



**All India Institute of Medical Sciences, Raipur**

G.E. Road, Tatibandh, Raipur- 492099, Chhattisgarh

Tele: 0771- 2971307, email: storesofficer.hp@aiimsraipur.edu.in

Website: [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in)

**DISCLAIMER**

This tender is not an offer by the All India Institute of Medical Sciences, Raipur, but an invitation to receive offer from bidders/firm/agency etc. No. contractual obligation whatsoever shall arise from this tender process unless and until as formal contract is signed and executed by duly authorised officers of AIIMS, Raipur with the selected bidder/firm/agency.

**Notice Inviting Tender**  
**For**  
**“Supply, Installation, Testing, Commissioning, Running, Maintenance and**  
**Operation of Pneumatic Air Tube System on Turnkey basis”**  
**at**  
**All India Institute of Medical Sciences, Raipur**

**CRITICAL DATE SHEET**

Published Date	17-05-2019 at 6:00 pm
Bid Document Download / Sale Start Date	17-05-2019 at 6:30 pm
Clarification Start Date	18-05-2019 at 10:00 am
Clarification End Date	30-05-2019 at 3:00 pm
Pre bid meeting	30-05-2019 at 3:30 pm
Bid Submission Start Date	01-06-2019 at 10 : 00 am
Bid Submission End Date	18-06-2019 at 6:00 pm
Bid Opening Date	20-06-2019 at 3:00 pm
Tender document cost	<b>Exempted under GFR 2017</b>
EMD cost	<b>₹ 15,000,00.00</b>

## **I. NOTICE INVITING TENDER**

1. Online bids are invited on behalf of Director AIIMS Raipur in single stage two bid system from Reputed, Eligible and Qualified Tenderer agencies to enter into Annual rate contract for **Supply, Installation, Testing, Commissioning, Running, Maintenance and Operation of Pneumatic Air Tube System on Turnkey basis. Manual bids shall not be accepted.**
2. Tender document may be downloaded from AIIMS, Raipur web site [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in) (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> as per the schedule as given in CRITICAL DATE SHEET.
3. Bid shall be submitted online at CPPP website: <https://eprocure.gov.in/eprocure/app>.
4. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
5. Tenderer who has downloaded the tender from the **AIIMS, Raipur web site [www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in)** and Central Public Procurement Portal (CPPP) e-Procurement website <https://eprocure.gov.in/eprocure/app> **shall not tamper/modify the tender form including downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender shall be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with AIIMS Raipur.

### **General Terms and Conditions:-**

1. **Manual bid shall not be accepted in any circumstance.**
2. The complete bidding process in online bidding, Bidder 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.
3. **Tenderers are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.**
4. **Quotations/Bid should be valid for 180 days** from the tender due date i.e. tender opening date. The bidder should clearly indicate the period of delivery & warranty terms etc. whichever is applicable.
5. The Tender/Bid will be opened online at website <https://eprocure.gov.in/eprocure/app> on Store office at AIIMS Raipur Premises at the time of bid opening.
6. **AIIMS Raipur reserves the rights to accept/reject any bid in full or in part or accept any bid other than the lower bid without assigning any reason thereof. Any bid containing incorrect and incomplete information shall be liable for rejection.**
7. The Tender/Bid will be opened online at website <https://eprocure.gov.in/eprocure/app> in Stores office at AIIMS Raipur Premises at the time of bid opening.
  - i. Only those financial bids will be opened whose technical bids are found suitable by the expert committee appointed for the scrutiny of the tender.
  - ii. No separate information shall be given to individual bidders. In incomparable situation, the committee may negotiate price with the technically and financially qualified bidder before awarding the bid.
8. Tenderer to submit the scanned Copies of original documents (with technical bid) defining the constitution or legal status, place of registration and principal place of business of the company or firm or partnership, etc.
9. The competent authority reserves all rights to reject the service if the same are not found in accordance with the required description / quality.

10. Rates quoted should be inclusive of all applicable taxes etc. at FOR AIIMS Raipur. Tenderer must mention applicable taxes/duties clearly.
11. Proposed work described in Tender will have to be implemented at AIIMS, Raipur. No transportation/cartridge charges will be provided for the same.
12. Proposed work should be run on all days on 24 x 7 x 365 basis.
13. Unloading of materials will be arranged by supplier/service provider agency for the proposed work.
14. The tender document must be accompanied by copy of PAN, Certificate of firm/company registration and GST.
15. The quotations should be given for the items in the same order as in the tender document.
16. The supplier/service provider must be able to provide the proposed work within specified time period as prescribed in the Contract/Purchase Order. Failing which the EMD will be forfeited. Furthermore on completion of the stipulated time period, Purchase Order may be cancelled and award may be given to another qualified bidder in negotiated terms & conditions.
17. All disputes shall be subject to Raipur Jurisdiction only.
18. The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.
19. In the event of any dispute or difference(s) between the AIIMS Raipur and the supplier/service provider (s) arising out of dissatisfaction on proposed work according to the specifications or any other cause whatsoever relating to the contract or purchase order before or after the proposed work has been executed, shall be referred to the concerned authority of AIIMS Raipur who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act 1996. The decision of the arbitrator shall be final and binding on both the parties.
20. Full description & specifications, make/brand and name of the tenderer agency must be clearly mentioned in the tender, failing which the tender will not be considered.
21. **AIIMS Raipur reserves the rights to accept/reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.**
22. In case the supplier/service provider requires any elucidation regarding the tender documents, they are requested to contact to the Stores Officer, AIIMS Raipur through e-mail storesofficer.hp@aiimsraipur.edu.in on or before 00-00-2019 at 3:00 PM. and Earnest Money Deposit (EMD) in form of demand draft Pay Order of ₹ 10,000,00/- towards refundable EMD from a Schedule bank in favour of "All India Institute of Medical Sciences, Raipur" payable at Raipur and scanned image to be uploaded with technical bid. The demand draft should be valid for 90 days (Demand Drafts must be complied with CTS 2010 standards prescribed by Reserve Bank of India). Without the EMD the bid will not be considered. The EMD of the successful bidder will be returned to them without any interest after completing the successful execution of Agreement. The earnest money of unsuccessful bidders will be returned to them without any interest after awarding the offer.

## **II. Other Terms and Conditions**

### **1. Earnest Money:-**

S.No.	Name of the Work	EMD
1.	<b>Supply, Installation, Testing, Commissioning, Running, Maintenance and Operation <u>Pneumatic Air Tube System on Turnkey basis</u></b>	<b>₹ 15,000,00.00</b>

Earnest money (i.e. ₹ 1000,000.00) by means of a Bank Demand Draft/ FD, a scanned copy to be enclosed. It is also clarified that the bids submitted without earnest money will be summarily rejected. The DD/FD may be prepared in the name of "All India Institute of Medical Sciences, Raipur (AIIMS RAIPUR)". The EMD cost must reach at officer of the Stores Officer Gate no.1, Ayush PMR Building, 2nd Floor Room no. 56 AIIMS, Raipur before opening of tender.

i) No request for transfer of any previous deposit of earnest money or security deposit or payment of any pending bill held by the AIIMS Raipur in respect of any previous supply will be entertained. Tenderer shall not be permitted to withdraw his bid or modify the terms and conditions thereof. In case the tenderer fail to observe and comply with stipulations made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited.

ii) Tenders without Earnest Money or Tender cost will be summarily rejected.

iii) No claim shall lie against the AIIMS Raipur in respect of erosion in the value or interest on the amount of EMD.

iv) If MSME firm is registered for above tendered item, then the firm will be exempted for submission of EMD amount. Firm must upload scanned copy of following documents in support of exemption.

(1) National Small Industries Corporation (NSIC).

(2) Directorate of handicraft & Handlooms.

v) The earnest money will be returned/refund to the unsuccessful tenderers after the tender is decided.

vi) EMD should remain valid for a period of 45 days beyond the final bid validity period. When the tenderer agrees to extend the validity of bid, he shall also extend the validity of EMD suitably.

**2. Experience:-** Tenderer must provide evidence of having done proposed or similar work to any government hospital/autonomous bodies/reputed private hospital organizations in India for similar nature of works i.e. minimum **₹ 3,00,00,000.00/-** in the last three years i.e.2015-16, 2016-17, 2017-18. Only installation done in the India will be accepted.

***Note: Completion certificate to be attached.***

**“Similar works mean Supply, Installation, Testing and Commissioning of Pneumatic Air tube System on Trunkkey basis for Hospital Complex.”**

**3. Turnover:-** The supplier/service provider should be registered and the bidder should have the average annual turnover of minimum **₹ 5,00,00,000.00/-** for in the last three financial years i.e. 2015-16, 2016-17, 2017-2018. Copies of authenticated balance sheet for the last three financial years should be submitted.

### **4. Signing of Tender:**

All the duly filled/completed pages of the tender should be given serial /page number on each page and signed.

The individual signing the tender or other documents connected with contract must specify whether he sign as:

- a) A sole proprietor of the concern or constituted attorney of such sole proprietor;
- b) A partner of the firm, if it is a partnership firm in which case he must have authority to execute the contracts on behalf of the firm and to refer to arbitration disputes concerning the business of the partnership either by virtue of the partnership agreement or by a power of attorney duly executed by the partners of the firm.
- c) Director or a principal officer duly authorized by the Board of Directors of the Company, if it is a company.

**5. N.B.**

In case of partnership firms, a copy of the partnership agreement, or general power of attorney duly attested by a Notary Public, should be furnished on stamped paper duly sworn or affirmed by all the partners admitting execution of the partnership agreement or the general power of attorney. The attested copy of the certificate of registration of firm should also be enclosed along with the tender.

