the Government of Himachal Pradesh, whose decision shall be final and binding on the parties.

**26. Jurisdiction**

The courts at Shimla will have the jurisdiction for trial of any matter, dispute or reference between the parties arising out of the contract. It is specifically provided that no court outside and other than Courts at Shimla shall have jurisdiction in the matter.

**27. Force Majeure**

Any failure of omission or commission to carry out the provisions of the contract by the supplier shall not give rise to any claim by either of the party to contract, if such failure of omission or commission arises from an act of God, which shall include all acts of natural calamities such as fire, flood, earthquake, hurricane or any pestilence or from civil strikes, compliance with any statute and/or regulation of the Government, lockouts and strikes, riots, embargo or from any political or other reasons beyond the supplier's own control including war (Whether declared or not) civil war or state or insurrection, provided that notice or the occurrence of any event by either party to the other shall be given within two weeks from the date of occurrence of such an event which could be attributed to Force Majeure conditions.

**28. Termination for default**

The purchaser may without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the contract in whole or in part.

- i) If the supplier fails to deliver or install system within the time period(s) specified in the contract, OR
- ii) If the supplier fails to perform any other obligation(s) under the contract.

**29. Termination for Insolvency**

The purchaser may at any time terminate the contract by giving written notice to the supplier, without compensation to the suppliers, if the supplier becomes bankrupts or otherwise insolvent (which shall be a breach of the contract on the part of the supplier), provided such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

**30. Termination for Convenience**

The purchaser may by written notice sent to the supplier terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience.

**31. Up time guarantee:**

The firm should provide uptime guarantee of 95%.

**32. Downtime penalty Clause**

32.1 During the comprehensive warranty period, the guarantee uptime as prescribed in tender document/technical specification shall have to be ensured otherwise the penalty as specified shall be enforced. No discount shall be given on account of public holidays / Sundays. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least TWELVE YEARS after handing over the unit to the institute.

If accessories/other attachment of the system are procured from the third party, in such case the responsibility to keep the items/equipment in working condition shall be the sole responsibility of the vendor and the bidder itself will have to sign the CMC with the Institute if required.

32.2 The principals or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

**33. PRICE FALL CLAUSE**

The offer of rates by the tenderer will be subject to the price fall clause i.e. if any item is offered at a lower rate by the tenderer in any other State/Place in India to any other person/Org./Institution, he shall forthwith notify such reduction or sale to the Principal IGMC Shimla and the price payable for the Stores supplied to IGMC after the date of coming into force the such reduction or sale, shall stand correspondingly reduced even to IGMC.

**34.** The supplier shall furnish the following certificate alongwith each bill for payment for supplies made against in Rate Contract Tender.

“I/We certify that the Stores of description identical to the Stores supplied to the Government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution upto date of bill/the date of completion of supplies against all supply orders placed during the currency of the tender/rate contract at the price lower than that of prices offered to the institute UNDER THIS CONTRACT/AGAINST TENDER”.

The bidders must attach copies of their existing rate contracts, if any, with DGS&D or any other State Government/Institution.

**NOTE :- BIDDER must go through these terms and conditions very carefully and submit an undertaking alongwith his signature and stamp in token of acceptance of these terms and conditions in a separate sheet.**

