

All India Institute of Medical Sciences

Veerbhadra Marg, Pashulok,

Rishikesh-249203



Tender document for procurement of
Establishment of Cath Lab for Cardiology
AIIMS, Rishikesh

Ref. No.	:	24/Cardio/297/2017-Rish(Admn)
Publishing Date	:	22/01/2018 at 9.00 AM
Pre-Bid Meeting	:	13/02/2018 at 3.00 PM
Bid Submission Start Date	:	18/02/2018 at 9.00 AM
Last Date of Bid Submission	:	07-03-2018 at 3.00 PM
Bid Opening	:	08-03-2018 at 3.30 PM

Tender documents may be downloaded from institute's web site www.aiimsrishikesh.edu.in (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>

TENDER NOTICE

**Establishment of Cath Lab for Cardiology
AIIMS, Rishikesh, Virbhadra Marg, Rishikesh, Dehradun
Dated:22/01/2018**

1. E-tenders in Two Bids (Technical & Financial) are invited on behalf of the Director, All India Institute of Medical Sciences, Rishikesh from interested and eligible manufacturer or their authorised distributors/dealers, for **establishment of Cath Lab for Cardiology** at **AIIMS Rishikesh**.
 2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
 3. The complete bidding process is online. Bidders should be possession of valid digital Signature Certificate (DSC) for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0135-2462915.
 4. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.
 5. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
 6. Hard Copy of original technical bid with earnest money deposit and tender fee etc. must be delivered to AIIMS, Rishikesh on or before last date/time of Bid Submission as mentioned above. The bid without EMD and tender fee will be summarily rejected. The scanned copy of the EMD and Tender fee should be attached in the technical bid.
 7. The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.
- The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.**
8. Any future clarification and/or corrigendum(s) shall be communicated through Administrative Officer on the AIIMS, Rishikesh website: www.aiimsrishikesh.edu.in. And other Central Government Procurement Websites (*subject to its access of AIIMS Rishikesh*).The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only these bids, taking care of such corrigendum(s) shall be considered for finalisation of the tender.
 9. Bidder should necessarily enclose a covering letter mentioning a summary of applied document with proper numbering. Secondly, bid should also attach a compliance sheet as per specification mentioning that they are complying to all specification or have any variation.
 10. The pre bid conference would be held on **13/02/2018 at 03.00 PM** in the office of Tender Opening Room, AIIMS, Rishikesh. All firm's representative who are attending the pre bid meeting, shall produce an authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letter head.
 11. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.

12. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filed up carefully by the tenderer. All corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

13.(i) **Bid Security:** -The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table-I along with the Technical Bid by way of demand draft/FD/TD/CD in favour of "AIIMS, Rishikesh" drawn on any Nationalized Bank/ Scheduled Bank and payable at Rishikesh and must be valid for (6) six month. Bids received without tender fees and Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage. The original EMD will be put in cover-I containing with Technical bid.

- a) The Public Sector Undertaking of the Central/State Govt./MSEs/MSME/Registered with Central Purchase Organization are exempted from furnishing Earnest Money along with tender, **subject to submission of its valid proof.**
- b) The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
- c) Earnest Money deposited with AIIMS, Rishikesh in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.

(ii) EMD is required to protect the purchaser against the risk of Bidders conduct. The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.

14. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.

15. Bidders are not allowed to submit more than one bid for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition to the forfeiture of the EMD.

16. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within twenty-one (21) days from the date of award of this tender in his favour and also required to furnish the **Security Deposit @ 10%** of contract value in the form of FD/BG/TD/CD for **three months extra of the contract period** from any Nationalised/Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above after its validation for the required period. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 21 (twenty-one) days after the issue of **Letter of Award** of Work, his bid security (EMD) shall be forfeited and award of tender in suppliers favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Rishikesh.

17. The EMD/PBG shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.

18. The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh for a period of 180 (one hundred eighty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law.

19. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for Clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.

20. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions of the contract and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.
21. The competent authority of AIIMS, Rishikesh reserves all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any administrative term and condition/specifications of the tender enquiry after due discussion in pre-bid conference. This will be communicated and shown over the website of the Institute. No representation will be considered after pre-bid meeting and **bidders may ensure its queries only in pre-bid meeting**. AIIMS, Rishikesh also reserves the right to reject any bid which in his opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.
22. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
23. The tender form is not transferable.
24. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
25. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the procurement and execution of this Tender.
26. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site.
27. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged in addition to the cost of re- tender. The supplier is required to provide the demonstration of equipment at AIIMS premises to the AIIMS representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the AIIMS, representative.
28. In case the bidder on whom the supply order has been placed, fails to make supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Rishikesh) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
29. Where the specifications are as per tenderer's range of products the tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as given below the financial bid.
- 30.** It must be mentioned clearly whether bidder is a manufacturer/sole distributor/ sole agent for the items for which he is quoting.
- a. **Manufacturer** must add a certificate that item(s) is manufactured by them as per range of products.

- b. **Sole Manufacturers** must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
- c. **Authorized agents** must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals signed by a competent person and comes in proforma given in attach must duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs. 10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.

31. The bidders should have furnished a copy of GST/S.T. /C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected.

32. **Turnover provisions:** - (i) The tenderers should submit along with the tender, a photo state copy of the last three years Annual Accounts with Audit certificate by Chartered Accountant, Income Tax returns and a copy of current valid income tax clearance certificate (IT CC), otherwise bidder will not be considered for administrative evaluation (in evaluation of Technical bid) and will be declared **disqualified** in technical evaluation.

(ii) In case of bidder falls under Section 44AD/44ADA/44AE of Income Tax shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.

(iii) In case of supplier is an Indian Agent, the firm can submit copies of purchase orders issued in favour of firm (*As the payment is made through LC directly to foreign manufacturer and equipment payment does not exist in the book of account of the supplier*) in support to its turnover whatever amount is getting short.

(iv) There will be relaxation on turnover on *case to case* basis for **Start-up firms** registered by Government of India under Start-ups scheme as per orders of Ministry of Commerce, Government of India.

33. **Sample/demonstration:** - In case, the item required prior submission of sample/ performing demonstration, tenderer will have to submit sample/perform demonstration of the equipment/item to the competent authority of the institute, the bidder will have to born all the expenses for the same. Non submission of sample/non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.