- i. In the case of partnerships firm, where no authority to refer disputes concerning the business of partnership firm has been conferred on any partner, the tender and all other related document must be signed by all partners of the firm.
- ii. A person signing the tender form or any document forming part of the tender on behalf of another person should have an authority to bind such other person and if, on enquiry it appears that the person so signing had no authority to do so, AIIMS, Raipur may without prejudice, cancel the contract and hold the signatory liable for all costs, consequences and damages under the civil and criminal remedies available.
- iii. The tenderer should sign and affix his firm's stamp at each page of the tender and all its annexure as the acceptance of the offer made by tenderer will be deemed as a contract and no separate formal contract will be drawn. NO PAGE SHOULD BE REMOVED/ DETACHED FROM THIS NOTICE INVITING TENDER.

**6. Pre-Qualification Criteria:**

Bidders should be the contractor / manufacturer / authorized dealer. Letter of Authorization from Manufacturer on the same and specific to the tender should be enclosed. Joint Ventures are not accepted.

**7. Performance Security Deposit:**

a. The successful bidder shall have to submit a performance guarantee (PG) within 30 days from the date of issue of Letter of Award (LOA). Extension of time for submission of PG beyond 30 days band up to 60 days from the date of issue of LOA may be given by the competent authority to sign the contract agreement however a penal interest of 15% per annum shall be charged for the delay beyond 30 days. i.e. 31<sup>st</sup> day after the date of issue of LOA. In case of the contract fails to submit the requisite PG even after 60 days from the date of issue of LOA the contract shall be terminated duly forfeiting the EMD and other dues if any payable against the contract. The failed contractor shall be debarred from participating in re-tender (if any) for that item. Performance Security Deposit is mandatory.

b. Successful supplier/firm should submit performance security as prescribed in favour of "AIIMS, Raipur" and to be received in the **Hospital Store, Room no. 56, 2<sup>nd</sup> Floor, Ayush PMR Building, Gate no.1, Tatibandh, Raipur (C.G) Pin-492099** before the date of commencement of supply or 30 days from the date of acceptance of the purchase order, whichever is earlier. The performance guarantee bond to be furnished in the form (as per form C) of Bank Guarantee as per given Proforma of the tender documents, for an amount covering 10% of the contract value.

c. The performance security deposit should be established in favour of "AIIMS Raipur" through any Schedule Bank with a clause to enforce the same on their local branch at Raipur.

d. Validity of the performance security deposit shall be for a period of 60 days beyond the date of completion of all contractual obligations of the **supplier including warranty obligations.**

e. After completing of warranty period a fresh BG/DD/FDR of 10% of CMC cost will be submitted by the supplier for performance security against CMC validity of this new BG/DD/FDR will be 60 days beyond CMC period. After submission of new security deposit, old security deposit will be released.

**8. Penalty:**

If the supplier/service provider fails to perform the service by the specified date as mention in purchase order, penalty at the rate of 0.5% per week of the delayed value of goods subject to the maximum of 10% of delayed goods value will be deducted.

**9. Validity of the bids:**

The bids shall be valid for a period of 180 days from the date of opening of the tender. This has to be so specified by the tenderer in the commercial bid which may be extended, if required.

**10. Right of Acceptance:**

AIIMS, Raipur reserves the right to accept or reject any or all tenders/quotations without assigning any reason there of and also does not bind itself to accept the lowest quotation or any tender. AIIMS, Raipur also reserves the rights to accept all the items in the given tender or only part of it in any given schedule without assigning any reason.

**11. Communication of Acceptance:**

AIIMS, Raipur reserves all right to reject any tender including of those tenderers who fails to comply with the instructions without assigning any reason whatsoever and does not bind itself to accept the lowest or any specific tender. The decision of this Institute in this regard will be final and binding.

**12. Duration of Contract:**

The duration of Work Contract for proposed work shall be **Ten years (including 5 years warranty and 5 years CMC)**, which may be extendable for another **5 years** by mutually agreed demand by Director AIIMS, Raipur.

**13. Force Majeure:**

If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, exception, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party shall be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance and deliveries have been so resumed or not shall be final and conclusive.

Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, AIIMS, Raipur party may, at least option to terminate the contract.

**14. Insolvency etc.:**

In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified AIIMS, Raipur shall have the power to terminate the contract without any prior notice.

**15. Breach of Terms and Conditions**

In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to cancel the work order / job without assigning any reasons thereof and nothing will be payable by AIIMS, Raipur. In that event the security deposit shall also stand forfeited.

**16. Arbitration:**

If any difference arises concerning this agreement, its interpretation on payment to the made there under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the Director, AIIMS, Raipur to settle the dispute by Sole Arbitrator. Sole arbitrator will be appointed by the Director, AIIMS, Raipur. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1996 and the rule framed there under and in force shall be applicable to such proceedings.

**17. Right to call upon information regarding status of work:**

The AIIMS, Raipur will have the right to call upon information regarding status of work/job at any point of time.

**18. Subletting of Work:**

The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of AIIMS, Raipur, which will be at liberty to refuse if thinks fit. The tender is not transferable. One tenderer shall submit only one tender.

**19. Fall Clause:**

1. Prices charged for implementation of the proposed work by the Supplier/Service provider should in no event exceed the lowest amount at which he offers the same to any other Govt. Medical Institutes/State Government/DGS&D /Public Undertaking during the period of the contract.
2. If at any time during the period of contract, the prices of tendered items is reduced or brought down by any law or Act of the Central of State government, the supplier shall be bound to inform Purchasing Authority immediately about such reduction in the contracted prices, in case the supplier fails to notify or fails to agree for such reduction of rates, the Purchasing authority will revise the rates on lower side. If there is a price increase for any product after quoting the rates, the bidder will have to supply the item as per quoted rates. This office will not accept any higher rates after wards.
3. If at any time during the period of contract, the supplier quotes the sale price of such services to any other State Govt. /DGS&D and Pubic Undertakings at a price lower than the price chargeable under the rate contract he shall forthwith notify such reduction to Purchasing Authority and the prices payable the items supplied from the date of coming into force of such price stands correspondingly reduced as per above stipulation.

Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the suppliers need to supply all the goods in the specified form to the satisfaction / specifications specified in the Purchase order and demonstrate at the their own cost.

**20. Legal Jurisdiction:**

The agreement shall be deemed to have been concluded in Raipur, Chhattisgarh and all obligations hereunder shall be deemed to be located at Raipur, Chhattisgarh and Court within Raipur, Chhattisgarh will have Jurisdiction to the exclusion of other courts.

**21. Quantity:**

This is work contract hence it may be varied (Increase/Decrease) as per demand of institute at the time of placing the contract order.

**22. IMPORTANT POINTS FOR QUOTING PRICES:-** The Bidder should also kept following points in mind during offering his price quotation against this Tender Enquiry:-

- (i) No increase in quoted price and change in quality of product will be allowed during the validity of the entire Contract period or any extended Contract Period.



- (ii)** Bidder will quote firm rates inclusive of all Taxes & expenditure up to F.O.R. to AIIMS Raipur basis. Rates should be according to a unit e.g. cost per unit (as asked in the Schedule of Requirement i.e. Kg/Ltr/Vial/Each/Kit/Item etc. which so ever applicable with clearly mentioning its pack size, preferably as per asked pack size) and not in any other form. Quoting of rates in variation to the prescribed unit will authorize the Competent Authority to cancel the quotation without any information to the bidder.
- (iii)** No item should be quoted with price more than the M.R.P. The prices should be quoted strictly in accordance with unit/quantity mentioned in the Financial Bid format.

**23.**

Transit risk on firm's account.

**Stores Officer (H)**  
**AIIMS, Raipur(C.G.)**

## Chapter – III

### Form A

#### PARTICULARS TO BE FILLED BY THE BIDDER

1. Name of the Supplier : \_\_\_\_\_
2. Complete Address of the Supplier/Service provider : \_\_\_\_\_
3. Availability for demonstration of items at AIIMS Raipur. Yes/No [Please√]
4. Earnest Money Deposit enclosed: Yes/No [Please√] if Yes,
  - a.) Name of the Bank : \_\_\_\_\_
  - b.) Amount in (Rs.) : \_\_\_\_\_
  - c.) Demand Draft No. : \_\_\_\_\_
  - d.) Validity date of the enclosed DD/FDR: \_\_\_\_\_
5. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry.

[NOTE: Any changes after submission of Tender documents kindly update AIIMS Raipur]

  - a.) Full Name : \_\_\_\_\_
  - b.) Complete Postal Address : \_\_\_\_\_
  - c.) Telephone No. : \_\_\_\_\_
  - d.) Fax No. : \_\_\_\_\_
  - e.) Mobile No. : \_\_\_\_\_
  - f.) E-mail : \_\_\_\_\_
  - g.) Website Address : \_\_\_\_\_

**Note: - Demand Drafts must be complied with CTS 2010 standards prescribed by Reserve Bank of India.**

**Form B**

**PARTICULARS FOR REFUND OF EMD TO SUCCESSFUL/UNSUCCESSFUL BIDDER**  
**RTGS / National Electronic Fund Transfer (NEFT) Mandate Form**

1.	Name of the Bidder	
2.	Permanent Account No(PAN)	
3.	Particulars of Bank Account	
	a) Name of the Bank	
	b) Name of the Branch	
	c) Branch Code	
	d) Address	
	e) City Name	
	f) Telephone No	
	g) NEFT/IFSC Code	
	h) RTGS Code	
	i) 9 Digit MICR Code appearing on the cheque book	
	j) Type of Account	
	k) Account No.	
4.	Email id of the Bidder	

**Form C****PERFORMANCE STATEMENT****Proforma for Performance Statement (For period of last three years)**

Name of Firm \_\_\_\_\_

Order placed by (Complete Address of Purchaser)	Purchase Order No. & Date	Description and Quantity of ordered items	Value of order	Date of completion of delivery		Remarks indicating Reasons for late delivery, if any
				As per Contract	Actual date of supply	
1	2	3	4	5	6	7

