

# All India Institute of Medical Sciences

Veerbhadra Marg, Pashulok,  
Rishikesh-249203



**Tender document for procurement of**  
**Picture Archiving and Communication System (PACS)/Radiology Information System**  
**(RIS) for Radiology Department**  
**AIIMS, Rishikesh**

Ref. No.	:	24/Radiology/289/2017-Rish(Admn)
Publishing Date	:	08/01/2018 at 9.00 AM
Pre-Bid Meeting	:	18/01/2018 at 3.00 PM
Bid Submission Start Date	:	22/01/2018 at 9.00 AM
Last Date of Bid Submission	:	06-02-2018 at 3.00 PM
Bid Opening	:	07/02/2018 at 3.30 PM

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

**TENDER NOTICE**

**PACS/RIS System for Radiology  
AIIMS, Rishikesh, Virbhadra Marg, Rishikesh, Dehradun  
Dated:08/01/2018**

1. E-tenders in Two Bids (Technical & Financial) are invited on behalf of the Director, All India Institute of Medical Sciences, Rishikesh from interested and eligible manufacturers for providing **Picture Archiving and Communication System (PACS) / Radiology Information System (RIS) for Radiology** at AIIMS Rishikesh.
  2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
  3. The complete bidding process is online. Bidders should be possession of valid digital Signature Certificate (DSC) for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0135-2462915.
  4. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.
  5. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
  6. Hard Copy of **original technical bid** with earnest money deposit and tender fee etc. must be delivered to AIIMS, Rishikesh on or before last date/time of Bid Submission as mentioned above. The bid without EMD and tender fee will be summarily rejected. The scanned copy of the EMD and Tender fee should be attached in the technical bid.
  7. The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.
- The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.**
8. Any future clarification and/or corrigendum(s) shall be communicated through Administrative Officer on the AIIMS, Rishikesh website: [www.aiimsrishikesh.edu.in](http://www.aiimsrishikesh.edu.in). And other Central Government Procurement Websites (*subject to its access of AIIMS Rishikesh*). The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only these bids, taking care of such corrigendum(s) shall be considered for finalisation of the tender.
  9. Bidder should necessarily enclose a covering letter mentioning a summary of applied document with proper numbering. Secondly, bid should also attach a compliance sheet as per specification mentioning that they are complying to all specification or have any variation.
  10. The pre bid conference would be held on **18/01/2018 at 03.00 PM** in the office of Tender Opening Room, AIIMS, Rishikesh. All firm's representative who are attending the pre bid meeting, shall produce an authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letter head.

11. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of

terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

34. The tenderer hereby guarantees that the equipment supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The date of manufacturing of the equipment/goods supplied will not be more than 3 (Three months) old. The tenderer will have further guarantees that the said equipment would continue to conform to the description and quality aforesaid for a period of five (5) years guarantee period (As per MoH&FW guidelines), from the date of installation of the said equipment to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment be discovered not to 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.

35. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original, failing which, tender may be disqualified.

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

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

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

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

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

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

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

**Applicable Law:**

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

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

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

46. At the time of awarding the contract, the purchaser reserves the right to increase or decrease up to twenty five (25%), the quantity of goods (round of to nextwhole number) without any change in the unit price and other terms & conditions quoted by the bidder.

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

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*(Signature & Stamp of the bidder)*

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

**(B) Financial terms and conditions**

1. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for AIIMS Rishikesh (Site of installation/Use). Rates should be mentioned both in figures and in words.
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. **Guarantee / Warrantee Period:** The Tenderers must quote for 5 years' comprehensive warranty (Including all Spares, Accessories software application, if any and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories software application, if any and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taken into account on basic price and post warranty CMC.
4. **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.
5. **Payment terms:** -If the supplier supplied the requisite item within stipulated time and installation is pending on the part of AIIMS Rishikesh on various reasons, up to 90 *per cent* payment against supply can be made by the AIIMS Rishikesh on the case wise only, but will not be considered as precedence in all cases.  
**(A)Payment Term for Imported goods:** For imported goods payment shall be made in the following manner:
  - a) On shipment: 75 % payment of the contract price shall be paid 60 days after presentation of shipping documents {goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country} and upon the submission of the following documents: -



- I. Four copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- II. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
- III. Insurance Certificate;
- IV. Certificate of origin by the chamber of commerce of the concerned country;
- V. Certificate of country of origin;
- VI. Manufacture's / Supplier's warranty certificate;
- VII. Manufacturer's own factory inspection report.