34. The tenderer hereby guarantees that the equipment supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The date of manufacturing of the equipment/goods supplied will not be more than 3 (Three months) old. The tenderer will have further guarantees that the said equipment would continue to conform to the description and quality aforesaid for a period of five (5) years guarantee period (As per MoH&FW guidelines), from the date of installation of the said equipment to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment be discovered not to confirm to the description and quality as required as per specification or not giving satisfactory performance or have deteriorated, the decision of the Purchaser in that behalf shall be final and binding on the tenderer and the Purchaser shall be entitled to call upon the tenderer to rectify the equipment or such portion thereof as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the tenderer and in such an event, the above mentioned warranty period shall apply to the equipment replaced from the date of replacement thereof. In case of failure of the tenderer to rectify or replace the equipment, within specified time, the purchaser shall be entitled to recover the cost with all expenses from the tenderer for such defective equipment.

35. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention

whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original, failing which, tender may be disqualified.

36. Force Majeure: Any failure or omission to carryout of the provisions of this supply by the supplier shall not give right for any claim by supplier and purchaser to one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.

37. The equipment installed should be up for 95% of the total warranty time. If the equipment is down for more than 5% suitable action shall be taken against the supplier including imposition of penalty as deemed fit.

38. If there is a close system the tenderer shall ensure and will have to submit an affidavit on Indian Non Judicial stamp paper of Rs.10/- along with technical bid that spare parts and consumables for these equipment's/instruments/item will be available at reasonable fixed rates for next 10 (ten) years, such rates should not be more than the rates supplied to institutes of national importance.

39. The successful Bidder shall at all times agree to indemnify and keep indemnified the purchaser against all losses, damages which may arise in respect of action/inactions of such Bidder or breach of any term of this tender by such Bidder. All claims regarding indemnity shall survive the termination of the contract with such Bidder.

40. In case the vendor fails to supply the spare parts or fails to provide the agreed maintenance during the prescribed period, as per the terms of contract, the purchaser is automatically entitled to procure the required parts and hire services from the market at the risk and cost of the vendor, such inability of bidder will entail forfeiture the security deposit. The purchaser also reserves the right to terminate the contract on immediate notice, if the vendor fails to comply with this clause for more than one instance.

41. Liquidated damage/demerge: - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited. The supply of equipment must be in single consignment, inclusive of all parts & accessories in adherence to the specification so as to make the equipment fully functional at the time of the installation. No installation repeat shall be signed in case of absence of any part as per the specification.

42. Legal Jurisdiction: -The Courts at Rishikesh/ Dehradun alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.

Applicable Law:

43. The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.

44. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Rishikesh/Dehradun, Uttarakhand India only.

45. Except as otherwise provided under this Contract for immediate termination of the Contract, in the event of a disputes which may be arising out of the execution of the tender contract, the matter will be referred to the Deputy Director (Administration). Appeal against the decision of the DDA will lie to the Director, AIIMS Rishikesh and his decision shall be final and binding upon both the parties.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

(B) Financial terms and conditions

1. Rates are strictly required to be offered/quoted on the prescribed **“Financial Bid format”**. Financial bid submitted without prescribed format may not be considered and will be deemed improper subject to the condition that there is a requirement to mention other item which are not mentioned in the said format.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for AIIMS Rishikesh (Site of installation/Use). To sum up the rates should be quoted for establishment of complete cath lab. Rates should be mentioned both in figures and in words. The offer should be typed or written in Ink Pen/ Ball Pen without any correction. Offers in pencil will be cancelled. Telegraphic/ Telex/ Fax offers will not be considered and cancelled straightway.
3. The supplier has to submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that the bidder has not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the AIIMS, Rishikesh. If such affidavit is not submitted, tender will be out rightly rejected.*(Part of technical bid)*
4. If the price of the contracted articles is/ are controlled by the Government, in no circumstances the payment will be higher than the controlled rate.
5. Tender will be regarded as constituting an offer open to acceptance in whole or in part at the discretion of the competent authority of the institute for a period of 180 days (6 months) valid from the date of opening of the tender by the committee.
6. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.
7. Tenderer shall have to provide complete warranty for all equipment's for 5 (five) years & followed by CMC for 5 (five) years of the equipment's and other items installed in the CCU. Financial bid should be quoted accordingly. In this regard, the tenderer shall submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that bidder will provide complete warranty for entire equipment's installed in the Cath Lab for 5 (five) years & CMC for 5 (five) years of the entire items and equipment's.
7. **Tender Currencies:**
 - a. The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees. Further, imported goods to be imported and supplied by the bidder are also required to be quoted in Indian Rupees.
 - b. For imported goods, if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed /undertaken in India.
 - c. Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.
8. **Tender Prices:** While filling up the columns of the Financial Bid, the following aspects should be noted for compliance: -
 - I- ***For domestic goods or goods of foreign origin located within India, the prices in the corresponding Financial Bid shall be entered separately in the following manner: -***
 - a. The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, GST/CST/ VAT, CENVAT, Custom Duty,

Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc.;

- b. Any sales tax or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c. Charges towards Packing & Forwarding, Inland Transportation, Insurance, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Financial Bid;
- d. The price of Incidental Services, as mentioned in List of Requirements and Financial Bid;
- e. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- f. The price of CMC **after warranty period**, as mentioned in List of Requirements, Technical Specification and Financial Bid.

II- For goods offered from abroad, the prices in the corresponding Financial Bid shall be entered separately in the following manner: -

- a. The price of goods quoted FOB port of shipment, as indicated in the List of Requirements and Financial Bid;
- b. The price of goods quoted CIF port of entry in India as indicated in the List of Requirements and Financial Bid;
- c. The price of goods quoted for delivery at AIIMS, Rishikesh as indicated in the List of Requirements, Financial Bid and Consignee List;
- d. Wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported;
- e. The charges for Loading/Unloading, Inland transportation, Insurance and other local costs, Incidental cost to delivery of the goods from the port of entry in India to AIIMS, Rishikesh, as specified in the List of Requirements and Financial Bid;
- f. The charges for Incidental Services, as in the List of Requirements and Financial Bid;
- g. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- h. The price of annual CMC,after warranty period as mentioned in List of Requirements, Technical Specification and Financial Bid.

9. Additional information and instruction on Duties and Taxes: If the Bidder desires to ask for excise duty, sales tax/GST/CST / VAT/ CENVAT, Custom Duty, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

10. Excise Duty:

- a. If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are full and final and no claim on account of excise duty will be entertained after the opening of tenders.

b. If a Bidder chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the Bidder must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.

c. Subject to sub clauses (i) & (ii) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the AIIMS Rishikesh by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

11. **Sales Tax:** - If a bidder asks for sales tax/GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax/ GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract.

