

All India Institute of Medical Sciences

Veerbhadrha Marg, Pashulok,
Rishikesh-249203



Tender document for establishment of

“Complete Cath Lab”

On Turn key basis

Department of Cardiology

Tender fees (Rs.1000 + VAT@14.5% Rs.145) Rs.1145

EMD Rs. 16.00 lakh

Date of Pre-Bid Conference: 03/05/2017 at 03:00 PM.

Date of submission of Bid: 17/05/2017 till 03:00 PM.

TENDER NOTICE**Equipment for the Department of Cardiology
AIIMS, Rishikesh, Virbhadra Marg, Rishikesh, Dehradun
Dated: 24-April 2017**

1. Sealed tenders on turnkey basis in Two Bids (Technical & Financial) system are invited on behalf of the Director, All India Institute of Medical Sciences, Rishikesh from interested agencies and eligible manufacturer or their authorised distributors, for establishing of complete Cath Lab for the Department of **Cardiology, AIIMS Rishikesh.**
2. The interested agencies, manufacturer or their authorised dealers/ distributors are required to submit the technical and financial bid separately. The bids in Sealed Cover-I containing “Technical Bid” and Sealed Cover-II containing “Financial Bid” should be placed in one sealed cover envelop super scribed “**Tender For establishment of complete Cath Lab**” for the Department of “**Cardiology**” and should reach at the office of “**The Administrative Officer, AIIMS, Rishikesh, Virbhadra, Marg Rishikesh (Dehradun) - 249203,** before 03.00 PM on or before dated 17-05-2017. The bid received after due date and time will not be entertained whatsoever may be the reason. The technical bids shall be opened on the same day at 03.00 PM at Tender Opening Room, AIIMS, Rishikesh in presence of persons representing the prospective bidders. In the event of any of the above mentioned date being declared as a holiday / closed day, the tenders will be opened on the next working day at the appointed time. The date for opening of financial bid of technically qualified agencies will be announced later.
3. The tender document containing of **five Chapters**, where technical bid form, financial bid form, technical description/specification & item and terms & conditions can be purchased from the office of Administrative Officer - AIIMS, Rishikesh from 05/01/2017 to 27/01/2017 between 10.00 AM and 02.00 PM on non-refundable payment of Rs.1145.00 (Rupees one thousand one hundred forty five only) or can be downloaded from website www.aiimsrishikesh.edu.in. Those who download the tender document from website should enclose DD/Pay Order for Rs.1145.00 (Rupees one thousand one hundred forty-five only) (*non-refundable*) in favour of “AIIMS, Rishikesh”, payable at Rishikesh, not later the date of dated 16-05-2017 along with their technical bid in the Cover-I “Technical Bid”. The bid security (EMD) for “**establishment of complete Cath Lab**” for the Department of **Cardiology** as given in table-1 below tender documents should be paid in the form of demand draft/FD/TD/CD from any Nationalised/Schedule bank duly pledged in favour of “AIIMS, Rishikesh” payable at Rishikesh and will be placed in Cover-1 with technical bid. The Tender Documents are not transferable.
4. Any enquiry about this tender document may be addressed to the Administrative Officer, for their timely resolution. 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.
5. 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.

**Administrative Officer
AIIMS, Rishikesh
0135-2462915**

TENDER DOCUMENT**Chapter-I****(Instructions to bidder & conditions of contract)****(A) General Information and Conditions relating to Submission of Bids**

1. The tender document containing eligibility criteria, scope of work, terms & conditions and tentative draft agreement can be purchased from AIIMS, Rishikesh on any working day from **24-04-2017 to 17-05-2017** between 10.00 AM to 02.00 PM on payment of non-refundable charges of Rs 1145/- (Rupees one thousand one hundred forty five only) or can be downloaded from website www.aiimsrishikesh.edu.in. Those who download the tender document from Website should enclose a Demand Draft/Pay Order for Rs 1145/-(Rupees one thousand one hundred forty five only) in favour of “**AIIMS, Rishikesh**”, payable at Rishikesh, not later the date of 16-05-2017 along with their bid in the **Cover-I** containing “Technical Bid”.

2. The interested firms/suppliers are required to submit the Technical and Financial Bids separately in the format enclosed and they have to observe highest standard of ethics while bidding for this tender. The bids in sealed Cover-I containing “**Technical Bid**” and sealed Cover-II containing “**Financial Bid**” should be placed in a third sealed cover super scribed “**Establishment of complete Cath Lab**” for the Department of “**Cardiology**” should reach AIIMS, Rishikesh by or before 03.00 PM on 17-05-2017. The Technical bids shall be opened on same day at **03.00 PM** at AIIMS, Rishikesh in presence of the bidders or their authorized representatives (Authorization letter required to be submitted) who choose to remain present. The Tender received after due date & time will not be considered and no claim shall be entertained whatsoever may be the reason.

3. The **pre bid conference** would be held on **03-05-2017 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.

4. 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.

5. All entries in the tender form should be typed or written by pens legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting, whitener or cutting is permitted in the Technical Bid as well as Financial Bid unless authenticated by full signature of bidder. Any omission in filling the columns of **Financial Bid form (Schedule of Rates)** shall debar a tender from being considered. Rates should be filled 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.

6.(i) **Bid Security:** -The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table-I (Rs. 16.00 lakh) 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 bidder 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.
7. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.
8. Bidders are not allowed to submit more than one bid anytime during the tendering process for the same/similar tendered work else all its bids shall be cancelled thereby making him disqualified in addition to the may forfeiture of the EMD.
9. 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 “**Letter 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.
10. The EMD/PBG together shall be forfeited if successful bidder fails to **establish complete Cath Lab within stipulated time of three (3) months** or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.
11. 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.
12. 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.
13. 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.
14. The name of such successful bidder will be displayed on the website of the institute www.aiimsrishikesh.edu.in within 7 (seven) days from the date of execution of this tender contract by him.
15. 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.

16. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
17. The tender form is not transferable.
18. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
19. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the establishment of Cath Lab, procurement of its equipments and execution of work this Tender.
20. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site.
21. 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 bidder 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.
22. In case the bidder on whom the supply order has been placed, fails to establish complete Cath Lab within the time schedule and the Institute has to resort risk of completion, the Institute (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/establishing complete Cath Lab the required goods/work the work order may be cancelled and bid security deposit will be forfeited.
23. **Deviation in work/equipments:** - 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.
24. 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.

25. 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.
26. **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 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.
 (iii) There will be relaxation on turnover on *case to case* basis for **Start-ups firms** registered by Government of India under Start-ups scheme as per orders of Ministry of Commerce, Government of India.
27. **Sample/demonstration:** - The items which will be installed in the establishing Cath Lab will require prior performing demonstration, tenderer will have to perform demonstration of the equipments/items to the competent authority or committee constituted for this purposes of the institute, the bidder will have to born all the expenses for the same. Non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.
28. The tenderer hereby guarantees that the equipments 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 of 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 conform 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.
29. 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.
30. **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.

