

Directorate of Medical Education & Research, Haryana
(DMER)

TENDER FOR SUPPLY OF

MEDICAL EQUIPMENT

AT BHAGAT PHOOL SINGH, MEDICAL COLLEGE FOR

WOMEN KHANPUR KALAN, SONEPAT

MEDICAL EQUIPMENT



NOTICE INVITING TENDERS

1. The Director of Medical Education & Research, Haryana,(DMER) Panchkula hereby invites tenders from original manufacturer/ authorized dealer for the supply and installation of the following Medical Equipment item :-

<u>Medical Equipment</u>			
Sr. No.	Name of the item	Qty Single Order	EMD
Group A--- Medicine			
1	Vital Sign Patient Monitor: (Multiparameter Monitor)	8	1.1 lacs
2	Defibrillator Monitor/ Recorder	10	1 lacs 20 thousand
3	Multi Channel ECG Machine	4	16 thousand
4	Random Access Auto Analyzer	1	40 thousand
Group B ----- OT			
1	Hydraulic operation table with all standard accessories	2	40 thousand
2	Electro Surgical Cautery	3	18 thousand
3	Mobile C-Arm With Image `Intensifier Unit	3	48 thousand
4	OT Light with LED Technology	3	
Group C----- Radiology			
1	800 ma High Frequency X-Ray Unit with Image Intensifier	1	1.40 lacs
2	500 mA High Frequency X-Ray Unit	3	2 lacs
3.	Whole Body color Doppler System	3	2 lacs
4.	High Frequency Mobile X-Ray Unit	3	30 thousand
5	Whole Body Multi Slice (16 Slice) Ct Scanner	1	2.00 lacs
Group D----- Anaesthesia			
1	Anaesthesia machine	10	2 lacs
2	Patient monitoring system	10	2 lacs

3	ICU Monitor	3	60000
4	Bed Side Cardiac Monitors	12	96000
5	Neonatal Ventilator	2	20000

2. The tender document containing specifications and other terms and conditions applicable for procurement of the above items can be downloaded from the website: www.haryanahealth.nic.in

3. The tenderer has to submit alongwith his tender, a bank draft in favour Director, Medical Education & Research, Haryana, Panchkula for Rs. 1000/- towards tender document cost with technical bid. Tenders not accompanied by the tender document cost and EMD prescribed in the tender document for each group will be **straightaway rejected**.

4. The schedule of major activities in this regard is as under :-

Particulars of tender	Last Date for tender submission	Tender opening & technical evaluation	Venue for Tender
Medical Equipment tender	5.04.2011 12:00 noon	5.04.2011 at 2.00 PM	Director, Medical Education & Research, Haryana, Panchkula

5. All interested bidders are advised to attend the tender opening as per the above schedule.

6. **All requisite documents must be attached with the bid. No further opportunity will be given for submitting any document after the opening of bid and bids will be evaluated on the basis of documents submitted along with the bid.**

7. In case the tender opening day is declared a holiday for Haryana Government offices then the next working day will be treated as receipt and opening day with the time and venue unchanged.

8. The chairperson, Director, Medical Education & Research, Haryana, Panchkula reserves the right to accept or reject any or all the bid(s) without assigning any reason.

CHAIR PERSON

**DIRECTOR, MEDICAL EDUCATION &
RESEARCH, HARYANA, PANCHKULA**

**TENDER FOR SUPPLY OF MEDICAL EQUIPMENT AT BHAGAT PHOOL
SINGH, COLLEGE FOR WOMEN KHANPUR KALAN, SONEPAT**

<i>Bid Ref. No.</i>	
Last date of submission of bids for Medical Equipment	5.04.2011 upto 12.00 Noon :
Date of Opening of Bids	: 5.04.2011 at 2.00 PM
Place of opening of Bids	: Director, Medical Education & Research, Haryana, Panchkula
Address for Communication	: Director, Medical Education & Research, Haryana, Panchkula, Bays No. 55-58, Paryatan Bhawan, 2 nd Floor, Sec-2, Panchkula, Ph: 0172-2560799, Fax: 0172- 2566556, Email: dmer-hry@nic.in

DIRECTOR, MEDICAL EDUCATION & RESEARCH, HARYANA,
PANCHKULA

TENDERS FOR SUPPLY OF MEDICAL EQUIPMENT AT BPS MEDICAL COLLEGE FOR
WOMEN KHANPUR KALAN, SONEPAT

Sealed Technical bids and Price bid shall be submitted in one sealed envelope (Technical bid and Price bid) and will be received till 12:00noon, 5.04.2011(for MEDICAL EQUIPMENT TENDER). Tender fee and EMD must be submitted on in technical bid. DD must be payable at Panchkula.

TENDER FORM

Directorate Medical Education & Research, Haryana, Panchkula

INSTRUCTIONS TO TENDERERS

1. Sealed Bids in two separate covers (Technical bid and Price bid) in duplicate addressed to the Director, Medical Education and Research, Haryana, Panchkula (DMER) by designation and not by name. The bids must be superscribed as “Cover A” Tender for supply of Medical Equipment at BPS Medical College for women at Khanpur Kalan, Sonapat due on 5.04.2011 and as “Cover B” (Price Bid) Tender for supply of Medical Equipment at BPS Medical College for women at Khanpur Kalan, Sonapat due on 5.04.2011 for each group separately (as called for in tender notice). The Bids must reach in the office of Director before the last date and time mentioned in the tender notice.
2. In the event of bids being submitted by a firm, it must be signed separately by each member thereof or in the event of the absence of any partner it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, or in the case of company the bids should be executed in the manner laid down in the said Company’s Articles of Association. The signatures on the bids should be deemed to be authorized signatures.
3. All the columns of the Tender Form shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. Bidding Prices shall always be both in the figures and words. The words “No bid” should be written across any or all the items in the schedule for which a tenderer does not wish to tender”.
4. Any Omission in filling the columns of “Units” and “Rates” shall together debar a bid from being considered.
5. All corrections must be signed by the tenderers.
6. Samples, if required, must be sent of all items quoted for even when specification or descriptions are laid down. Such samples must be sent freight paid or delivered free to the Directorate of Supplies & Disposals, Haryana. Each sample should bear a sealed label marked with the tender’s name and address and reference to the items \number in the schedule . All instructions rewarding the samples specified in the notice should be complied with. All samples except these against accepted quotations must be removed by the suppliers on a date to be specified by the Directorate of Supplies & Disposals, Haryana, failing which the samples will become the property of Government and no claim therefore, will be considered. Loss of samples or damage or wear and tear or injury by testing exposure, experiment, etc. shall be no ground for compensation in any form.
7. The tenderers shall deposit earnest money as mentioned against each item, in the form of call deposit receipt pledged to Director, Medical Education & Research Haryana Panchkula. The earnest money must accompany the tender form without which the offer will not be considered. The said amount will be regarded as forfeitable to Director, Medical Education & Research if the successful tenderer fail to supply the goods within the time fixed by the DMER.

8. The successful tenderers shall be required to deposit performance security of the contract @ rate of 10% of the cost of each item, in the form of Call Deposit Receipt pledged to the DMER. The earnest money shall be adjustable towards security. This would be kept upto period of warranty.
9. The DMER will have the right to reject all or any of the bid without assigning reasons.
10. No tender will be considered unless and until all the documents are properly signed on each page.
11. Each page of the tender must be numbered serially.
12. The bids will be regarded as constituting an offer or offers open to acceptance in whole or in part at the discretion of DMER.
13. In the event of tender being accepted, the bids will be converted into contract, which will be governed by the conditions in pages 3 to 11 read with these instructions.

Read and accepted.

Signature of the Tenderer

I/we hereby quote to supply the goods and materials specified in the under written schedule in the manner in which and within the time specified as set forth in the supply order at the rates given in Schedule below. The conditions on page 3 to 10 will be binding upon me/us in the event of the acceptance of my/our tender. I/we herewith enclose deposit receipt for a sum of Rs.....as security money and should I/we fail to execute an agreement embodying the said conditions and deposit security as laid down in the form within 10 days of the acceptance my/our tender. I/we hereby agree that the above sum of security money shall be forfeited by the DMER.

SCHEDULE 'A' OF RATES

1	2	3		4		5	6	7
Sr.	General description No.	ISI Specification No	Tender Rate	Unit	VAT, CST etc. if any	Packing & forwarding	Name of actual manufacturer and country of manufacturer	Remarks

E.& O.E.

All rates are for delivery F.O.R....BPS Medical College for Women, Khapur Kalan, Sonapat

Date the.....Day of

Signature.....

Address.....

N.B : Please do not forget to fill in the all the above columns.

SCHEDULE 'B'

Conditions of Contract

- This contract is to last from.....To.....but in the event of any breach of the agreement at any time on the part of the supplier the same may be terminated summarily by the Director, Medical Education & Research, Haryana Panchkula without compensation to the Supplier.
 - Any change in the constitution of the firm shall be notified forthwith by the supplier in writing to the DMER and such change shall not relieve any former member of the firm from any liability under the contract.

No new partner/partners shall be accepted in to the firm by the supplier in respect of this supply unless he/they agree to abide by all its items, conditions and deposit with the officer sanctioning the supply a written agreement to this effect.

The supplier's receipt or acknowledgement or that of any partners subsequently accepted above shall bind of all of them and will be a sufficient discharge for any of the purposes of the contract.
- The supplier will supply nothing but genuine articles described in column 2 of schedule 'A' from time to time in such quantities as may be entered in the indents sent at the rates set forth in column 3 of schedule "A" for use in the institution.
- The articles to be supplied under this contract will be of the quality which is equal and answerable in every respect to the specifications given in the list accompanying the tender approved by DMER. The supplier shall be responsible for all complaints as regards the quality. In case of dispute regarding quality for articles, the decision of the DMER will be final and binding on the supplier. It will be open to the DMER to send samples submitted by the tenderer/supplier to any laboratory for chemical analysis and the cost thereof will be borne by the tenderer/supplier.

4. The supplier will be responsible for damage or loss in transit and replace goods broken or lost within 14 days from the notice thereof.
5. Unless when specially ordered otherwise in the order accompanying the indent all goods must be supplied within 4 to 6 weeks for the receipt of indent by the supplier. In case of imported items, the delivery period shall be 90 days after opening the confirmed letter of credit
6. Condition as to time for performance whether laid down in the supply order or in any indent shall be always regarded as the essence of the contract.
7. The DMER or any other officer of person duly authorized in writing by the DMER shall have the power to inspect the stores, before during or after manufacture, collection, dispatch, transits or arrival & to reject the same or any part or portion after the written approval of the DMER, Haryana, if he or they be not satisfied that the same is equal or according to the sample submitted by the supplier, the supplier shall not charge or be paid for supplies rejected as above and such supplies shall be removed by the supplier at once and at his expense. He shall neither claim nor be entitled to payment for any damage that rejected supplies may suffer from any harm whatsoever incidental to a full and proper examination and test of such supplies. Government shall be under no liability whatever for rejected supplies and the same will be at the supplier's risk. Rejected supplies shall be removed by the supplier within 14 days after notice has been issued to him so such rejection, and failing such removal rejected goods will be at supplier's risk and the DMER/Medical Superintendent of BPS, Medical College for Women, Khanpur Kalan, Sonapat, may charge the contract rent for the space occupied by such rejected goods.
8. The supplier shall provide without any extra charge all materials, tools labor and assistance of every kind which the aforesaid officer may consider necessary for any test or examination which he may require to be made on the supplier's premises and shall pay all cost attendant thereon. In the case of stores inspected at maker's premises the maker shall provide all facilities including testing appliances, for making necessary tests other than special tests or independent tests Failing the facilities at his own premises for making the tests the supplier shall bear the cost of carrying out tests elsewhere. The supplier shall also provide and deliver free of charge at such place as the aforesaid officer may direct such materials as he may require for tests by chemical analysis or independent testing machine. If for the purpose of determining the quality of stores the aforesaid officer finds it necessary to have the stores tested at the test house or laboratory, expenses incidental to the test shall be borne by the supplier. On the failure of the supplier to pay the expenses within the ten days of the receipt of intimation in this behalf; from the Inspecting Officer, the DMER, shall have the right to deduct the amount from the security deposited by the supplier and if the amount so deducted is not deposited within 10 days, the DMER, Haryana, may treat the default as a breach of the agreement and proceed under clause (1) of the agreement without further notice. Further, the aforesaid office shall have the right to put all articles or material to such tests as he may think proper for the purpose of ascertaining whether the same are in accordance with the specifications of sealed sample mentioned in the tender and to cut out or off/or destroy the portion, not exceeding 2 per cent from each delivery for such purpose, the quantity so cut out or off and/or destroyed as aforesaid shall be replaced by the supplier free of charge.