12. **Octroi Duty and Local Duties & Taxes:** - Normally, goods to be supplied to Government departments against Government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned Government department. Keeping this in view, the supplier shall ensure that the goods to be supplied by the supplier against the contract placed by the AIIMS, Rishikesh are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the AIIMS, Rishikesh. However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the AIIMS, Rishikesh to enable the AIIMS, Rishikesh reimburse the supplier and take other necessary action in the matter.

13. **Customs Duty:** In respect of imported goods offered from abroad, the bidder shall specify the rate as well as the total amount of customs duty payable with Custom Duty Exemption Certificate, if applicable, on the quoted goods in the Financial Bid. The bidder shall also indicate the corresponding Indian Customs Tariff Number applicable for the goods.

a. For transportation of imported goods offered from abroad, relevant instructions as incorporated shall be followed.

b. For insurance of goods to be supplied, relevant instructions as provided shall be followed.

c. Unless otherwise specifically indicated in this NIT document, the terms FCA, FOB, FAS, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.

d. The need for indication of all such price components by the bidders, as required in this clause is for the purpose of comparison of the tenders by the purchaser and will no way restrict the AIIMS, Rishikesh right to award the contract on the selected bidder on any of the terms offered.

14. **Indian Agent:** - If a foreign bidder has engaged an agent in India in connection with its bid, the foreign bidder, in addition to indicating Indian agent's commission, if any, shall also furnish the following information:

a. The complete name and address of the Indian Agent and its Permanent Account Number as allotted by the Indian Income Tax authority.

b. The details of the services to be rendered by the agent for the subject requirement.

- c. Details of Service outlets in India, nearest to the AIIMS, Rishikesh to render services during Warranty and CMC period.

Firm Price:-

- a. Unless otherwise specified in the NIT, prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- b. However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated will apply.

15. **Conversion of tender currencies to Indian Rupees:** - In case the bid document permits the bidders to quote their prices in different currencies, all such quoted prices of the responsive bidders will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the closing exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Opening Date of Financial Bid'.

16. **Payment terms:** -If the supplier supplied the requisite item within stipulated time and installation is pending on the part of AIIMS Rishikesh on various reasons, up to 90 *per cent* payment against supply can be made by the AIIMS Rishikesh on the case wise only, but will not be considered as precedence in all cases.

(A)Payment Term for Imported goods: For imported goods payment shall be made in the following manner:

a) On shipment: 75 % payment of the contract price shall be paid 60 days after presentation of shipping documents { goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country} and upon the submission of the following documents: -

- i. Four copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- ii. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
- iii. Insurance Certificate;
- iv. Certificate of origin by the chamber of commerce of the concerned country;
- v. Certificate of country of origin;
- vi. Manufacture's / Supplier's warranty certificate;
- vii. Manufacturer's own factory inspection report.

b) On Acceptance: 25 % payment would be made after satisfactory installation, commissioning, demonstration and training, if required on issuance of Inspection certificate by the AIIMS, Rishikesh.

B) PAYMENT TERMS FOR INLAND GOODS

(Seventy-five) 75% Payment of the contract price shall be paid on receipt of goods condition and upon the submission of the following documents: -

- (i) One Original and Four Copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
- (ii) Final Acceptance as per Inspection report issued by faculty.
- (iii) Two copies of packing list identifying contents of each package.
- (iv) Inspection Certificate issued by the user concerned department.
- (v) Final Acceptance Certificate issued by the Institute

On Acceptance: -

- (i) Balance Twenty-Five (25) % payment would be made against 'Final Acceptance Certificate' as per Para (B) (i) &(v) of goods to be issued by the consignee's subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

17. **Guarantee / Warrantee Period:** The Tenderers must quote for 5 years' comprehensive warranty (Including all Spares, Accessories software application, if any and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories software application, if any and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taken into account on basic price and post warranty CMC.

18. **Custom Clearance:** For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concessional rate of duty as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. The supplier undertakes to fully co-operate to avoid any fine, demurrage or other charges and shall indemnify AIIMS Rishikesh in case of any such failure. Transportation of goods up to AIIMS, Rishikesh and its successful installation and commissioning demonstration (and training, if required) is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier and after submission of deposit slips of custom clearance and transportation charges will be reimbursed to the supplier if said provisions are to be shown separately in the financial bid.

19. **L1 Clause:** *L1 will be decided on the basis of total cost of equipment in addition to CMC value of 5 years and turnkey cost, where applicable including all applicable taxes at time of financial bid evaluation of individual equipment. The rates should be quoted separately in .pdf formt*

NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYBALE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC

Note: In case of any dispute regarding award of tender, decision of AIIMS Administration would be final.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

Establishment of Cath lab at AIIMS, Rishikesh

TECHNICAL BID

(In separate sealed Cover-I super scribed as “Technical Bid”)

1. Name & Address of the manufacturer and their authorised dealers/ distributors/Agency with phone number, email, name and telephone/mobile	
2. Specify your firm/company is a manufacturer/ authorised dealer/ distributor/ Agency	
3. Whether the signature on each page has been made by the of bidder or not.	
4. Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5. Have you previously executed CCU/ICU works to any government/ reputed private organization? If yes, attach the relevant poof thereof.	
6. Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in last one year. If you don't fulfil this criteria, your tender will be out rightly rejected.	
7. Please attach copy of last three years' of Income Tax Return	
8. Turnover a. Please attach balance sheet (duly certified by Chartered Accountant) for last three (3) years (Attach copy of average minimum turnover for three years should not be less than 20 crores duly certified by the Chartered Accountant) b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India. c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. d. Start-ups may submit its Start-up Registration for consideration (<i>Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory</i>)	
9. PAN No. (Please attach copy)	
10. GST/VAT/Service Tax Registration Number. (Please attach copy)	
11. Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
12. Power of Attorney/authorization for signing the bid documents (Not required in case of sole-proprietorship.)	
13. Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
14. Please declare that proprietor/firm/company has never been black listed/debarred by any organization. An oath certificate to this effect may be enclosed on Rs.10 notarised stamp paper.	
15. Please submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that they will provide complete warranty for all equipment's/items for 5 (five) years followed by CMC for further 5 (five) years of these equipment's/items.	
16. Please furnished a notarised affidavit on Indian Non judicial stamp paper of Rs.10/- that they will supply spare parts for next 10 years at reasonable price by submission of suitable benchmarks.	
17. Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment in previous 3 years	
18. Details of the FD/DD/TD/CD of bid security (EMD) FD/DD/TD/CD No: Date: Payable at-	Detail of cost of Tender for Rs. 1180/- (if downloaded from website) DD No. Date: Payable at-

Undertaking

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We shall supply the items of requisite quality and quantity at given rate in timely manner.
3. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish within 15 days, Bank Guarantee/ Performance Security after the issue of Purchase Order, as applicable, in the format to be provided by AIIMS Rishikesh in addition to execution of a Contract as pre-condition for obtaining the supply orders.
4. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or is Proprietor or Partner or Director of any firm with whom the Government have banned /suspended business dealings. I/We further undertake to report to the AIIMS Rishikesh immediately after we are informed but in any case not later 15 days, if any firm in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a firm which is banned/suspended in future during the currency of the Contract with you.
5. I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.