**Principal**  
IGM.C, Shimla

**CHECK List duly filled in to be attached with the Technical Bid**

<b>S.N.</b>	<b>Particulars</b>	
1.	Undertaking for no gratification as per clause 1.7	Yes/No
2.	Non-blacklisting certificate as per Clause 1.8	Yes/No
3.	Authorization from original manufactures in case bid is being submitted by representative firms (Annexure-B)	Yes/No
4.	Forwarding letter (Annexure-C)	Yes/No
5.	Undertaking as per clause 5.15	Yes/No
6.	List of installations as per clause 5.16	Yes/No
7.	Undertaking on affidavit from the original manufacture as per Clause 18.8	Yes/No
8.	Undertaking for the supply of spare part as per clause 19.1	Yes/No
9.	Whether a list of institution/organizations where your firm has supplied this item recently, is attached alongwith satisfactory performance certificate from those institution/ organizations. As per clause 20	Yes/No
10.	Certificate of having satisfactory service arrangement and fully trained staff as per clause 32.2	
11.	In case you are manufacturer, have you enclosed the certificate.	Yes/No
12.	Whether the prices has been quoted on the prescribed proforma.	Yes/No
13.	Whether all the undertakings as required in the tender document are enclosed	Yes/No
14.	Whether EMD as asked has been attached.	Yes/No
15.	Whether Tender Document duly signed by the authorized signatory attached.	Yes/No
16.	Whether the technical specification of the material are attached.	Yes/No
17.	PAN and copies of Income Tax Returns for the last three years.	Yes/No
18.	Copies of TIN issued/certificate of registration.	Yes/No
19.	Undertaking for supply of spare part during the subsequent twelve years(form G)	Yes/No
20.	Any other certificate/undertaking as prescribed in the tender	Yes/No

**Authorized Signatory:**

**Name of the firm/bidder:**

**To be enclosed with Technical Bid**

ANNEXURE-B

**PROFORMA FOR AUTHORITY FROM MANUFACTURERS**

No.....

Dated.....

To,

Dear Sir,

Sub: Tender No.....

We..... an established and reputed manufacturers of ..... having factories at.....and office at M/s..... hereby authorise (Name and Address of the Authorized representative) \_\_\_\_\_ to represent us, to participate in the tender, negotiate and conclude the contract on our behalf with you against Tender no.....

No company/firm or individual other than M/s..... is authorized to represent us in regard to this business against this specific tender.

Yours faithfully,

Signature and seal  
Name.....  
For & on behalf of M/s  
.....  
(Name of Manufacturers)

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

**To be enclose with Technical Bid**



Undertaking for supply, installation and maintenance of equipment

Dated:

To,

Sir,

Having examined the Bidding Documents of Tender No. \_\_\_\_\_  
Dated \_\_\_\_\_ undersigned offer to supply, install, commission, operate and  
maintain \_\_\_\_\_ and, we undertake, if our bid is accepted, to complete delivery  
of all the items specified in the contract within \_\_\_\_\_ weeks calculated from the date of  
receipt of your Notification of Award and to complete the installation, testing commissioning with  
in..... We also undertake to ensure comprehensive maintenance and supply of  
consumables on the rates offered/negotiated (in case our bid is accepted) for the entire period of  
\_\_\_\_\_ years from the date of satisfactory installation.

Signature and Seal

.....

(In the capacity of)

Only Authorized to sign bid for and on behalf of.....

**To be enclosed with Technical Bid**

**PROFORMA OF GUARANTEE FOR SUPPLY OF SPARES DURING POST WARRANTY PERIOD**

To

Dear Sir,

In consideration of the (hereinafter referred to as "Purchaser" which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assignees) having awarded to M/s..... with its Registered/Head office at ..... (hereinafter referred to as the "Supplier" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assignees), a contract by issue of the Purchaser's letter of Award no..... dated entering into a formal contract to that effect with the Purchaser on ..... vide agreement dated..... (hereinafter referred to as the contract).

We the supplier hereby give a guarantee for the supply of all necessary spares demanded for the routine and emergency maintenance of being supplied by us to for a period of not less than \_\_\_\_\_ years after the warranty period of 3 years and life time spares thereafter in case asked for by the purchaser.

We further clarify that for the first \_\_\_\_\_ years i.e. warranty period of \_\_\_\_\_ years, we are covered by the warranty clause as mentioned. For the remaining period of \_\_\_\_\_ Years and thereafter for the life time, a detailed list of spares will be supplied to the purchaser for the purpose of enabling him to decide spares needed for routine and emergency maintenance.

Dated..... day of.....20.....