9. Packing cases, containers, gunny packages etc. which may be used for purposes of packing etc. which are delivered with stores will not be returned or paid for unless specially stipulated and then also at supplier's expense.
10. Unless otherwise specified in a requisition, bills for the whole of the goods referred to in each indent in triplicate, will be prepared and submitted by the supplier to the consignee for direct payment under intimation to the DMER, Haryana. The full amount will be paid on receipt of stores in good condition after satisfactory installation if required, and inspection by the committee constituted. However, Performance Bank Guarantee will be kept upto warranty.
- a) With every dispatch of goods or materials, under this contract, invoices in triplicate will be prepared by the supplier to be sent to the DMER & one copy will be returned with the quantities or number received duly noted thereon.
11. With every dispatch of goods or material under this contract the supplier will prepare invoices, in triplicate. Invoices, in duplicate, are to be sent by the supplier to the Indenting Officer, the duplicate to be returned by the Indenting Officer with the quantities or number received duly noted thereon and third copy to be sent by the supplier to the DMER, Haryana, for record in his office.
- (ii) Railway Receipt will be forwarded to the consignee immediately after dispatch of stores should any demurrage charges be incurred owing to delay on the part of the supplier in forwarding the railway receipt the amount of such charges will be deducted from the bill.
- (iii) The supplier shall dispatch material 'Freight paid' in all cases where their offer is F.O.R. destination. In the event of their failure to do so a penalty of 5 per cent will be charged on the amount paid as freight by the Indenting Officer on their behalf.
- (iv) The supplier will send to the DMER, Haryana, quarterly statement of the goods supplied under this arrangement in the following form.

Name of the officer	Indent No	Name of Articles	Quantity of number supplied and to whom supplied and where	Value of supplies in rupees Remarks
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- (v) All dispatches by rail will be made at Railway risk at the expense of the Indenture (except by firm who have quoted rates F.O.R. any place in the Haryana unless the indenture gives instructions to dispatch at owner's risk in which case all responsibility for loss in transit will be with the indenture.

This is subject to the condition that the materials are securely packed by the suppliers in sound containers and the consignment is accepted by the carriers without any adverse remarks as to the packing or the condition of the containers. In case of any adverse remark, the responsibility for the losses in transit will rest with the suppliers.

Subject to these conditions the supplier will not be entitled to charge or be paid for supplies broken, lost or damaged in transit. The DMER, Haryana, will be the authority to determine whether or not the breakage, loss or damage was caused through the Supplier's negligence and the decision of the DMER, Haryana, or some other officer acting in his behalf shall be a final and conclusive against the contract. Such rejected supplies shall be removed by the supplier at his own expense.

- (vi) If during the currency of the contract the specification of any article or articles to be supplied there under be changed the supplier shall continue to comply with demands for the supply of the said article or articles in accordance with the new specifications at a rate to be mutually agreed to in writing at the time of such change and in default of such agreement, the contract in so far as it relates to the said article or articles under respect of which no agreement has been arrived at, shall terminate but no such change shall affect the supply of any other articles under the contract or entitle the supplier to any compensation
12. In the event of withdrawal or discontinuance of any article or articles and consequent ceasing of or reduction in demand the supplier shall not be entitled to any compensation. Government will, however, make all reasonable endeavors to give a warning of any impending complete withdrawal or of any reduction seriously affecting quantities likely to be required under contract.
13. The time for and date of delivery or dispatch stipulated in the supply order shall be deemed to be the essence of the contract, and should the supplier fail to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch stipulated in the supply order, the delayed consignment will be subject to 2% penalty per consignment per month recoverable on the value of the stores supplied. In case of non-payment of the supplier, recovery will be made from his bills or amount of earnest money or security deposited with DMER, Haryana, provided also that:-
- (a) No recovery of penalty will be made if the Indenting Officer accepts the delayed supplies by extending the delivery period up to 2 weeks by recording in writing that the exceptional circumstances were beyond the control of the suppliers and there was no loss to Govt.
- (b) On the failure of the suppliers to make supply within the extended period or otherwise and the receipt of such information in the office of the Director Medical Education & Research, Haryana Panchkula risk purchase at the cost of supplier will be made by the DMER, Haryana, within 6 months of the expiry of stipulated delivery period by inviting short terms quotations from the Registered and other known suppliers. The difference of excess cost thus incurred will be recovered from the supplier form his pending bills, earnest money or security whichever is available. This procedure will be adopted after serving a registered notice to the supplier to supply stores within 30 days.
14. The supplier acknowledges that he has made himself fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses conditions, specifications and other details of the contract and the supplier shall not plead ignorance of any of those as excuses in case of complaint against or on rejection of supplies tendered by him or with a view either to

asking for enhancement of any rates agreed to in the contract or to evading any of his obligations under the contract.

15. No payment will be made in advance for any supplies under this contract.

16. (i) The supplier shall not—

(a) Assign or sublet the contract without written approval of the officer sanctioning the contract.

(b) disclose details of the conditions governing this contract to unauthorized persons (Indenting against this contract is permissible only for the bonfire use of Governments departments and quasi public and not for private parties or for the private use of the Government Officers).

(ii) In the event of the supplier failing, dully and properly to fulfill or committing breach of any of the terms and conditions of this contract or repeatedly supplying goods liable to rejection hereunder or failing, declining, neglecting/or delaying to comply with any demand or requisition or otherwise not executing the same in accordance with the terms of this contract, or if the supplier or his agents or servants being guilty of fraud in respect of the contract or any other contract entered into by the supplier or any of his partners or representatives thereof with Government directing giving promising or offering any bribes, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise to any person in the employment of Government in any way relating to such officers or become insolvent or apply for relief as insolvent debtor or commence any insolvency proceedings or make any composition with his/their creditors or attempts to do so then without prejudice to Government rights and remedies otherwise, Government shall be entitled to terminate this contract forthwith and to blacklist the supplier and purchase or procure or arrange from Governments' stocks or otherwise at the supplier's risk and at the absolute discretion of the Director Medical Education & Research, Haryana Panchkula Haryana, as regards the manner, place or time of such purchase, such supplies as have not been supplied or have been rejected under this agreement or are required subsequently by Government there under and in cases where issues in replacement are made from Government's stocks or supplies, the cost of value of stocks or supplies together with all incidental charges or expenses, shall be recoverable from the supplier on demand and the supplier shall not be entitled to benefit from any profit which may thus accrue to Government.

The termination of this contract in whole or part under these conditions shall not be affected by the acceptance, meanwhile or subsequently, of supplies accepted or made at any station whether in ignorance of the termination or otherwise.

If any question difference or objection whatsoever shall arise in any way connected with or arising out of this instrument or the meaning or operation of any part thereof or the rights duties, or liabilities of either party then save in so far as the decision of any such matter is herein before provided for and has been so decided every such matter including whether its decision has been otherwise provided for and/ or whether it has finally decided accordingly or whether the contract should be terminated or has been rightly terminated in whole or part and as regards the rights and obligations of the parties as the result of such

termination shall be referred for arbitration to any officer appointed by Haryana Government acting as such at the time of reference and his decision shall be final & binding.& where the matter involves a claim the amount if any awarded in such arbitration shall be recoverable in respect of the matter so referred.

- (a) The Arbitrator and his subordinate staff shall be paid a fee of RS. 100/- per hearing subject to a maximum of RS. 500/- in each case provided that out of this amount 20% will be payable to his staff. The arbitration fee will be borne equally by Govt. and by the party concerned. The parties, other than the Govt. shall deposit their share in shape of call Deposit receipt in favour of Director Medical Education & Research, Haryana Panchkula before the announcement of award by the Arbitrator. In case the arbitration proceedings are conducted expert and the award is announced against the Govt. then entire amount shall be payable be the DMER, Haryana but where the export award is announced in favour of the Govt. the share of the opposite party shall from part of the claim and shall be recoverable from the said party.

19. If the price of a contracted article is controlled by Government, the payment will no case be made at a higher rate than controlled rate.

IN WITNESS THEREOF the parties have hereunto set their hands on the cases indicated below :

1. (In the case of a firm)

Signed by the above –named firm of -----
----- through -----
----- partner of the firm.

Date -----

Signature

2. (In the case of a company)

The seal of the -----Company Limited, was affixed by virtue of the resolution of the Board No. -----

dated ----- the ----- day of -----
----- 200 -----

Seal

Dated		
		Director's Signature
	(In either case)	Secretary'sSignature

In the presence of (i)		(i) Signature Address Description (ii) SignatureAddress Description.
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Signed by -----

Signature of -----

Dated -----

on behalf of the Governor of Haryana.

ANNEXURE 'A'
CONDITIONS WITH TENDER FORM

1. Trade discount should be quoted separately.
2. Offer with price variation clause will not be accepted.
3. Sales Tax, Inter State Tax or any other chargeable excise duty/ custom duty/ VAT/ CST/ MODVAT must be specifically mentioned separately, otherwise offer will be considered inclusive of all such taxes.
4. Any tender which is not on the proper tender form and received late will not be considered.
5. No offer will be considered unless accompanied by prescribed Earnest Money.
6. The conditions of contract (Schedule 'B') attached to the tender form be returned duly signed along with the schedule 'A' and in case of non compliance the tender may be ignored.
7. Tenders which are not strictly according to the specifications laid down in the schedule 'A' will not be considered, Unless a deviation from the specification / delivery period given in schedule "a" is pointed out by the tenders specifically, it will be presumed that offer conforms to the specifications, delivery period as laid down in the schedule 'A'.
8. (a) Tender must be supported by a sample where asked for, failing which it will not be considered.

(b) The tenderer should clearly state that the sample submitted conforms to the specifications laid down in the schedule 'A' failing which tender will not be considered.

(c) In case the date of opening falls on Holiday gazetted or subsequently declared, the tender will be opened on the next working day following the closed day.
9. Prices should be for supply of the material in same condition F.O.R. destination, failing which offer may be ignored.
10. The Director Medical Education & Research, Haryana Panchkula does not bind himself to accept the lowest tender and reserves to himself the reject any or all tenders without assigning any reasons.
11. All disputes will be settled within the jurisdiction of the head quarters of Director Medical Education & Research, Haryana Panchkula
12. The quotations will be regarded as constituting an offer or offers open to acceptance in

- whole or in part or parts till the as indicated in the schedule 'A'.
13. The bidder firm should not have been blacklisted/ debarred by any State Govt. Organization or Central Govt. Organization. The bidder should also submit an affidavit that the bidder has not been blacklisted/ debarred by any state Govt./ Central Govt. Organization
 14. The offers should be typed or written in ink only.
 15. The firm registered under quality marking scheme in Haryana state should furnish attested copies of their registration certificate for the tendered goods in support of their registration for such goods.
 16. The samples / test report wherever required shall be submitted by the date and time fixed for the receipt of the tender. Samples received after fixed time and date may be ignored. This condition will also be applicable to outside tenders.
 17. The registration certificates of which attested copies are attached with quotations should be certified by the tenders to be valid on the day of opening of tenders. An undertaking should also be given by the tenders to the effect that if validity of the registration certification expired after the day of opening of the tenders due to closing of the factories or some after factors, they shall report the fact to this office immediately.
 18. In case where the tenders offers machinery and equipment for which License is required under the industries (Development and Regulation) Act 1956, it would be certified by him that he is in possession of such valid license on the date of opening of the tenders under the afro said . Act for the manufacture of machinery and equipment so offered if he is a manufacturer and he is not a manufacture it should be carried that he is an authorized representative of licensed manufacturer quoting the name and address of such licensed holder and the license number.
 19. The tenderer will give complete addresses of its sister concerns along with names of with their complete address (es) and extent of share.
 20. It should also be ensured that tender / Quotation has been signed by an authorized person. His name, Designation and address should be given in capital letters

DIRECTOR, MEDICAL EDUCATION & RESEARCH, HARYANA

AFFIDAVIT

I-----
---Son of Sh-----resident of -----
----- so here by Solemnly affirm and declare as under :-

(i) That this is to certify that M/s -----
-is our authorized dealer / dealer / distributor/ agent and he is authority to our submit tender / quote
the rates in the state of Haryana, against tender enquiry No. -----due On -----
-----and to supply the material in original manufactured by us.