(Signature of the Bidder)

Name:

Designation with Seal of the Firm:

“Establishment of Cath Lab”

AIIMS, Rishikesh

Chapter-II (Schedule of requirements& EMD)

Table-I

Details of items & their tentative quantity and EMD

The following work of Establishment of complete Cath Lab on turnkey basis manufactured by Indian/International firms/agencies of repute are required.

S.No.	Item	Quantity	EMD
1	establishment of Cath lab	01 Nos.	INR 21,00,000/-

MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

(Clause 11 (c) of **other terms and conditions** of the tender)

To

The Administrative Officer,
All India Institute of Medical Sciences
Rishikesh

Dear Sir,

TENDER: _____.

we, _____, who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (*name and address of agents*) to bid, negotiate and conclude the contract with you against Tender No. _____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the conditions of tender contract for the goods offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name)

For and on behalf of Messrs. _____
(*Name of manufacturers*)/Principal.

AIIMS Rishikesh tender Enquiry No. F.No 24/Cath Lab/297/2017-RISH (ADMN)
BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC
SECURITY

To

The Administrative Officer
All India Institute of Medical Sciences
Rishikesh,
Virbhadr Marg,
Rishikesh-249201

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called “the contract”). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such a irrevocable bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you unconditionally, on behalf of the supplier, up to a total of. _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of you to first demanding the said amount of guarantee from the supplier before raising the demand with us. You may directly raise the demand with us, without asking the supplier for the same.

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

This guarantee will not be changed due to change in the constitution of the bank or the supplier.

This guarantee shall be valid up to 65 months from the date of satisfactory installation of the equipment i.e. up to --
----- (indicate date).

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

.....
Name and designation of the officer

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

SPECIFICATION FOR 2nd CATH LAB

1) C-ARM/G-ARM MULTI-DIRECTIONAL FLOOR/ CEILING MOUNTED: -

1. The system should have user defined 50 programmed position of the C-Arm and table.
2. Motorized parking of C-Arm away from table for operations on table when C- Arm not in use. C Arm mounting/base should not come in the area of the operation table and operating area.
3. The C-arm should have auto collision protection with patient and the table.
4. C-arm must not interfere with laminar airflow during surging and accommodate planer of min size of 2400x2400 cm on ceiling and OT lights on table in working position or while moving the C arm to different positions.
5. C-arm must not interfere with laminar airflow during surging and accommodate planer of min size of 2400x2400 cm on ceiling and OT lights on table in working position or while moving the C arm to different positions.

2) TABLE: -

1. Floor mounted table with flat table with radiolucent table top and floating functions with rotation from the base.
2. Table should be integrated with the system and should have motorized vertical movement.
3. The table should have Integrated Emergency Stop; all motorized movements (including table), are stopped when the System emergency stop button is pressed. The table should have Integrated Collision detection, all motorized movements (including table), are slowed down or stopped when detects the patient Workflow.
4. The system should have provision for collision protection
5. Table should support wide range of accessories like arm rest, surgicalscreen, hand grips, and one IV pole.
6. Gantry controls, table system controls, Collimation controlsto be mounted on trolley away from table for better flexibility.
7. Table should support patient weight up to 290Kgs with CPR.
8. System should have well designed wire light footswitch for releasing fluoroscopy,
 - i. acquisition and table brakes.
9. Resuscitation should be possible without having to retract the table back on its base
10. Long table top/mattress: mattress should provide high patient comfort for long interventional procedure, made of slow recovery foam with ideal density and thickness.
11. Accessories to be provided for the table and mattress:
 - i. Accessory clamps
 - ii. Detachable radiolucent carbon fiber arm support - 4 Nos
 - iii. IV stand 2 no
 - iv. Catheterization arm support for Radial angiography
 - v. Foot support
 - vi. Head end holder (head fixing aids)
 - vii. Handles with support/ body straps
12. It should have rotating facility

3) X-RAY GENERATOR:

- a. 100 KW or more compatible with high resolution imaging
- b. High frequency X-ray generator with automatic regulation of radiation dose rate for all fluoro DSA and acquisition imaging.
- c. The minimum power rating should be 100 KW OR more at 100 KV compatible with high resolution imaging.
- d. Fluoroscopy exposure and mA should be automatically controlled.
- e. System should have pulsed fluoroscopy system.

4) X-RAY TUBE:

- a. X-Ray tube should be triple focus with high cooling rate to insure continuous operation, capable of pulsed fluoroscopy. Please specify the focal spot size.
- b. The large Focus power output should be 80kW or more. The pulse Fluoroscopy should be offered with pulse rate of 3.75 Frame/sec to 30 frames/sec.
- c. System should work with Lowest levels provided 16 Bit detector with 16 bit image processing for 3D and CT imaging, 5 MHU Anode heat storage
- d. The system should adequate cooling facility for x-ray tubes. Please mention anode heat dissipation rate.
- e. Collimators with motorized transverse shutters and filters should be available. The collimator leaf should be of rectangular type.
- f. The collimator should have integrated dose measurement chamber to display skin dose on the live monitor.

5) RADIATION PROTECTION:

- a. The system should have integrated computer controlled X-ray Beam filtering with at least 3programmable copper filters of various sizes from 0.2 mm to 0.9 mm.
- b. The system should have positioning of collimator blades without radiation.
- c. The system should have monitoring and display of X-ray dose during the patient examination. It should be possible to create a DICOM based dose report of the patient.
- d. System should meet all National & International safety standers, US FDA , European CE& comply with BARC & AERB guidelines.
- e. System should be offered with latest radiation reduction software/hardware like CARE& CLEAR/Clarity IQ or Equivalent

6) Collimator:

1. At least one collimator per plane to be provided, preferably with IRIS/square type/Rectangular arrangement.
2. Should have facility for dose measurement chamber in order to display the skin radiation dose on the monitors in the lab.
3. Collimator, should have facility for copper pre filtration for reducing the x-ray dose with automatic cu filter selection depending upon patient thickness.