31. 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.
32. 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 (Guarantee and CMC period), such rates should not be more than the rates supplied to institutes of national importance or reputed hospitals.
33. 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.
34. In case the vendor fails to complete the work of complete Cath Lab and supply of its 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 of 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.
35. **Liquidated damage/demerage:** - The time fixed for completion of Establishing of complete Cath Lab stipulated in work order shall be deemed to be the essence of the contract and if the bidder fails to complete the aforesaid Cath Lab within the period prescribed for establishment of Cath Lab in work order, penalty/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 work at the cost & liability of the bidder. In such a case, bid security of the bidder 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 it fully functional Cath Lab. No work completion Report shall be signed in case of absence of any part as per the specification.
36. **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:

37. 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.
38. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Rishikesh/Dehradun, Uttarakhand India only.
39. 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){DDA}. 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 put signatures in 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 Cath Lab. 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, 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: -

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

- a) On shipment: 75 % payment of the equipment cost 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.
- a) 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 Inspection Certificate issued by the Institute

On Acceptance: -

- (i) Balance Twenty-Five (25) % payment would be made against 'Final Inspection 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.

C) PAYMENT TERMS FOR TURNKEY WORK

- a. On 100% completion of work, payment can be released up to 75% of certified work on the recommendation of Head of Department Cardiology & Medical Superintendent who look after/monitor the work of Cath Lab.
- b. After Final Inspection Certificate final payment of 25% will be released.

17. **Guarantee / Warrantee Period:** The bidder 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 of total price and cost 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..

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

**Equipment for the Department of “.....”
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 Cath Lab 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 annual minimum turnover which should not be less than Rs.25 crores duly certified by the Chartered Accountant) b. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. c. 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	
15. 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. 1145/- (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:

“Equipment for the Department of “Cardiology”**AIIMS, Rishikesh****Chapter-II (Schedule of requirements & EMD)****Table-I****Details of item & 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.

Item	Quantity	EMD
Establishment of complete Cath Lab on turnkey basis	01	16,00,000 (Rupees sixteen lakh only)

Chapter-III (Specification & Allied Technical details)

Complete Cath Lab

Latest state of the art, single plane floor / ceiling mounted C-arm/G-arm Cardiovascular Angiography system with flat detector technology digital imaging system for diagnostic procedures and interventional cardiovascular procedures, valvuloplasty and vascular Angiography, online DSA and cardiovascular electrophysiology.

The offer shall be for **single-plane flat panel digital cardiovascular angiography system and ancillary equipment** capable of meeting the essential requirements of a cath lab usable for Cardiology. The platform should be able to accommodate all the up-gradations required later (as and when required) to add on more and more special features.

Firm should offer latest model only.

All components must be compatible with the main system and with each other.

The main Angiography system should be FDA approved & comply with BARC & AERB guidelines. Copies of certificates should be attached.

Basic points:

- 1) Tender Document for a New State of the Art, top of the line Single Plane Flat panel Cardiac Angiography system with electro physiology application
- 2) Competitive bids are invited for installation of state of the art, top of the line fully digital single plane cardiac angiography system for Cardiac Intervention and Electro physiology procedures. The specification should be integral part of quotation and none of the essential requirements should be quoted as optional. If the supplier has any additional advance application or technique, the same should be quoted separately.
- 3) The original data sheet must support all the specification quoted by the company. Broad specification of the proposed system is given below. The detailed specification that follows shall be understood to be minimum requirement. Specifications quoted are essential requirement of this equipment while terms and conditions are mentioned separately. A system with better configuration and additional relevant technical features suitable for our requirement will be given due weightage. The Cost of the item/feature wherever asked should be quoted in the price bid only. System must be DICOM3 standard compatible.
- 4) System must be configured for higher performance to optimally deal with cardiac interventional and electro physiology procedures. Essential system configuration and capabilities are given below. The bidder should produce original technical data sheet when required; additional information should be provided as separate document referring to the specific section in the document. When the standard vendor data sheet disagrees with the bid response, clarification should accompany in the form of letter/certificates from appropriate authority in the absence which vendor data sheet will prevail for the purpose of evaluation and decision of the technical evaluation committee shall be final and binding on the supplier. Offer should comprise delivery, installation, official release and safety acceptance until hand over of the system including the accessories necessary for operation. The bidder must be original manufacturer of the equipment or authorized dealer with good track record who has sold, installed and maintained a number of such equipments during last ten years in India. All standards software and tools needed for routine and regular use must be part of system.
- 5) The technology is changing very fast and new features are added to the system. We accept that by the time of tender form sale and negotiation for equipment, there may be new features added to the system. So the bidders should quote the most recently launched system meeting the tender requirement. At the

time of negotiation the latest will be given priority within the constraints of budget allocation. The technical committee will take appropriate decision regarding selection of the system.

- 6) All individual items must be separately priced in the price bid.
- 7) If your system matches fully in most of the important specifications but matches only partly in a few specifications you may quote your system high-lighting these facts and also if your system has alternate features which can compensate for the specification asked.
- 8) If the specification document refers to technical terms/features which may reflect the product line of a particular manufacturer, the equivalent proven technology/feature can be quoted. If this document does not elaborate on a particular specification, state of art industry standard will be applicable. For all clarifications, refer to state of art industry standard.

Technical Specifications:

1. C-Arm /G Arm Multi-directional floor/ceiling mounted

- 1) C-Arm /G Arm Multi-directional, should be ceiling-mounted or floor mounted with equivalent maneuverability for unobstructed resuscitation during cardiac arrest, while continuing to do fluoro and/or cine at various angulations without any obstruction at the head end. The equivalence of maneuverability shall be verified by a committee of experts and appropriate decision taken. Should be capable of performing coronary angiography and coronary angioplasty and balloon mitral valve and other cardiovascular interventions.
- 2) All movements should be motorized with C-Arm angulations of minimum RAO/LAO +110 deg. / -110 deg. CRAN/CAUD +45 deg. At head end position. With 20 deg. / sec. or more speed for LAO/RAO and 15 deg./sec or more speed for CRAN/CAUD.
All movements should be in 1° steps. In addition, motorized movement of the detector on the vertical axis at specified speed must be available.
- 3) The system for user defined 50 programmed position of the C-arm.
- 4) Manual/motorized parking of C-Arm in case of catastrophe for resuscitating the patient
- 5) Motorized peripheral position for peripheral and vascular intervention should be available
- 6) It should be possible to position the C-arm on the left side as well as on the right side of the patient.
- 7) The C arm should have auto collision protection with patient, monitors and the table.
- 8) System should be capable of doing head to toe coverage without repositioning the patient.
- 9) Facility for motorized positioning / rotation of ceiling pivot by +/- 90 degree for improved workflow and for ease of operation from both left and right side of the patient in addition to zero degree normal head end position. Patient access should be possible from either right side or left side
- 10) Gantry depth should be more than 100 cm for better groin access

2. Table

Cardiac Table - Patient table must have radio lucent carbon fiber tabletop or equivalent;

- 1) The table should have longitudinal, horizontal and vertical travel
- 2) It should be possible to swivel the table in case of emergencies (desirable)
- 3) Table should allow head to toe coverage of adult patients without repositioning (desirable)
- 4) Floor-mounted patient table for all angiographic examinations and interventions.
- 5) Large unobstructed cantilevered table top and wide range of rotations enables access to patient from all sides and easy transfer and positioning.
- 6) Table control module for operation of all table functions.
- 7) Extendable arm rest both sides and Elbow guard.
- 8) Table height 79 cm to 104 cm
- 9) Table length 280cm or more, width 45 cm or more
- 10) Lift speed 2 cm/s or more
- 11) Table rotation (on pivot)