(ii) That we shall have full responsibility of satisfactory supplies against the supply order/ rate
Contract if dealer/ distributor/ agent against the above-mentioned tender inquiry.

(iii) That I am fully authority to give this affidavit on behalf of M/s-----
and the power of attorney has been executed in my favour (Attested copy enclosed).

(iv) That of at my stage a dispute arises between dealer/ distributor/agent and our manufacturing
firm, we will be resondible to arrange supply on the terms and conditions of supply order/ rate
contract.

(v) That is case the dealer/ distributor/ agent fails to supply the goods as per supply order of the
contract we, the manufacture takes the responsibility of the supply and will abide by the terms and
conditions of contract, signed by the dealer/ distributor / agent.

DEPONENT

Verification :

Verified that the contents of the above affidavit of mine are true and correct to the best of my
knowledge and nothing has been concealed therein.

GENERAL INSTRUCTIONS OF TENDER NOTICE

1. Please quote the name of the manufacturer and also mention. Trade/Brand name of your products.
2. Please quote your rates only if you are manufacturer/authorized distributor/dealer of item to be quoted by you.
3. Certificate from original manufacturer to this effect may be attached that the “Rates charged by you are not higher than the rates being charged from any other Government/Semi Government/Autonomous bodies DGS&D, New Delhi.”
4. Tenders received late will not be considered.
5. Rates quoted should be F.O.R. BPS Medical College for Women Khanpur Kalan, Sonapat.
6. Earnest money of each group as mentioned against each item in the shape of Call Deposit Receipt/FDR with validity of minimum two years drawn on any Scheduled Bank/Nationalized Bank duly pledged in favour of DMER, Haryana Panchkula (Demand Draft and Banker’s Cheque will not be accepted)
7. Tenders not accompanied with requisite earnest money and tender fee will be rejected.
8. Earnest money already deposited against any previous tender will not be considered.
9. Quantity can be increased/decreased or complete withdrawal.
10. All cutting/over-writing in the tender should be attested by the tender with his signature.
11. Literature/Catalogue for all the quoted items/equipments should be attached with the tender.
12. The successful tenderer shall be required to deposit security @10% of the value of goods in the form of call deposit Receipt pledged in favour of DMER Haryana Panchkula, valid for a period of two years or more from the date of expiry of the stipulated period.
13. Cost of installation and commissioning charges, if any, may be mentioned. The firm should also mention whether any infrastructural facilities are required for installation of their equipment e.g. Water, 3 phase electricity, AC or any P.W.D. work etc.
14. The firm should give year wise rates of Annual Maintenance Contract/ Comprehensive maintenance contract for equipments costing more than Rs.50,000/- and should agree to provide such maintenance for five year after expiry of Guarantee period.
15. The firm should give rates of spares/consumable which are likely to be used during next five years.
16. The firm should submit a latest authority letter from the original manufacturer of equipment. Authority letter older than one year will not be considered.

17. For Medical equipment the firm should submit a list of user organizations and should submit a certificate of satisfactory performance and after sales service from such organizations.
18. Delivery period: Tenderer should quote earliest delivery period but not; exceeding 4-6 weeks. However, in case of imported items, the delivery period shall be 90 days from the date of opening of confirmed letter of credit.
19. For imported equipments the firm should quote rates in foreign currency as well as an equivalent in Indian Rupees and should agree to take payment 80% against dispatch duly supported by third party inspection and 20% payment after satisfactory installation and demonstration of work of machine. NMI certificate and CDEC will be provided. Rates quoted should be F.O.R, BPS Medical College for Women Khanpur Kalan, Sonapat and custom clearance will be got done by the firm.
20. Training, if any required, shall be provided by the firm, free of cost in India or Abroad.
21. Conditional tenders will not be accepted and rates quoted should valid upto 180 days from the date of opening of Tender. Withdrawal of rate, amendments/modifications during the validity period of rates shall be considered as unbusiness like behaviour which will result in forfeiture of earnest money and/or penal actions such debarring of firm for further business.

Note: If these conditions are not fulfilled their/your tender is likely to be ignored.

DETAILED SPECIFICATIONS

GROUP A----- MEDICINE

1. VITAL SIGN MONITOR (MULTIPARAMETER MONITOR)

QUANTITY--8

SPECIFICATIONS:

1. Patient monitor should be light weight for ease of mobility but provision for installation also.
2. Patient monitor should have battery back up of more than 4 hrs.
3. Patient Monitor should have user friendly singly level menu for operational ease.
4. Patient monitor should have at least 10 inch color display.
5. Patient monitor should have capability of displaying 5 waveforms.
6. Patient monitor should be capable to monitor the following parameters.
 - A. 5 LEAD ECG with ST, T Analysis.
 - B. Respiration
 - C. NIBP measurement with small, medium & large sized cuffs.
 - D. SPO2 measurement with plethysmograph (with adult, paediatric and neonatal probes)
 - E. Provision to measure temperature.
 - F. With ETCO2 (0 to 80 mm Hg)
7. Should work on 220-250 V with audiovisual alarms for high and low settings.
8. Patient monitor should have at least 100 hrs of graphical and numerical trends.
9. Capable of connect to the Central Nursing Station.
10. Should be supplied with necessary accessories for adult, paediatric and neonatal accessories to last for warranty period.
11. should have CE, ISO, BSO certifications.
12. WARRANTY PERIOD: 02 Years.
13. CMC: 05 years after warranty

STANDARD ACCESSORIES:

--ECG Lead with Trunk Cable.	02 Nos.
--NBP Hose	02 Nos.
--NBP Cuff (Adult, Paed.&Neonatal)	05 Nos. each
--SPO2 Probe (Adult, Paed.&Neonatal)	05 Nos. each
--Temperature Probe	02 Nos.
--ET CO2 Cable with Sensor	01 No.

The firm shall supply the spares for a period of ten years.

2. DEFIBRILLATOR / MONITOR/ RECORDER:

QUANTITY—10

Delibrillator	
Energy Selection	05-200 J (Biphasic type)
Charge time	10 sec. Maximum
Battery Capacity & type	3 Hr. Continuous monitoring Lithium or lead-Acid type rechargeable
Charge Indicator	Light/Tone and digital display of charge
Synchronizer Indicator	Light or specific sign display
Defib. Control	On the paddles and/ or main equipment
AED & Pacing	To be provided
Monitor	
Display	Nonfade type TFT display 5"x4" minimum
Sweep Speed	25 mm/ sec
Heart Rate	Display and limits for alm 30-250 bpm
ECG lead Display	I,II, III, AVR, AVL, AVF, V or minimum of 3 Leads and Paddles
ECG Sensitivity	0.25-2 mV (2.5 mm – 20 mm)
Alarms	For HR, Arrythmia
Recorder	
Type	Thermal Array
Recording speed	25 mm/sec
Annotation	Date, time ECG lead, heart rate, Defib Parameters, memory if any.
Paper	Chemically coated 45/50 mm roll of 20/30 M
SPO2	Finger pathysmography through finger sensor safety specifications confirming to Nellcore/Mashimo
NIBP	Should have facility for NIBP

NOTE:

1. The equipment should operate independently on mains (220-240 V) as well as batteries. it should be rugged, light, handy and portable with a mains voltage stabilizer/ power pack. Minimum battery life should be 2 years.
2. The defibrillation facility of both Hard Disc as well as Soft Flexible pads should be available.

3. Preventive-Maintenance Annual service contract or comprehensive maintenance contract for 5 years beyond warranty period (2 yrs.) must be included in the invoice with details of terms and conditions of repair and payments.

3. MULTI CHANNEL ECG MACHINE:

QUANTITY---4

SPECIFICATION:

It should be a 3/6/12 lead automatic interpretive electrocardiograph recorder with LCD display should be mains operated with provision of built in rechargeable batteries and complete alphanumeric keyboard with following specifications:

- Computer controlled thermal dot array printer.
- Writing speed 5-50 mm/ sec
- Sensitivity 0.5 mv/5-20 mm.
- Report formats: 12 lead and user selectable format.
- Common mode rejection ratio: 100 db or more.
- Patient safety current leakage less than 10 uamp.
- Recording paper: thermal sensitive , Grid paper.
- Should have interface for PC compatible software with capability to store upto 100 EKGs.
- Alarms alert for lead disconnection.

Standard Accessories include

- 10 lead patient cable with banana plugs, clip and chest electrodes.
- Build in rechargeable battery lasting for > 2 hours. After full charge
- Power cord (10 feet)
- Five packs of grid paper.
- Suitable CART to be quoted as part of offer.

Two extra patient cables to be quoted as part of EKG machine.

Printer Digital Array Printer at a speed of 25 and 50 mm/ sec
Paper Thermal paper preferably A4 with Grid (Commercially available in india)

Report (Annotated)

- Basal 12 lead EKG with interpretation. Other formats 3x4, 6x2 formats.
- Averaged 12 lead EKG complexes of resting EKG preferable Rhythm lead (upto 12 leads)

NOTE:

1. Service contract (both AMC/CMC) for 5 years with details of terms and conditions of repair and payments must be submitted (after expiry of 2 years warranty). Battery should also be under warranty for 2 years Service
2. Service manual, operation manual are essential.

3. These are minimum specifications and offers with additional or higher specifications shall also be considered.
4. Warranty period for two years after satisfactory installation.
5. Third party inspection of goods (Imported items) at the time of dispatch shall be to the charge of supplying firm.