7) DIGITAL IMAGING SYSTEM:

1. A crystalline silicon flat detector with a diagonal size of least 38 cm and Pixel size should be 160 micron or better.
2. Digitalsystems with acquisition and processing in 1024 x 1024 matrix at 0.5-30 fps with 8/10/12 bit digitization.
3. Image storage capacity of at least 1000000images in 1024 x 1024 matrix at 10/12 bits on the main system disk
4. System should have capability of ECG display on the live image monitor
5. System should have on-line & off-line validated ventricular and coronary analysis (QCA). The software should have Auto calibration facility for Stenosis measurement with geometrical and densitometry calculations. The analysis should be possible from table side in the examination room and from the control room.
6. The full system should have table side control operation with touch screen / knobs for complete acquisition and post processing capabilities.
7. The system should have on-line DSA capabilities with acquisition frame rate of 1 frame/sec to 6 frames /sec or more.

8. Rotational angiography facility with subtraction and reconstruction should be available possible to acquire data with rotation speed up to 45°/sec and acquisition rate of upto 75 images/sec. for artifacts free 3D & CT like images from rotational angiography data.
9. The system should have facility for storage of fluoro loop scene of at least 10 seconds.
10. System should be provided with all advanced 2D and 3D road mapping.
11. The latest complete software and hardware for visualizing stent with extra high- resolution from table side control.
12. The latest complete software and hardware for visualizing stent with the facility of stent enhancement with relation of vessel Lumen –fade in fade out.
13. Separate work station should be provided with at least 3 GB main memory for 3D reconstruction to free the main system for continuation of procedure immediately after displayed both in the control room as well as the examination room. It should be possible to recall & view images acquired in the rotational mode (subtracted & un subtracted) alongside the 3D images. Review of all images should be fast interactive & user friendly in both the rooms. Table side controls for 3D reconstruction and C-Arm positioning with respect to 3D image & selection of 3D image with respect to C-Arm positioning should be provided. The 3D reconstruction should be in true 512 matrix. All options related to 3D (MIP, SSD, VRT, slicing, measurement tool, volume try etc.) should be available. Software to fuse CT, angio & MR images of the same patient at the independent workstation is desirable.

The 3D workstation should be capable of the following functions

- I. 3D reconstruction using SSD, VRT, MIP in true 512 matrix with color display in the control & examination room.
- II. It should be possible to fuse 3D data sets from CT /MRI directly with fluoro images to reduce contrast and radiation exposure
- III. Immediate background transfer of all images as soon as they are acquired, to CD/DVD recording station.
- IV. It should be possible to view dual density objects in one view to differentiate blood vessels from coils and angiography images.
- V. System should be supplied with top of line TAVI guidance package for TAVI procedures Possible to create 3 D image of aortic arch from rotational angio data and automatic marking of landmark like coronary ostium with overlay mode for TAVR guidance.

8) **MONITORS/DISPLAY:**

- a. The monitor display system in examination room should be ceiling suspended and it should be possible to position it on the left or right side of patient table. The monitor should be single high resolution monitor of at least 55” and 8-megapixel resolution to display live, reference, 3D image, hemodynamic data. Two additional monitors of at least 19” to be provided. One for live image and another for waveform display.
- b. Console room should have monitors to display patient demographics, fluoroscopy images and 3D images. All monitors at least 19” or more.

9. **CONTROL CONSOLE:**

1. All system movements of C-Arm, table, image display, image review, image post processing and quantification shall be controlled both by the operator at the table in the exam room and in console room.
2. The system should have facility for edge enhancement, Positive/negative image display, windowing, contrast/brightness, electronic shuttering, image/pixel shifting, vertical and horizontal image reversal, zoom functions. System should have facility to allow overlying of fluoroscopy and reference image with fade-in and fade-out of these images possible.
3. The system should have fast and direct access to all series, single images, in both examination and control room.
4. System should have angle/distance measurement, Image labeling and patient positioning facilities.

10. Work station

- 1) Two DICOM based workstation with 1TB hard disk and medical grade monitor for angio image viewing and reporting away from cath lab. Images should be transferred automatically to these workstations
- 2) Facility for acquired images to be transferred to the workstation seamlessly without interrupting the procedure; there should be 2-way digital image communication between the workstation and the procedure room.
- 3) Should be able to work with the workstation for review of the previously transferred scenes of same patients or other patients while procedure is going on without interruption.
- 4) Work station should be able to archive at least 1000 patients' data with easy irretrievability search by name, date of procedure or cath number
- 5) The system should be able to perform QCA facility from the console as well as Exam room and facility to transfer the scenes from archive to the procedure room. Full quantitative analysis package should be provided. QCA facility should be also available for recorded CD/DVD.
- 6) There should be facility to edit and delete selected scenes archived in the work station
- 7) On CD/DVD with embedded software for reading, with facility for zoom in and out.
- 8) US FDA approved system for recording images on DVD_R/ CD_R with DICOM Viewer in DICOM 3 format having capability of receive and transfer of images from cath lab to remote review station.
- 9) Dynamic viewing of CD images at frame rate of 0-25 frames/sec, single frame step by step, fast forward & fast rewind, zoom in or zoom out
- 10) Image transfer from digital system in background mode without affecting the system operation.
- 11) USB Interface to copy images to memory disk / external hard disk.
- 12) There should be facility to connect the workstation to hospital PACS system of any proprietary item for remote viewing and manipulation
- 13) Should have capability to convert Dicom images into .avi and .mp4 formats with frame editing
- 14) Server Juke box/RAID (5TB) & 1000 rewritable DVD's and 2000 rewritable CD's with separate CD/DVD cover for each CD/DVD of latest configuration & reputed company should be provided.
- 15) There should be additional review workstation with CD/DVD recorder, laser printer and latest generation computer with 24 inch LED monitor with storage capacity of at least 1 terabit memory and 8 GB RAM and with latest most advanced licensed version operating system in Doctor's conference room beside cath lab and it should be similar to workstation in console room having Facility for acquired images to be transferred to the workstation seamlessly without interrupting the procedure; there should be 2 way digital image communication between the workstation and the procedure room.
- 16) The system should be capable of giving still images minimum 300dpi in tiff, PNG and JPG format