Witness :

(Name of manufacturers)  
Signature and Seal

(Signature)

Name :

For & on behalf of M/s

**PRICE BID PROFORMA**

**ANNEXURE-D**

<b>Sr. No.</b>	<b>Name of the equipment</b>	<b>Price quoted</b>
----------------	------------------------------	---------------------

1.	Cost of Core Equipment. (Manufacturer/model/ make etc be specified) including all accessories as required in the technical specification with 5 years warranty	
	Cost of Optional items, if any, not to be taken into account for determining L-1	
2.	Taxes/Duties :-	
	i) Custom Duties	
	ii) GST	
	iii) Service Tax	
	iv) Entry Tax	
	v) Others(Pl. specify)	
3.	CMC (after 5 years warranty) 1 <sup>st</sup> year 2 <sup>nd</sup> year 3 <sup>rd</sup> year 4 <sup>th</sup> year 5 <sup>th</sup> year Taxes on CMC(if any)	
4.	Turn Key Job, wherever applicable.	
5.	Buy Back offer, wherever applicable.	
6.	Net Price	

**It is certified that the cost of equipment shown above, has included all taxes/duties etc. and nothing above shall be charged over and above this cost.**

**Authorized Signatory:**

**Name of the firm/bidder:**

**To be enclosed with Technical Bid**

ANNEXURE-E

**BIDDER PARTICULARS**

Bidder Serial Number Allotted on Tender Document: \_\_\_\_\_

1. Name of the Bidder :
2. Address of the Bidder :
3. Name of the Manufacturer (s) :
4. Address(es) of the Manufacturer :
5. Name and address of the person :  
To whom all references shall be  
Made regarding this tender inquiry.

Telephone :

Telex :

Fax :

e-mail address :

Witness :

Signature

Name

Address

Date

Signature

Name

Designation

Company

Date

Company Seal

**ANNEXURE-A**

**Technical Specification for BIPLANE D.S.A to be installed in IGMC Shimla**

System must be Di-com-3 standard compatible and should be able to transfer the images on to an ordinary computer. The equipment should be of latest technology. The future software up gradations

should be provided in the offered machine, as and when launched by the company without any additional cost for a period of 5 years after handing over of the system.

The system should be cost effective, reliable and should provide excellent performance with high patient throughput besides advanced biomedical research. **All technical specifications must be supported with printed technical literature and product data sheet.** Each specification corroborated in compliance statement must give the **page number** where it is listed in the product data sheet. If the standard product datasheet is not in conformity with the bid response, clarifications should accompany in the form of letter/certificate from the competent authority/ original manufacturer, in the absence of which product datasheet will prevail for the purpose of evaluation and **decision of the technical committee shall be final and binding on the suppliers.**

The detailed specifications that follow shall be understood to be the minimum requirement and any additional feature of the equipment offered should be specified separately which has to be offered as a standard without any additional cost. Such additional features if beneficial to the department and patients for better clinical applications will be given due consideration. **Third party item's literature is mandatory.** The comprehensive offer should comprise delivery, installation, turnkey work and satisfactory performance for at least three months prior to handing over of the project to the institution.

The system should be the state of the art equipment with essential features as mentioned below.

#### **A. Gantry:**

1. The system should have two gantries: one floor mounted and one ceiling suspended providing full body coverage. The lateral plane should have motorized longitudinal C-arm movement.
2. It should be possible to pre-program the gantries for multiple examination positions.
3. All movements of the gantries should be controlled by the joystick on the table side as well as from the control room.
4. The system should have adequate collision protection for the safety of the patient.
5. Both gantries should have fast speed for angulations and positioning. The frontal system should have a speed of at least 15 degree/sec. For all positions and lateral plane should have a speed of at least 8 degree/sec.
6. Gantry angulations in both planes frontal and lateral should be freely user selectable to satisfy clinical imaging needs.
7. Both the gantries should have an automatic positioning capability dependent on the reference image being selected and possibility to select reference image depending on the gantry position. It should have auto stops in isocenter in various positions like Park position, Neuro, Cardiac or Peripheral positions.