4.	<u>RANDOM ACCESS AUTO ANALYZER</u>		01 No.
	Feature	Details	
	Type of Device	Should have desktop fully automated random access analyzer	
	Usage	Should have general chemistry as photometric assay. Immunology a photometric assay(latex reagent available) ISE	
	Assay Type	Should have one point end, 2 point end, 1 point rate, 2 point rate	
	Type of Calibration	Should have straight, linear, log logit exponential, spline	
	Thourghput	Should have minimum 300 photometric tests per hour & minimum 250 ISE test per hour.	
	Incubation time	Should have one reagent as assay 3-5 minutes (R1) two reagent assay 3-5 minutes (R1) 3-5 minutes for (R2)	
	Timing	Should not be more than 10 second cycle time	
	Bar Coding	Should have laser scanner enables faster scanning of reagents	
	Number of simultaneous measurements	Should have not less than 60 itms +Direct Electrolyte :3 items	
	Cuvette type	Should have pyrex/quartz, permanent & numbered (results matched to cuvettes) Automatic on board washing.	
	Volume range of cuvette	Should not be more than 150ul- 450 ul	
	Number of samples	Should have not less than 70 samples position and not less than 20 cooled position for control and calibrators	
	Sample turntable	Should have detachable type, removable tray with sample tube holders, bar code detection	
	Cooling method for samples	Should have cooling with peltier modules, control n standards(cooling only tubes on the inner ring)	
	Emergency samples	Should have STAT sampling; immediate sampling interruption	
	Sample programming	Atleast 1000 normal samples can be programmed	
	Sample bar coding	Can use bar coded or non bar coded, laser scanning	
	Liquid level detection	Micropipette with liquid level sensor by sensing a change of capacitance, bubble detection	
	Sample volume	2 to 35 ul ISE; 100ul	
	Sample type (user	Serum plasma, urine, common	

	define)	
	Reagent turn table	Should have detachable type. Remove able tray with reagent bottle holder
	No. of Reagents	Should have more than 50 reagent position 30*100 ml (or 50 ml) and 30*20 ml bottle position
	Cooling method of reagent	Cooling with peltier modules. 8°C- 15°C
	reagent inventory	Calculation of remaining reagent volume and test available
	Liquid detection	Micropipette with liquid level sensor by sensing a change of capacitance
	Regent volume	20-350 ul (1ul/steps) for both reagent pipettes
	DTR Method	Direct measurement of absorbance(1 or 2 wavelength Meaasurement) in cuvette, bichromatic or monochromatic
	Selectable Wavelength	12 wavelength 340,380,415,510,546,570,600,660,700,750,800,mm
	Wavelength selection	Diffraction Grating method
	Cooling for light source	Air-cooled by fan
	Stirring mechanism	5-speed stirrer stick type rotating stirrer optimized for each assay
	ISE Unit	Integrated ISE unit
	ISE Measurement	Direct
	ISE analytes	Na+K+CI
	Diagnostic kits	The Unit should be an open system and should be able to use Diagnostic Kits manufactured/marketed by Reputed Standard companies
	Accessories, accessories reagents, calibrators and Controls	The supplier will supply all standard accessories, start-up kits, Standard calibrators etc.

1. Computer with printer:

Latest Brand Computer I5/I7 processor or equivalent, 17" TFT Screen, 500 GB Hard Disk, 4 GB Ram, DVD and all other standard accessories.

2. UPS:

Analyzer to be supplied with appropriate rating of online UPS with minimum 2 hours back up

3. Water Purification System:

Water purification system (R.O system) to provide HPLC/Reagent Grade water, Minimum output 5 Ltrs./Hr. with Thermal conductivity less than .01 (m Siemens) should also be supplied and maintained with the instrument.

4. Annual consumption of all wash solutions, consumables and spares to be mentioned separately in the price bid.

5. Warranty for 2 years (on items quoted at 1,2,3 and 4)
6. CMC for 5 years after warranty (on items quoted at 1,2,3 and 4)
7. mention the year of the manufacture of the quoted model. Principal should also certify that the spares and service to the quoted model shall be available for at least 10 years.
8. List of user and performance Certificate from the user of the quoted model to be supplied.
9. penalty : if due to any lapse of the instrument, diagnostic kits, accessories, Accessories reagents calibrators and controls, the reports generated on a particular day are not of the required standard, the company shall be levied a penalty of Rs. 5000/- per day.

TERMS & CONDITIONS:-

1. Sealed technical bid and Price bid shall be submitted separately in one sealed envelope as per Annexure
2. 'I' & 'II'. Non-compliance will result in rejection of tender offer.
3. Tenders without earnest money and Tender Form will be rejected and no opportunity will be given.
4. No change in the tender rates will be accepted after opening of the tender.
5. Each paper of the tender offer should be serially numbered and duly signed by the tenderer with the rubber stamp of the firm on each page.
6. The tenderer should indicate (wherever applicable) the shelf life of the stores offered.
7. Rates should be quoted in Figures as well as in words F.O.R. BPS Medical College, Khanpur Kalan, Sonapat (as the case may be) inclusive of packing, forwarding, and all other charges, if any.
8. The price/rates quoted shall remain valid for a period of 180 days from the date of opening of tender.
9. The Institution may get the validity of the rates extended, if required.
10. Delivery period: The earliest delivery period within which the goods can be supplied should be quoted in bids.
11. Quantity can be increased or decreased including complete withdrawal on administrative grounds.
12. The Tenderer must quote their rates strictly as per serial number of the tender group on their letter head
13. and should furnish the copy of the catalogue/drawing/leaflets/literature and samples of consumables
14. Where required, alongwith their offer. They will supply the list of the Institutions where such type of machinery and equipment have already supplied alongwith photocopy of the supply order and satisfactory performance report issued by the respective institute.

15. All cuttings, overwriting in the tender should be duly attested by the tenderer.
16. Authority letter from principal company/manufacturer for supply of machinery & equipment. ISO
17. certificate and copy of manufacturing License for the supply of drugs should be given.
18. **The manufacturers/distributors/agents/stockists** and suppliers should send copy of registration certificate of manufacturer alongwith their offer or any documentary proof to the effect that they are manufacturer of the item as the case may be failing which offer will be rejected.
19. The earnest money of the tenderer will be forfeited to university accounts if they fail to make the complete supply/withdraw their offer/rates or modify the terms & conditions of the same during the validity of their offer and disciplinary action can be taken.
20. The rates should be quoted F.O.R. BPS Medical College, Khanpur Kalan, Sonapat on the basis of following pattern:-
 - a) Rates excluding taxes.
 - b) Rates including taxes (Net rates i.e.mentioning Excise duty/CST/ST/VAT/service tax etc.clearly in percentage.
 - c) **The words: 'AS APPLICABLE' will not be entertained)**
13. The tendering firms must enclose latest copy of notification regarding the applicability of taxes/duties for the time for which they are quoting rates with the offer.
14. In case of LOC for imported items, 'Third Party Inspection Certificate' for Quality Assurance shall be provided by the manufacturer/supplier/distributor at their own expanses otherwise item will be rejected.
15. **In case of imported items**, the goods will have to be got cleared from the Customs Authorities by the supplier himself and the expenses borne by them. Customs Duty (counter veiling duty/special addl.customs duty) etc., if any, levied by the Govt., will be borne by the firm. However, NMIC/CDEC will be provided by this Institution on the request of the supplier (except for imported goods/stores which come under the OGL policy of Govt. of India). No Demurrage charges will be paid by this Institute on account of delay in clearance.
16. The Tenderer will quote their rates for AMC/CMC applicable after the expiry of Guarantee/Warranty Period of 2 years or more. For AMC/CMC the successful tenderer shall have to furnish bank Guarantee equal to 2% of the cost of the equipment before issue of supply order. The terms and conditions for AMC/CMC shall be finalized separately.

17. Payment will be made against physical delivery of inspected/accepted goods duly supported with Satisfactory Inspection Note, satisfactory installation/working of the equipment at Consignee's site.
18. In case of any dispute arises, the final decision of Director, Medical Education & Research, Haryana, Panchkula shall be final and binding on the Tenderers.
19. All other terms & conditions as mentioned in the supply order will be applicable.
20. The items mentioned in the tender offer may be purchased through Central Public Undertaking (CPU)/Director-General Supplies & Disposals (DGS&D) New Delhi/Director Supplies & Disposals(DS&D), Haryana, in case the rates of tender offer happens to be higher.

GROUP –B----- OT

1. HYDRAULIC OPERATION TABLE WITH ALL STANDARD ACCESSORIES:

SPECIFICATIONS:

- 1 The table should be multipurpose can used for all kind of specialties like Ortho , General Surgery, Gynae, uro & Laparoscopic surgery.
- 2 The table must have divided foot section with a option of interchangeable leg & head section. Leg section must be splitted.
- 3 The material of the base & body of the table should be of high quality stainless steel for hygiene & durability.
- 4 Table should be movable on high quality castor, when it is not locked. It must have base locking mechanism for rigid locking.
- 5 Base & supporting column should be in eccentrically placed towards head section.
- 6 The table should have battery which can take 25 standard positions on battery load.
- 7 Table can take load min 180 Kg.
- 8 The table should have advanced hydraulic System
- 9 It should have radiolucent mattress & suitable for fluoroscopy and capable of moving C-Arm and under around table through out it's length.
- 10 Measurements (all dimensions acceptable with 10% variation)

1. Length	-	1950 MM
2. Width	-	500 MM
3. Height	-	730-1040 MM
4. Back section/Head	-	+300 to+ 45 0
5. Trendelberg /reverse trendelberg -		25 degree
6. Leg section	-	-1000 to 100

7. Lateral tilt - + 150

11. Table top should allow the use of X-Ray cassette all over its length.
12. Table top able to slide towards head & foot section
13. Remote wired & manual operated
14. The table must have zero function, which automatically returns the patient to home position.

Attachments:

- 1 Lower Limb Traction Device
- 2 Femoral Nailing device
- 3 Meniscus positioning device
- 4 Hip prosthesis device
- 5 Humerous positioning device
- 6 Shoulder Arthroscopy device
- 7 Hand surgery device
- 8 Gel pads for various patient positions

Standard Accessories:

- 1 Anesthesia screen with clamps
- 2 Kidney bridge
- 3 Padded arm rest with straps- pair with clamps
- 4 Side supports: pair with clamps
- 5 Shoulder supports: pair with clamps

- 6 Infusion rod with clamp
- 7 Patient straps
- 8 SS Drain pan with tube for urology application

- 9 universal lithotomy holders

7. Standards, Safety and Training

7.1 Should be FDA, CE, UL or BIS approved product

7.2 Manufacturer should be ISO certified for quality standards.

7.3 Should have local service facility. The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provider in the service/maintenance manual.

7.4 Warranty for 2 years and 3-10 years for AMC/CMC after warranty. The prices for AMC & CMC shall be quoted at the time of tendering process. The Prices of AMC & CMC shall be considered for the evaluation process.

8 Documentation

8.1 User/Technical/maintenance manuals to be supplied in English.

8.2 Certificate of calibration and inspection

8.3 List of equipments available for providing calibration and routine preventive Maintenance Support. As per manufacturer documentation in service/technical manual.

8.4 List of important spare parts and accessories with their part number and costing

8.5 Log book with instructions for daily, weekly. Monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

2. ELECTRO SURGICAL GENERATOR/ CAUTERY

1. Micro controller bases isolated Electro Surgical Generator having both Monopolar and Bipolar outputs designed for all surgical procedures.
2. Smart generator should be able to monitor changes in tissue impedance continuously and adjust power.
3. Monopolar outputs should have three cutting modes:-
 - a) Low Cut for delicate tissue or laproscopic cases having maximum power 300-360 ohms.
 - b) Pure cut for clean, precise cut in general surgery having maximum power of 300 w at 300 ohms.
 - c) Blend mode for cutting with hemostasis having maximum power of 120 w at 300 ohms.
4. It should have three Coag. Modes with maximum power of 120 w at 500 ohm.
 - a) Desiccate mode for low voltage contact coagulation suitable for laparoscope and delicate tissue work.
 - b) Fulgurate mode for efficient non-contact coagulation in most applications.
 - c) Spray mode should have randomized spray effect of varying amplitude and frequency for coagulating large tissue areas with minimum depth of necrosis.
5. It should have three bipolar modes with maximum power of 70w at 100 ohms.
 - a) Precise mode to have fine control of desiccation in delicate tissue.
 - b) Standard mode for applications at low voltage to prevent sparking.
 - c) Macro mode for application on tissue with high resistance.

It should have patient plate monitoring facility and should give audiovisual alarm and deactivate output if contact between patient and patient plate is not proper to eliminate the risk of patient burns.
6. The unit should have two hand switching and two footswitching Monopolar outputs and one hand switching and foot switching bipolar output.
7. It should have membrane keyboard for power settings.
8. The Unit must have CE/US FDA/UL Certificate should be provided
9. IEC 60601-2 Certificates should be provided.