**Form-D  
CHECKLIST**

<b>Checklist-Technical Offer</b>		
S.No.	Particulars	Required Scanned copy to be attached with online Technical Bid
1.	a) Details as required in the tender document (i.e. Supplier/firm is manufacturer/ authorized dealer/ sole distributor certificate.	
	b) Authorization certificate from the manufacturer in case of dealer / distributor.	
	c) Copy of PAN	
	d) Certificate of firm/company registration	
	e) GST registration certificate.	
	f) Income Tax Return of last three financial years i.e. 2015-16, 2016-17, 2017-2018	
	g) Tenderer must provide experience/ supplied as per the clause 2.(Chapter-II)	
	h) Annual Turnover & balance sheet of last three years i.e. 2015-16, 2016-17, 2017-2018 duly certified by C.A. as per the clause 3.(Chapter-II)	
	i) Tenderer must provide a certificate on letter head that proprietor/firm has never been black listed by any organization.	
	j) Tenderer must provide an affirmation on letter head that they have not quoted the price higher than previously supplied to any government Institute / Organisation / reputed Private Organisation or DGS&D rate in recent past.	
2.	Technical Specifications Compliance Report (if applicable)	
3.	Duly filled Form – A, Form –B & Form –C, Form – D with required documents with proper page numbering and indexing of required Documents.	
4.	Financial Bid (Price Bid) Submitted	

Note:

- i. **In case of non-fulfilment of any of the above information/ document(s), the Tender will be summarily rejected without giving any notice.**

**(Dated Signature of the Tenderer with stamp of firm)**

Sign of bidder: -

Date: -

Name of the bidder:-

Firm's Name:-

**DATE:**

**SIGNATURE WITH NAME AND SEAL OF THE FIRM**

**MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM**  
**(Chapter III, Form D- Point No. 1 (b) of the tender)**

**To**  
**The Store Officer,**  
**All India Institute of Medical Sciences Raipur**

Dear Sir,

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

We, \_\_\_\_\_, who are established and reputable manufacturers of \_\_\_\_\_, having factories at \_\_\_\_\_ and \_\_\_\_\_, hereby authorize M/s \_\_\_\_\_ (name and address of agents) to bid, negotiate and conclude the contract with you against Tender No. \_\_\_\_\_ for the above goods manufactured by us. No company or firm or individual other than M/s \_\_\_\_\_ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

We hereby extend our full guarantee and warranty as per the conditions of tender 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 M/s. \_\_\_\_\_

(Name of manufacturers)/Principal.

**PARTICULARS FOR PERFORMANCE GUARANTEE BOND**

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of Two Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE SCHEDULED BANK (WHETHER SITUATED AT RAIPUR OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT RAIPUR. BONDS ISSUED BY CO- OPERATIVE BANKS ARE NOT ACCEPTED.)

To,  
The Director  
All India Institute of Medical Sciences (AIIMS),  
Tatibandh, GE Road, Raipur-492 099 (C.G.)

**LETTER OF GUARANTEE**

WHEREAS All India Institute of Medical Sciences (AIIMS) Raipur (Buyer) have invited Tenders vide Tender No..... Dt..... for purchase of ..... AND WHEREAS the said tender document requires the supplier / firm (seller) whose tender is accepted for the supply of instrument / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **"AIIMS Raipur"** in the form of Bank Guarantee for Rs..... [10% (ten percent) of the purchase value] which will be valid for entire warranty period from the date of acceptance, the said Performance Guarantee Bond is to be submitted within 30 (Thirty) days from the date of Acceptance.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said supplier/firm (seller) failing to abide by any of the conditions referred to in tender document / purchase order/ performance of the instrument / machinery/ Consumables, etc. this Bank shall pay to All India Institute of Medical Sciences (AIIMS) Raipur on demand and without protest or demur Rs ..... (Rupees.....).

This Bank further agrees that the decision of All India Institute of Medical Sciences (AIIMS) Raipur (Buyer) as to whether the said supplier/firm (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ..... (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the supplier/firm (Seller) and/ or All India Institute of Medical Sciences (AIIMS) Raipur (Buyer). Notwithstanding anything contained herein:

a. Our liability under this Bank Guarantee shall not exceed Rs.....(Indian Rupees .....only).

b. This Bank Guarantee shall be valid up to .....(date) and date of claim should be beyond six month from the date of validity.

c. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if AIIMS Raipur serve upon us a written claim or demand on or before.....(date)

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at.....(Address of local branch).

Yours truly,

Signature and seal of the Guarantor

Name of the Bank :.....

Complete Postal Address: .....

## **Annexure - I (A)**

### **Technical Specification of Pneumatic Air Tube System**

S. No.	Description	Qty.	U.O.M
<b>1.0</b>	<b>PC Control and Software</b>		
1.1	Supply, Installation, Testing & Commissioning of the proposed computer system software & hardware shall be the latest version with all system requirements equal to the requirements for the installed latest Windows version. The system is fully automatic computer-controlled. The PC serves as a control and supervising centre for controlling and monitoring all transmissions within the system on a real-time basis. Software, Power supply / Interface with accessories & Software for analysis track and trace. The supplied system should be RFID enabled. Complete in all respect.	1	Lot (As required)
<b>2.0</b>	<b>Supply, Installation, Testing &amp; Commissioning of Tube System dia. 160mm</b>		
2.1	Disp Tube 160 x 3.2, NW160 PVC Grey, Standard delivery length 5m. DIN certified	3000	Mtr.
2.2	Disp Bend 160x3.2, NW160 R-800 PVC grey.	450	Nos.
2.3	Connecting sleeve NW160 PVC	1500	Nos.
2.4	Steel Clip basic NW160 D160 MB	1700	Nos.
2.5	Control cable	3500	Mtr.
2.6	Tube adhesive PVC	80	Can.
2.7	Solvent for PVC	40	Can.
<b>3.0</b>	<b>Stations</b>		
3.1	Supply, Installation, Testing & Commissioning of Front-Loading Stations (Comply with latest health and safety regulations). (As per Technical specifications)	61	Nos.
3.2	Laboratory Stations Auto Unload.	3	Nos.
3.3	Laboratory stations with smooth carrier landing facility with rails and uploading facility	1	Nos.
3.4	Optical Tube Switch LED functioning indicator to scan the passage of carriers, mechanical tube switch are not acceptable because of a shorter life span.	15	Nos.
3.5	Stations Receiving basket with soft arrival Leather Bag	64	Nos.
3.6	Lab samples holder to secure the blood transportation to protect haemolysis in samples	100	Nos.
<b>4.0</b>	<b>Linear Coupler</b>		
4.1	Linear Coupler - Maximum capacity, including priority functionality and storage. The coupler treats carriers Not on a "first in" "first out" basis. Carriers are taken from the line to prevent queues and minimize transport time. These way carriers don't pile up in the line so the line availability is maximum. The system using a linear coupling technique, maximizing system capacity up to 500 carriers per hour. The linear coupling unit must have a storage area to take waiting carriers from the line, thereby clearing the line for other traffic.	1	Nos.
<b>5.0</b>	<b>Divertors</b>		
5.1	3-way diverter NW160	13	Nos.
5.2	6 Way diverter NW160/ 4 way diverter NW/ 160	10	Nos.
5.3	Additional Power supply Each separate line is linked, working with fixed IP-addresses.	15	Nos.
5.4	Steel sleeve NW 160 L100	250	Nos.



<b>6.0</b>	<b><i>Blower Units / Accessories</i></b>		
6.1	240 /415V 50/60Hz 4/4.6kw for air-supply of the system and a transport speed of at least 6 m/sec: Blower with three-phase-motor, heavy duty maintenance-free motor operated, immediate air-reversal for pressure and vacuum operation (without changing the direction of the motor-rotation). With automatically zero position for pneumatically deceleration. Built-in silencer, fully enclosed compact-construction, as a standard for floor installation or with console for wall-mounting.	10	Nos.
6.2	Installation/Connecting accessories for 10 blowers (Vibration absorber, Contractor, Thermo relay, Anti Interference set, Air control valve, Silencer, Elbow & Carrier Brake device)	1	Lot (as req
<b>7.0</b>	<b><i>Carrier</i></b>		
7.1	Carrier with color coded to define the transportation of the material [ BLUE - for Wards; GREEN - Laboratories and distribution center; RED - Wards and Blood bank ; YELLOW - for Pharmacy/Medicine] Each carrier has a chip with his home destination code. The sticker on the carrier also mentions this code.	305	Nos.
7.2	Leak-proof Carrier for Urine samples and other infected samples	50	Nos.
7.3	Carrier Support for keeping minimum five carriers.	61	Nos.
<b>8.0</b>	<b><i>Air Service Accessories</i></b> [Must be imported]		
8.1	Air tube; Air Sleeve, Elbow, Clip Still & Air Reduction	1	A
<b>9.0</b>	<b><i>Installation Accessories</i></b> [Must be imported]		
9.1	Threaded rod M8, Tie Wrap, Nut, Bolts etc.	1	As req uire d

**1. LOCATION OF STATIONS**

The tender price is for stations to be installed at the required locations **(Location layout at next page) :**

**Stores Officer (H)**  
**AIIMS, Raipur (CG)**





## **TECHNICAL BID**

The following documents are required to upload by the Bidder along with Technical Bid as per the tender document:

- a) Scanned Copy of EMD Cost must be uploaded.
- b) Please mention that the bidder is Manufacture /Distributor /Dealer / Trader/Supplier relevant document should be uploaded.
- c) In case of distributor/dealer/trader/supplier must be upload tender specific authorization certificate from OEM/ manufacturer (Form D) should be uploaded.
- d) Copy of PAN Card should be uploaded.
- e) Firm/Company registration certificate should be uploaded.
- f) The GST registration details may please be furnished.**
- g) In the event of increase in price detailed justification and supporting evidence may be submitted for our consideration.**
- h) Income Tax Return of last three years should be uploaded.
- i) Tenderer must provide evidence of experience/supplied materials as mentioned on other terms & conditions point no.02 in tender document should be uploaded.
- j) Average annual turnover & balance sheet of last three year duly certified by CA as mentioned on other terms & conditions point no.03 in tender document should be uploaded.
- k) "Declaration by the Bidder" (Form B) should be uploaded as mentioned in tender document should be uploaded.
- l) Relevant brochure/catalogue pertaining to the items quoted with full specifications etc.
- m) Tenderer must provide a certificate on letter head that proprietor/firm has never been black listed by any organization should be uploaded.
- n) Form A with duly filled by bidder should be uploaded.
- o) Technical Specifications Compliance Report.
- p) Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof. Please provide a certificate on letter head that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. If you don't fulfil this criteria, your tender will be out rightly rejected.