#### **B. Patient Table:**

1. The table should have motorized longitudinal, horizontal and vertical travel. It should have full range of applications without restriction on position during CPR.
2. It should have the facility for automatic bolus chase for peripheral angiography.
3. The table should have a trendelenburg tilt facility.
4. It should be possible to lock the table in any position.
5. The table should support weight of 150 kg excluding accessories.
6. System should have foot switch for releasing fluoroscopy , acquisition and table breaks.

#### **C. X-Ray Generator:**

1. Generator should be multi-pulse/high frequency for constant output.
2. Output should be 100 KW or more.
3. Radiography KVP range should be 40 KV – 125 KV or more.
4. Output at 100 KV should be 1000 MA or more.
5. It should have automatic exposure control device for radiographic fluoroscopy and angiography mode.

6. It should have digital display of kVP & mAs.
7. Anatomical programming radiography should be possible.
8. It should have over loading protection.
9. It should have the facility for pulsed fluoroscopy at variable rates for reducing the x-ray dose to the patient during intervention procedure.

**D. X-Ray Tubes:**

1. Both planes should be provided with rotating anode high speed tubes allowing high power of heat dissipation.

The focal spot should have the following sizes:

- i) 1.2 mm or less.
  - ii) 0.5mm or less.
2. Anode heat storage capacity should be 2 MHU or more having liquid bearing technology or metal lubricant or specify the alternative cooling method available.
  3. The system should have adequate cooling facility for the x-ray tubes for uninterrupted performance during procedure for at least 6 to 8 hours continuously.

**E. Collimator:**

1. One collimator for each plane is to be provided.
2. The collimator should have facility for automatic copper pre-filtration for reducing the x-ray dose.
3. The collimator leaf should have IRIS / rectangular type arrangement.
4. The collimator should have the facility for the dose measurement chamber in order to display the skin dose on the monitors in the lab.

**F. Biplane Digital System:**

1. Dynamic flat detector system with high spatial and 14 bit contrast resolution.
2. Size of frontal plane should be at least 40 cm diagonal.
3. Size of lateral plane should be at least 40 cm diagonal
4. It should provide multiple formats/fields at least of 4 sizes.
5. Spatial resolution should be at least 3.0 LP/mm in frontal plane and 2.5 LP/mm in the lateral plane.
6. 56 inch monitor display in examination room for simultaneous display of maximum 6 images( at least live , reference, 3D rotational angio and unsubtracted image should be seen simultaneously.
7. Two 19 inch medical grade LCD/TFT monitors should also be provided in the examination room with facilities to display line /reference/ 3DRA image as and when required.
7. Similarly 4 medical grade monitors, two for each plane (live & reference image) in the control room should be provided.
  - Console Monitor for patient registration.
  - 24 inch physiology monitor in console room with the requisite computer system for BP,Pulse,Temp.,Respiratory rate, NIBP, IBP, SpO2 measurement, display and analysis.

**G. Digital Imaging System and essential softwares:**

- 1a. Road mapping facility (Real time 2D & 3D) should be available with possibility of superimposing of fluoro image on reference image. Facilities for unlimited subtracted high resolution fluoroscopy should be available.
- 1b. Bolus chase soft ware should be provided.
2. It should have the capability to acquire images in 2048x2048 matrix with a maximum speed of 6 frames or more per second on-line subtraction. Specify the maximum image acquisition rate without subtraction.
3. Post processing software facilities with real time edge enhancement, positive/negative image display windowing, electronic shuttering, roaming, image reversal, zooming and magnifying with text and annotation junctions should be available both on main cosole and work station.
4. a. Rotational angiography facility (2D & 3D) at a speed of at least 30 degree/sec. with acquisition frame rate of at least 30 frames/sec. in 1k matrix with facility for online display of subtracted images should be available. Specify if the rotational angiography is with on-line subtraction in 1024 matrix.
- 4 b. 3D Rotational data acquisition with an output of cross sectional CT like images should be possible. These CT like images should be available in control room as well as examination room monitors.