3. MOBILE C-ARM WITH IMAGE INTENSIFIER UNIT:

1. The unit should have good manoeuvrability for easy positioning during surgery in OT
2. as well as in ICU. It should be a well - balanced system for quick positioning.
3. System Configuration:
4. 1. Mobile C Arm unit
5. 2. Stationary Anode tube
6. 3. 9” Image Intensifier
7. 4. 17” Monitor
8. 5. DSA – Option
9. A. Mobile C Arm Cart
10. - Source to Entrance Distance should be 90 Cm- C-Arm Orbital Rotation 120 deg
11. - Pivot Rotation should be 300/-120 deg- Free space II and tube should be 700mm
12. - C arm Depth should be 660mm
13. - Horizontal Travel should be 200mm
14. - It should have all electromagnetic locks. A single press of a switch should release all the locks for quick positioning during surgery.
15. - All cabling should be concealed inside the C Arm for improved sterility **01B**. X-ray High Voltage Generator
16. - Inverter generator with inverter frequency of not less than 50 kHz.
17. - Maximum output: 2.0 kW
18. - Fluoroscopy / Radiographic kV range : 40 - 110kV
19. - Fluoroscopy mA range: Max mA should be 9 mA or more
20. - Pulse fluoroscopy: 9 mA, 2 ~ 15 fps
21. - Radiography mA; 20 mA
22. - Radiographic mAs range: Minimum 150 mAs
23. - Anatomical program memory
24. - LED readout for parameter display.C. X Ray Tube
25. - High capacity Stationary anode tube
26. - Anode heat capacity – not less than 100 kHU. Higher
27. capacity would be given preference.
28. - Focal spot size – 0.6 mm
29. - Collimation – Iris type with parallel & rotation
30. compensation filters.
31. - Beam hardening filter to cut soft X rays. Selection of filters
32. would be preferable.
33. - Collimation position memory
34. D. Image Intensifier
35. - Input field size – 9”
36. - Fibre grid for low X ray absorption and to effectively reduce
37. scattered radiation
38. E. TV System
39. - CCD Camera
40. - X Ray TV Image rotation – 360 deg
41. - Monitor 17” – 2 nos
42. F Monitor cart for 2 monitors

43. DSA - It should be possible to upgrade to DSA in future.
 44. Unit should have CE approved. It should have AERB Approved

4.0 T Light with LED Technology

Technical Specifications for Dual Dome LED based Light System	
1	Dual Dome, extremely flat, compact and aero dynamical surgical light based on innovative LED technology which should support the effect of Laminar air flow system.
2	The light head should be consists of several, symmetrically arranged light emitting modules, using multitudinous LEDs to form a multi-lens matrix for a shadow free and homogeneous illumination of the surgical field.
3	All arms are freely rotatable (without stops) at all vertical joints
LIGHT SYSTEM	
4	Surgical light should have cold and shadow-free light with high lighting intensity and very homogeneous large-area and in-depth illumination of the surgical field through unique multi-lens matrix technology.
5	The intensity should be adjustable
6	Light field should be adjustable from 20 cm to 30 cm and focusing via sterilizable handle in the center of the light head.
7	High fail-safety through optical light system consisting of between 70 to 100 LED's, with its own lens. In case of failure of one light source (LED), the illumination of the light field is not affected. Even in case of failure of a second or more light sources, negative effects on the illumination of the surgical fields remain limited to a minimum.
8	There should be a Sterilizable knob at the lower side of the light head for the adjustment. Switching ON/Off, light intensity control (10 -100%) should be on the light head and/or control panel on the wall. Both the light heads should have individual control
9	Lighting intensity at 1m distance: 160,000 Lux (Each Light head)
10	Size of light field at 1m distance: 18-28 cm
11	Colour temperature: 3800- 5000k
12	Colour rendering index : RA95 to RA97
13	R9 (deep saturated red colour index) : 95 to 97
14	. Life span of main light source: above 30,000hrs
15	Supply voltage: 110 - 240 VAC / 24V DC / 24 V AC
LIGHT HEAD	
16	Made of power-coated aluminium diecast, with smooth and clean surfaces that are easy and safely to clean.
17	Dust and splash proof

18	One-point suspended.
19	Light is to be provided with suitable CVT (of CE /BIS approved) mounted on the wall or with trolley.
STANDARDS ,SAFETY AND TRAINING	
1	Complete unit & CVT/UPS if any being supplied Should be FDA,CE ,UL,EN OR BIS approved.
2	Should have local service facility. The service provider should gave the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provider in the service maintenance manual.
3	Warranty for 2 years and 3-10 years for AMC/CMC after warranty. The prices for AMC & CMC shall be quoted at the time of tendering process. The prices of AMC & CMC shall be considered for the evaluation process.
Documentation	
1	User/technical/maintenance Manual to be supplied in English
2	Certificate of calibration and inspection from parent company/OEM supplier.
3	List of Equipments available for providing for calibration and routine preventive maintenance support. As per OEM documentation in service / technical manual.
4	List of important spare parts and accessories with their part number and costing.
5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.

GROUP C--- RADIOLOGY

1. 800 mA High Frequency X-Ray Unit with Image Intensifier.

INSTALLATION ON TURN KEY BASIS

X-Ray Generator:

- High Frequency Generator with output of 80 KW or more to give 800 mA at 100 KV
- Generator should have KVP Range 40 KV to 150 KV
- mAs range should be 0.5 – 800 mAs
- Minimum Exposure time of 1 msec in Automatic and Manual mode
- Should have Automatic Exposure Control
- Anatomic Programmed Radiography should be possible
- More than 800 Memory positions of APR
- Tube Overload protection device and self-diagnosis should be possible.
- Digital Display of KV, mAs & mA of Radiography
- Integrated console with the table

- Fluoroscopy in manual and automatic mode

X-Ray Tube & Collimator

- Dual Focus over couch X- Ray Tube with Large focus 1.2 mm & Small Focus- 0.6 mm or smaller
- Overcouch X-Ray tube of 80 KW capacity or more.
- Anode heat storage capacity should be 300 KHU or more.
- Manual, remote controlled and automatic

X-Ray Table:

- Fully Motorized remote controlled X-Ray table with carbon fiber table top.
- Table top transversal travel 30 cm or more.
- Patient coverage 150 cm or more.
- Tilttable table from +90 Deg to -30 deg or more
- Height adjustment facility for easy patient transfer
- Continuously variable FFD to 1.5 meter with predefined positions
- Microprocessor Controlled Automatic Spot film Device with facility of different film formats selections with
- wide range of divisions in vertical and horizontal.
- X-Ray table should be able to accept all standard type of cassette
- Standard accessories like hand grip, shoulder rest, foot rest, Compression band etc should be supplied with
- the system
- Variable tilting speed $> 5^\circ/\text{sec}$.
- Maximum allowable patient weight 200 kg.
- Compressor cone with automatic parking position.
- Oblique incidence up to $\pm 40^\circ$
- All movement controls of the table available on the SFD also.
- Retractable grid to work with children

Image Intensifier & TV Chain

- 12 Inch Image intensifier system with high resolution CCD camera & 2 No high resolution Monitor of minimum 17"
- Last Image hold of fluoroscopy and radiography images.

2nd X- Ray Tube & Collimator

- High speed rotating anode X-Ray Tube, compatible with the generator with 80 KW output or more on large
- focus.
- Focal spots of the following sizes: Large Focus: 1.2 mm or less. Small Focus: 0.6 mm or less
- Tube with Anode heat storage capacity of 300 KHU or more.
- Ceiling suspended column stand for 2nd X-Ray Tube
- It should have electromagnetic brakes with fully counter balanced mechanism.
- Travel on longitudinal rail 300 cm or more.
- Travel on transversal bridge 200 cm or more

- Vertical travel of 150 cm or more.
- Display for FFD and incidences

Celling suspended column stand for 2nd X-Ray Tube:

- It should have electromagnetic brakes with fully counter balanced mechanism
- Travel on longitudinal rail 300 cm or more.
- Travel on transversal bridge 200 cm or more.
- Vertical travel of 150 cm or more.
- Display for FFD and incidences

Vertical Bucky Stand

- The unit should be provided with vertical Bucky.
- Bucky should be able to hold cassettes up to 14” x 17 “size.
- Bucky should have a grid ratio 12 : 1 or more with 40 lines/cm
- The highest bucky position from ground for standing extremities of 210 cm or more

Accessories:

- 100 KVA Servo Voltage Stabilizer with spike suppressor to be quoted along with the system
- Lead Glass of 100 x 120 cm with 12 mm thickness having lead equivalence of 2.1 mm.
- Two split AC of 1.5 Ton capacity each with suitable voltage stabilizer should be supplied.
- Lead Apron light weight 2 No.

Radiation Safety:

- Model offered should be CE/IEC / FDA certified.
- The offered system/ Model should have Type NOC/ Type Approval from AERB

Payment and Supply

- The price should include the cost of installation like internal wiring of the room with copper and fixing of the beams etc for installation. The department would provide only three phase power supply in the room. The rest of the work will be done by the firm on “**turnkey basis**” including girders for ceiling suspension etc., if required. Earthing to be provided by the firm, if required.
- In case of imported item, the firm should get the **third party inspection** done before dispatch of the equipment at its own cost certifying that the equipment is brand new and as per NIT/specifications.

NOTE:

- Performance bank guarantee of 5% value of the total cost of the equipment valid for the warranty period shall have to be submitted by the firm for release of balance 20% payment.
- Two years comprehensive on site warranty of entire system (spare and labour), including the Image Intensifier, X-Ray tube, X-Ray Generator and all other accessories. This will be followed by 7 years AMC/CMC to be quoted separately year-wise

- 95% uptime guarantee should be given. In case downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which equipment goes out of service, will be applied.
- The firm should have installation of Conventional/Digital X-Ray Machine (Conventional /Digital Fluoroscopy/Digital Radiography) in any Govt/ Semi Govt or Institute of Repute in Delhi/ Haryana/Punjab/Chandigarh. Please enclose the list. Please provide satisfactory performance certificate from at least three users of the above mentioned machines.
- The supplier must ensure the availability of expertise for service and maintenance at New Delhi/ Haryana/ Chandigarh. Uninterrupted availability of spare parts and repair for the next ten years must be assured.
- All technical information provided in the quotation must be substantiated with attached original product data sheets. Computer printouts/photocopies will not be accepted.
- The above specifications are bare minimum, higher specification may be given added weight age, if considered useful by the committee.
- Rates should be FOR destination.
- During the Warranty Period/AMC/CMC, the firm will provide four quarterly preventive maintenance visits and attend to unlimited number of breakdown calls
- The X-Ray Tube replaced on payment during AMC period shall also carry a warranty of one year.
- AMC/CMC shall be renewed every year.
- Service charges will not be paid in advance. It will be paid quarterly after satisfactory service.

2. 500 mA High Frequency X-Ray Unit: Qty. 01 No.

A. Generator:

1. Generator should be high frequency/inverter type for constant output & Microprocessor controlled.
2. Output 50 KW or more.
3. KV range 40 KV – 150 KV.
4. Output at 100 KV should be 600 mAs or more.
5. It should have automatic exposure control (AEC) device for both vertical bucky as well as table.
6. It should have digital display of KV & mAs.
7. Anatomical programming radiography should be possible.
8. It should have over loading protection.

X – Ray Tube, Collimator & Column Stand:

1. The x-ray tube should be rotating anode high speed, compatible with the generator and must have dual focus. Focal spots of following sizes:
Large Focus: 1.2/2.0 mm or better.
Small Focus: 0.6/1.0 mm or better.
Tube with anode heat storage capacity 300 KHU or more.
2. Motorized collimator having additional filters (for Dose Reduction), auto shut provision for the light and auto collimation according to SID and size of the inserted cassette.
3. Counterbalanced floor to ceiling stand with rotation of both tube as well as column with electromagnetic locking system for smooth positioning.

X – Ray Table:

1. Horizontal table with floating table top. It should be able to take patient load of 150 Kg or more.
2. It should have transverse + 10 cm or more and longitudinal movements + 35 cm or more with electromagnetic brakes.
3. The table should be CE certified.
4. It should be provided with bucky which can hold all standard sizes of cassettes upto 14"x17".
5. Bucky should have a grid ratio 12:1 or more with 40 lines per cm.

E. Vertical Bucky Stand:

1. It should have provision to do chest radiography without grid. It should be able to take up cassettes of different sizes up to 14"x17". It should have electromagnetic locking facility for smooth positioning.