- 12) With various locked position +/-90 deg or more
- 13) Motorized longitudinal travel 120cm or more
- 14) Manual transverse travel +/-17.5cm or more
- 15) Maximum unobstructed overhang 125cm or more
- 16) Maximum table load 300 kg or more (200kg Patient weight)
- 17) A 1 equivalent </-1.0 mm or more
- 18) Resuscitation should be possible without having to retract the table back on its base
- 19) Long table top/mattress: mattress should provide high patient comfort for long interventional procedure, made of slow recovery foam with ideal density and thickness.
- 20) Thermal mattress & binder for children
- 21) Accessories to be provided for the table and mattress:
 - i. Accessory clamps
 - ii. Detachable radiolucent carbon fiber arm support - 4 Nos
 - iii. Drip stand
 - iv. Peripheral filter set
 - v. Catheterization arm support for Radial angiography
 - vi. Foot support
 - vii. Head end holder (head fixing aids)
 - viii. Handles with support
 - ix. Articulating arm support
 - x. IV set holder
- 22) It should have rotating facility

3. **X-Ray Generator:**

- 1) 100 KW latest technology, high frequency generator compatible with high resolution imaging along with facility to automatically adjust the dose according to the size of the patient
- 2) Max power at least 100 KW. Maximum KVp at least 125 KVp.
- 3) Radiographic KVp range to be 40-125 KVp or more. Fluoroscopy KVp range to be 60-120 KVp or more. Output at 100 KVP to be 1000 mA or more
- 4) Should have automatic exposure control device for radiographic fluoroscopy and angio mode
- 5) Should have an overloading protection.

4. **X-Ray Tube:**

- 1)
 - a) X-ray tube should have secondary grid switching to reduce the soft X-ray to patient and Cardiologist/Operator.
 - b) Anode heat dissipation should be 5500W or more
- 2) Small focal spot not more than 0.6mm with power of at least 30 KW
- 3) Large focal spot not more than 1.0 mm with power at least 75 KW
- 4) Anode heat storage capacity 2.4 MHU or more, with advanced cooling mechanism. High cooling rate with liquid bearing technology or equivalent for continuous and noiseless operation and capable of pulsed fluoroscopy on both focal spots
- 5) The Pulse Fluoroscopy should be offered with pulse rate of 10 frame /sec to 30 frames/sec.
- 6) Maximum continuous heat dissipation rate not less than 3 kW.
- 7) At least 3 selectable programmable cu filters for reducing the dose to the patient

5. **Radiation protection:**

- 1) **The System must have radiation safety package like care & clarity, Allura clarity or equivalent for radiation safety of operator & patient.**

- 2) The system should have integrated computer controlled (preferably automatic) X-Ray Beam filtering with copper filters of various size from 0.2 mm to 0.9 mm. Please list the special filters available.
 - 3) The system should have positioning of collimator blades without radiation.
 - 4) Should have dose measuring capacity. 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.
 - 5) The system should have a facility to remove the anti-scatter grid on the detector for ensuring lower dose in pediatric imaging
 - 6) System should meet all National & International safety standards & comply with BARC & AERB guidelines.
- 6. Collimator :**
- 1) At least one collimator per plane to be provided, preferably with IRIS/square type 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.
- 7. Digital imaging System:**
- 1) A flat detector with a diagonal size of at least 24 cm with at least 3 zoom fields.
 - 2) At least 3 zoom fields, the smallest being 11 cm or less
 - 3) Acquisition: speed of at least 25 frames per sec. Acquisition speed for DSA should be 0.5 frames/sec to 6 frames/sec or higher
 - 4) Pixel size not more than 200 microns. Matrix at least 1K x 1K, in 12/14-bit depth
 - 5) Digital system with acquisition and processing in 1024x1024 matrix at 25/30 fps with 10/12 bit digitization
 - 6) Detector quantum efficiency at least 65%
 - 7) Image storage capacity of at least 100,000 images in 1024 x 1024 matrix at 10/12 bits on the main system disk.
 - 8) System should have capability of ECG display on the live image monitor and archive the ECG display along with angio images on CD, during the acquisition.
 - 9) Real time image processing algorithm applicable for both fluoroscopy and acquisition. Cine loop replay facility with forward and back ward and fast forward
 - 10) The system should have facility for storage of fluoro loop scene of at least last 10- 20 seconds or previous 450 frames once the fluoro switch is off (backward storage); unlimited and continuous forward fluoro storage facility with excellent quality of stored fluoro images. Facility for storage at high, medium or low fluoro
 - 11) **Road mapping and landscaping facility should be available. Facility for side-by-side still image; road map facility should be provided** so as to support all anatomical areas and all interventional procedures with facility to overlay selected reference image with fluoroscopy
 - 12) Dedicated touch pad for review/zoom, play/pause previous /next image, store /recall reference images at the table side
 - 13) Post processing software facilities with real time edge enhancement, positive /negative image display windowing, electronic shuttering, roaming, image reversal, zooming and magnifying with text and annotation junctions.
 - 14) There should be facility to enter the patient demographics from the examination room or the console room. The full system should have touch screen control at table side
 - 15) The system should have full table side control operation with complete acquisition and post processing capabilities.
 - 16) System should have on-line & off-line validated coronary analysis and ventricle analysis program.
 - 17) The software should have Auto calibration facility for stenosis measurement with edge enhancement and geometrical and densitometry calculations. The analysis should be possible from table side in the examination room and from the control room.

- 18) **The system should have on-line DSA capabilities in 1024 x 1024 matrix with acquisition frame rate of 0.5 frame/sec to 6 frames/sec. The system should have on-line DSA of excellent quality with bolus –chase facility with motorized table movement which can be manually controlled.**
- 19) **The system should be quoted with 3D modeling/analysis of coronary arteries.**
- 20) **The latest complete software and hardware for visualizing stent with extra high resolution from table side control. Should have stent enhancement tool with fade in/fade out facility with all software, hardware, image processing tools for enhancing visualization of the stent and vessel and should be the latest and most technologically advanced version and capable of placing on a separate screen in examination room.**
- 21) **The System should be capable to do automatic dual-axis rotational Coronary angiography to gather more information with less X-ray and contrast medium dose. The system should acquires simultaneous RAO/LAO cranial-caudal views in just one acquisition run by moving the C arm in a curved trajectory around the patient instead of multiple acquisitions.**
- 22) Selection of stent enhancement and DSA should be possible from the examination room
- 23) It should be possible to overlay live fluoro image on reference image on live monitor with fade in fade out.
- 24) Angle and distance measurement facility should be available
- 25) It should have parallel line display cum medical grade monitor in doctors' rooms

8. Monitors / Display:

- 1) 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.
- 2) **Display in exam room should be single screen 56 inch 8 megapixel or equivalent monitor** to display live and reference images, patient hemodynamic monitoring, stent enhancement monitor / EP tracing, 3D image display and IVUS/ FFR imaging.
- 3) Two high resolution TFT (Preferably LED) monitors, 19 inch or more for post-processing and reporting in the control room. One high resolution medical grade TFT/LCD monitor for post-processing and reporting in the work station. Another monitor in the console room for live scenes. There should be 2 more monitor in console room for live hemodynamic monitoring & Console Monitor for patient registration
- 4) Another monitor should be available for use in an adjacent room which can draw case scenes from the work station and view the scenes, stop/play, zoom in and out
- 5) One colour monitor (Preferably LED) for 3D image viewing/processing in control room.
- 6) All monitors should be medical grade having :
 - a. Flicker free, distortion-free high resolution
 - b. High contrast
 - c. Wide viewing angle
 - d. Brightness at least 600cd / m²
 - e. Automatic gain, brightness control

9. Work station and Digital Archiving

A state of the art workstation should be provided.