11.Cath Lab Recording System/ Hemodynamic Recorder

- 1) The following features should be available in the recorder
 - a) 12 Lead ECG Amplifier with floating input
 - b) At least 2 pressures with floating inputs
 - c) Laser Printer with minimum 16 MB memory with minimum 1200 dpi
 - d) Facility to measure oxygen saturation
 - e) Reusable transducers X 5 No.'s should be provided
 - f) It should be capable for storing and printing pressure waveform and ECG
 - g) Valve area and pullback.
 - h) Spo2, Noninvasive BP display and necessary equipment
 - i) Storage on hard disk: specify storage capacity
- 2) The patient connection box should be easy to install at the patient table in the examination room

- 3) 18" or more color wave monitor (TFT, Preferably LED) for patient dialog and real time waveforms with programmable layout and digital monitoring readout... Two such monitor required. One TFT monitor in examination room and display on single screen 55" display.
 - 4) Radiolucent ECG cables – twoset.
 - 5) Software should be provided for off line hemodynamic calculations such as cardiac output, gradients and shunt estimations.
1. 3D Mensio software for structural heart disease.

12. UPS: -

1. Suitable online UPS of at least 120 KVA capacities with 30 min. battery backup for complete Cath Lab including cine and fluoroscopy. Emergency lighting should also be on UPS.

13. ESSENTIAL ACCESSORIES TO BE SUPPLIED:

- 1) Footswitch for fluoroscopy and acquisition to be provided
- 2) Lead Glass: 100 x 150 cm or bigger with lead equivalent
- 3) Lead aprons: of standard state of the art make, light weight, US FDA approved (Mavig or equivalent) 5 No with hangar
- 4) Thyroid Guard (Mavig or equivalent) 5 No
- 5) lead goggles (Mavig BR 126 or equivalent) 5 No
- 6) Lead lined gloves 5 No
- 7) Head Cap 5 No
- 8) Instrument Table
- 9) State of the art High Pressure Injector compatible with the machine
- 10) Ceiling suspended radiation protection
- 11) Table mounted radiation protection
- 12) All in one 23 inch or more LED Computer (of high quality standard of reputed company) with screen connected server, i7, 8 GB RAM, 2 TB storage (extra workstation as discussed earlier) along with laser pointer with slide changer (wireless) for Doctor's conference room
- 13) **Top end state of the art all in one 23 inch or more touch enabled desktop computers** (all in one with blue tooth mouse and key board)
- 14) One Laser Network Printer of high resolution (at least 1200 dots per inch) with minimum 128MB memory and 1200 dpi should also be offered for high quality image printing.
- 15) Biosafety cabinet for isolation of blood samples for research collaborative projects

14. ABG Machine: US FDA APPROVED with minimum maintainence requirements

15. Defibrillator cum monitor WITH EXTERNAL PACING FACILITY (One in no.) with good quality trolley

- Biphasic Defibrillator cum Multi Parameter monitor for adult and pediatric usage with module to monitor ECG, HR, RR, PULSE, OXIMETRY & NONIVASIVE BP.
- Of approved and reputed make (US FDA approved)/CE.
- Should have external pacing facility.
- Should be compatible with defibrillation using patches.
- 10 sets of defibrillation / pacing patches should be supplied
- Make and specs to be mentioned

16. ACT machine One no. with one set of Cartridge for 100 tests minimum

Make and specs to be mentioned

17. Suction Machine.High quality with battery backup, mounted on stand – One

Make and specs to be mentioned

18. Pulse oxymeter portable

- Adult–2 No
- Pediatrics–2 No
- Neonatal – 1 No

19. Two Multipara monitor (Transport/ wall mounted) with 2 Invasive BP, ECG, Spo2, Noninvasive BP, Respiration, etc.

Make and specs to be mentioned

20. Dual chamber temporary Pacemaker (USFDA approved) (1 in no.) along with 5 compatible temporary pacemaker leads

Make and specs to be mentioned

21. Syringe Infusion Pumps..5 in no.

22. Anaesthesia machine with inbuilt ventilator and compatible monitor:

- One state of the art, 3 gas system with fully loaded ventilator assembly.
- Two vaporizers will be required.
- Complete anesthesia trolley with castor lockable wheels.
- Should be usable for neonate, child, and adult patients.
- Oxygen & Nitrous oxide cylinder along with each machine – One.
- Machine and Monitor both should be US FDA Approved

23. Intravascular Ultrasound System (Integrated with cath Lab optional)

- Latest Generation Intra Vascular Ultrasound Systemwith ICE (Intra Cardiac Echo) compatibility and software for IVUS analysis
- Monitor-SVGA Monitor 19”
- Sterile Field Control Option.
- Compatibility with 9 MHz (for Intra Cardiac), 15 MHz (for Peripheral) and 40 MHz (For Coronary) Catheters.
- Compatibility with Coronary, Peripheral and Intra Cardiac Catheters.
- Automated Lumen and Vessel measurement with Trace assist to aid in diagnosis and Planning
- Dynamic Review
- Long view and cross sectional imaging.
- Single Rotating Transducer driven by a flexible drive cable
- High Storage Capacity with removable Hard Disk and minimum of 50 cases storage.
- Archiving Options: CD ROM,16X DVD,Removable Hard Disk and Network.
- Maximum number of area measurements per cross section image for better imaging.
- Maximum number of distance measurements per cross section images for better imaging.
- Minimum 30 GB Hard Disk with an option of Removable Storage
- DICOM Image Formatting
- Digital Frame Grabber
- Data Entry: Touch Screen.
- Multiple Image Screen Format.
- Automatic and Manual Measurements

- Approval - International standards agency US FDA or Equivalent
- Clinical Support for training of staff

Technical back up for maintenance of machine

24. Rotablator: Rotational Atherectomy System (US FDA APPROVED)

25. DIGITAL ARCHIVING: -

- a. System should be DICOM 3.0 ready.
- b. Image transfer from digital system in background mode without affecting the system operation.
- c. USB interface to copy images to memory disk/external hard disk.
- d. **EMRA** future-ready EMR Solution which acts as a one-stop solution for medical practitioners for enabling digital health processes for their patients.