**Annexure - II**  
**TECHNICAL BID**

**Details of all works of similar class completed during the last Seven years**

**ending last day of the month ending December, 2018.**

**Attached certified copies of experiences (Can use extra sheet if necessary)**

S. N.	Name of Work / Project	Location	Owner or Sponsoring Organization	Cost of work (lac)	Date of Commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration pending / in progress with details	Remark	Name add with telephone no. officer to when ref. may be made
1	2	3	4	5	6	7	8	9	10	11

Place: .....

(Signature of Bidder with seal)

Date: .....

Name:

Contact No. :

Seal:

Email :

Address

**Annexure-III**

**PRICE BID**

Price bid in the form of V3\_BOQ\_ItemWise.xls

**Declaration by the Bidder:**

1. This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained in Tender document regarding terms & conditions of the contract. I/we agree to abide them.
2. No other charges would be payable by Client and there would be no increase in rates during the Contract period.

Place: .....

(Signature of Bidder with seal)

Date: .....

Name:

Seal:

Address :



**SPECIAL CONDITIONS :**

1. In case, even after allocating the contract order, the proposed work is found to be of suboptimal quality or dissatisfactory, AIIMS Raipur reserves the right to reallocate the work to next participant.
2. The bidders should submit the relevant certificates/ evidence of previous supply to other hospitals. In order to justify the rates quoted.
3. The bidder should not have been blacklisted before.
4. The bidders shall also provide representative samples of their Consumable items to the concerned committee regarding the quality aspect.
5. The quantity indicated is tentative and may vary, and any decision in this regard by Director AIIMS Raipur shall be final.
6. **Delivery Mode:** Delivery of necessary materials related to proposed work will be at AIIMS Raipur, at site only on FOR destination basis.
7. Total bid price should be inclusive of all taxes and levies, etc.
8. **Bid Validity Date:** - Minimum 180 Days from the date of Submission of quotation/tender.
9. Conditions of Contract work / Quantity may be revised as per requirement.

**10. Delivery and Installation:**

All the goods ordered shall be delivered and Installed, tested and commissioned at AIIMS, Raipur within **09 months (Nine months)** from the date of issue of Work contract.

All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver, install and commission the goods on or before the stipulated date, then a penalty at the rate of 0.5% per week or part thereof of the total order value shall be levied subject to maximum of 10% of the total order value. The successful tenderer will also provide required training for supplied items at AIIMS Raipur. The goods should be manufactured after adoption of latest technology.

If at any time during the currency of the contract, the supplier encounters conditions hindering timely of the goods and performance of services, the supplier shall promptly inform the AIIMS, Raipur for extension of the delivery schedule accordingly. On receiving the supplier's communication, the AIIMS, Raipur shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

**11. Signing the Contract:** - The successful bidder shall be required to execute the Contract Agreement accepting all terms and conditions stipulated herein on a non-judicial stamp paper of Rs. 500/- (Rs. Five Hundred only) along with performance security within fifteen days of the issue of the Letter of notification of award. In the event of failure on the part of the successful bidder to sign the Contract within the period stipulated above, the EMD shall be forfeited and the acceptance of BID shall be considered as cancelled.

**7. Incidental Services:** The supplier shall be required to perform the following services:-

- a. Installation & Commissioning, Supervision and Demonstration of the goods.
- b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- c. On Site Training to Doctors/ Technicians/ Staff is to be provided by Supplier for operation and maintenance of the equipment for a period of 30 working days after successful installation of the machine, as per direction of user department.
- d. Supplying required number of operation & maintenance manual for the goods.
- e. To provide non-locked open software and standard interface inter-operability conditions for networked equipment's in hospital management information system, wherever applicable.

**11. Accessories & Consumables:** The accessories and consumables (not mentioned in BOQ or list of items), if any, to be borne by the supplier/ contractor.

**12. After Sales Service:** After sales service centre should be available on 24 (hrs.) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 24 hrs to ensure an uptime of minimum 95%, wherever applicable, failing which the necessary penalty measures shall be enforced.

**13. Inspection:**

- a. AIIMS, Raipur shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the Purchaser.
- b. AIIMS, Raipur right to inspect, test and, where necessary, reject the Goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by AIIMS, Raipur prior to the goods shipment.
- c. The Director, AIIMS Raipur shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.
- d. No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

**14. Documents:**

- a. **All pages of the Tender should be numbered and indexed.**
- b. The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully confirm to the goods and services specified by the purchaser in the tender documents. For this purpose the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the tender documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.
- c. The bidder shall provide a list of major Government and Private Institutions where its

relevant bid item has been supplied during last seven years.

- 15. Manufacturer Authorisation:** The bidder (if not original equipment manufacturer must submit Original Equipment Manufacturer authorization certificate that the tenderer is authorized for selling and maintain the equipment quoted for. (Proforma attached)
- 16.** The bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (State Government/ Central Government / Autonomous Bodies/ Reputed Private Hospitals).
- 17. Technical Evaluation:**

Detailed technical evaluation shall be carried out by Institute pursuant to conditions in the tender document to determine the substantial responsiveness of each tender. For this clause, the substantially responsive bid is one that conforms to all the eligibility and terms and condition of the tender without any deviation.

The Institute's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. The Institute shall evaluate the technical bids also to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are in order. The Director, AIIMS, Raipur shall have right to accept or reject any or all tenders without assigning any reasons thereof.
- 18. Financial Evaluation:**
  - a) The financial bid shall be opened of only those bidders who have been found to be technically eligible. The financial bids shall be opened in presence of representatives of technically eligible bidders, who may like to be present. The institute shall inform the date, place and time for opening of financial bid.
  - b) Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and total price that is, the unit price shall prevail and the total price shall be corrected by the Institute. If the Supplier does not accept the correction of the errors, his bid shall be rejected.
  - c) After due evaluation of the bid(s) AIIMS, Raipur will award the contract to the lowest evaluated responsive tenderer.
  - d) Conditional bid will be treated as unresponsive and will be rejected.
- 19.** The bidders are requested to visit site and get familiarized with local condition before submission of tender.
- 20.** Right to issue and to accept or reject any or all tenders without assigning any reason thereof is reserved by the Competent Authority.
- 21. Award of Contract:** The Institute shall consider placement of orders for jobs on those bidders whose offers have been found technical and financially acceptable. The Institute reserves the right to counter offer price(s) against price(s) quoted by any bidder. After the evaluation of the bid(s) AIIMS, Raipur will award the contract to the lowest evaluated responsive bidder on composite basis i.e. total of Part (A+B+C+D) of Financial Bid.
- 22. Authority of person signing document:** A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warranty, that he has authority to bind such other and if, on enquiry, it appears that the person so, signing had no authority to do so, the Director, AIIMS, Raipur may without prejudice to other Civil and criminal remedies cancel contract and held the signatory liable for all cost and damages.

**23. Right of acceptance:** The Director, AIIMS, Raipur reserve the right to accepting the whole or any part or portion of the bid; and the bidder shall provide the same at the rates quoted. The Director, AIIMS, Raipur reserve the right to reject any or all tenders /quotations or all offers received in response to the tender or cancel or withdraw the tender notice without assigning any reason thereof and also does not bind itself to accept the lowest quotation or any tender and no claim in this regard shall be entertained.

**24.** Information and instruction for Service provider for tendering forming part of NIT and to be posted on website.

**25.** Right to issue and to accept or reject any or all tenders without assigning any reason thereof is reserved by the Competent Authority.

**26. Taxes:** GST if payable extra should be clearly mentioned otherwise no GST will be paid.

**27.** The bidder should furnish a copy of GST/EPF registration number. Tenders not complying with this condition will be rejected.

**28.** The taxes or any other charge if payable extra should be clearly mentioned otherwise no extra charge will be paid.

**29.** The items will have to be supplied at Institute site. No transportation/ cartage charges will be provided for the same.

**30.** Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with technical bid.

**31.** Bidder shall submit a copy of the tender document and corrigendum/addendum thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender documents.

**32. Insurance:** - The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. If the equipment's is not commissioned and handed over to AIIMS, Raipur within specified period, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the AIIMS, Raipur.

**33. 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 or currencies available in Price Bid. 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.

**34. Tender Prices:** While filling up the columns of the Financial Bid, the following aspects should be noted for compliance:

**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 GST, Custom 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 GST or other taxes, 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 Financial Bid;
- d. The price of Incidental Services, as mentioned in Financial Bid;
- e. The prices of Turnkey (if any), as mentioned in Technical Specification and Financial Bid; and
- f. The price of annual CMC, as mentioned in Technical Specification and Financial Bid.

**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 on FOR AIIMS Raipur basis (after considering FOB, CIF, wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported and 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, Raipur, as specified in the List of Requirements and Financial Bid;
- b. The charges for Incidental Services, as in the Financial bid;
- c. The prices of Turnkey (if any), as mentioned in Technical Specification and Financial Bid; and
- d. The price of annual CMC, as mentioned in Technical Specification and Financial Bid.