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

## **B) PAYMENT TERMS FOR INLAND GOODS**

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

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

### **On Acceptance: -**

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

6. **L1 Clause:** L1 firm will be decided on the basis of Total Price in addition with the CMC charges quoted by the firm. All expenses should be included in the BOQ online except the CMC charges. The CMC charges should be quoted separately in format provided in pdf.

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

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(Signature & Stamp of the bidder)

**“PACS/RIS System for Radiology”**

**AIIMS, Rishikesh**

**TECHNICAL BID**

**(Documents to be attached in the “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 bidder or not.	
4. Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5. Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof.	
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	
<b>8. Turnover</b> 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 05 crores duly certified by the Chartered Accountant) b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India. c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. d. Start-ups may submit its Start-up Registration for consideration ( <i>Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory</i> )	
9. PAN No. (Please attach copy)	
10. GST/VAT/Service Tax Registration Number. (Please attach copy)	
11. Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
12. Power of Attorney/authorization for signing the bid documents (Not required in case of sole-proprietorship.)	
13. Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
14. Please declare that proprietor/firm/company has never been black listed/debarred by any organization. An oath certificate to this effect may be enclosed on Rs.10 notarised stamp paper.	
15. Please submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that they will provide complete warranty for all equipment's/items for 5 (five) years followed by CMC for further 5 (five) years of these equipment's/items.	
16. Please furnished a notarised affidavit on Indian Non judicial stamp paper of Rs.10/- that they will supply spare parts for next 10 years at reasonable price by submission of suitable benchmarks.	
17. Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment in previous 3 years	
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. 1180/- (if downloaded from website) <b>DD No.</b> <b>Date:</b> <b>Payable at-</b>

**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:

**“PACS/RIS System for Radiology”  
For**

**Chapter-II (Schedule of requirements& EMD)**

**Table-I**

**Details of items & their tentative quantity and EMD**

The following items manufactured by Indian/International firms of repute are required.

<b>S.No.</b>	<b>Item</b>	<b>Quantity</b>	<b>EMD</b>
1	<b>PACS/RIS System for Radiology</b>	01	Rs. 7,00,000/-

**MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM**

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

To

The Administrative Officer,  
All India Institute of Medical Sciences  
Rishikesh

Dear Sir,

TENDER: \_\_\_\_\_.

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

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

The authorization is valid up to \_\_\_\_\_

Yours faithfully,

(Name)

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

AIIMS Rishikesh tender Enquiry No. F.No 24/Radiology /289/2017-RISH (ADMN)  
**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC**  
**SECURITY**

To

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

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

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

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

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

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

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

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

.....  
Name and designation of the officer

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

**Instructions for Online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

### **REGISTRATION**

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR TENDER DOCUMENTS**

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

### **PREPARATION OF BIDS**

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.

- Please note the Number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG Tender No. : ..... formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

### **SUBMISSION OF BIDS**

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- The documents being submitted by the bidders would be encrypted using PKI encryption all techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key
- Further this key is subjected to asymmetric encryption using buyers/bid opener’s public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
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- Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid Tender No. : ..... summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

**ASSISTANCE TO BIDDERS**

- Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120- 4001002.

**Technical Specifications for Picture Archiving and Communications System (PACS)/ Radiology information System (RIS) for AIIMS (Rishikesh)**

**PROJECT OVERVIEW**

This document solicits proposals from qualified Bidders with sufficient experience in the design and production of Radiology PACS (client based cluster architecture solution with web based functionality also available) as well as the installation, user training, and on-site maintenance and repair of all equipment components and subsystems related to the Archiving and Display of images created by diagnostic radiology imaging equipment. Said Experience is to include:

Expertise in configuring, installing and fine tuning a database management system, data server and archive media subsystem(s);

- Expertise in configuring, installing, and applications programming to insure image quality and utilization acceptable to each of the radiologists;
- Expertise in interfacing all components of the proposed subsystems and components to the new/existing Network, specifically interfacing to the suite of DICOM SOP classes required in this project;
- Expertise in interfacing the proposed PACS Server(s) to the Hospital Information System and to insure the complete and successful bi-directional communications required to support the specified applications.
- Project Management Expertise, as the Bidder is expected to manage the installation and testing of the system;
- Expertise in interfacing the proposed PACS Server(s) to Non DICOM equipment and to insure the complete and successful communications required to support the specified applications.
- Expertise in conducting a successful “Training the Trainer” program to insure that Client personnel will be properly trained on the use and care of the proposed system and that the Training Program can be successfully repeated on site by Client personnel as required supporting a fully digital radiology department.

**Qualification Criterion**

PACS Manufacturer must bid directly

- PACS manufacturer should be a company registered in India for minimum 5 years
- PACS should have been deployed at more than 10 sites within India out of which at least 2 should be in government hospitals. List of installations to be provided.
- PACS must be fully web based
- PACS must be US FDA and CE Certified, HIPAA compliant and US IHE compliant.
- US FDA approved Zero foot print viewer.
- PACS Vendor should preferably be ISO Certified.
- The solution should not use any free/open source DICOM tools. Vendor should submit a certificate declaring conformance for this.
- Bidder will be asked to demonstrate the features and inability to show any feature can result in their bid being rejected.

- Vendor should make provisions for onsite technical support with special mention about maximum down time if any.
- The overall implementation duration should not exceed 4-6 weeks.

## **Technical requirements**

### **Major requirements**

The PACS shall be client based cluster architecture solution with web based functionality also available with all users accessing all functions through the major Internet Browsers.

- With the intention of Client to eliminate paper, the bidder shall include a strategy for document scanning and management of the application that can be integrated into the PACS.
- PACS should support multithreading technology for DICOM communication.
- There should be no restriction of License in PACS based on exams per annum.
- Offered PACS should support high volume reading.
- Solution should support image viewing from Tabs based on android and ios interfaces.
- Offered system should have a common GUI for all PACS workplaces
- PACS should support and connect unlimited modalities both present & future. No extra license cost will be applicable for any new modality connectivity. All new modalities will be connected free of cost.
- PACS should integrate bidirectionally with HIS in future with HL7 interface compatibility. The responsibility for the same lies with the vendor which he has to do without any extra cost including additional hardware/software/licences if required.

### **System**

- The proposal shall include a detailed description of the architecture of the system, documenting the system topology and the components of the system.
- The system shall meet all performance requirements in this specification with the database storing **05 years** examinations.
- The system shall support system-wide authentication of users through the use of a unique user-ID and password for each user or through an alternative approach with equivalent result.
- The bidder shall provide mechanisms to assure the security of all system components to minimize loss of equipment or data due to theft or malicious tampering.
- The system should provide same user interface to any user if logged from any computer
- In case of network disconnection the system shall automatically resume the image display on reconnection
- System shall display the complete image available at that moment in case of network disruption or disconnection.
- Should support collaboration features like Video conferencing, Chat and Desktop sharing from the PACS directly to allow users to collaborate with each other

- Any user preferences like keyboard shortcuts, worklist columns once setup by a user should be available if the user logs from any computer.

### **Main PACS Application/Database**

- The system shall support the creation of individual users each having individually configurable access-privileges.
- The system shall provide an access control mechanism that enables assignment of unique access privileges to individual users to access or alter system resources and data.

Examples of such functions are:

- Displaying approved reports
- Displaying unapproved (unsigned) reports
- Displaying images
  
- Printing images
- Burning CD/DVD's
- Changing the status of images and exams
- Changing the display attributes of exams
- Approving reports
- Creating, modifying, or deleting studies

The database should also support a direct DICOM Query/Retrieve interface which should be viewer version 3:0 or above , such as could be used for 3rd party workstations or modality retrievals, without noticeable performance degradation.

- A system-wide administration function shall be provided to facilitate user profile creation, worklist query creation, system configuration management, data integrity checks and maintenance, and any other administration functions as required by the implementation of the product. A graphical user interface for this function is required. In particular, patient merges and split, as well as exam merge and split features shall be provided.
- The system shall implement the following minimum DICOM SOP Classes
  - DICOM Storage
  - DICOM Verification
  - DICOM Print
  - DICOM Q/R
  - DICOM Send

### **Image Archive**

- The system shall provide sufficient storage capacity to provide direct rapid access to 06 months of image production in online archive.
- Secondary archive should store 05 years data and must retrieve automatically without manual intervention
- The vendors are required to assess the workload of department by visiting department and in consultation with head. The responsibility of storage to be adequate for this period lies with the vendor.

- Should be Vendor Neutral Archive (VNA) preferably level 3 and above.
  - The system shall not store any image in the storage system with non-reversible compression. (Lossy compression)
  - The system shall make exams available for retrieval by workstations.
  - The storage system shall tolerate the failure of a single disk drive without loss of data.
  - The storage system shall remain operational in the event of the failure of a single disk drive.
  - The storage system shall remain operational during the service required to correct a failed disk drive.
  - The storage system shall support the storage and retrieval of all SOP classes needed to accommodate the present modalities. It shall support Explicit as well as Implicit Value Representation as part of its Syntax and store Explicit VR as its default transfer syntax.
  - The system shall provide a DICOM interface to which DICOM-compliant external devices may connect. External devices are devices not supplied with the system and include but are not limited to image review workstations, image printers and modalities.
  - The system shall include a DICOM Query/Retrieve SCP which is based on the Patient and Study Root Information model and which provides query responses for all studies, series, and images stored in either the Storage System and/or the Archive System.
  - The system shall include a DICOM Modality Worklist Management SCP
  - The system shall include a DICOM Storage Commitment SCP which accepts storage commitment by the modalities.
  - The bidder shall provide with the proposal the Conformance Statements covering all DICOM services of the system for each individual component.
  - The external DICOM interface shall support storage of ultrasound images using the Ultrasound Storage SOP Class.
  - The system shall provide DICOM Support for ultrasound & cathlab cine loops.
  - Image library function for research and marking interesting cases must be available.
  - Teleradiology module for accessing images and reporting from remote locations should be available.

### **Image Display Workstations**

Two categories of Display workstations are required:

- Diagnostic workstation (DWS) primarily located in the radiology department and used for Diagnostic interpretation, and
- Review workstations (RWS) primarily located in radiology department for reviewing purposes.

### **User Interface**

- The cursor shall move within and between monitors in a smooth and continuous manner under the control of a mouse or trackball pointing device with the cursor remaining visible during its movement.

- The system shall enable all users to create their own profiles accessible from any workstation which specifies at a minimum:
  - Window width and level presets
  - Default display protocols
  - Mouse Settings
  - Worklist Columns as per choice
  - Electronic Signature
  - Autorefresh time for Worklist
  - Size of Worklist
- The system shall provide the capability to access user specific hanging protocols from each workstation. These hanging protocols should be created through a user friendly GUI which would allow a user to edit the default protocols and/or generate them from scratch. These hanging protocols will be modality and body-part specific.
- The system shall provide a mechanism for automatic logoff of a user at a workstation after a configurable period of workstation inactivity.

**Exams, Folders, Worklists, and Queries**

- The system shall allow dynamically updated worklists to be created by the system administrator for a specific user. For the purpose of this RFP, a worklist is any database query, which returns a list of exams or patients. Dynamically updated means that as exams change status in such a way as to change the contents of a worklist, the worklist is automatically refreshed within a specific time. The requirement for dynamic updating can be satisfied by periodic polling of the database with a frequency defined by a parameter which is configurable by the system administrator.
- A worklist entry for an exam shall include at least the patient name and ID, examination procedure, exam date and time, report status, modality, number of images, referring doctor, age & sex.
- The system shall support worklist which display a list of exams based on queries of:
  - patient name
  - patient ID
  - UHID/hospital registration number
  - modality
  - report status
  - study date
  - Between a range of dates
  - Marked studies
- Worklists shall be generated and stored centrally to the PACS network so that a user, logged on to any workstation, may access any worklist from the network and display exams selected from this worklist to his/her current workstation location.
- Worklist should be customizable for each user and allow the user to display their own set of columns. User should also be able to setup his page size and dual monitor support.

- The workstation shall allow the user, with a single click, to sort the studies on any of the columns displayed in the Worklist.
- Offered system should utilize a data locking methodology, if several concurrent users access images i.e. Concurrent users will get reading access to images & no reporting except by 1st user is allowed.
- All exams shall be accessible from every workstation, limited only by security mechanisms.
- Old exams should be automatically displayed in the image viewer along with history & report. User should be able to load upto 4 priors of any modality for comparison
- A mechanism shall be provided to permit a user with proper privileges to select images or exams for inclusion into one or more manually-created folders for teaching and research purposes.
- It shall provide a mechanism to lock a study to prevent deletion of that study by another user
- It shall provide a mechanism to attach a message from one user to another to every study
- The Worklist shall display STAT request by easily identifiable color codes
- Should be possible to merge 2 studies together
- Should be possible to split a study into two
- Should support scanning of paper/reports and conversion to DICOM series
- The Worklist shall display the studies which have been locked or printed with some indication
- It should be possible to add a keyword to a study and then search & retrieve a list of studies based on that keyword
- It should be possible to search report content for any user definable keyword and get a list of reports with such keywords.

### **Reports**

- The workstation shall allow creation of reports based on user selectable templates
- The workstation shall allow pre-configured header/footer in the report
- The report window shall be opened separately and multiple such windows can be opened
- The report shall allow insertion of key images for printing in user selectable format
- The report shall automatically display the patient demographics from the DICOM header
- The workstation shall allow a user with the proper privileges to display the report for any reported exam without requiring the display of its associated images.
- The administrative status of any report (e.g., approved or not approved) shall be indicated when the report is displayed.
- The system shall allow creation of multiple templates according to user/modality/organ
- The system shall support capture and attachment of audio file by the radiologist user for reporting
- The system shall allow the transcriptionist to review the audio and transcribe the report and submit it for approval of the radiologist

- The report shall support all standard formatting functions available in MS Word
- Report text search engine should be available
- PACS should support email/SMS of reports automatically on finalization.
- PACS should support speech recognition using dragon software.

### **Exam Display, Arrangement and Image Processing**

•The PACS system should be able to integrate with viewing software of major vendors like E-film, apple Osiris and radiant etc as well as software like flash, active X,java script and java applet .

The workstation shall support the display of multiple images from one exam on one or more monitors.

- It shall be possible to choose among multiple image display formats for the monitors of a workstation, for example: 1:1, 2:1, 3:1, 4:1, 6:1, 9:1, 16:1, 20:1 and 24:1
- The system shall provide user-selectable, user-definable protocols for display of the images of an exam where the protocols are specific to the type of exam. The intent of this requirement is to allow physicians' preferences for display to be satisfied.
- The workstation shall allow a user with the proper privileges to save the information that controls the display of the images of an exam, including window width and level, display sequence, orientation, magnification, pan position, and any annotations.
- The workstation shall support the display of multiple exams simultaneously.
- The system shall provide for display of multiple exams of a patient. The intent of this requirement is to support the presentation of historical studies along with a new study for diagnosis.
- The system shall support rapidly moving to the next or previous exam/series/image in a Worklist using the equivalent of one keystroke.
- The workstation shall have the capability to display CT and MRI scout images with the slice position lines overlaid on the image. User shall have the option of displaying all lines or only 1 line specific to one image
- Rapid sequential paging through images of an exam displayable on a single monitor shall be provided.
- Should display indication of printed studies
- Should display indication of finalized studies
- Should be possible to give keywords to any images and search on those later
- If multiple image series are viewed, it shall be possible to page through the series independently.
- The workstation shall support arranging groups of images into a stack (with only the top image visible) and displaying them sequentially forward or backward.
- The workstation shall support Thumbnail view providing a quick glance at the series within a study.
- The workstation shall support image display based on Acquisition time, Table position and Instance number of CT images
- The workstation shall support linking two or three image stacks and moving through them synchronously so that the same anatomic position or image sequence position is displayed in each stack.



- The Workstation shall provide for full screen image display and paging in this full screen window.
- A cine function with a user selectable, variable frame rate of at least 1 to 30 frames per second shall be provided.
- The cine function shall support user selectable continuous display, reverse playing and true size display of images.
- The user shall be able to extract frames from the cine file and save it as individual image.
- The workstation shall display all images of a cine file in user selectable display format in one keystroke/mouse click
- The workstation shall provide dynamic window width and level through the entire image grayscale dataset.
- The window width and level function shall be applicable to a single image, selected images or all images
- Window width and level values shall be displayed on the image in real time
- Display of the inverse grayscale of any image shall be supported.
- The system shall provide unlimited user-configurable window width and level defaults for each user.
- Window width and level defaults shall be user-, modality- and organ-specific.
- A rapid method to select among default window width and level values shall be provided. The intent of this requirement is to allow the user to jump between, for example, bone windows and soft tissue windows in CT using function keys.
- If an image is received from a modality along with a window width and level for viewing, the window width and level parameters shall be used for the initial display on the workstation.
- If an image is displayed for which no window width and level is available, the workstation shall select a set of values, which at least make the image visible as a starting point for subsequent manual changes.
- Ability to load different studies of different patients, side by side for comparison
- System should provide a quick filter function for one click search of studies (Weekly, Daily, Monthly)
- Predefined modality-specific display layouts
- The workstation shall allow user to convert image/series/study from DICOM to JPEG/BMP format for local storage.
- DSA Module is required for Cathlab images.

**Image Orientation, Zoom, Pan, and Magnifying Glass**

- The workstation shall allow sequential 90 degree clockwise and counter-clockwise rotation of any image as well as flip in the horizontal and vertical axes.
- The workstation shall support angular rotation in any degree
- It shall be possible to reorient a single image, selected images, or all images in one operation.
- The workstation shall be capable of enlarging an image by interpolation of pixel values.
- It shall be possible to zoom a single image, selected images, or all images in one

operation.

- Zoomed images shall be repositionable by panning (roaming) the image within the area allocated for display of the image.
- When the actual image size is greater than the monitor resolution or the resolution of the available display window, it shall be possible to display the image in True size
- The workstation shall include a magnifying glass function
- It should be possible to invert, reverse, flip an image or images

### **Region of Interest, Distance, and Angle Measurements**

- The workstation shall compute point-to-point measurements with automatically calibrated, user-selectable scales (micrometers, mm, cm, or inches).
- The workstation shall support angle measurement.
- The workstation shall support region of interest mean (in image units, e.g., Hounsfield units for CT) and area measurement based on ellipses and rectangular tracing.
- The Workstation shall provide a tool to compute Cobbs Angle
- The Workstation shall provide Protractor and Cross Product calculation tools
- The tools should have user definable color and line settings
- The workstation shall allow cropping/masking of image using ellipse or rectangle
- The workstation shall allow user to select a region of interest and move it to another part of image for highlighting a pathology.
- The workstation shall allow automatic edge detection in a image
- The Workstation shall provide a tool to compute CT Ratio

### **Image Annotation**

- The workstation shall provide tools allowing the user to position and orient multiple instances of text and graphics (lines, arrowheads, rectangle, freehand and circles) for image annotation.
- The Workstation shall provide tool for automatic labeling of intervertebral space and vertebrae (Spine Labeling)
- It shall be possible to edit or delete the annotations if required at a later date
- It shall be possible to print the annotations on film if required
- It shall be possible to change the color, size and font of the annotations and set them as default.

### **Image Identification**

- The workstation shall display along with each image at least the following patient data, where appropriate for the image and modality:
  - patient name
  - patient ID
  - exam date and time
  - image orientation
  - kVp
  - mAs
  - pulse sequence
  - slice position

- image or slice number
- referring physician
- Institution Name
- Equipment Model
- All the above shall have configurable position for display on any corner of image and user can set it in default position.
- The workstation shall allow the user to toggle the display of image identification text on and off.
- The workstation shall provide a function to display the entire contents of the DICOM header for a selected image.

### **Utility Functions**

- During the execution of a time-consuming function, the workstation shall indicate that the system is working.
- The workstation shall provide a function to allow the user to protect selected images from deletion.
- The workstation shall provide a function to allow the user to mark interesting studies and search them.
- Should support a user-friendly admin user interface
- User creation and different rights assignment should be available
- Remote administration of workplaces and PACS servers should be possible
- Should be possible to store the client configuration data centrally
- IT Dashboard which provides information of major activities like number of users logged in, study status, DICOM Services status should be available
- Statistical reports must be possible to be produced based on different criterion like TAT, Study volumes, radiologist TAT, CD Written, Films printed etc
- Should be possible to export the MIS reports to MS Excel
- System should support roaming user profiles (After logon, the user-specific settings are loaded independently on the workplace).
- Settings should be saved in a central repository
- Should define user groups according to the departmental structures
- User administration possible should be without programming skills
- Should provide complete audit trail of activities in the system.

### **Hard Copy Printing**

- The workstation shall allow users with the proper privileges to print exams on any DICOM image printer connected to the network.
- No installable program must be required for printing films from any station
- Requests for printing shall not compromise workstation operation or performance.
- The workstation shall allow the user to choose from multiple standard image formats: 1:1, 2:1, 4:1, 6:1, 9:1, 12:1, 16:1, 20:1 and 24:1 in either landscape or portrait format.
- The workstation shall allow the user to create his own customizable non standard format like 1:3, 2:3, 2:5 etc
- The workstation shall allow the user to arrange the images of the examination within the selected image format.

- The workstation shall allow the user to produce multiple copies of the same image with one request, up to a maximum limit specific to the user.
- The workstation shall allow the user to cancel a print request which he has previously entered.
- Adding Header/Footer and changing the position of the same should be possible
- Hospital Icon /patient photo may be allowed to be added for printing
- The workstation shall allow user to select different film sizes and film orientation
- It shall allow configuration of multiple DICOM printers into the system
- The workstation shall allow the user to print multimodality images on same film.
- The system shall have a film composer window with ability to process images before printing
- The system shall also allow image printing on standard paper printers.

#### **CD/DVD - reader/burner**

- Client requires images that are brought in on CD's to be imported into the system and also needs to create CD or DVD's for patients and/or physicians to be taken.
- The images shall be imported and added to the permanent PACS database, in case it includes an in-patient and it has to be added to the patient record. Such studies should be flagged and easily identifiable
- System should write images in DICOM format on CD/DVD
- Should support Robotic CD/DVD Writers
- Should include a DICOM viewer on CD/DVD with features like W/L, Zoom, Pan etc
- Should support writing of multiple studies/multiple patients on the same Disc
- System should support writing in multi-session mode
- It should be possible to create individual label templates for CDs/DVDs
- Should be possible to add the report with images on the CD/DVD
- Should be possible to write DICOM images to USB sticks
- Should support Blu Ray DVDs
- Should support CD writing of Multiframe DICOM images including their viewing as cine.

#### **Advanced 3D Features:**

- Advanced 3D should be windows based
- Basic 3D processing like MIP/MPR should possible directly at the reporting workstation without additional application changing
- Following additional 3D features are required on 12 stations in radiology department for concurrent use
- Should work on Windows OS/Mac/Linux
- Multiplanar Reformat (MPR)
- MIP/AveIP/MinIP
- Curved Planar Reformat (CPR)
- Medial Axial Reformat
- Oblique/Double Oblique
- SSD
- Volume Rendering (VR)

- Auto Bone removal
- Table & Gantry Removal
- Volume Sculpting
- Volume Measurement
- Flythrough and Virtual Endoscopy
- 3D Clipping
- 3D Cursor

**Advanced Visualization software** with following features are required on 03 stations in radiology department for concurrent use

- Vessel Analysis (including coronary)
- Calcium Scoring
- Time-Volume Analysis (e.g. Cardiac Function)
- Segmentation, Analysis & Tracking (lung nodule analysis)
- Lung/Colon Sphere Finder Detection
- Multi-phase MR (basic, e.g. Breast MR)
- Parametric Mapping (e.g. for Breast MR)
- Time Density Analysis (e.g. perfusion)
- Dental Software

- CAD software for mammography.
- Fusion for CT/PET and other modalities
- CT/CTA Subtraction
- Flythrough (Colon)

**RIS Features**

- Patient registration module with ability to create study orders and forward them to the Modality using DICOM MWL
- Scheduling of patient appointments is required
- User should be able to create multiple study orders and schedule the orders for different modalities
- User should be able to mark patients under various categories like MLC,serious diagnosis,doubtful cases,VVIP and generate a report of such patients
- User should be able to add patient specific examination protocols for any study
- User should be able to add charges for any study and generate invoice & collection reports
- User should be able to generate statistical reports
- Should be able to print/scan patient consent forms for various studies
- User should be able to scan & attach prior reports as DICOM file
- Worklist should display status of the study in realtime
- Automated Critical Results Alert system is required.

<b>RIS-PACS Software Licenses</b>	
<b>Description</b>	<b>Quantity</b>

Connectivity to DICOM Modalities	Unlimited
Integration with HIS	01
RT Support	Required
DICOM Modality Worklist Licenses	Unlimited
Teleradiology Licenses	12
Radiologist Workstation Licenses	12
Viewing Licenses	Unlimited
MIP/MPR Licenses	12
Mammography Viewer Licenses	02
Annual Study Volume Licenses	Unlimited
Mobile/Tab Viewing Licenses	Unlimited
Vendor Neutral Archive	Required (level 3 or above)
<b>Peer Review Module</b>	Required
<b>Critical Results Alert Module</b>	Required
<b>Image library &amp; CME module Licenses</b>	Unlimited
Film Printing & CD Writing Licenses	Unlimited
Implementation & Training	<p>The selected bidder must undertake to provide required trainings to the stakeholders so that they can undertake the work efficiently under the new system. Trainings will include:</p> <p>The selected bidder is responsible to manage the training schedules, training facilities, training material, training infrastructure including faculty.</p>
Onsite Engineer	required
Warranty Support and Maintenance	<p>The selected bidder MUST warrant that the systems supplied shall have no defects arising from design or workmanship or any act or omission of the bidder. The reported issues need to be resolved as per SLA parameters. The warranty shall remain valid for a period of 5 year post GO-LIVE.</p>

<p>Comprehensive Maintenance including free upgrades</p>	<p>The selected bidder must undertake to provide comprehensive annual maintenance of the solution including all spares, accessories and labor for a period of 5 years post warranty period. Charges for the comprehensive annual maintenance need to be quoted in the financial bid along with the quote of development of software.</p> <p>Scope of Comprehensive Annual Maintenance will be same as the scope under Warranty Support and maintenance.</p> <p>All upgrades shall be done by the vendor free of cost during the warranty/CMC period.</p>
<p>Advanced 3D License (Integrated with PACS Viewer and should be windows based)                  Multiplanar Reformat (MPR)                  MIP/AveIP/MinIP                  Curved Planar Reformat (CPR)                  Medial Axial Reformat                  Oblique/Double Oblique                  SSD                  Volume Rendering (VR)                  Auto Bone removal</p>	<p>12</p>

<p>Table &amp; Gantry Removal                  Volume Sculpting                  Volume Measurement                  Flythrough and Virtual Endoscopy                  Image registration                  Drag &amp; Drop Image Fusion                  Active Contour Segmentation                  3D Clipping &amp; 3D Cursor</p>	
<p><b>Advanced Visualization Module with following modules</b>                  Vessel Analysis (including coronary)                  Calcium Scoring                  Time-Volume Analysis (e.g. Cardiac Function)                  Segmentation, Analysis &amp; Tracking (lung nodule analysis)                  Lung/Colon SphereFinder Detection                  Multi-phase MR (basic, e.g. Breast MR)                  Parametric Mapping (e.g. for Breast MR)                  Time Density Analysis (e.g. perfusion)                  Dental Software                  Fusion for CT/PET and other modalities</p>	<p>3 Concurrent</p>

CT/CTA Flythrough (Colon)	Subtraction
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<b>Hardware</b>	
<b>Application / Database Server</b>	Our requirements are of 6 months online storage and 5 years of complete storage. The vendors are required to assess the workload of department by visiting department and in consultation with head. The responsibility of storage to be adequate for this period lies with the vendor.
<b>SAN Storage</b>	
<b>NAS Storage</b>	
<b>Cloud storage</b>	

<b>Diagnostic Workstations</b> Workstation Intel® Xeon® processor CPU, Microsoft Windows (latest version) 16GB RAM 1 TB 7200 RPM SATA 6G 1st Hard Drive Slim SuperMulti DVDRW SATA Optical Drive USB Keyboard USB Optical Mouse DVI to VGA Adapter 21.5-inch IPS Display 5 Years Warranty	12
3 MP Color Duel Head Medical Grade Monitor with 5 years warranty (34 inch ultrawide panoramic color tft monitor) (Barco or equivalent)	10
6 MP Fusion Color Medical Grade Monitor with 5 years warranty(34 inch ultrawide panoramic color TFT monitor) (Barco or equivalent)	02
Speech Recognition Software with Radiology Library with Philips or equivalent USB Speechmic	12
CD/DVD Robotic Writer (2 Drives/100 Disc Capacity)	01
MS Office for Radiologist Workstations	12
<b>Router, Rack &amp; KVM Switch with LCD Monitor</b>	Specifications of hardware to be submitted by respective vendors as per software and hospital requirements with minimum of 5 year warranty
10 PCs for technologist use for RIS functionality to be stationed at each modality.	



\* Any other hardware as may be required for soft ware as per hospital requirement.

AIIMS Rishikesh expects this to be a “**TURN KEY**” project, meaning that all items and services required to complete the project are to be included in the bid, or specifically noted if not. The vendor is advised to have a site visit and inspect the entire department and modalities to be connected. All hardware required to connect these modalities including the networking cables/switches etc. are to be done by the vendor and the cost of same is to be included within the quotation. AIIMS Rishikesh expectation is that upon project completion, all hardware, software, and professional services required to implement the **RIS/ Picture Archiving and Communications System** will have been provided. AIIMS Rishikesh also expects that this equipment will meet or exceed the bid specifications. It is the prospective vendors’ responsibility to ensure that all equipment, labor, and necessary engineering time are included in the submitted bid to cover the stated project scope.

- ❖ The vendor is required to attach a compliance statement for each specification given in the tender.