- 4 c. It should have software for acquiring data of perfusion and its post processing
5. Last image hold or reference image toggling with fluoroscopy should be available.
6. It should have minimum image storage capacity of 1,00,000 images in the 1024 x 1024/12 bit.
7. Digital subtraction angiography software of automatic pixel shift enhancement for iodine and CO<sub>2</sub> contrast should be possible.
8. A separate workstation for 3D reconstruction of the rotational angiography images should be provided. The 3D image measurement and slicing should be possible. Facility to display reconstructed images in the procedure room should be provided.
9. The complete digital system along with workstation should be networked and connected to a DICOM compatible laser camera.
10. The digital system should have software for vascular analysis and quantification including stenosis %. All measurement should be possible from the patient table side.
11. Archiving on Juke box/RAID (20TB) and 5000 CD's rewritable or 1000 DVD should be supplied with the unit along with CD/DVD recorder should be provided.
12. Separate workstation should be provided with at least (128 GB) main memory for 3D reconstruction to free the main system for continuation of procedure immediately after 3D acquisition. The 3D reconstruction should be fast and the 3D projections should be displayed both in the control room as well as the examination room. It should be possible to recall and view images acquired in the rotational mode (subtracted & unsubtracted) alongside the 3D images in both the rooms. Review of all images should be fast, interactive and user friendly in both the rooms. All options related to 3D (MIP, SSD, VRT, slicing, measurement tool, volumetry etc.) should be available. Software to fuse CT, angio & MR images of the same patient at the independent workstation is desirable. The independent workstation should be capable of the following functions:
  - i) 3D reconstruction using SSD, VRT, MIP in true 512 matrix with color display in the control room and the examination room.
  - ii) Stereoscopic display of 3D reconstructed image on the workstation should be available.
  - iii) Retrieve & review any image/any series from the system disc independent to the ongoing work on the main system.
  - iv) Retrieve & review of any image/any series from the server/PACS independent of the ongoing work on the main system.
  - v) All post processing functions for images including fusion of CT, MR and angio images with 3D display & 3D volume measurement.
  - vi) Immediate background transfer of all images as soon as they are acquired, to the Server/PACS.
  - vii) Compose & hardcopy images independent of the on going work on the main system. Split screen function to be provided to facilitate comparison of different sets of images.
  - viii) Feed live & retrieved images to additional slave monitors to be installed in DM teaching room. It should be possible to view 3D images in these remote locations.
16. Minimum 30 seconds for uninterrupted acquisition of on-line subtracted images at 2048 x 2048 matrix with maximum frame rate.

**H. Essential accessories:**

The following essential accessories to be provided with the unit:-

1. On line UPS for the complete system , accessories including both tubes to enable acquisition for both planes with 30 min.back up.
2. Two pressure injectors of reputed make along with 500 disposable syringes sets.
3. Dry Chemistry Laser Imager with resolution of 600 DPI or more. DICOM ready and online for film size of 14" X 17" . The system should also be connected to other existing cameras in the department.
4. Ceiling suspended radiation protection system and table side protection system.
5. Focused ceiling mounted light with a handle for positioning the light.
6. Ultra light weight lead gowns as per the following specifications: 16 Nos.
  - i) It should have lead equivalent of 0.5 mm.
  - ii) It should be double sided type lead apron.
  - iii) It should be light in weight.
7. Thyroid Guard in- 10 Nos.