F. Essential Accessories: The following essential accessories to be provided with the unit.

1. Voltage stabilizer of 75 KVA Capacity with spike suppressor. The make of the voltage stabilizer should be specified.
2. 2 Lateral cassette holder – One.
3. One radiation protection 3 panel screens should be supplied. Two split AC of 1.5 Ton capacity each with suitable voltage stabilizer should be supplied.

Warranty:

Warranty of 36 months of all parts including X–RAY TUBE as well as accessories and auxiliary units supplied with the main equipment.

I. AMC/ CMC

1. AMC for 7 years for labour only and CMC for 7 years for whole equipment including labour cost, spare cost as well as all accessories supplied with the unit like the X-ray tube and AC etc.
2. J. The Unit should have Type Approval of the AERB for radiation protection and should be IEC/CE/FDA Certified. Manufacturing firm should be ISO Approved.
3. K In case of imported item, the firm should get the **third party inspection** done before dispatch of the equipment at its own cost, certifying that the equipment is brand new and as per NIT/specifications.

PAYMENT AND SUPPLY:

The price should include the cost of installation like internal wiring of the room with copper and fixing of the beams etc. for installation. The department would provide only three phase power supply in the room. The rest of the work will be done by the firm on “turnkey basis” including rails for floor to ceiling column stand etc., if required. Earthing to be provided by the firm, if required.

NOTE:

1. Manufacturing firm must have established centers and offices with available spare parts in Haryana/Delhi/Chandigarh and trained engineer for prompt after sales service.
2. Firm must have installation of X-Ray equipments in North India. The firm/manufacturer should submit the list of installation of X-Ray equipments and their certificate of satisfactory performance from reputed Government hospital – at least 3 Hospitals.
3. Total equipment should be guaranteed for trouble free performance and defective material or workmanship including free replacement of X-Ray tube for three(3) years from the date of Installation.
4. The above specifications are bare minimum, higher specification may be given added weightage, if considered useful by the committee.
5. Rates should be FOR destination.
6. Annual Maintenance Charges AMC)/CMC should be furnished for 7 years after expiry of guarantee period of 3 years for the whole system.
7. During the guarantee period/AMC/ CMC, the firm will provide four quarterly preventive maintenance visits and attend to unlimited number of breakdown calls.

8. Spare parts up to Rs. 5000/- should be replaced free of cost during the period of service contract.
9. The X-Ray tube replaced on payment during AMC period shall carry a guarantee of one year.
10. AMC/ CMC will be renewed every year.
11. Service charges will not be paid in advance. It will be paid quarterly after satisfactory service.

TERMS & CONDITIONS:-

1. Sealed Technical Bid and Price Bid shall be submitted separately in one sealed envelope.
2. Offers without Earnest Money and original tender form will be straight way rejected and no opportunity will be given. No amendment in the tender rates will be accepted after opening the tender.
3. Rates should be quoted F.O.R. destination.
4. The rates should be quoted FOR BPS Medical College for Women, Khanpur Kalan, Sonapat on the basis of the following pattern
 - a) Rates excluding taxes
 - b) Rates including taxes (Net Rates i.e mentioning excise duty/ CST/ ST/ VAT/ Service Tax etc clearly in % age)
- c) The words: “As applicable” will not be entertained.**
5. Delivery period: The earliest delivery period within which the goods can be supplied be quoted in the tender. Quantity can be increased or decreased including complete withdrawal on administrative ground.
6. The quoted rates should be valid atleast One Year from the date of opening of Tender.
7. The Tenderers must quote rates strictly as per Serial Number of the tender group on their letter head and should furnish the copy of the leaflets/literature alongwith their offer. They will supply the list of the institution where such type of Machinery and equipment have already been supplied alongwith photocopy of the supply order and satisfactory performance report issued by the respective institute.
8. All cuttings, overwriting in the tender should be attested by the tenderer under his signature and date.
9. Authority letter from Principal company/manufacturer for supply of Machinery & Equipment. ISO Certificate and copy of Mfg. License for the supply of Drugs should be given. The Manufacturers / Distributors / Agents/Stockists and Suppliers should send copy of Registration Certificate of Manufacturer alongwith their offer or any documentary proof to the effect that they are manufacturer of the item as the case may be failing which offer will be rejected straightway.
10. The Earnest Money of the Tenderers will be forfeited to DMER Accounts if they fail to make the complete supply/withdraw their offer/rates or modify the terms & conditions of the same during the validity of their offer which are adverse to the business ethics.
11. The tendering firms must enclose latest copy of notification regarding the applicability of taxes/duties for the time for which they are quoting rates with the offer.

12. In case of LOC for imported items, 'Third Party Inspection Certificate' for Quality Assurance shall be provided by the **Manufacturer/Supplier/Distributor** at their own expenses otherwise item will be rejected.
13. In case of LOC, 100% LOC will be established for the total cost of imported equipments. 80% will be released against dispatch of documents and balance 20% will be released on installation/handing over of the equipment to the department and satisfactory working at site.
14. Site preparation, if any, payment in Indian Rupees will be made on completion/installation/handing over of the project.
15. **In case of imported items**, the goods will have to be got cleared from the Customs Authorities by the supplier itself and the expenses borne by them. Customs Duty (Counter Veiling Duty/Special Addl. Customs Duty) etc., if any, levied by the Govt., will be paid by the firm and the same will be reimbursed on actual basis by the Purchaser on submission of documentary proof. However, NMIC/CDEC will be provided by this Institution well in time on the request of the supplier. No Demurrage charges will be paid by this Institute on account of delay in clearance.
16. The Tenderer will quote their rates for AMC/CMC which shall be applicable after the expiry of Warranty Period of 3 years. For AMC/CMC, the successful tenderer shall have to furnish Bank Guarantee equal to 2% of the total cost of the equipment(s) before issue of supply order. The terms and conditions for AMC/CMC shall be finalized separately.
17. In case of any disputes arises, the final decision of DMER, Haryana Panchkula shall be final and binding on the tenderers.
18. Other terms and conditions as mentioned in the supply order will be applicable.

3. Whole Body Colour Doppler System

The system should be state of the art with fully digital technology equipment to incorporate the facility of 2D, M-Mode, CDI, PW, CW-Doppler, Tissue Doppler Imaging for abdomen, echocardiography, obstetrics & Gynae, Cerebrovascular, peripheral vascular, adult transcranial & superficial & superficial parts imaging like breast, scrotum, thyroid, musculoskeletal exam etc.

1. It should be fully digital technology with digital beam former and should have at least 5000 channels.
2. Monitor should be at least 17" or more, flat panel colour LCD monitor with swivel and preferably adjustable heights.
3. System should have at least three universal active probe ports with electronic switching facility keyboard with probe adaptor.
4. Operating modes B-Mode, M-Mode, B/M Mode, Doppler Mode, Colour Flow, power Doppler, DCA/DPA, B/Colour flow, PW,CW Doppler.
5. Electronic Board band transducers:
 - i) Convex probe 2-5 MHz
 - ii) Linear probe 5-12 MHz
 - iii) Endo-Cavitary 5-7.5 MHz
 - iv) Phased array 2-4 MHz
 - v) The firm should also quote for any other probes available along with their cost separately as optional.
Transducers should be solid state device with a broadband width frequency response and multi frequency capability
Frequency range (minimum and maximum) of all transducers should be displayed on the monitor of the system.
Triplex mode should be available in all probes.
6. System should support broadband probes spanning a frequency of 2-15 MHz.
7. B mode & B Colour stimulus should be available. Digital zoom facility for region of interest in real time and frozen images.
8. System should have 256 grey shades.
9. Image storage facility on inbuilt hard disc with capacity of at least 80 GB. facility of inbuilt multi session CD Writer should also be quoted.
10. Cine loop as well as cine scroll facility in B mode with storage of 1000 or more images should be available.
11. Auto trace & automatic Doppler calculations should be available in Live & Frozen images.
12. Advanced measurements & calculation package for abdominal, obst./gynae, urology, cardiology & vascular should be available.
13. System should be capable of scanning up to depth at least 28 cm.
14. System should have frame rates in excess of 400 FPS.

15. Preset programs for various applications.
16. System dynamic range should be 170 db or more.
17. System should have THI in Convex & Phased array probes with minimum 2 THI frequencies on it.
18. Selected field of view from 20-90 degrees.
19. Automatic real time/ frozen tracing of instantaneous peak velocity & instantaneous mean velocity(or frequency) should be available.
20. The system should have Foetal Echo Spatio temporal Image Correlation(Foetal STIC) or equivalent software for foetal echocardiography.
21. Angle correction both in real time & Frozen mode should be available.
22. System should be capable of supporting compound imaging using computed beam steering technology. Panoramic Imaging facility should be available.
23. The system should have facility to take Colour print on inkjet & thermal printer directly or through PC.
24. Machine should operate on single phase 220V, 50 Hz.
25. The system should be DICOM ready and should be connected to the existing printer in the dept. for printing the images of the USG.
26. The system should be European CE certified and US FDA approved.
27. On line UPS of 3 KVA with inbuilt battery of reputed make like APC/ Libert etc.
28. Black and white thermal printer of standard make should be supplied (Optional).
29. One 2 Ton split A/C of standard make with suitable voltage stabilizer (Optional)
30. The firm must enclose original catalogue and technical datasheet for the quoted model.
No photocopy or computer print will be accepted.

TERMS AND CONDITIONS:

1. The firm will get the third party inspection done at its own cost from some reputed firm, declaring that the equipment is brand new and as per specifications/ supply order before the dispatch of the consignment.
2. Prices should be quoted FOR destination.
3. Warranty of 2 years for total system including free replacement of probe, A/C, UPS including batteries and Thermal Printer.
4. Installation should be free.
5. AMC/CMC for 8 years after the expiry of the warranty period. The probe supplied on payment during AMC should also carry a warranty of one year.
6. The firm must have established centers and offices with available spare parts in Haryana/ Delhi/ Chandigarh and trained engineers for prompt after sale service.
7. The firm must be able to demonstrate working of the machine of quoted model.
8. The firms should indicate the number of Govt. institutions with address where such equipment is functioning in the region.
9. The above specification are bare minimum, higher specifications may be given added weightage, if considered to be useful by the committee.

- 10.** During the period of warranty and AMC/ CMC the firm will provide four quarterly preventive maintenance visits and attend to unlimited number of break down calls.
- 11.** Spare parts up to Rs. 5000 shall be replaced free of cost during the period of AMC.
- 12.** AMC/ CMC will be renewed every year.
- 13.** Service charges will not be paid in advance it will be paid quarterly after satisfactory service.

4. HIGH FREQUENCY MOBILE X-RAY UNIT

X-Ray generator should be capable of giving 300 mA at 100 kv. Generator should be of 30 kw or more capacity, high frequency, and microprocessor controlled. Maximum range should be 125 kv in 1 kv step for Radiography. Digital Display of parameters should be available. it should be capable of delivering up to 200 mAs in different steps. Multileaf collimator should be supplied with the system.

it should have a dual focus rotating anode tube with maximum output up to at least 30 kw or more. Please specify the Focal Spot Size. Anode heat storage capacity of X-Ray tube should be 100 KHU or more.

Anatomical Programming Radiography should be available with at least 40 APR's. Preferably membrane type switch. Mobile Cart with tube support should be available. Infrared Remote control for exposures should be possible and the same should be supplied with the unit.

Tube arm should have electromagnetic locking facility. There should be cassette storage box to store up to 10 cassette of 14"x17".

The X-Ray unit should have type Approval/ NOC from AERB for radiation protection & IEC/CE/FDA certified. Manufacturing firm should be ISO approved.

In case of imported item, the firm should get the third party inspection done before dispatch of the equipment at its own cost certifying that the equipment is brand new and as per NIT/ specifications.

Note:

1. Manufacturing firm must have established centers and offices with available spare parts in Haryana /Delhi/ Chandigarh and trained Engineers for prompt after sales service.
2. Firm must have installation of X-Ray equipment in North India. The firm should submit the list of installation of X-Ray equipments and their certificate of satisfactory performance.
3. Total equipment should be guaranteed for trouble free performance and defective material or workmanship including free replacement of X-Ray tube for two years from the date of installation.
4. The above specifications are bare minimum, higher specification may be given added weightage, if considered useful by the committee.
5. Rates should be for destination.

6. Annual Maintenance Charges (AMC) / CMC should be furnished for 8 years after expiry of guarantee period of 2 years for the whole system.
7. Spare parts up to Rs. 2000/- should be replaced free of cost during the period of service contract.
8. During the guarantee period / AMC/ CMC, the firm will provide four quarterly preventive maintenance visits and attend to unlimited number of breakdown calls.
9. The X-Ray tube replaced on payment during AMC period shall carry a guarantee of one year.
10. AMC will be renewed every year.
11. Services Charges will not be paid in advance. it will be paid quarterly after satisfactory service.

5. WHOLE BODY MULTI SLICE (16 SLICE) CT SCANNER

(SIXTEEN SLICE / ROTATION)

INSTALLATION WILL BE ON TERN KEY BASIS

a) Scanner design, X-Ray Generator and Tube:

1. Scanner:- Whole body spiral CT Scanner (Multi slice Technology) of latest technology and currently under production.

2. X-Ray Generator

(a) It should be hi-frequency generator with output of 40KW

(b) KV ranges 90 to 130 K.V.P

3. X-Ray Tube

(a) X-Ray tube anode heat storage capacity of at least 3.5 MHU

(b) Peak anode heat dissipation rate of at least 700KHU/minutes.

(c) The guarantee of X-Ray tube should be for completer warranty period of 5 year un conditioner

4. Gantry and Scanning table:-

(a) Gantry aperture of at least 70 cm.

(b) Gantry tilt of +30 and -30 degree. Tilted Helical in Multi Slice Mode will be preferred.

(c) Scan field of view 50 cm or more.

(d) Scanning table load of at least 200 KG.

(e) Metal free scan able range scanogram/topogram of at least 150 cm.

(f) The table should have facility of emergency manual traction.

(g) The table should have a carbon fiber table top.

(h) 3-D laser light for positioning.

5. Detector system:-

Solid stat detector should be provided. Mention The actual compound. The detector should be free from frequent calibration. The detector should have capability to acquire minimum 16 slices at a time. Specify the number of data channels.

6. High contrast resolution:- specified in terms of line pair per cm, which should be minimum 15 LP/cm or more for Axial and helical scanning.

7. Low contrast resolution :-please specify low contrast resolution at 16 cm/20cm catphan phantom

8. Scan time:- the minimum scan time for 360° rotation should be 0.75 seconds or less.

9. Slice thickness it should be sub millimeter to 5mm or more.

10. Spiral mode specification :

a) continuation data acquisition with overlapping slices.

b) Gapless spiral length of at least 100 cm or more.

c) maximum helical for single continuous spiral of at least 100 sec.

d) Spiral mode must be extended spiral, back to back spiral and multi spiral

e) bolus triggered and bolus chase spiral acquisition should be available

11. Image processing system:-

a) main CPU should be at least 32 x 2 bit or more with RAM of at least 2GB.

b) image reconstruction matrix of at least 512 x 512.

c) display matrix of at least 1024 x 1024

d) High resolution medical grade LCD/TFT color monitor of at least 19 inch's or more.

12. Image storage :

Total image and raw data storage capacity of at least 100GB

13. Image archiving :

Image archiving in C.D RW/ DVD RW supply 100/CDR/W/50 DVD with the unit in addition CD/DVD archival with inbuilt DICOM format is required.

14. Image transfer/ Networking:

Unit should have dicom interface for transmitting images and information in dicom standard and also to permit communication between devices of various manufactures

15. Standard Software:- Routine software for image evaluation and display. It should have minimum of 3 region of interest, angle, distance, measurement, histogram, profile, symmetry, comparison, variable multiple, image display with independent window setting, image annotation and labeling, image addition and subtraction, volume artifact and beam hardening reduction capability, reversal of gray scale value, image filter function, reference scale, and topograms evaluation etc.

ADDITIONAL SOFTWARE:

All software is to be available with system main console/ workstation. The firm not having the facility of post processing of raw data on main console should provide the same on the workstation.

- a) 3-D display programme 3-D display of services. Real time 3-D VRT,MPR, MIP, 3-D SSD/MPVR should be provided.
- b) CT based DSA is required on the system as standard for neuro scan
- c) Real time reforming of secondary view. Reconstruction should be possible in saggital/coronal/paraxial/ oblique and irregular (curvilinear) plains.
- d) Dental CT
- e) Outline should be determined in topogram or into the saggital images.
- f) Zooming by reconstruction of raw data.
- g) Image planning and scroll zooming should be possible
- h) Cine display of images should be possible
- i) CT angiography with 3D capability and volume rendering capability.
- j) Contrast monitoring software for matching of scan timing to peak bolus phase/bolus tracking facility. Multiple point Bolus Tracking preferred.
- k) Virtual Endoscopy (Fly through virtual) with volume rendering technique
- l) CT perfusion facility for head and body.

B) ESSENTIAL ITEMS TO BE INCLUDED WITH THE UNIT:

- i) Pressure Injector :- CT compatible pressure injector with remote control of standard make, least model with interface software and 50 disposable syringes compatible with the pressure injector (Model CT AT2 Meditron Brand Single Head).
- ii) The firm should supply DICOM dry imager with a spatial resolution of at least 300 PPI/DPI for film of size 14"x17" non sensitive to light. The printer should have dry direct digital printing technology (Model AXYS-AGFA Make).

III) OTHER ITEMS:-

- a) Lead glass of 100x150cms or more with lead equivalent as per ICRP or AERB recommendations.
- b) Two sets of patient positioning accessories namely head holder(Flat, Elevated & Coronal), Positioning Kit, mattresses, hand rests, knee rests etc.
- c) Servo voltage stabilizer of standard make of 100 KVA or more.
- d) UPS system of 10 KVA capacity or more with MF batteries compatible for the main computer system, digital imaging process and provision of light in console room and gantry room with backup time of 30 minutes.
- e) Integrated intercom and automatic patient instruction system should be provided.
- f) Film Digitizer (Model : e-ray box- Med Synaptic make)(optional) .

17. SUPPLIER SHOULD SIMULATANEOUSLY ENSURE:

- i) Guarantee and Warrantee: Permanent guarantee for software updating free of cost. The equipment should be guaranteed against all manufacturing defects for a period of 5 years from

the date of installation/demonstration including X-Ray tube (unconditional warranty for X-Ray tube) The guarantee should include all the items (including air conditioning, UPS with batteries, Dry Imager, Pressure Injector) supplied by the firm.

ii) Downtime: Forenoon call must be attended on the same day. However after noon calls will have to be attended to next day early in the morning failing which a penalty of Rs. 51000/- per day will be levied. Also additionally the penalty in form of extension of warranty period double the period of downtime shall also be applicable.

iii) Uptime Guarantee: The seller should provide an uptime guarantee of 95% or more of the calendar year including Sundays and holidays.

iv) firm will attend four quarterly preventive maintenance calls per year and unlimited breakdown calls or emergency calls.

v) Training: Training should be provided for two doctors for two weeks at a reputed hospital. The company will also post an application expert for a period of two weeks from the date of installation for learning operational work on machine.

vi) Installation: Specify the number of installation of quoted unit in India. Also confirm the technical expertise to maintain the equipment available in the region.(Delhi/Punjab/Haryana/Chandigarh). The firm must have sufficient number of trained engineers for after sales service posted in the region (Delhi/Punjab/Haryana/Chandigarh) who have obtained training on the equipment in country of origin. Provide engineer list.

vii) Spare: Availability of the spares should be guaranteed for the period of 10 years after installation.

viii) Firm must give certificate of satisfactory performance from the actual users. Firm must have installation in the region in Govt./Semi-Govt/Autonomous bodies/reputed institutions of the quoted model/similar type of model and their offices in the region (Delhi/Punjab/Haryana/Chandigarh).

19. SERVICE CONTRACT: The AMC/CMC charges for Main equipment including X-Ray Tube, Air conditioners, voltage stabilizers, UPS including battery, Pressure injector Dry imager etc for next 5 years after the expiry of warranty should be offered.

TERMS AND CONDITION OF AMC/COMPREHENSIVE MAINTENANCE SERVICE CONTRACT

- A) Downtime: Forenoon call must be attended on the same day. However afternoon calls will have to be attended to next day early in the morning failing which a penalty of Rs. 5000/- per day will be levied. Also additionally the penalty in form of extension of AMC/CMC period double the period of downtime shall also be applicable.
- B) Uptime Guarantee: The seller should provide an uptime guarantee of 95% or more of the calendar year including Sundays and holidays.

- C) Firm will attend four quarterly preventive maintenance calls per year and unlimited breakdown calls or emergency calls.
- D) Payment will be made on quarterly basis. The firm will submit the bills on completion of 3 months after satisfactory service of the equipment.
- E) AMC/CMC will be renewed every year, but it will be treated in continuation unless cancelled in writing.
- F) In case of AMC the supplier will provide the cost of the X-Ray Tube, which will be frozen for next five years after the warranty of 5 years.

INSTRUCTIONS TO THE SUPPLIER/ VENDORS:

1. All companies must give product data sheets confirming the specifications along with the tender.
2. the compliance statement must be filled properly corroborating it with page No. where it is listed in product data sheet.
3. Custom clearance to be done by the firm. The Institution will provide only necessary documents. Transportation of the equipment to site of installation and transit insurance charges will be borne by the firm.
4. The prices of the main CT unit and turnkey site preparation etc should be provided separately. For cost comparison & arriving on lowest. Bidder, the total cost of the equipment + site Preparation +CMC wet 6th to 10th year will be considered. Optional items cost will not be considered for price comparison.
5. Obsolete model will not be accepted. The bidder should indicate the year in which their offered model was launched.
6. The unit should be duly certified from the standard international bodies such as FDA/CE/IEC etc. The offered model should be AERB approved and company shall assist the hospital in getting the installation site approved from AERB.
7. **Third Party Inspection :** The firm should get the third party inspection done before dispatch of the equipment at its own cost certifying that the equipment is brand new and as per NIT/specifications.

SITE PREPARATION:

The proposed site should be inspected by the supplier and certified that it is satisfactory for installation of the machine. The site details can be obtained from the Hospital/department. The work involves renovation of the existing building area/new construction of approx 1500 square feet as per requirements for the gantry room, console room, computer room, reception, patient preparation site, reporting room, toilet, record room, AC room, doctor's room, electrical appliance housing rooms etc.

CIVIL WORK:

- All the specifications of the flooring, wall finishing is to be followed for purpose of construction/renovation. However, the wall should be finished with plastic emulsion

except those of gantry room and console room where glazed tiles should be provided on the wall up to door levels.

- The thickness of the wall should be kept as such to take precautions against radiation as per ICRP/AERB recommendations for existing building area/new construction by providing lead lining of walls of increasing the wall thickness.
- Gypsum board false ceiling with oil bound distemper paint in all rooms except store and AC room.
- Floor: Vitrified tiles to be used in the entire area.
- All the safety precautions including lead lining on doors of gantry room and on partitions between gantry and console shall be observed by the supplier as per ICRP/AERB recommendations.
- All the doors should be provided with hydraulic type of door closures.
- All the doors should be provided with locks of standard make.
- Counter with reception window to be provided.
- Furniture of standard make for gantry, console, computer, patients preparation, waiting hall and store rooms should be provided. Storage almirah (2 No) of standard make for storing patient record.