- 1) 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.
- 2) 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.

- 3) Work station should be able to archive at least 1000 patients' data with easy irretrievability search by name, date of procedure or cath number
- 4) The system should be able to perform QCA facility from the console as well as workstation 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.
- 5) There should be facility to edit and delete selected scenes archived in the work station
- 6) On CD/DVD with embedded software for reading, with facility for zoom in and out.
- 7) 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.
- 8) 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
- 9) Image transfer from digital system in background mode without affecting the system operation.
- 10) USB Interface to copy images to memory disk / external hard disk.
- 11) There should be facility to connect the workstation to hospital PACS system of any proprietary item for remote viewing and manipulation
- 12) Should have capability to convert Dicom images into .avi and .mp4 formats with frame editing
- 13) 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.
- 14) 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.
- 15) The system should be capable of giving still images minimum 300dpi in tiff, PNG and JPG format

10. 3D Acquisition and Cross-Sectional Imaging:

- 1) The 3D Acquisition should offer:
 - 3D Reconstruction and visualization in real time of volume in volume rendering technique (VRT).
 - MPR & MIP
 - Rotational angiography facility at a speed of at least 55 degrees per second with acquisition frame rate of at least 25 frames per second in 1 k matrix with facility for display of subtracted and un subtracted images in the examination room. The possibility of acquiring 3D Coronary Arteriography package along with the stent enhancement package. **Stent enhancement with lumen subtraction facility will be preferred.**
- 2) It should be possible to create 3D image of left atrium of heart. It should be possible to overlay line fluoro image on this 3D image of left atrium for catheter guidance in EP procedure
The facility should offer auto segmentation of ventricles / vessels of the entire heart (especially the left atrium with visualization of the pulmonary veins) in automatically performed one step

11. Cath lab should have In-built (Integrated) latest, high end, FFR measuring capability

12. 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) Time and amplitude measurement with electronic calipers
 - d) Laser Printer with minimum 16 MB memory with minimum 1200 dpi
 - e) Facility to measure oxygen saturation and Hb concentration
 - f) Reusable transducers X 5 No.'s should be provided
 - g) It should be capable for storing and printing pressure waveform and ECG
 - h) dP/dT waveform display
 - i) Spo2, Noninvasive BP display and necessary equipment
 - j) Storage of ECG/pressure recording on CD

- k) Storage on hard disk: specify storage capacity
- l) Desirable: Conversion of homodynamic reports into DICOM3 Compatible image data format
- 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 with ceiling suspension and one in console.
- 4) An 18" or more remote color wave form monitor, to be mounted in the examination room with video switch between patient dialog and real time waveforms.
- 5) Radiolucent ECG cables - two sets.
- 6) The recorder system should be integrated with the angiographic system so that patient demographics once entered should automatically captured by the recording system
- 7) ECG cables and reusable pressure transducers - 5 each
- 8) Software should be provided for off line hemodynamic calculations such as cardiac output, gradients and shunt estimations.
- 9) One work station for off line Angio viewing and recording.

13. ELECTROPHYSIOLOGY LABORATORY SYSTEM

Components of an EP lab

- (i) EP recording system
- (ii) Computerized Stimulator
- (iii) RF ablator generator.

(i). EP Recording System:

- 1) Minimum of 40 bipolar Intracardiac Channels:
- 2) Digital Amplifier with minimum 32-Bit A/D converter with 2 kHz resolution
- 3) Review software which can be loaded on any Laptop.
- 4) Should be US FDA approved.
- 5) Should have:
 - a) Holter window
 - b) 3 TFT monitors with 1600 x 1200 resolution(in addition to hemodynamic recorder)
 - c) 12 lead Surface ECG channels with 4 pressure channels, 4 analog inputs
 - d) Dual imaging window to allow saving and retrieval of Still & avi fluoro images with corresponding electro grams
- 6) Should be able to interface with all available generators in the market including
- 7) RF and Cryo.
- 8) Should be compatible with all 3D mapping system like Ensite and Carto.
- 9) Upgradeable Modular design
- 10) Should have a facility of Invasive pressure recording and display – 2 Channels
- 11) Must Preferably Built-in Digital Stimulator Integrated to the Amplifier or separate.
- 12) Should have a facility of Off- line Software/hardware system to “Review Data”- one installation outside.
- 13) Should have a facility of pacing channels with up to 5 extra-stimulation option.
- 14) Must be supplied with Compatible Laser printer.
- 15) Operating system must be most recent (Window 10 professional or above). EP system should be configured to Laptop & Desktop computer.
- 16) HDD minimum 1 TB, i 7 or above (latest),8 GB RAM, 1 GB graphic card
- 17) Data storage in standard HDD, patient data writable only DVD/CD. Facility to transfer to external hard drive through USB port
- 18) Ease of use with simple commands using one key board
- 19) Must have a Real time Beat-by-beat display.
- 20) Should provide retro recording for minimum 30 Sec.
- 21) Should have pre-programmed protocol and programmable Protocol
- 22) Must have a facility of real time beat –by-beat display
- 23) Continuous surface ECG visualization
- 24) Facility of split screen display for template viewing & matching

- 25) On line view of real-time & review data simultaneously
- 26) Selectable amount of data to be stored per patient
- 27) Computer based display of RF parameters
- 28) Amplifier with 32 bit sample conversation rate at 2KH or more.
- 29) Should have an option of automatic export of screen page to power point slide
- 30) Adequate Filtering for good signal quality
- 31) User configurable reporting format
- 32) Data transfer to Power Point, JPEG or similar formats
- 33) Free of cost software upgrade upto 3 years post installation + software bug removal
- 34) Online display of RF parameters graphically in the EP software
- 35) Aggregate report of RF delivered per case
- 36) Should have a single display template comparison
- 37) Only one keyboard to control the complete system

(ii). EP Stimulator:

- 1.) Standalone computerized stimulator with 19 inch or more LED facility.
- 2.) Should have a minimum of 9 pre-programmed protocols and 10 user defined protocol & upto 6 extra stimuli.

(iii). RF Ablator Generator:

- 1) Power - Minimum 130 watt output
- 2) Must be Compatible to Thermister & Thermocouple sensors in ablation technology
- 3) Should have facility of sequential ablation of upto 4 electrodes.
- 4) Compatible to Dual sensing catheters & Irrigated tip catheters
- 5) Should have a memory features for ablation parameter storage and recall
- 6) Must have a facility of continuous update of Bioimpedance: pre, post and during ablation
- 7) Must have auto-cutoff intelligence feature in RF ablator.
- 8) Must have Temperature and Power Control mode available
- 9) Compatibility with Irrigation Pump
- 10) Should have US FDA certificate as the mark of quality standard
- 11) Ablation catheters should also be included.

Accessories for ELECTROPHYSIOLOGY LABORATORY SYSTEM:

Essential

1. Two 21" high resolution slim LED monitors.
2. Laser jet printer
3. Cart with castor wheels.

(The company should arrange for adequate training of the technician)

14. Portable ECHO

Specifications of Portable Echocardiography system

1. The system should be a latest generation digital technology echocardiography machine (not an ultrasound machine) with all advanced imaging features.
2. System must be a PORTABLE state-of-the-art model all digital beam former with super computed signal processing and clinically proven imaging technologies.
3. System must be offered with the following applications. : Adult, Pediatric, Neonatal Cardiology, Vascular and adult TEE Imaging.
4. Must have minimum 30 mins of Battery backup.
5. The System has to have matrix probes.
6. The System should not weigh more than 10 kgs.

7. System must be offered with a minimum of 19000 digital processed channels per image frame. Technical data sheet should be enclosed in technical bid to support the number of channels on the system.
8. System must have adult cardiology transducer with either single crystal technology technology for excellent Image quality on difficult to image patients.
9. System must be offered with a MINIMUM 15 inch High Resolution Flat Panel Display monitor with minimum monitor resolution of 1050 x 1400.
10. System must be offered with frequency compounding facility. Other equivalent Technology can also be offered. Processing technology in technical bid should be highlighted.
11. System must be offered with 2D, M – mode, Colour M- mode, Anatomical M-mode, Colour Flow, Pulse Wave Doppler, continuous Wave Doppler and Directional Color Power Doppler.
12. Should have color compare mode (color mode and normal gray-scale mode simultaneously).
13. The system should have zoom facility.
14. System must be offered with Speckle Reduction Imaging : Image processing technique to remove speckles and clutter artifacts
15. System must be offered with a very high dynamic range of at least 170 Db to pick up subtle echoes. Dynamic range in Db must be clearly mentioned in the technical quote.
16. Frequency processing facility for the transducers should be 1 - 15 MHz. This must be available without the need for frequency switching.
17. System must be offered with Eight-slide pot control adjustment of TGC curve.
18. Independently selectable gain Control in Lateral plane. (Better technology can also be offered).
19. System must be offered with a 2D frame rate of at least 750 frames/second. Acquisition frame rate should be clearly mentioned in the technical quote If not mentioned
20. System must be offered with Anatomical M-Mode (Angle-corrected M-mode).
21. System must be offered with Pulsed wave Tissue Doppler Imaging (TDI) for velocity mapping of cardiac tissue and vessel wall motion.
22. Must be offered with a single button control for automatic optimization and adjustment of TGC and Receiver Gain to achieve optimal uniformity of image quality and faster scans.
23. System must be offered with Color TDI – uses color to display direction and timing of myocardial function.
24. System must be offered with Enhanced Tissue Harmonic Imaging should be standard on the system. This should be based on a real – time digital signal storage and phase cancellation technique to enhance axial and Contrast resolution.
25. The should have minimum hard 120 GB disk drive space
26. System should have extensive image management capability including thumb nail review, Cine loop editing etc.
27. System should have facility to transfer images to an integrated CD/DVD writer, without any interfacing.

28. System should have facility to transfer images to external hard drive through USB port.

29. Print – Should have direct connectivity to Laser printer for printing images & report.

30. SYSTEM MUST BE SUPPLIED WITH THE FOLLOWING TRANSDUCERS

- i. 1–5 MHz Broadband Adult Echo Transducer for Adult Cardiology imaging. Must have Tissue Harmonic Imaging, Must have either single crystal technology or purewave technology for excellent Image quality on Difficult to image patients
- ii. 3–8 MHz Broadband Pediatric Echo Transducer for Pediatric Cardiology imaging. The Probe foot print should be smaller than the adult probe.
- iii. 2-7 MHz Broadband Matrix multiplane Trans-esophageal Transducer with for Adult applications with Electrocautery Suppression. Must have Tissue Harmonic Imaging. Must have advanced crystal technology.

31. SYSTEM SHOULD BE SUPPLIED WITH THE FOLLOWING

1. Inbuilt Thermal B/W Printer. 10 Rolls of thermal paper should be provided
2. Dockable cart must have at-least 3 Imaging universal active probe ports with electronic switching facility from key board without probe adapter.

32. Others

1. It should have standard electrical safety norms.
2. The machine should carry 05 years of comprehensive warranty.
3. The machine should come with 5 years of AMC/CMC and the AMC/CMC rates to be quoted separately.
4. The spare parts should be easily available and the technical staff should be available in AIIMS Rishikesh whenever required within 2 days.
5. Demonstration of the machine if required is must and have to arrange in two weeks' time.
6. Should have user manual and service manual in English.
7. The portable machine should come with a cart, mobile on four wheels (trolley) for easy movement, with facility to detach the machine from the cart easily for transportation.

15. ECHO Integration (Optional)

Portable Echo Integration feature has to be provided to easily and efficiently integrate ultrasound into the Cathlab. The echo image should be available on the additional Display. The cathlab tableside interface (Touch screen) should be used to remotely controls specific echo modes and functions, including: Modes: 2D, Color Doppler, Color Power Angio (CPA), Clinical presets Functions: Zoom, Focus, Depth, Gain, iSCAN one-button optimization, Freeze, Acquire, Caliper, Replay, 2D Sector Width, Color Region of Interest.

16. HEMOXIMETER

Hemoximeter for measuring Hb and oxygen saturation during cardiac catheterization complete with all accessories like rinse solution, calibration solution etc for at least one year.

Make and model of Hemoximeter machine to be clearly indicated in offer with detailed technical brochure.

17. 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).
- 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

18. IABP (Intra-Aortic Balloon Pump) - High End ...of reputed company....One in no.

- Should be high end & of latest make
- USA FDA approved
- System should be supplied with the following:
- ECG Cable with Lead wires...2 Set
 - Refillable Helium Cylinder compatible with the IABP system Qty. 5 Nos
 - Compatible Intra-Aortic Balloon Catheter for Adults, Size: 40 cc Qty : 6 Nos
 - Compatible Intra-Aortic Balloon Catheter for Adults, Size: 34 cc Qty : 4 Nos
 - Reusable Invasive Blood pressure transducer system with pressure flush device system. Qty: 5 Nos.
 - All other necessary accessories

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

Make and specs to be mentioned

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

Make and specs to be mentioned

21. Pulse oxymeter portable – Two**22. Two Multipara monitor (Transport/ wall mounted) with 2 Invasive BP, ECG, Spo2, Noninvasive BP, Respiration, etc.**

Make and specs to be mentioned

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

Make and specs to be mentioned

24. Syringe Infusion Pumps..5 in no.**25. Anaesthesia machine with inbuilt ventilator:**

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.

Should be US FDA Approved

26. Refrigerator: a double door refrigerator of 240 L or more of reputed company (Samsung, LG, Whirlpool, etc.) should be provided**27. UPS:**

Suitable online UPS with 30 min. battery backup for complete Cath Lab including cine and fluoroscopy. Emergency lighting should also be on UPS

28. 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 as prescribed by ICRP or BARC/AERB recommendations to be fixed between console room and gantry room for radiation protection.
- 3) Lead aprons: of standard state of the art make, light weight, with a lead equivalent of 0.5mm. Should be double sided, 12 such aprons to be provided 6 of which should be two piece and 6 should be single piece. Design should be wrap around.

Design should be wrap around. Design should be wrap around. Design should be wrap around. Design should be wrap around. Design should be wrap around.

- 4) Thyroid Guard (Good quality) - 12 nos.
- 5) Head gear radiation protection and lead goggles - 4 each
- 6) Lead lined gloves: Two pairs to be provided
- 7) Wall mounted stand (No. 5) with Hangers (No. 10) for Aprons
- 8) Ceiling-suspended operation lamp, cool LED type- 1 no. Focused ceiling mounted light with a handle for positioning the light. This handle should be removable.
- 9) Fire alarm guard
- 10) Instrument Table – 2Nos (Length: 100cm, width-45cm, Height-80cm(top span from floor), with 2 span(rack) with side rail on three sides, wheel size- diameter not less than 10cm)
- 11) State of the art High Pressure Injector compatible with the machine – One (along with 5 reusable & 200 disposable, 150 ml syringes)
- 12) Ceiling suspended radiation protection - 1 no. (as per international radiation protection system)
- 13) Table mounted radiation protection - 1 no. (as per international radiation protection system)
- 14) 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
- 15) **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) – 1 no. with multi function laser printers, OS and application software (licensed version) with machine for Consultant room.
- 16) 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

29. 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

30. 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.

31. SITE MODIFICATION

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.

Whole Cath Lab complex should be centrally air conditioned

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.

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% uptake time 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. The cost of Turnkey for the area of 3500 sq. ft. or more.

4. 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

5. Scope of work for turnkey Cath lab system:

The supplier should inspect the proposed site and submit all the detailed structural and architectural drawings for the proposed Cath lab along with technical bid of the tender.

6. The Cath lab site shall consist of the following rooms:

- a. Single Plane Cath lab Room
- b. Console room
- c. Equipment room
- d. Store room
- e. Patient preparation room
- f. Male Change room
- g. Female Change room
- h. Patient waiting area
- i. Cardiologist/ Consultant room with attached toilet
- j. Doctors conference Room
- k. Recovery room with Nurse Station.
- l. Scrub station sensor operated with hot & cold water provision
- m. Catheter wash area with hot & cold water provision
- n. Plasma Steriliser room
- o. Toilets - 01 nos. for patient's recovery room, 01 for staff separate

7. Civil work

1. Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
2. Cath Lab exam room wall finishing with tiles up to false ceiling.
3. 5' wall tiles all other areas.
4. The flooring in the Cath Lab complex should be as per AERB regulations. Flooring in all rooms and corridor shall be of vitrified tiles of 60 x 60cm size or other close appropriate size of reputed make like Kajaria/Johnson/Naveen
5. All the doors should be provided with necessary fittings with hydraulic type door closures (DORMA/ reputed make) and with Mortised locks of Godrej /reputed make.
6. Main door of the Cath Lab complex in the corridor shall be in glazed aluminum with adequate thickness of glass with etching work wherever required.
7. Lead Glass window of adequate size will be fixed as per AERB guidelines in the console room. There should be provision to cover it with high quality automatic button operated blinds/curtains to maintain privacy.
8. Proper signage both external and internal.
9. Platform for unloading and shifting the cath lab should be provided if necessary.
10. Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.

11. Flooring

1. 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2. 2 mm thick Vinyl flooring in cath lab room.

12. Painting

Two or more coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, cath lab room & Equipment room etc.

13. False Ceiling

Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.

14. Plumbing work

Plumbing work has to be carried out as per requirement for scrub area and other areas.

1. All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make Hindware, Jaguar, Roca etc.

OR

2. The pipes and accessories should be of centrifugally cast iron of ISI make and the connection of existing main hole in the public health shafts shall be done. All water pipes shall be Galvanized iron of TATA equivalent make and filling shall be SUW/UF/UNIK make. The grating shall be chrome plated. All CP fittings shall be of EBONY / Jaguar/ ESSCO.

Whichever will be best (between 1 or 2 of Plumbing work) to be decided in consultation with appropriate authority of institution.

15. Oxygen & Vacuum supply

1. O₂ & Vacuum supply pipelines in Cath Lab exam room with O₂ outlets for each.
2. Humidifier jars for all outlet points.
3. O₂ & Vacuum pipelines with panels & power sockets in patient recovery & preparation area for 5 beds.

16. Electrical work

1. The supplier shall be required to specify the total load requirements for the Cath lab centre including the load of air conditioning, room lighting and for the accessories if any. A distribution panel of standard make and appropriate capacity is to be provided. The load shall be provided by the hospital. However, from the substation of the hospital to the distribution panel, cable of appropriate size will have to be provided and fixed by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.
2. The electrical work shall include the following:
 - a. Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed earlier.
 - b. Switches light and power points should be of modular type and of standard make as listed.
 - c. Separate & dedicated chemical earthing for equipment & all other electrical equipment –
5 Nos.
3. Minimum two separate Earthing with copper plate is to be provided for the main equipment and air-conditioning equipment as per equipment requirements. The use of earth leakage circuit breaker will be required.
4. A distribution panel of standard make and appropriate capacity is to be provided. The load shall be provided by the hospital. However, from the substation of the hospital to the distribution panel, cable of appropriate size will have to be provided and fixed by the vendor.
5. The switch gears (MCBs / ACBs/ MCCBs) should be of Siemens / Hager (L&T) make.
6. L.T. distribution board for MCBs etc. should be of Siemens/ Hager (L&T) make.
7. Electrical wires should be of copper of different capacity as per the load and should be of Finolex/Havells/Polycab/L&T/Lapp Kabel make.
8. Telephone wiring cables should be of Finolex / Havells/ Polycab make. Telephones to be provided in all rooms with EPBX system having control in office.
9. Modular range Switches / Sockets of MK/ North West should be provided and fixed as per requirement.
10. General lights (LED) should be of mirror optic reflector type of Phillips/Wipro/GE/Crompton make. Light dimmers (down lighters) should also be fixed in the equipment room. 1X28 W or 2X28 W/LED fittings 2X36, 3X36 W with electronic ballasts.
11. Ceiling fans/ wall fans to be provided in corridor and in all rooms.
12. Steel conduit of BEC/AKG makes and conduit accessories of RAMA/Fitwell make.

17. AIR CONDITIONING:

- a) Ductable package air conditioners and split AC units (of reputed make Blue star/carrier/Hitachi/General to be provided by the vendor in whole complex as per requirements to maintain appropriate temperature in the main equipment room & other rooms) and as per regulations of AERB) may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. The Air conditioning should be designed with standby provision to function 24 hours a day.

- b) The outdoor units of AC should have grill coverings to prevent theft and damage.
- c) Standby additional split air condition(s) of appropriate strength/capacity (tonnage) to be fixed in the main equipment room.
- d) Hygrometer Nos.3 to be provided.
- e) In-built or External De Humidifier in Equipment, Console and Examination rooms to be provided as per room layout.
- f) Ventilation is required in toilet.

2. Environment specifications:

- a) Humidity range: Relative humidity 40% and 60% in all areas except equipment room which shall be as per requirement of the equipment.
- b) Temperature ranges: $22 \pm 2^\circ \text{C}$ in all areas except equipment room which shall be as per requirement of the equipment.
- c) Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.

18. 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.

19. Furniture:

- 3) Storage cupboards made of wood/ply board to be fixed in different rooms as per requirement stated by department at time of installation.
- 4) As per requirement furniture and fixtures for all the area including chairs of Godrej/Durian reputed make should be provided.
- 5) Furniture and other items, mentioned as of reputed make, will need approval of the department.
- 6) Possible requirements are listed below, which should not be considered final. The no. & type of furniture may increase/decrease till completion of work as felt by the department.
 - a) Revolving chairs height adjustable, medium-back with hand-rest in the Control room, cardiologist room and viewing area. – **10 NO.S each**
 - b) Chairs for patient waiting area – Three seater (chrome plated). - **10 NO.S**
 - c) Wall mounted overhead lockable shelves for records, hardware storage – **4 Nos.**
 - d) 4' x 8' Cupboard with laminate door shutters for storage of catheter, consumables and accessories as per requirement. – **2 NO.S**
 - e) Good quality podium with Mike for Doctor's conference room.
 - f) Drug trolleys for cath lab patient preparation area. – **2 nos**
 - g) Lockable Book shelves – **02 Nos.**
 - h) 2 seater sofa for Dr' room – **02 Nos.**
 - i) High back chairs (Godrej) for Doctor Conference Room (Cardiology CTVS angio/cath CD, case discussion room)...**20 Nos.**
 - j) Large centre tables (for 20 chair with comfortable distance) for Doctor Conference Room (Cardiology CTVS angio/ Cath CD/ case discussion room)..**1 Nos**

- k) Patient trolley with rubber foam mattress – **1 No.**
- l) Name boards for all rooms & backlit board for main entrance
- m) Tables for Workstation and cardiologist in reporting room.- **4 NO.S**
- n) Changing rooms should have **10 nos.** change lockers, clothes hanger dressing table with mirror. 02 nos for both male & female change rooms
- o) Dustbins (plastic with lid) to be provided – **4 Nos.**
- p) Shoes racks - **02 nos**
- q) Dehumidifier for cath lab room – **02 nos**
- r) Corner tables – **04 nos.**
- s) Reception table with granite top – **01 No.**
- t) Patient examination couch, revolving stool – **01 No. each**
- u) Wall mounted lead apron hangers for at least 10 aprons.
- v) Patient Examination Couch – **01 No.**
- w) Collapsible wheel chair – **1 No.**
- x) Revolving table – **1 No.**

All furniture items should be of standard make as mentioned earlier.

20. Miscellaneous:

- i. Reporting room should have LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – **1 no.**
- ii. 16 port LAN switch with Cabling of Network (LAN) connectivity for camera system, console system, workstation, conference room and computers etc.
- iii. Broadband connection: for REMOTE SERVICE of Cath lab System.
- iv. 2 Kg each Fire extinguisher Dry CO2 type – **8 Nos.**
- v. Toilets with mirror, wash basin, soap dispenser, towel rail, WC, paper roll etc.
- vi. All doors with complete accessories like tower bolts, handles, door closers & door stoppers. All doors & windows with 14 SWG aluminum & opaque glass on upper half.
- vii. Cath Lab room all doors with lead sheet as per AERB guidelines.
- viii. All windows with blinds of matching color with interiors including console room window.
- ix. Fire alarm panel with response indicators, smoke detectors and audible alarms.
- x. CCTV with 5 cameras & recorder facility in Cardiologist room.
- xi. Public address system with music player with ceiling recessed speakers – **10 Nos.**
- xii. Full HD 40" LED TV along with DTH connection in waiting area of reputed make (Samsung, Sony, LG) – **1 No.**
- xiii. EPABX with beetel make handsets including installation testing for reception, console, DR's room & Nurse station. – **5 Nos.**
- xiv. Heavy duty Vacuum cleaner for cath lab room – **01 No.**
- xv. 15 ltr electric water heater (Havells, Cera, Bajaj) – **2 No. (one connected to scrub station)**
- xvi. Ceiling Fans 05 Nos. and exhaust fans 03 nos. for Dr's room, waiting areas change room etc.
- xvii. Computer with 19" LED or more display & Hi resolution color lasers printer for Cath Lab reports & image print outs connected to LAN – **1 no.**
- xviii. LED projector with wall screen – **1 no.**
- xix. White marker board 6' x 4' & 3' X 4' – **01 each**
- xx. Ceiling suspended curtain with rails in recovery room for patient beds – **05 nos.**
- xxi. 240 Ltrs. Refrigerator for medicine storage (Samsung/ LG/ Whirlpool) – **02 No.**
- xxii. Drinking water cooler with RO system in waiting area – **01 No.**
- xxiii. Door mats for main & secondary entry doors – **04 Nos.**
- xxiv. Digital display Temperature & Humidity meters – **06 Nos.**
- xxv. Wall clocks waiting area, Dr's room & Cath Lab exam room – **03 Nos.**
- xxvi. Patient foot step for Cath Lab Exam room – **01 No.**
- xxvii. Ultrasonic Pest & insect repellents to be provided and installed.
- xxviii. There should be adequate LED lighting & mobile charging point in patient's waiting area.

21. Defect liability:

- 1) The works shall be guaranteed for a minimum period of 5 years from the date of commissioning against any defective material/workmanship.
- 2) The warranty and CMC of the Air conditioners will form part of the main equipment.
- 3) The turnkey work including installation / commissioning of all the turnkey items should be completed within 3 months.
- 4) Certification to the effect that the work has been executed as per the specifications incorporated in the above document will be by the AIIMS Rishikesh/appropriate authority.

22. OTHERS

1. The offer should be accompanied by original product data sheet/brochure of the product and AERB type approval certificate or valid No Objection Certificate (NOC) for the model offered should be submitted along with the technical bid. In case of NOC valid type approval certificate has to be submitted prior to submission of invoice for payments.
2. There shall be no separate licensing fee for the use of software (software by the bidder or third party) supplied by the bidder.
3. All equipment provided shall be of current production, new and of first rate quality.
4. Remote diagnostic capabilities must include the ability to remotely connect the system on a regular basis to retrieve information about the system and to correct any software problems.
5. It is the responsibility of the bidder to provide all items required but erroneously mentioned or omitted above for the full commissioning of the equipment.
6. Should have FDA/CE approved & AERB NOC
7. Breakdown time 48 hours
8. Suitable servo voltage & frequency stabilizer for whole system

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Chapter-IV-Price Schedule to be utilised by the bidders (Financial Bid)**“Equipment for the Department of****A) FINANCIAL BID FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA OR GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Rs.)							6 Total Price (at AIIMS-Rishikesh) basis (Rs.) = {4 x 5(h)}
				Ex - factory/ Ex-warehouse /Ex-showroom /Off-the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ GST/VAT (if any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation , Insurance, loading/ unloading and Incidental costs till AIIMS-Rishikesh (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the AIIMS-Rishikesh (f)	Unit Price (In Rs.) CMC for 5 years (In Rs.) if applicable (g)	

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. In case of calculation error, lower cost will be accepted between actual cost & error cost.

2. *The unit cost including five (5) years guarantee/warrantee should be mentioned as per table-1. The above quote should include all applicable taxes and F.O.R AIIMS Rishikesh. L1 will be decided on the basis of unit cost in addition to CMC value of 5 years where applicable including all applicable taxes at time of financial bid evaluation of individual equipment.*

3. The Bidder must quote price for “GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES” after having taken in to account, the provision of Custom

Duty Exemption Certificate (CDEC) by the Purchaser, as per Customs Tariff Act.

Declaration by the Bidder: - (i) This is to certify that I/We before signing this tender have read and fully understood the Tender document viz terms & condition of the contract, rules regarding purchase of equipment for Department of I/We agree to abide them.

(ii) No other charges would be payable by purchaser and there would be no increase in rates during the contract period.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

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Financial Bid**B) FINANCIAL BID FOR GOODS TO BE IMPORTED FROM ABROAD**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Rs.)					6 Total price on Destination + Insurance (local transportation and storage) = {4X 5 (e)}
				FOB price at port/ airport of Lading (a)	Carriage / Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the AIIMS-Rishikesh ** (c)	Unit Price CMC for 5 years if applicable (d)	Unit Price on DDP AIIMS-Rishikesh + Extended Insurance (local transportation and storage) (e) = a+b+c+d	

Indian Agent: Indian Agency Commission - ____% of FOB

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. In case of calculation error, lower cost will be accepted between actual cost & error cost.
2. *The unit cost including five (5) years guarantee/warranty should be mentioned as per table-1. The above quote should include all applicable taxes and F.O.R AIIMS Rishikesh. L1 will be decided on the basis of unit cost in addition to CMC value of 5 years where applicable including all applicable taxes at time of financial bid evaluation of individual equipment.*
3. The Bidder will be fully responsible for the safe arrival of the goods AIIMS-Rishikesh in good condition as per terms of DDP as per INCOTERMS, if applicable.
4. Custom Duty/clearance charges/transportation charges from Airport or Shipyard to Rishikesh will be reimbursed to the bidder and can be recouped later by the Institute by presenting all original documents/bills of such authorities.

Declaration by the Bidder: - (i) This is to certify that I/We before signing this tender have read and fully understood the Tender documents viz terms & condition of the contract, rules regarding purchase of equipment's for Department of I/We agree to abide them.**(ii) No other charges would be payable by purchaser and there would be no increase in rates during the contract period.**

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

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Financial Bid
C) FINANCIAL BID FOR TURNKEY WORK

SL NO	ITEMS		PREFERRED MAKES	Financial quote for entire work (In Rupee)	Financial quote for entire work (Rupees in words)
A	FLOORING TILES	VITRIFIED	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		
Total of turnkey work					

Note: -

If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. In case of calculation error, lower cost will be accepted between actual cost & error cost.

Declaration by the Bidder: - (i) This is to certify that I/We before signing this tender have read and fully understood the Tender document viz terms & condition of the contract, rules regarding entire turnkey project work for Department of Cardiology. I/We agree to abide them.

(ii) No other charges would be payable by purchaser and there would be no increase in rates during the contract period.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

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.

Chapter –V
Tentative Format of Agreement/contract

(TENDER ENQUIRY NO.)

DEPARTMENT OF

This agreement is made at Rishikesh on the _____ day of _____ Two thousand seventeen between **Director**, All India Institute of Medical Sciences, Rishikesh, **acting through Administrative Officer, AIIMS, Rishikesh, having its office at AIIMS, Virbhadra Marg, Pashulok, Rishikesh-249201** (*hereinafter* called '**Client**' which expression shall, unless repugnant to the context or meaning thereof be deemed to mean and include its successors, legal representatives and assigns) of the **First Part**.

Second Part

M/s....., having its registered office, (*Hereinafter* called the '**Agency**' which expression unless repugnant to the context shall mean and include its successors-in-interest assigns etc.) of the **Second Part**.

WHEREAS the Client invited bids for certain goods and ancillary services viz. EQUIPMENTS (Brief description of goods" and services) and has accepted a bid by the supplier for the supply of those goods and services to AIIMS, RISHIKESH at Rishikesh on the terms and conditions stated below:

NOW THIS AGREEMENT WITNESETH AS FOLLOWS

3. In this agreement words and expression shall have the same meaning as are respectively assigned to them in the conditions of contract referred to:

4. The following documents shall constitute the contract between the contracting authority and the supplier, and each shall be read and construed as an integral part of the contract:-

- a. This contract agreement:
- b. Instructions of contract:
- c. General conditions of contract:
- d. Financial conditions of contract:
- e. Technical specifications:
- f. The supplier's bid and original price schedules
- g. The Contracting Authority's notification of contract.

5. This contract shall prevail all other contract documents. In the event of any discrepancy or inconsistency with the contract documents and then documents shall prevail in the order listed above.

6. In consideration of the payments to be made by the purchaser to the supplier as hereinafter mentioned, the supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the contract.

Contd...P/02

7. The Purchaser hereby covenants to pay the supplier in consideration of the provision of the goods and services and the remedying of defects therein, the contract price or such as may Become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

Brief particulars of the goods and services which shall be supplied/provided by the supplier are as under

S/No	Item Srl No	Name of Instruments/Equipment	Quantity to be supplied	Unite Rate for (Including all tax & Expenditure) including 5 Years Warranty.	CMC for 05 Years	Total Amount (Including All Tax & Expenditure)
Total Amount						

8. The above rates are inclusive of excise duty, transportation, insurance, inspection & testing charges, any incidental charges and CST/VAT.

9. The prices shall be valid for one year from the date of agreement, unless revoked and thereafter for a further period as agreed upon mutually.

10. The suppliers shall agree to deposit 10% performance security of the total cost of the item, along with as mentioned of terms & condition of tender documents in advance in the form of FD/BG/TD/CD, against the value of particular supply order for a period **of 63 months** plus six months more validity (as per guidelines of Reserve Bank of India) from the date of placement of letter of award.

11. The supplier shall supply the goods with delivery challan directly to the indenters/purchase at the address (installation site) given in the supply order.

12. The supplier shall raise bills in duplicate directly in the name of indenting officer/purchaser against the supplies made directly by them to the indenter's satisfaction in compliance with the conditions contained in the supply order.

13. The supplier has carefully read all the conditions of tender for supply of equipment (as tabulated above) floated by the AIIMS Rishikesh, and agreed to accept all terms and conditions laid in the tender document. The terms and conditions mentioned in the tender document are part of this agreement and acceptable and abide by it to the agency before signing this contract.

14. In case of any dispute between the '**Agency**' and '**Client**', '**Client**' shall have the right to decide. However, all matters of jurisdiction shall be at the local courts located at Rishikesh/Dehradun.

15. The firm will provide complete warranty for for five years followed by CMC for next five years after the completion of the warranty period.

16. The firm will have to deposit the performance security of 2.5% of Total amount of Equipment's as security for CMC after completion of Warranty Period before releasing Warranty Performance Security Deposited under clause 10 above.

THIS AGREEMENT will take effect from _____ day of _____ Two thousand Sixteen and shall be valid for ten year.

IN WITNESS WHEREOF both the parties here to have caused their respective common seals to be hereunto affixed / (or have hereunto set their respective hands and seals) the day and year mentioned above in Rishikesh in the presence of the witness:

<p>For and on behalf of the 'Agency' Signature of the authorized Official Name of the Official</p> <p>Stamp / Seal of the 'Agency'</p> <p>SIGNED, SEALED AND DELIVERED</p> <p>By the said _____ _____(Name)</p> <p>Signature of Authority</p> <p>_____ on behalf of the 'Agency' in presence of</p> <p>Witness _____</p> <p>Name _____</p> <p>Address _____ _____</p> <p>Signature</p>	<p>For and on behalf of the 'AIIMS, Rishikesh' Signature of the authorized Official Name of the Official</p> <p>By the said _____(Name)</p> <p>Signature of Authority</p> <p>_____</p> <p>on behalf of the 'AIIMS, Rishikesh' in presence of</p> <p>Witness _____</p> <p>Name _____</p> <p>Address _____ _____</p> <p>Signature</p>
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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 recognized 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 63months (*it may also be ensured by the bank that as per RBI guidelines its validity should be up to six months of its expiry*) 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