8. Lead spectacles – 6 Nos.
9. Multichannel monitoring system (with essential accessories) for monitoring physiology. It should be able to record and print the pressures in general and also for stenosis analysis (catheter gradient). It should have a pulse oximeter module, ECG module, SpO2 module, etc.
10. Lead protected viewing glass (Size: 200cm X 100cm)
11. Anaesthesia machine as per annexure 1
12. Bi Phasic Defibrillator
13. Head support -2
14. Neuro mattresses-2
15. Set of arm supports with adjustable cath arm support.-4
16. Multiarmed drip stand mounted and adjustable on the table.-4
17. Patient straps.-4
18. ACT monitoring machine of reputed make with ACT vials-500.
19. To link video outputs from Procedure room to conference room.
20. Integrated two way communication system between control room and examination room.
21. Portable USG machine with following specifications:  
The unit should be state of the art ceiling mounted digital colour Doppler with following probes:
  - a) Convex probe 2 – 4 MHz ( $\pm$  1 MHz).
  - b) Linear array probe 4 – 10 MHz or more ( $\pm$  1 MHz).
  - c) Wide band micro convex probe 4 – 10 MHz ( $\pm$  1 MHz)(small foot print)
22. Necessary furniture, and fire extinguisher system for angio room.
23. Ten Personal dosimeters should be provided which will give real time reading of the radiation dose. There should be provision for display of time taken for interventional procedures in the operating room. The dosimeters should have wireless connectivity to the dose monitoring system for recording the dosages and archiving.

## **Annexure I: Anesthesia Equipment**

### **Technical specifications for General Anesthesia Machine**

1. The machine should have separate indexed (pin-index / DISS / NIST) provision for connecting central pipeline gas supply of oxygen, air and nitrous oxide. It should have mounting capability of two oxygen and two nitrous oxide pin-indexed gas cylinders.
2. High Pressure Tubing for Oxygen, air and Nitrous Oxide for central supply connection with pipeline connectors should be supplied with machine.
3. There should be pressure indicating gauges for each gas for both cylinder as well as pipeline supply in accordance to ISO requirements.
- 4. Gas Flow Management:**
  - a. Mechanical colour and touch coded flow-meters: precisely calibrated cascaded tube flow meters for oxygen and nitrous oxide with oxygen down the stream.
  - b. Mechanical hypoxic guard to ensure minimum concentration of 25 % oxygen, across all oxygen-nitrous oxide mixtures and oxygen failure alarm along with nitrous oxide cut-off conforming to ISO requirements.
  - c. Machine should be able to deliver maximal flows for oxygen and nitrous oxide at least up to 8 litres per minute through flow-meters.



d. Emergency oxygen flush that can deliver flows between 35 to 50 litres per minute. It should be protected from accidental activation as per ISO requirements.

### **5. Vaporisers:**

- a. Vaporiser shall mount to a Selectatec manifold of at least two vaporizers, which allows easy exchange between agents.
- b. Vaporizer must be isolated from the gas flow in the off position and prevent the simultaneous activation of more than one vaporizer.
- c. With each working station temperature, pressure and flow compensated anaesthetic agent specific vaporizers for Halothane, Isoflurane and sevoflurane should be provided. Vaporisers should be quick loading / unloading type. Docking facility for third vaporiser on machine.

### **6. Breathing system:**

- a. Closed circle system with carbon dioxide absorbent canisters should be part of machine. There should be common gas outlet for using other type of breathing systems with this machine. Breathing system shall be fully autoclavable to 134<sup>0</sup>C and natural latex free.
- b. Facility of connecting to scavenging system.

7. Anaesthesia machine should be mounted on four large antistatic castor wheels with foot brake / locking facility for at least front two wheels.

8. There should be work surface and drawers with at least one drawer with locking facility.

## **II. Specifications for Anaesthesia Ventilator:**

1. The anaesthesia machine should have integrated Anaesthesia Ventilator system that should have at least CCV , PCV and SIMV mode with adjustable breath rate, tidal volume and I:E ratio.
2. Ventilator bellows should be integrally mounted to the breathing system and ascending type. Bellows assembly should be autoclavable.
3. Anaesthesia ventilator should have following adjustable parameters: (The range mentioned below in adjustable parameters is minimal desirable and wider range than this will be preferred)
  - a. Tidal volume range 50 ml to 1200 ml.
  - b. Respiratory rate range 4 to 30 breath per minute.
  - c. I: E ratio range 1:1 to 1:3
  - d. Inspired airway pressure range 15 to 60 cm of water
4. Anaesthesia ventilator should have audiovisual alarms with temporary muting facility for power failure, breathing system disconnection, high inspiratory airway pressure.