**Additional information and instruction on Duties and Taxes:** If the Bidder desires to ask for GST, Customs Duty 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 GST and Customs duty etc. and no claim for the same will be entertained later.

**GST:**

- a. If reimbursement of GST is intended as extra over the quoted prices, the supplier must specifically state the same indicating the rate, quantum and nature of the GST applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of GST will be entertained after the opening of tenders.
- b. If a bidder chooses to quote a price inclusive of GST and also desires to be reimbursed for variation, if any, in the GST during the time of supply, the Bidder must clearly mention the same and also indicate the rate and quantum of GST included in its price. No claim on account of GST will be entertained after the opening of tenders.
- c. Subject to sub clauses (i) & (ii) above, any change in GST upward/downward as a result of any statutory variation in GST taking place within contract terms shall be allowed to the extent of actual quantum of GST paid by the supplier. In case of downward revision in GST, the actual quantum of reduction of GST shall be reimbursed to the purchaser by the supplier.  
All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

**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, Raipur right to award the contract on the selected bidder on any of the terms offered.

**35. 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, Raipur to render services during Warranty and CMC period.

**36. 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.

**37. Conversion of tender currencies to Indian Rupees:** - In case the bidder 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 '**Last Date of Submission of Tender**'.

**38. Payment Terms:**

**i) Payment for goods supplied from India:**

70% payment of the total order value shall be released after the release of consignee Receipt Certificate i.e. CRC by Consignee and balance 30% payment after successful installation, testing, commissioning, Testing and Demonstration of the ordered goods against Final Acceptance Certificate FAC by consignee.

**ii) Payment for Imported goods:**

For imported goods payment shall be made in the following manner:

**a) On shipment:** 70 % 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. Manufacturer's / Supplier's warranty certificate;
- vii. Manufacturer's own factory inspection report.

**b) On Acceptance:** 30 % payment would be made after satisfactory installation, testing, commissioning, Testing and Demonstration of the ordered goods against Final

Acceptance Certificate FAC by consignee.

**Note:-** *The supplier shall not claim any interest or any other payment under the contract.*

- 39. 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. Transportation of goods up to AIIMS, Raipur and its successful installation and commissioning is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier. NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC.
- 40. Guarantee / Warrantee Period:** The Tenderers must quote for **05 years** comprehensive warranty (Including all Spares, Accessories and Manpower) 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 **05 years** Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Manpower). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.
- 41. Uptime guarantee:** The firm should provide uptime guarantee of 95%
- 42. Downtime penalty Clause**
  - a. During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handling over the unit to the Institute. **If accessories / other attachment of the system are procured from the third party, then the vendor must produce cost of accessory / other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.**
  - b. The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.
- 43. Arbitration:** If any difference arises concerning this agreement, its interpretation on payment to the made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by Director, AIIMS, Raipur. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1990 and the rule framed there under and in force shall be applicable to such proceedings.
- 44. Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of AIIMS, Raipur, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.
- 45. Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned

above, the Competent Authority, will have the right to cancel the work order/ job without assigning any reason thereof and nothing will be payable by AIIMS, Raipur in that event the security deposit shall also stands forfeited.

- 46. Insolvency etc:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified AIIMS, Raipur shall have the power to terminate the contract without any prior notice.
- 47. Force Majeure:** If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party shall by reason of such event be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries have been so resumed or not shall be final and conclusive.  
  
Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at least option to terminate the contract.
- 48.** Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
- 49.** The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.
- 50.** Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
- 51.** The successful contractor must follow Labour law safety norms, third party insurance during the contract period.
- 52.** The successful contractor will have to submit progress report photograph, maintenance manual, brochure etc. to Officer In charge periodically.
- 53.** The successful contractor will have to submit General working & maintenance manual to Officer In charge periodically.
- 54.** Conditional bid will be treated as unresponsive and it may be rejected.
- 55.** Shop drawings for all civil/ electrical/ mechanical etc. shall be prepared by contractor as per relevant specifications and site conditions and will submit to Officer-in-charge within 7 days of award of work.
- 56. Demonstration:** - AIIMS Raipur reserves the right to ask the tenderers for arranging demonstration of their equipment for which rates have been quoted, to the concerned committee, if required.



**57.** The Institute reserves the right to accept in part or in full or reject any or more tender(s) without assigning any reasons or cancel the tendering process and reject all tender(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

**58. Applicable Law:**

- ▣ 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.
- ▣ Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Raipur, Chattisgarh, India only.
- ▣ The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Raipur. The decision of the Arbitrator shall be final and binding on both the parties.
- ▣ Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

**59. Additional Special Conditions :** The route of the pipes, fittings, cables etc. should be finalized as per the instructions of the Medical Superintendent, AIIMS, Raipur after taking approval from the Superintending/Executive Engineer, AIIMS, Raipur. Following conditions should also be followed during the execution of the work :

- i. Prior approval of Superintending/Executive Engineer, AIIMS Raipur is to be taken for any Dismantling of structural members, services, cables, ducts fire lines etc. by the Turnkey agency.
- ii. All the destruction, demolishing, dismantling work required for the execution of the works will be done by the Turnkey Agency itself.
- iii. Any shifting, rerouting, reinstallation of services, rearrangement of services, cables, ducts, fire lines etc. for the execution of the works will be done by the Turnkey Agency itself.
- iv. All minor and major works required for the installation of the system or any other requirements for the system will be done by the Turnkey agency itself after proper approval from the competent authority.
- v. The Turnkey agency has to make good all structural members, services, cables, ducts, fire lines etc. as previous before handing over the site.
- vi. The site is to be cleaned before handing over and no any scraps, malba etc. will be dumped in the campus.
- vii. The agency has to obtain No objection certificate from the Superintending/Executive Engineer, AIIMS Raipur which ensures that all the structure, services, cables, ducts, fire lines are made good by the Turnkey agency and no any malba, scrap is kept at the site.

**60. The bidder should not disclose financial bid in technical bid otherwise it will be treated as unresponsive and will be rejected.**

**Stores Officer  
AIIMS, Raipur**

**Additional Conditions of Contract**

**1. Completeness of work:**

The rates quoted in the financial bid (Annexure-VIII) shall be inclusive of Supply, Installation, Testing and Commissioning of all the items. No extra payment will be made

**2. Necessary repair:**

Tubing pipes are to be installed over existing false ceiling in hospital buildings. The agency will rectify / redo opened / damaged false ceiling after installation including jointing painting etc. complete. Nothing extra shall be paid for this. Any damage to existing structure shall got repaired/ replaced by agency at his own cost upto the satisfaction of employer.

**3. Civil Structure:**

For Pneumatic tube Plant room will be provided strategic location or at space made available by Institute. connection to corridor, internal electrical works, internal power panel distribution boards, power back-up, internal plumbing, fire preventive works, air conditioning etc. shall be done by agency as per system requirement. No extra payment shall be paid for this.

**4. Signage:**

Essential warning/ cautionary / informative signage system regarding pneumatic tube installation shall be provided and installed by agency without any additional charges.

5. Supply, Installation, Testing and commissioning charges of all civil work, including core cutting, control room construction, overhead bridge (if required) shall be included in the rates quoted in the financial bid (Annexure-VIII)

6. All the safety measures regarding fire safety shall be complied by agency without any extra cost.

7. The FIVE years CMC is included in the rates quoted by the bidder no extra cost shall be paid for the FIVE years CMC. After successful erection / testing & commissioning, the installation shall be maintained comprehensively which means it includes all provision including manpower / supervision / engineer / spares / repairs / replacements etc. This is required 24x365 basis. Only water / electricity required will be provided to the contractor free of cost .All manpower engaged will be duly qualified / experienced / licensed (as required) to the satisfaction of the engineer-in-charge. Any person nor found suitable / desirable by the Engineer-in- Charge shall be replaced by the contractor. In case of any accidents/mishap to any personnel, the department will not take any responsibility and the contractor will take full responsibility.

8. Transparent tube shall be provided where ever required without any extra cost.

9. No escalation is payable.

10. Storage, watch and ward of supplied equipment/ material/items shall be responsibility of agency.

**Stores Officer  
AIIMS, Raipur**

**Additional Special Conditions:**

- 1) The technology for PTS should be linear coupler based including carrier priority handling.
- 2) The technology should have RFID identification system with RFID chips in carriers.
- 3) All stations should be front loading type, carousel based with facility for both send and receive except the laboratory stations which should have separate send & receive facilities.
- 4) Landing station in the laboratories should be horizontal type.
- 5) Minimum two cleaning carriers with cleaning agents shall be provided by agency without any additional charges.
- 6) Sixty percent of carriers supplied should be with tube holders for vacutainers and urine containers.
- 7) Carriers should be available in five colours/or desired by institute for visual identification.
- 8) The controls should be PC controlled/ Microprocessor based technology. Any upgrade to the software/ hardware with respect to the firmware and revision during the period of contract, warranty & AMC period should be provided by the successful bidder at no extra cost to the AIIMS.
- 9) The software license should include future expansion of up to a total 125 lines with total up to 1000 stations.
- 10) All visible areas of tubes should be transparent (including station).
- 11) There should be provision to provide additional carriers with no added cost when asked by institute.
- 12) Carrier Velcro replacement must be available without any extra charges till DLP period.
- 13) The system should have fire protecting sleeves as per fire regulations.
- 14) The system should be connected for signals only to BMS for fire control.
- 15) All lines should have fault station should be available for detecting missing carriers.
- 16) Site should be inspected by vendor and certificate to be provided that the same has been carried out.
- 17) The tube junction sleeves should be as per DIN standards, necessary certificates to be provided by the vendor.
- 18) Certification of safety features for all components should be provided.