ELECTRICAL WORKS:

- The firm shall be required to specify the total load for entire equipment, the air-conditioning unit, room lighting and the accessories, if any. The connection will be provided by the Indenting Department to distribution panel. The distribution panel should have switch gear of standard make to be provided by the firm.
- All light fixtures should be fluorescent tube with reflector of standard makes.
- Light power socket should be provided in each room and three in gantry room.
- Light with dimmer starter to be provided in console room and gantry room.
- Two independent earths to be provided for the equipment.
- Switches and all the electrical work for lighting should of standard make with copper conductor(please specify makes)

AIR CONDITIONING:-

- The whole complex is to be air-conditioned by the using air cooled packaged unit of standard make. Central air conditioning of the building with A.C of 20 ton capacity with suitable voltage stabilizer should be provided.

FIRE FIGHTING SYSTEM:-

Comprising of:-

- i) Hooter
- ii) Smoke Detector.
- iii) Adequate number of fire extinguisher to be provided.

DEFECT LIABILITY:

The civil and allied works to be executed by the firms shall be guaranteed for a period of five years from the date of completion against any defective material/workmanship.

GROUP—D----- ANAESTHESIA

1. Anaesthesia machine

Specifications:

- a) Compact three gases (O₂, N₂O and air) Anesthesia machine ergonomically designed, for adult to Paediatric application should meet international standards.
- b) Should have separate provision for connecting central pipe line supply and cylinder supply with pressure indicating gauges for both cylinder and pipe lines supply of each gas.
- c) Should have preferably two each or at least one each cylinder yoke for oxygen and nitrous oxide with one each for pipe line connection of oxygen, nitrous oxide and air.
- d) Cascade double tube bobbin type Rota meters for O₂, N₂O and air. Should provide low flows with minimum flows of O₂ @ 50-75ml/min and automatic adjustment to provide approximately 33% O₂ in the gaseous mixture. The upper end of the bobbin at the highest level should be clearly visible.
- e) Single canister entirely autoclavable CO₂ absorber with removable un autoclavable parts like manometer and oxygen sensors. Absorber system should be automatically in the event of removal of canister during clinical procedures.
- f) Should have facility of delivery minimal basal flow of oxygen on switching on the anesthesia machine by system on/off switch. Fresh gas flow outlet should be user friendly & placed at the front of the machine.
- g) Safety features should include audio-visual alarm system for oxygen failure. Basic flow of oxygen according to international safety guide lines & Mechanical Hypoxic Guard besides other standard safety features.
- h) Unlock able oxygen flush device to delivery oxygen flow of approximately 40 liter/min, position of which should be user friendly and should be encased so as to prevent accidental use.

- i) Provision of at least 3 temperature, pressure and flow compensated vaporizers one each for halothane, Isoflurane and Sevoflurane, with key filler facility and selectatec compatible with automatic interlocking facility. All the three vaporizers needs to be supplied with machine and maintenance free for 5 years.
- j) Conveniently placed back mount and APL valve assembly. Separate facility for easy changeability between different types of breathing circuits (Bains & Magills) and systems (Circle absorbers).
- k) Extra auxiliary connections one each for oxygen and air.
- l) Extra flow meter mounted on basic structure for oxygen therapy.
- m) Minimum of three drawers to keep accessories; foldable table-top by the side of the machine; good quality castors with locking systems and conveniently placed handles for easy movement of the machine.
- n) Standard re useable Magill's circuit-two circuits with three reusable face masks each of sizes 0,1,2,3,4 & 5 and 2 nos of breathing bags.
- o) Re-useable closed breathing circuit corrugated hose with appropriate Y-connections-one each for adult & Paediatric.
- p) Anesthesia ventilator should be oxygen or air gas driven, electronically controlled ventilator, operable on 220 volts, 50 Hz AC with a battery back up of at least one hour, having both volume and pressure controlled ventilation modes alongwith SIMV, SMMV, PSV, CPAP & PEEP, meant for both adult and Paediatric patients of smallest size. It should incorporate large, colored touch screen and wheel control based adjustments. Automatic efficient alarm used for efficient risk free usage. Integrated FiO₂ monitor and Spiro meter, inverse I:E ratio facility. PEEP referenced trigger facility. Automatic tidal volume adjustment as fresh gas compensation. Automatic switch over to volume cycle mode if apnoea alarm is triggered. At least two waveforms for pressure volume loops with wave form freezing facility. Adult and Paediatric default settings with provisions to change according to the patients. Should automatically change to spontaneous mode in the event of switching over from controlled to spontaneous mode in the close circuit and the event of switching over form controlled to spontaneous mode in the close circuit and vice versa.

Mountable on both right and left sides of the basic machine. Should provide adjustment with digital displays for tidal volume, respiratory rates, sighs, I:E ratio, pressure limits, pressure control and other relevant parameters.

- q) Should have electroluminescent/LCD/TFT display of set data with alarm setting for low high values and disconnection alarm.
- r) The machine should be certified by any International agency for safety standard, should be CE marked and FDA approved. Basic structure, anesthesia ventilators and vaporizers should be manufactured by the same manufacturer for proper maintenance and back up services.
- s) Should provide both active & passive scavenging facility.
- t) Should have at least five electrical sockets for various attachments.
- u) All accessories usable or reusable should last for at least warranty period.

NOTE:- This is to certify that above specification is of generalized nature and item is subject to sample approval/demonstration and machines with higher specifications will be preferred.

SPECIAL NOTE:

1. Catalogue of equipment and its accessories in original is must.
2. Prior Demonstration of equipment is must.
3. Warranty for 2 years.
4. Ventilator, vaporizer, machine should be of same make.
5. List of installation in India & their performance certificate from user is must.
6. AMC for 5 years after warranty period.
7. Catalogue of equipment and its accessories in original is must.

2. Patient monitoring system-

1. Advanced patient monitor having integrated basic measurements and features with capability to provide additional clinical measurements by attaching single parameter modules.
2. They should have a bright, highly visible, 10” or more TFT multicolored display for easy viewing with inbuilt battery backup of approx. 2 hours.
3. Should have the capability to display at least 6 real-time waveforms alongwith related numerical parameters on a single screen.
4. The size of numeric should be preferably adjustable, capable of becoming bigger for viewing from a very long distance by the user.
5. The monitor should have the capability to be operated to selectable user interface and must have touch screen operation alongwith adjusting knobs for parameter selection.
6. Should have the capability to provide:
 - i) ECG-with ST analysis at least 2 leads continuous display and facility of 12 leads diagnostic ECG.
 - ii) NIBP-Interval for measurement should be electronically programmable and manual measurements should also be possible. Neonatal, Paediatric and adult cuff should be provided with each monitor.
 - iii) SpO2-Should provide oxygen saturation percentage level alongwith waveform. It should have neonatal and pediatric probe also.
 - iv) IBP-Minimum two IBP and upgradeable. Should have selectable label capability with systolic, diastolic and mean pressure being displayed. The cables for disposable pressure transducer should be provided.
 - v) Temperature-1 with each monitor. Should have dual digital display for skin and core temperature.
 - vi) ETCO2 (Micorstream)-1 with each monitor.
- 7 The monitor should have preferably configurable and changeable screen configuration.
- 8 The display setting should have many user define setups variable as per application for flexible use of monitors in various clinical environments.
- 9 Should be capable to display beat to beat event trends for all monitored parameters.
- 10 Should have the capability to provide review of events based on the events defined by the user.
- 11 The monitor should have facility for up gradation for advanced modules.
- 12 The firm will supply the wall mounts alongwith the Monitors.
- 13 Monitors shall be connected to the Central Nursing Stations.
- 14 The monitor should have a audio visual alarm, the lamp should glow indicating from a distance the seriousness of the alarm.

Note:-

1. Firms quoting should have wide spread network for service as repairs.
2. Warranty for 2 years.
3. Should be able to take undertaking for providing 5 years service contract after expiry of warranty period.
4. Installation demonstration of the equipment should be included in the offer.
5. Above are minimum requirements and offers with additional features shall be considered.
6. Rates of AMC & CMC should be quoted separately. The same will be considered for the evaluation of the Tendered Bids.

CENTRAL MONITORING STATION FOR MULTIPARA MONITOR

1. Should have capability of monitoring at beds on central station with at least two waveforms from each bedside being viewed. Additional parameters to be displayed in numeric form.
2. Should have dual displays, one for continuous display of all beds and other for trend review full disclosure etc.
3. Size of both the displays should be at least 22" flat screen TFT.
4. Should have facility for alarm review capability of a minimum of two waveforms per event.
5. Should have storage of minimum of 40 events.
6. Should provide multi-lead arrhythmia analysis. Arrhythmia algorithm should be accurate and validated against AHA/MIT tapes.
7. High Density Laser printer should also be included for printing of data including 'Holter like' full disclosure reports and vital sign data from bedside.
8. Should have 24 hour full disclosure for atleast three waveforms.
9. Should have facility for upgrading remote access of patient data including waveforms and Numerics
10. Remote on line patient data should be viewed at Consultants residence through modem/HIS/Internet/Broadband upgradeable. The central station shall be HL7 compatible.
11. Should also include viewing station for viewing this data which should be minimum Core 2 Duo Processor with 300GB HDD and battery for mobility.
12. Suitable rated UPS of 30 minutes backup to be provided for central station. ISO, CE and US FDA approved
13. The quoted model must be working in at least 10 reputed Govt Hospital in North India i.e. Delhi, Punjab, Haryana, Chandigarh. The requisite certificate from concerned user must be enclosed.
14. The quoting firm must enclose only original literature/catalogue and no photocopy/computer printout will be accepted. The tender will be rejected from the firm who enclose photocopy/computer printout.

3. BED SIDE CARDIAC MONITORS:

1. Should have facility for 12 beds.
2. Bed side monitors a semi modular or modular system and compatible and interchangeable between the monitor making other parameter available on every bed is preferred.
3. The monitor should have minimum 12" flat panel colour (nonfade) display (both wave form and numerical form.) Touch screen display is preferable
4. Capability to display at least 6 real time waveform with alpha numerical parameter (adjustable size)
5. configurable and changeable screen configuration (10 user defined set ups)
6. capability to review record of events.
7. capability to attach RS 232 devices.
8. Trace speed 6.25 mm to 50 mm per second. Each monitor should be quoted with the following parameters.
9. Should display upto 12 lead ECG for easy ST reviewing.
 - a) ECG/ Respiration parameter : 1
 - b) SPO2 1
 - c) IBP (On 2 nos.)
 - d) NIBP : 1
 - e) Heart rate display visual and audible (Volume adjustable) Alarm limits 20-300 bpm.
 - f) To have 2 way ECG communication (ECG wave form if other bed displayable)
 - g) Re-chargeable battery inside every monitor with battery life upto 4 hours at least after full charge.

10. Should include hemodynamic calculations and vital sign and graphic trends.
11. Trends should be automatically stored for at least 24 hours (at least one minute intervals)
12. Monitor should have capability of 12 lead ECG with 5 lead cable (by EASI method)
13. Monitor should be upgradable for the parameter.

Note:

- a) Systems with flexibility for upgradability for further development (addition/ deletion) shall be preferred.
- b) Firms quoting should have wide spread network for service and repairs located in Haryana, Delhi or Chandigarh.
- c) Should be able to take undertaking for providing 5 years service contract (both CMC/AMC) after expiry or warranty period which should be of 2 years.
- d) One additional set of
 1. Patients leads (12)
 2. SPO2 Cables (12)
 3. NIBP Cables(12)To be quoted as part of offer
- e) Circuit diagram of the system to be provided along with offer. Suitable online UPS (2000 VA) should be provide alongwith offer.
- f) Installation / demonstration of the equipment must be included in the offer. Firms not giving demonstration of the equipment must be included in the offer.
- g) System should preferable be FDA approved, CE marked and should meet all international safety standard.
- h) The quoting firm must enclose original detailed catalogue of the equipment.
- i) CVT of a standard make of (like Bhurji, Logicstat etc.) 300 VA to be provided as a part of offer.
- j) All electrical fittings (minimum 6 electrical points 15 amp/5amp) for bed side monitor system and central station to provided along with.