26. Site Modification:

1. Area under the scope of the site modification is: -
 - a. Exam Room (1200² feet)
 - b. Console Room (500² feet)
 - c. UPS and Cabinet room (140² feet)
 - d. Research Laboratory (600² feet)
2. Exam room should be in line with AERB requirements
3. Lead Glass window and lead door to be provided on console and examination room common wall. Second lead lined door to be provided in the examination room for patient entrance
4. PVC Flooring, trenches and cable trays to be provided.
5. Sufficient Air-conditioning at least 15TR to be provided in the area as per standard guidelines with aluminum ducting in exam room
6. Total load of the equipment along with the accessories to be mentioned by the vendor
7. Hospital authorities to provide electrical cable upto electrical panel in the UPS room
8. LT panel should be Supplied & installed by the vendor
9. All general lighting, electrical fittings and fixtures to be provided by hospital authorities
10. Adequate fire detection system to be provided by the vendor, inside the area under the scope mentioned above
11. Partition to be provided between UPS and Batteries in the UPS room
12. All civil works related to successful installation of the machine as per the layout attached should be carried out by the vendor
13. Wall finishes in console and UPS room - 100mm skirting along with POP and plastic emulsion paint upto the false ceiling.
14. Research area should be made with facility to isolate and store samples in a dust-free environment At minus eighty degree celsius
Site modification on turnkey basis as per turnkey details enclosed.

The necessary site modifications with interiors will have to be done by the concessionaire

Six steel cupboards to store linen, Catheter storage, consumables, and medicines should be provided.

Facility for storage of CDs & DVDs and cathlab hard wires to be provided.

Other minor issues like voltage fluctuations, cooling, pest control and rodent control is to be taken care of by the cath lab concessionaire.

Site layout / plan to be discussed with department and layout /plan copy approved by department to be used

Concessionaire has to state the schedule for site modification and installation of cathlab system and all accessories.

27.Exam Room Area: (1300² feet)

Prefabricated Moduls for exam room using insulated GI Prefabricated Puff Panels. The room will be constructed using Puff panels of 0.8 mm thick GI sheets on both sides. Total panel thickness 50mm approximately.

Filling of all joints & cavities and antibacterial and antifungal paint, self sterilizing wall coating system of 300 microns.

Supply, installation, fixing of seamless static conductive floor, 2mm thickness with covings, all joints welded.

Supply, Installation, commission Automatic Hermetic Sliding Door, size 1500 x 2100 mm with vision panel of 300 x 300 mm. Microprocessor based electronic automation unit for controlling Door movement as per AERB guidlines

Supply, Installation, commission Manual Door, size 1000 x 2100 mm with vision panel of 300 x 300 mm as per AERB guidelines

Supply, installtion, fixing of magnetic writing List board of size 950 mm x650 mm.

Supply, Installation, fixing of Clean Room Lights. Recess mounted IP65 Protocol, Non Hygroscopic Peripheral Room lights meant for clean room applications. Each set having 2 x 36 watts compact flurescent/LED lamps and digital ballast with dimmer control.

Supply, Installation, fixing of Plainair ceiling constructed of 1.6 Aluminium sheet of size 2400 x 2400 mm or appropriae size plenum and having HEPA filters of 0.3 microns. Air and Light diffuser made of two layers of monofilamentprecision woven polyster to provide Laminar Flowof Filtered air. It also provides diffused shadow less lighting system with a control onluminance by using HF electronic flurescent/LED tubes.

Supply, installation and fixing of surgeon control panel. Membrane type control panel, comprising with following features-

- 1 No. Day Time clock
- 1 No. Time Lapse Clock
- 1 No. Hands free phone
- 1 No. Medical Gas Alarms
- 1 No. Temp. and Humidity Gauge
- 1 No. Lighting control of plainair

Supply, Installation, fixing of Pressure Damper with back grill.

Electrical cabling of FRLS, Finolex for exam room only, complete with switch and sockets total 08 set inside OT. **(DB by Hospital)**

28. Anaesthesia Pendant

Should comply with EN 737 standards, European CE approved.

Pneumatic brak should be used to secure system and prevent accidental movements.

Variable placement of shelves to ensure adaptability of various requirements.

The ceiling supply system should move along a circular curve and rotate on its own axis and flexibly positioned at any point of a circular area.

Load capacity 125 kg.

At least 3 equipment loading shelves with 2 shelves of variable height flexibility.
One column of 1000mm length.
Single arm pivot range min. 900mmx900mm or above.
Pre piped with hose assembly 12-16 gas outlet point should be fixed in the pendant.
Pre wired 10-12 multipin Indian origin electrical switch socket, 2 RJ 45 data socket should be fixed in the pendant.
Should have integral check valve to allow removal of housing and socket assemblies for maintenance without closing down the entire pipeline.
Should be full metal of metal seal on maintenance check valve.
Should be hundred percent metal and incorporate a shearplate that ensures a fail safe condition after accidental damage or bed jacking.
Construction of terminal unit should be of machined brass and die cast chrome collar with SS rolling pins.
Each gas specific components must have the gas service engraved on it.
The box should be supplied with a flush mounting bezel as a plaster finish with safety features like positive action of rolling pin latch mechanism which will hold the probe securely, anti-rotational locking bar and gas indexing pin should be case into the socket assembly so that it does not become loose or be removed and should be gas indexed to prevent connecting a socket assembly of one gas to the terminal block of another)

29. Two Dome LED Operating Light with

Microprocessor controlled technology with flat, sealed light body specially designed for laminar flow ceilings.
Maximum intensity at 1 metre distance should be 160,000 lux, regulated from 100,000 to 160,000 lux. with color temp of 3800-4800K.
On / Off switch and light intensity control on dome.
Should have homogenous luminous field with facility for shadow control.
Should have light field diameter 200-300mm.
LED life span should be minimum 30000 hours.
Light field adjustment by sterilizable handle.
Provision of glowing green LED.
Diameter of light head should be 700-800 mm.
Continuous light field focusing.

30. Medical Grade Copper Tube/Pipes

The piped distribution system shall use copper pipes manufactured from phosphorous de-oxidised non-arsenical copper to BS EN 1412:1996 grade CW024A (Cu-DHP), manufactured to metric outside diameters and having mechanical properties in accordance with BS EN 13348:2008 in either R2550 (half hard) or R290 (hard).

Imported 5 Service Medical Gas Area Line Pressure Alarm:

(Oxygen, N₂O, MA4 Air, and Vacuum) should comply with NHS C11 model engineering specification, CE marked and medical gas area alarm should comply with requirements of HTM2022, HTM 02-01, C11, BS EN 60601-1.