**Stores Officer  
AIIMS, Raipur**

## Annexure – I (B)

### **Technical Specifications for SITC and Operations of Pneumatic Tube Systems on Turnkey basis with Five Years Comprehensive Maintenance Contract After Completion of DLP (05 Year Warranty)**

#### **A. TECHNICAL SPECIFICATION PNEUMATIC TUBE SYSTEM**

##### **1. GENERAL**

This specification is for the supply, installation, commissioning maintenance and operation of a fully intercommunicating pneumatic tube transport system, to serve various locations on the site, as detailed in this specification and the accompanying documents. The specified equipment should be modular and may be expandable as required without realistic limit.

##### **2. STANDARDS**

The equipment supplied shall conform to all relevant standards and regulations in force, and will be in accordance with Health Technical Memorandum 2009. All equipment should carry the European CE mark and shall be supplied with relevant Declarations of Conformity to certify compliance with the EMC directive 89/336/EEC-92/31/EEC and the Machinery Safety Directive 89/392/EEC 91/368/EEC-93/44/EEC.

##### **3. PERFORMANCE**

The system should be capable of transporting various liquids, solids and documents up to a load of 5kg (160mm system outer diameter) at a speed of 5-6meter /second. The system shall be capable of transporting all the items advised within a specified time limit. The overall performance and percentage usage of the system's capacity during a normal working day can be demonstrated.

##### **4. ROUTE**

The route will be in accordance with the site survey and schematic layout.

##### **5. MAIN CONTROL UNIT**

The control unit shall be a self-contained integrated microprocessor based controller Unit/ PC Software based. The system software shall be permanently loaded in ROM /PC to ensure stability in operation. The controller should control up to 5 individual systems (zones) and multiple controllers can be linked for systems up to 125 Lines & up to 1000 stations.

Any upgrade to the software/ hardware with respect to the firmware and revision during the period of contract, warranty & AMC period should be provided by the successful bidder at no extra cost to the AIIMS

##### **6.Features**

- The system should use Safety Extra Low Voltage (SELV) throughout, except for mains power to controller, exhausters, occasional data and power amplifiers. There should be no mains power at stations to ensure operator safety where liquids are transported. The cable should be double shielded to comply with the relevant EMC regulations.
- The system should use multi eye optical carrier detectors, rather than mechanical switches. Positioning sensors in diverters, stations, etc. should be electronic rather than mechanical. The software should be adaptive and designed to automatically self-adjust and intelligently position the moving components of the system to ensure reliability.
- The control software should continuously monitor all sensors, switches, motors and other components, and give early warning should the performance of any component start to degrade. This is to enable maintenance to be carried out prior to absolute failure and keep system downtime to an absolute minimum.
- The controller shall have a voltage free contact which will be connected to the Building Management System (BMS) to warn of an alarm status as a mandatory to be done by vendor.
- The controller shall be connected to the fire alarm system to enable the pneumatic tube system to be automatically shut down in the event of a fire. It can be selected that the current dispatch within a system will continue to its destination before shut down occurs. No new dispatch should be accepted after alarm has been triggered until alarm status has returned to normal.

- The controller should continuously display an overview in real time of the exhauster and system status, carriers waiting for dispatch and transactions in progress. The controller should display the location of the carrier through the system whilst a transaction is in progress.

The controller should have a real-time clock.

- The controller should have a built in lithium battery which retains the system memory and status in event of a power failure or when the system is switched off. The system can be reinstated with minimal intervention in the event of power failure.
- In the event of a fault, the controller should display a suitable alarm report detailing the transaction in progress at the time of the fault, the fault status, the location of the carrier, and the actual component or unit which caused the failure. Should the alarm condition have caused a partial or full shut down of the system the limitations of use shall be displayed.
- ***Alarm reports should be generated for the following reasons:***
  - Carrier failing to arrive at a specified check point within a reasonable time. (Carrier overdue)
  - Failure of any system component to achieve a desired state or condition within an acceptable time period.
  - Control system shall be ready for any future upgrades. Shall be capable for detecting and clear fault conditions like power failure, time out, and operational errors automatically without manual intervention.
    - Control system shall be capable of customized programming with features including (but not limits to) priority selection, adjusting speed, shutting-down a work station, tracking of carriers.
    - Control system shall have individual power backup facility by vendor. Supplier to provide all required hardware and software for the control system
    - Soft & hard ware part of pneumatic tube system shall be capable for single/ multiple carrier send/receive functions, event logs, testing functions.
    - Software shall have various statistical features including (but not limited to) traffic data, number of transports, itemized cost analysis and billing

## 7. MANUAL CONTROL AND USER DEFINED SYSTEM VARIABLES

Operations and maintenance personnel should have manual control over the system via the controller's and/or PC's keyboard and display. Entry to the system control shall be security protected. The system control should provide the following facilities:

- ☐ Removal of stations from service
- ☐ Removal of diverters from service
- ☐ Removal of routes from service
- ☐ Removal of systems from service.
- ☐ Manual control of all system components; motors; indicators etc. for maintenance testing.
- ☐ Status display of all system components, switches, sensors, detectors.
- ☐ Part or full system purging.
- ☐ Setting of station priorities by both send and/or receive.
- ☐ Setting of station default addresses.
- ☐ In addition, the controller should allow for easy system programming through the keyboard to allow for additional stations, arrival alarms etc.

## 8. SYSTEM OPERATION RECORDING, ANALYSIS AND MANAGEMENT

- ☐ The controller should have an internal memory which as standard records full information of the last 5000 transactions, preferably total transactions with no limit.
- ☐ The contents of the built-in memory shall be downloadable to a printer or PC.
- ☐ The printer or PC could be left on-line for a continuous record of all transactions and other system

information. The record should show: Time of dispatch, duration of transaction, route of transaction. any alarm conditions and optionally (with touch-key facility) the name of the station user.

- ☐ Management software should be installed for sophisticated data analysis. A permanent record of all transactions should be retained with no limit. This record could be presented in various tabular, text and graphical formats and could be printed selectively. In addition to list and tabular formats showing number of transactions by station and route, the management program should display in graphical form system usage by percentage capacity through each hour of the day, station usage and system usage.

## 9. STATIONS

**(All stations bidirectional , from station to lab and one station to other also)**

- ☐ Stations should be of a front-loading design, feed through station with safety door and carousel and manufactured from hygienic materials. The keypad should be of the wipeable membrane type. Carriers should be loaded through transparent acrylic door or of equivalent similar transparent/ translucent material on the front of the station with a micro switch to identify carrier presence.
- ☐ The station should be capable of detecting strange object by RFID of each carrier.
- ☐ The design of stations should comply with the latest health and safety regulations.
- ☐ Access to the station mechanism should be protected by the interlocked guard door.
- ☐ This is to ensure no person can reach hazardous mechanisms.
- ☐ The siting, location and mounting heights of all stations are to be agreed with the supervising officer prior to installation.
- ☐ All stations to have a micro switch to ensure no over loaded carriers are used for transport by system

## Features

**The stations in built LCD display should show:**

- ☐ Time and Date
- ☐ Carrier destination
- ☐ The station the last carrier arrived from.
- ☐ Station status: -Ready, Selection OK, Out of use, Maintenance, Faulty, Invalid address, Purge.
- ☐ The stations indicators should display:
- ☐ Carrier being dispatched.
- ☐ Carrier incoming.
- ☐ Carrier arrived at destination.
- ☐ System Busy-System Faulty Stations should be fully automatic, and capable of accepting a carrier when another carrier is incoming to that station.
- ☐ Destinations shall be addressed by the use of a digit code or alphabet by accessing the station name through the directory.
- ☐ Destinations may be restricted.
- ☐ *The destination setting could be optionally set to return to one of three settings after a carrier has been sent:*
- ☐ Force new address input.
- ☐ Default to a preset address.
- ☐ Default to "last number redial"

Wrongly addressed carriers or over-loaded carriers should not be accepted by the system.

All stations shall be fitted with sophisticated air control to ensure carrier soft arrival.

The soft arrival system in stations may rely on sensors or valves and should ensure failsafe soft arrival, even with worn out carriers

- ☐ Stations should be designed so that they may be installed in a manner which allows only a very small amount of system air to be discharged into the laboratory with the carrier. Similarly, a carrier being sent from the laboratory should only allow the ingress of a similar amount of laboratory air into the system. This is to ensure that the air quality within the laboratory may not be affected by the installation of the pneumatic tube system.
- ☐ The station should attempt to automatically clear and eject a blocked carrier exit by agitating the station mechanism. In case of failure to do so, it should be possible to do so either offline from

remote service station or on site.

- ☐ The Lab Station could be set to automatically identify and return a carrier to home station with a single keystroke, all carriers to have RFID (Integrated radiofrequency ID) chip.

#### 10. ARRIVAL BASKET

- ☐ Each station should be provided with a carrier arrival basket and extra tube of sufficient size to accommodate the number of carriers allotted to the appropriate station to ensure soft landing. The basket must be fixed under the station and prevent carriers to block the exit of the station and thereby system line.

#### 11. RETURN TO SENDER

- ☐ The stations must be equipped with a 'return to sender' button/ touch key. Stations must have the capability of automatically returning the carrier to the sender once the receiving party removes the items he/she receives and places the carrier back in the station.

#### 12. SECURITY

- ☐ Carriers could be secured during both the send and receive operations.
- ☐ Whenever desired carriers could be received into a secure receiving cabinet accessible only by digital PIN code. In addition, arrival signal units could be programmed to discriminate to different user addresses, thereby allowing urgent full carriers to be immediately notified to the user, whilst allowing no alarm for empty returns. It should be possible to prioritize all transaction in the entire system by station address.
- ☐ Use of the station could be restricted by a user identifiable touch key. This feature is to allow only authorized users access to the system, and record each individual user by name.