## **III. Specifications for Anaesthesia Monitor:**

1. The anaesthesia machine should have integrated/mounted monitoring system with memory to monitor patient parameters:
  - a. Five lead ECG with arrhythmia detection facility.
  - b. Respiratory rate measurement by impedance method
  - c. SpO<sub>2</sub> measurement with plethysmograph and saturation dependent audio tone.
  - d. NIBP measurement with adult, child & infant cuffs.
  - e. Twin temperature measurement with rectal and skin probes.
  - f. It should have provision for automatic identification and measurement of anesthetic agents (Sevoflurane, isoflurane) and EtCO<sub>2</sub>, Facility to measure MAC value.
  - g. BIS monitoring
  - h. Cable management arm
  - i) Provision of two invasive pressure simultaneously with 15 disposable IBP transducers and 2 reuseable IBP cables.

j) Should be of reputed company and FDA approved.

## **WARRANTY**

- a) The equipment should have warranty for a period of 5 years from the date of handing over the fully functional unit with all accessories supplied (such as UPS, AC, pressure injector and all third party items etc) to the dept. of Radio- diagnosis, IGMC, Shimla. The vendor should take care of day to day running of UPS, AC etc.
- b) Even during the warranty period the desired up time of 95% of 365 days in a year (24 hr basis) will be ensured, no discount will be given on account of public holidays / Sundays. In case the down time exceeds the 5% limit, a penalty of Rs 25,000 (Twenty five thousand rupees) per day along with extension of the warranty period by the excess down time period will be carried out.
- c) If a particular system/subsystem (including third party items) is not working for more than three days and due to which patient work suffers, the firm will be asked to pay a penalty of Rs.10,000 (Rs. Ten thousand only) beyond seven days for each day that it is not working.

## **POST WARRANTY COMPREHENSIVE MAINTENANCE CONTRACT (CMC) FOR NEXT 5 YEARS.**

- a) The CMC should include X ray tube + labor + spares for the complete system which includes all the accessories supplied such as UPS, AC & third party items etc.(consumables included) and maintenance for another 5 yrs.
- b) The desired up time is 95% of 365 days ( 24 hrs basis ) along with penalty clause of Rs.25,000 per day in case the machine is found not to be working for reasons other than force majeure conditions, no discount will be given on account of public holidays/ Sundays. The bidder to cover the losses, if any, due to force majeure conditions, should do the insurance. The rate of post warranty CMC should be offered on yearly basis for at least 5 years, by the bidder and be offered in Indian rupees only.
- d) If a particular system/subsystem (including third party items) is not working for more than 7 days and due to which patient work suffers, the firm will be asked to pay penalty of Rs. 10,000 (Ten thousand rupees) beyond 7 days for each day that it is not working.

## **CRISIS MANAGEMENT**

If in any event, the equipment is non functional (or only partially functional which hampers the patient care services) beyond three weeks, the vendor should make alternative arrangement for an interrupted patient DSA scan at their cost and also take steps to replace the whole equipment (or in parts or necessary parts required) at the shortest possible time (less than 3 months) at vendor's cost.

## **SPECIAL TERMS AND CONDITIONS**

- a) Point wise technical compliance report supported by the technical catalogue/ specifications must be submitted in all truthfulness and shall be essence of the technical bid.

b) Technical specifications offered in the technical bids shall be verified to be in the claimed working specifications on the same quoted model working reliably in India or abroad.

c) The offered unit and its installation must confirm to AERB guidelines and certification from AERB should be provided by the supplier.

**Certifications:**

I The quoted model should be AERB approved. In case of first installation of quoted model in India, NOC from AERB for import must be submitted and the payment will only be released after AERB type approval of the quoted model is provided .

II. Offered model should be European CE and US FDA approved. Copy of certifications should be submitted with bid

**Training :**

1 On-site training of all faculty members & radiographers by application specialist for 4 weeks at time of installation and 2 weeks, after 2 months and 4 months of installation .

2 On-site training of three faculty members for 10 days at any apex institute with similar installation.

**Turnkey** will be added later when the space for installation of equipment will be available.