It should be capable of monitoring up to 6 gas services by means of pressure sensors that detect deviations from the normal operating

Imported Medical Gas Hose Assemblies:

Hoses shall be color coded throughout their length as specified in BS EN 5359 as follows:

Medical oxygen - white.

Nitrous oxide - blue

Medical and surgical air - black & white.

Vacuum – yellow

Medical Gas Terminal Units (Gas Outlet Points):

(Oxygen, N₂O, MA4 Air, CO₂, AGSS and Vaccum)

Should be compliant with NHS C11 model engineering specification.

Should be CE marked and manufactured under an ISO 13485:2003 quality management system.

Terminal units should have gas indexing geometry to BS 5682:1998.

Terminal unit front fascia should be 100% metal.

Gas specific components comprising the terminal unit second fix should be made of die-cast zinc alloy or similar hard wearing metal and its socket should incorporate a sheer plane to safeguard the first fix and the pipe line in the event of accidental damage or bed jacking

31. Fire Protection

- 1) Non water based fire protection is to be integrated as per requirement. Fire extinguishers of appropriate types conforming to ISI/BIS mark should be fixed in different rooms as per requirement.
- 2) Heat detectors/hooters/photoelectric/smoke detectors of ISI/BIS mark shall be provided in all the rooms and corridors as per requirements. In case the expiry date of fire extinguishers is before the completion of 5 years comprehensive warranty period, extra set(s) of fire extinguishers will be supplied by the vendor till the completion of the 5 years comprehensive warranty period.

32. Warranty

a. Comprehensive warranty for 5 years for the complete system and third party item including x-ray tube, Electrophysiology system, Defibrillator and other supplied accessories like ACT machine, High Pressure Injector, TPI, hemoximeter, anaesthesia machine, etc.

b. All steps to be taken to maintain 95% uptime of the Equipment falling which penalty clause would be imposed

33. Standards, Safety and Training

A. Main Cath lab should be USFDA approved product. All other accessories should be USFDA approved wherever applicable.

B. Electrical safety conforms to standards for electrical safety IEC-60601-General Requirements

C. Manufacturer should have ISO certification for quality standards.

D. Shall comply with AERB and BARC guidelines.

34. Documentation

A. User manual in English

B. Service manual in English

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

D. Certificate of Calibration and inspection from the factory

E. 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.

F. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.

35. Other requirements

1) Model should be latest generation

2) **Should have local service facility. Response time in case of breakdown must be < 24 hrs.**

3) Comprehensive warranty of the main cath lab system and third party items for 5 yrs and CMC of the main cath lab system and third party items for the next 5 years to be provided by the cath lab unit supplier

4) Availability of the spares to be ensured for minimum 10 years

5) The company should provide LAN facility that will provide online as well as offline analysis of cath lab procedure from other cath lab and from office rooms of two consultants

- 6) Demonstration is must before approval and also working demonstration after installation
- 7) Bidder should give undertaking to shift entire cath lab system with accessories to other site in the institute, if required at a mutually agreed terms between institute and successful bidder

The Turnkey Scope of Work – Complete Cath lab centre

LIST OF ITEMS AND SUGGESTED MANUFACTURERS.

SL NO	ITEMS	PREFERRED MAKES
A	FLOORING VITRIFIED TILES	Somany, Kajaria , H&R Johnson, RAK india
B	PAINT	Dulux, Asian Paints , Nerolac
C	PLUMBING	Kohler, Jaguar , Grohe , Roca
D	SANITARY ITEMS	CERA, Hindware, Parryware
E	ELECTRICAL	
1	CABLES	Finolex, Havells ,V-Guard
2	SWITCHES	Legrand, L&T, Crabtree , Roma
3	DISTRIBUTION BOX, MCB	Legrand, L&T, Siemens, Havels
4	LIGHT FITTINGS	LED only Philips / Crompton / Syska/ Wipro.
F	AIR CONDINTIONING	Carrier, Hitachi, Voltas
G	FURNITURE	Hermen Miller , Godrej , Geeken

1. The Supplier should inspect the proposed site offered by the Institute in which the Cath Lab system has to be installed and they are required to submit the plan for the complete Cath lab system on a turnkey basis. The scope of work includes complete civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of cath lab Centre. Cath Lab exam room should be with 3 doors sterility control & with restricted entry provisions.

2. While preparing the plan, the following aspects have to be addressed.

- a) Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
- b) Radiation shielding for doors, walls, windows etc as per AERB guidelines.
- d) Patient stretcher and other furniture/ accessory to make the Cath lab centre functional.

3. Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.

Civil works
Electrical work
Public health (plumbing and sanitary fittings).
Air Conditioning (HVAC)
Interior Furnishing & Furniture
Miscellaneous

36.Environmental factors

- A. The unit shall be capable of being stored continuously in ambient temperature of 0 – 50 deg C and relative humidity of 15-90%
- B. Should meet General Requirements of Safety for Electromagnetic Compatibility.

C. 1. The chosen supplier would be asked to undertake a turnkey Project wherein necessary civil work modifications like False Ceiling, Wall Tiling, Anti Static Flooring and finishing works would be provided by them under the supervision of the support staff e.g. CPWD(Civil)/electrical etc.

2. The supplier would also provide the Scrub area and the Catheter wash area.

3. The supplier also would provide the necessary furniture like tables, computer chairs, cupboards, catheter hang wall mounts etc.

D. 1. Appropriate Air-conditioning would be provided by the supplier and maintained throughout the Warranty period of the cath-lab.

2. The entire Cath-Lab including the Air Conditioning should be connected to the Generator of the hospital.

E. Proper shielding should have to be done by the supplier to minimize radiation

leakage as per AERB and BARC regulations

37. Power Supply

A. Power input to be 220-240VAC (Single Phase), /400-440 V (3 Phase)/ 50Hz as appropriate fitted with Indian plug

B. Reset table over current breaker shall be fitted for protection

D. Online UPS of suitable rating conforming to shall be supplied for the entire cath lab system including X-ray generation with a minimum power back up of 30 mins

E. The Power requirements involve laying a 125 KVA Cable from the substation to the Cath-Lab and making a Bus-Bar and a Power Distribution Board and this would be done by the supplier as a turnkey project under the supervision of the support staffs e.g. PWD (Elect), Institution engineering department.

38.General

1. The Company should give an undertaking that the said machine is the latest in the category.

2. The machine should have been presented in RSNA not earlier than 20