#### 13. CARRIERS(for 160mm system)

- ☐ The carrier must be made from impact resistant and fixed shape plastic. The middle body should be transparent so as to enable the user to check the content for spillage before safely opening the carrier. The special soft transfer rings must also be moist resistant. Carriers should be durable, sterilize able, should be suitable to transport liquid samples like blood, urine and tissue samples. They should be provided with a swivel lid that guarantees the best closure. The carriers should also be provided with several locking/sealing mechanisms and a RFID chip for automatic homing and/or track & tracing. All carriers should be equipped with a RFID/RCI chip to enable carrier recognition.

#### 14. SWIVEL LID

- ☐ All carriers must be swivel-top opening with a hinge to allow full access to material inside. Flip-top or screw opening is not acceptable.

#### 15. CERTIFIED LEAK-PROOF

The leak proof carrier must be certified by original equipment manufacturer/third party as desired by institute.

It can only be sent in the system when properly closed. This is to ensure a carrier cannot open during transfer.

#### 16. CHARACTERISTICS:

- ☐ Large colour and size variation should be available easy to open and close.
- ☐ Lockable by using an optional insert lock with key(option to be provided whenever asked).
- ☐ Leak-proof (certified), cannot be sent in the system when not closed, easy to cleanable and sterilisable.
- ☐ Swivel lid to guarantee the best closure. Durable made from impact resistant and fixed shape plastic. Transparent middle body to enable checking of content before opening. Should have soft transfer rings that are moist resistant.

## 17. RCI/RFID chip

All carriers provided with the system should be RCI/RFID ready.

## 18. CONSTRUCTION MATERIAL

- ☐ Each carrier body must be made of transparent impact resistant and distortion free moulded polycarbonate. The carrier should have humidity proof guide rings to move smoothly, rapidly with a minimum noise within the system.

## 19. COLOR CODE

- ☐ Carrier must be color coded for each department, identification of specific users is required by institute.

## 20. STERILIZING – AUTOCLAVE

- ☐ All carriers must be sterilizable (autoclave 10 min at 90°C).

## 21. CARRIER ACCEPTANCE

- ☐ The system should not accept Leak-Proof carriers that are not closed.

## 22. TUBING

- ☐ The installation shall be carried out using specially IMPORTED, manufactured rigid PVC-U tubing to meet DIN 6660/6661 regulations –DN8061/62 group B specification. All joints, clamps sleeves must be imported only (Local items not to be mixed and used, undertaking should be provided by vendor). Where tubing passes through a wall or floor the integrity of the fire rating should not be reduced. Intumescent (crushing) type fire sleeves shall be installed at all such points.
- ☐ The tubing shall generally be installed at high level. The exact routes and positioning of tube work and associated equipment should be agreed with the engineer prior to work commencing.
- ☐ The PVC-U tubing should be imported and adequately supported with suitable imported clamps and zinc plated rods (imported) attached to suitable fixing anchors
- ☐ Tubing should include cost of cable and other mounting accessories as required for networking between pneumatic stations.
- ☐ It should have good physical strength of 50-55N/mm, general medium density, water absorption during 24 hrs should be 0.03% and combustibility self-extinguishing
- ☐ Heat conductivity should be 0.16W/mK
- ☐ Straight tube should have minimum one fixing clamp for every 1.5 meters
- ☐ The bend should have minimum one fixing clamp at every end
- ☐ The offset should have minimum one fixing clamp at each end

## 23. EXPANSION JOINTS

- ☐ Expansion in the tubes must be corrected by using expansion joints, based on the length and Environment temperature range of the system.

## 24. FUTURE SYSTEM EXPANSION

- ☐ The installation design of tubes, bends and sleeves shall permit assembly and disassembly to facilitate future alterations and additions to the system

## 25. DIVERTERS

- ☐ The location and siting of diverters will be agreed with the institute engineer prior to installation.
- ☐ Diverters shall be mounted using suitable fixings as agreed with the civil department of institute
- ☐ The installation should be carried out using either 3 way and 6 way diverters for Plant room so as to allow for the future expansion of the system.
- ☐ The diverters should be especially designed for very intensive use and have a very long life cycle. All diverters should be protected with plastic plates and equipped with a self-controlling and self-adjusting positioning mechanism that prevents the diverter to jam or lock.
- ☐ The drive mechanism must be direct gear driven (3-way) or timing belt (6-way). All diverters must include maintenance-free parts, such as the complete gear and chain mechanism, all bearings, self-adjusting seals and failure-free reed contacts. No vulnerable parts are to be used.



## 26. STANDARDS AND SAFETY:

- ☐ All diverters must meet the European CE standard for mechanical engineering, the EMC standards for electronics and printed circuit boards and meet the IP40 standard. Transport should be shockproof and suitable for e.g. blood or other bio-hazard sample transport.

## 27. SAFETY EXTRA LOW VOLTAGE:

- ☐ The diverters should use the main system cable as power supply (SELV – 24/42 Volt DC). This is to ensure that the diverters have low energy consumption, do not need for external power supply and to prevent electrical shock.

## 28. CHARACTERISTICS:

- ☐ Silent and shockproof transport, suitable for blood transport and other biohazard materials
- ☐ designed for intensive use should have long lifespan.
- ☐ Should have Compact dimensions to permit installation at many places Easy to install.
- ☐ Include maintenance free parts Low energy consumption.
- ☐ Meet the CE guideline 2006/42/EC for mechanical engineering and the EMC standard 2004/108/EG.

## 29. SELF-CONTROLLING AND ADJUSTING

- ☐ Diverters must be fitted with a self -controlling and self-adjusting positioning mechanism that prevents the diverter to jam or lock.

## 30. DESIGN: MINIMAL SHOCKS, NOISE AND VIBRATIONS MOUNTING DIRECTION

- ☐ Diverters must move carriers from one tube to another within the system with a minimum of shock, noise and vibration in accordance with the required destination of the carrier. Diverters must be able to be installed horizontally and vertically.

## 31. INTERCHANGE (LINEAR COUPLER)

- ☐ Where two or more systems form a network the individual systems should be connected together using a system interchange. This is to allow carriers to be transferred from one system to another.
- ☐ All should provide for the following operational requirements.
- ☐ Transfer of carriers from one system zone to another.
- ☐ Temporary storage of carriers to allow a sending zone to immediately start another transaction without waiting for the receiving zone to become free.
- ☐ Transfer of priorities across the system interchange. i.e. a priority receive address will take priority no matter which system zone the carrier is sent from.
- ☐ The interchange should process carriers in any sequence to allow for priorities. It should not rely on a "first in, first out" stacking system.
- ☐ Main block and specialty block should be connected through long distance coupler/ power line etc. for future expansion.

## 32. BLOWER (3-PHASE HEAVY DUTY FOR PRESSURE & SUCTION AIR)

- Each blower must be a heavy duty 3-phase blower (Min. 4 Kw to Max. 6 Kw Power) with a fully adjustable Multi positioning valve/air reversing valve to provide one system line with variable suction and pressure air.
- Each blower must have airflow of minimum 9.0 m<sup>3</sup>/min.
- Each blower must require IP 54 protection.
- Each blower operates only during carrier transaction and remain idle when no carrier is being transported.
- Should be supplied with complete silencer, filters, dampers & installation accessories and multi positioning valve device/air reversing valve.
- The blower should be based on unidirectional rotation and equipped with unique electronic multi positioning valve to switch between compressed air and vacuum reducing air and energy losses.
- The blower should be automatically activated through centralized control system.
- Each blower must be fitted with a Multi positioning valve/air reversing valve, contactor and thermal protection. The Valves should be fully adjustable positioning valve. The Valves should

able to determine the amount of pressure and suction air, without changing the rotation direction of the blower.

### 33. STATIC ELECTRICITY

- ☐ The system should be designed to minimize the build-up of static electricity and facilities should be provided to safely discharge to earth (by vendor), such that neither system malfunction nor nuisance is caused.

### 34. CONDENSATION

- ☐ The system should be designed to minimize the potential for condensation caused by the movement of warm wet air through cold tubes. The location of air inlets shall be designed to reduce the potential for large temperature reductions on the air within the system, both during the systems peak operation periods, and during times when the system is only lightly used.

### 35. RISK MANAGEMENT

#### High risk samples: Slow speed sending:

For high risk and sensitive sample sending's, the system must include a control device for automatic reducing the carrier transport speed to an acceptable level. This must be available on the control unit and on the station itself by selecting a button, or it must be automatically predefined by selecting a certain address that requires a slow speed transfer.

#### ☐ Strange object detection:

The system (with RCI/RFID) must recognize when strange objects (other than a carrier) is put in the system and give an alarm.

### 36. OPERATIONAL UPTIME

#### ☐ Power failure: System protection and recovery

The system must be protected against power failure and be able to carry out all the uncompleted tasks / processes after power is restored. The system must also be equipped with automatic fault detection, automatic recovery capability.

#### ☐ Operational during unavailability

When a single station or line is unavailable, the station or line must be isolated and limited without affecting the operation of the rest of the system. e.g. unavailability because of upgrading / maintenance.

#### ☐ Operational during configuration

It is crucial the whole system stays operational during the following proceedings in the control unit:

- a. Remote and on-site (re)configuration of system settings/parameters
- b. Remote and on-site service and maintenance

#### ☐ System self-service: Automatic purge

The system is capable of carrying out an initial automatic purge per system line in an attempt to clear a blockage or sticking carrier, with the sticking carrier being purged to the source station. If this initial purge operation fails, the carrier must be diverted to a pre-designed (fault) station. If the second purge operation fails, a manual reset must be required.

#### ☐ Direct IP connection with technical support

The system (control unit) must be directly IP connectable with technical support for remote servicing and support whenever required.

### 37. SYSTEM MOUNTING & INSTALLATION

#### ☐ System route according to issued layout

The route must be in accordance with the issued drawings and schematic layout. (Prepare route with a medical PTS specialist).

#### ☐ Location tubing route

The tubing route should be installed in ducts and ceiling if space is available. If the tube has to be routed externally or in hostile environments, it must be protected and insulated to reduce the risk of damage or condensation. The exact tube route, positioning and equipment must be agreed with the engineer prior to installation.

#### ☐ Tube installation

All tubing must be installed straight, level and plumb with the building structure in a satisfactory manner and shall be braced against excessive motion under peak load. PVC-U tubes must be supported at approximately 1500mm intervals, except if stated otherwise.

### ❏ **Mounting materials**

The tubing shall be adequately supported with suitable clamps and zinc plated rods attached to suitable fixing anchors.

### ❏ **Location blowers**

Blowers must be located and installed in a clean environment, isolated from areas in which patients stay, free from any dust, vegetation, waste, rubbish, builder's debris and any other possible source of contamination.

### ❏ **Blower vibration dampers**

A blower must be mounted with vibration dampers to the wall or floor.

### ❏ **Electrical installation: Power and data cable**

The cable for powering the system and transporting data must be one integrated protected cable that is fitted with special strap connections to the tubing.

## **38. OVERALL SYSTEM CHARACTERISTICS**

### ❏ **Full system performance simulation**

The overall performance of the system during normal working days should be fully simulated and shown before installation.

### ❏ **Transporting liquids and solids up to 5kg**

The system must be capable of transporting various liquids and solids with minimum load of 5kg.

### ❏ **Velocity: Up to 6 m/s Slow speed option should be available at Stations.**

The system should be capable of transporting loaded carriers up to 6 m/s with the facility to also send with a lower speed.

### ❏ **Maximum delivery time:**

The system should transport loaded carriers through the system with a **maximum delivery time of 2 minutes between the two longest stations at peak time**. A maximum time is set to ensure carriers are not indefinitely parked in the system.

### ❏ **Shock proof transport**

The system should transport loaded carriers shockproof through the whole system. Carriers should be accelerated and decelerated smoothly without subjecting to shock violent agitation or excessive vibration. The vendors should produce a report showing that their system is able to handle all types of laboratory samples without damaging them.

### ❏ **Air brake type: Air column technique**

Carrier deceleration on arrival at the destination station should be carried out using the 'air column technique'. This is to ensure that an approaching carrier activates a pressure release device and is braked by a still column of air above the station.

### ❏ **Priority sending's: Free programmable**

The system should be able to send / receive priorities for each station which ensures that urgent items are handled with minimum delay. The level of priority must be freely programmable without realistic limitations.

### ❏ **Central reject collection**

All lines must have one centralized reject station that is located at the laboratory or plant room.

### ❏ **Modularity**

The entire system must be modular in design, so it can be modified and/or extended as and when required later by the hospital.

### **Minimal service: Maintenance free parts**

The whole system must require minimal service by using maintenance free parts, such as: complete gear mechanisms, all bearings; self-adjusting seals and failure-free reed contacts.

## **39. SYSTEM COMPONENTS**

### ❏ **Connection with Building Management System**

The control unit must be connectable to the building management system by a potential-free contact (hard) to report system failures.

### ❏ **Laboratory stations: High volume receives and sends**

High volume sending locations, such as the central lab station, must be fitted with a separate receive and send station each with its own line. One line for receive and send is not accepted. High volume receiving locations, such as the central lab station, must be fitted with a bench arrival station that automatically pushes individual carriers on a rail bench. All these stations should be modular and aesthetically designed and as desired by institute.

☐ **Air pressure regulated rooms: Air balance neutral**

Stations used in air pressure regulated rooms (e.g. OTs) are not acceptable if they add or extract air from these rooms.

☐ **Tube switch:**

1. Optical
2. LED indicator
3. Insensitive to light

Optical tube switches with LED functioning indicator must be used to scan the passage of carriers, mechanical tube switches are not accepted because of a shorter life span. The tube switch is not acceptable if sensitive to daylight or any form of artificial light.

**40. MAINTENANCE AND TRAINING REQUIREMENTS FOR SYSTEM MACHINES AND EQUIPMENT**

☐ The contractor shall maintain the system during the warranty & CAMC period. The contractor shall see to it that all warranty and guaranty cards are properly filled and duly submitted to the employer.

☐ The contractor shall train the staff of the employer for running the system. The contractor shall make arrangements for demonstration & trail run before commissioning of the system

☐ **Training**

The training shall include training of:

1. Technical staff
2. Users

☐ Included in this tender is the training of users and technical staff responsible for operation and maintenance of the system. The training of technical staff must draw special attention to:

1. The prime function of the system.
2. The intended method of operating the system.
3. Problems and hazards that can arise from failing to follow the agreed operating, monitoring and maintenance procedures.
4. The danger of making unauthorized modifications, alterations or additions to the system as well as the possible legal consequences.
5. The procedure to be followed if it is suspected that the system is no longer operating correctly.

**41. COMMISSIONING & TESTING**

☐ All stations shall be checked in accordance with the "Station test and commissioning" checklist that is part of the testing and commissioning procedure for medical pneumatic tube systems

☐ **Tests after completion**

After completion of the project, the employer may carry out the tests after completion, which shall be carried out under normal operating conditions to assure that the system performs well under normal operating conditions.

These tests include but not limited to:

1. Running of equipment and system as a whole to a minimum of 30 days
2. System specific tests and equipment specific test.
3. Any other test which the employer intends to carry out to check the stability and reliability of the system.
4. Any defects if pointed out in tests after completion shall be rectified at contractor's expense and within time as deemed reasonable by the employer.

**Stores Officer  
AIIMS, Raipur**

**UNDERTAKING CERTIFICATE**  
**(To be submitted on letter head of the company / firm)**

I hereby certify that the above firm has not been ever blacklisted by any Central / State Government / Public Undertaking / Institute on any account.

I also certify that firm will supply the item as per the specification given by Institute and also abide all the terms and conditions stipulated in tender.

I also certify that the information given in the bid is true and correct in all aspects and if in any case at a later date it is found that any detail/s provided are false and incorrect, any contract given to the concern firm or participation may be summarily terminated at any stage, the firm will be blacklisted and Institute may impose any action as per NIT rules.

Date: \_\_\_\_\_ Name \_\_\_\_\_ :

Place: \_\_\_\_\_ Business Address \_\_\_\_\_ :

Signature of Bidder \_\_\_\_\_ :

Seal of the Bidder \_\_\_\_\_ :

## **FINANCIAL INFORMATION**

Financial Analysis - Details to be furnished duly supported by figures in balance sheet/profit & loss account duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

<b>S. No.</b>	<b>Descriptions</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>

(i) Gross Annual Turn Over.

(ii) Profit/Loss statement for last 5 years:

II. Financial arrangements for carrying out the proposed work.

Signature of Bidder(S) With Seal

Signature of Chartered Accountant with Seal

## **Annexure-VIII**

### **Financial Bid [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	2	3	4	5						
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)							
				Ex - factory/warehouse /Ex-showroom /Off-the shelf (a)	Packing and Forwarding charges (b)	Inland Transportation, Insurance, loading/unloading and Incidental costs at AIIMS-Raipur (c)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at AIIMS-Raipur (d)	GST RATE [%age & value] (e)	Unit Price (at AIIMS-Raipur) basis (f)= (a+b+c+d+e)	Total Price (at AIIMS-Raipur) basis (Rs.) = {4 x 5(f)}

Total Tender price in Rupees: \_\_\_\_\_

In words: \_\_\_\_\_

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately.
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.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

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

1	2	3	4	5				6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit				Total price on Destination + Insurance (local transportation and storage)  = {4X 5 (d)}
				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 AIIMS-Raipur ** (c)	Unit Price on DDP AIIMS-Raipur + Extended Insurance (local transportation and storage) (d) = a+b+c	

\*\* 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.
2. The charges for Annual CMC after warranty shall be quoted.
3. The Bidder will be fully responsible for the safe arrival of the goods AIIMS-Raipur in good condition as per terms of DDP as per INCOTERMS, if applicable.

Indian Agent:

Indian Agency Commission - \_\_\_\_% of FOB

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:



## **Financial Bid [C]**

### **FINANCIAL BID FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD:**

1. S.No.	2. DESCRIPTION OF GOODS	3. QUANTITY. (Nos.)	4. Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.					5. Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)]
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
			a	b	c	d	e	

\* After completion of Warranty period.

GST: Whether extra or inclusive, if extra, indicates the rate\_\_\_\_\_.

**NOTE:-**

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted as per NIT conditions on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. All software updates should be provided free of cost during CMC period.
6. The stipulations in Technical Specification will supersede above provisions
7. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Place:

Name:

Date:

Business Address:

Signature of Bidder:

Seal of the Bidder:

**Financial Bid [D]**  
**FINANCIAL BID FOR OPERATION CONTRACT FOR 10 YEARS:**

1. S.No.	2. DESCRIPTION OF GOODS	3. Annual Operation Contract Cost year wise*.										4  Total Annual Operation Contract Cost for 10 Years
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	

\* After completion of Warranty period.

GST: Whether extra or inclusive, if extra, indicates the rate\_\_\_\_\_.

NOTE:-

1. The cost of Operation may be quoted along with taxes applicable. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
2. Cost of operation will be added for Ranking/Evaluation purpose.
- 3. L-1 will be decided on composite basis i.e. total of Part (A+B+C+D) of Financial Bid.**
4. I/We have gone through the terms & conditions, additional conditions of contract as stipulated in the tender document and confirm to accept and abide the same.
5. The contractor shall take into account all the costs involved in compliance of all the conditions, SITC and other required accessories as stated above while quoting his rates in tender.
6. No other/extra charge would be payable by the Institute.
7. The relevant standards related to the work must have to be followed.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder: