

Tender

For

Supply, Installation, Testing, Commissioning, Running,
Maintenance and Operation for 10 years of
Pneumatic Air Tube System for Hospital Complex,
AIIMS, Jodhpur

NIT No. : Admn/Tender/242/2017-AIIMS.JDH
NIT Issue Date : 08th February, 2018
Pre Bid Meeting : 20th February, 2018 at 03:00 PM
Last Date of Submission : 20th March, 2018 at 03:00 PM
Bid Opening : 21st March, 2018 at 03:30 PM



All India Institute of Medical Sciences Jodhpur

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES

JODHPUR

NOTICE INVITING TENDER

S. No.	Particular	Remarks
01	Name of work	Supply, Installation, Testing, Commissioning, Running, Maintenance and Operation for 10 years of Pneumatic Air tube System for Hospital Complex, AIIMS, Jodhpur
02	Tender No.	Admn/Tender/242/2017- AIIMS.JDH
03	Contract period	9 months (Nine months) for Supply, Installation, Testing, Commissioning of Pneumatic Air tube System
04	Estimated Cost	Rs. 7,00,00,000/-
05	Earnest money deposit	Rs. 14,00,000/-
06	Tender documents	Download from following websites- www.aiimsjodhpur.edu.in http://eprocure.gov.in
07	Pre-bid meeting	20 th February 2018 03:00 PM at Committee room, Administration Block, Medical College, AIIMS, Jodhpur.
08	Last date and time place of submission	20 th March 2018 03:00 PM at Administration Block, Medical College, AIIMS, Jodhpur.
09	Date time and place of tender opening	21 st March 2018 03:30 PM at Committee room, Administration Block, Medical College, AIIMS, Jodhpur.

Please read carefully the notes given with the tender Notice.

**Administrative Officer
AIIMS, Jodhpur**

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, JODHPUR

NOTICE INVITING TENDER

All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute established by an Act of Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites Online bids in two bid system for tender for Supply, Installation, Testing, Commissioning, Running, Maintenance and Operation for 10 years of Pneumatic Air tube System for Hospital Complex, AIIMS, Jodhpur.

Instructions for the Bidder/ The service provider/ Bidders: -

1. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
2. The complete bidding process is online. Bidders should be in possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0291-2740741.
3. Bidder/service provider are advised to follow the instructions provided in the 'Instructions to the service providers/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>'.
Bid documents may be scanned with 100 dpi with black and white **option** which helps in reducing size of the scanned document.
4. **Criteria of eligibility:**
Contractor who fulfill following requirement shall be eligible to apply. Joint ventures are not accepted:
 - a. Should have satisfactorily completed the similar works as mentioned below during the last seven years ending 31st December, 2017 (Annexure IV) with govt. / semi-govt. agency.
Note: Completion certificate to be attached.
"Similar works mean Supply, Installation, Testing and Commissioning of Pneumatic Air tube System for Hospital Complex."
Experience of having successfully completed works during the last 7 years ending last day of the month previous to one in which applications are invited: -
 - i. Three similar completed works each of value not less than 40% of the estimated cost put to tender or,
 - ii. Two similar completed works each of value not less than 60% of the estimated cost put to tender. or
 - iii. One similar completed works of value not less than 80% of the estimated cost put to tender.
(Details should be mentioned in Annexure IV)
 - b. Should have average annual financial turnover of Rs. 7,00,00,000/- during the immediate last three consecutive financial years ending 31.03.2017. Profit and Loss statement and latest Income Tax return for last 5 years filed with IT department and should not have loss in more than 2 year in last 5 years ending 31st March 2017. (Details should be mentioned in Annexure V)
 - c. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to the last date of previous month in which bids are received.
5. **EMD Payment:**
The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 14,00,000/- (Rupees Fourteen Lakhs only)** by way of demand drafts or Bank Guarantee or FDR only. The demand drafts or Bank Guarantee or FDR shall be drawn in

favour of "All India Institute of Medical Sciences, Jodhpur". The EMD of the successful bidder shall be returned after the successful submission of Bank Guarantee/Security Deposit and for unsuccessful bidder(s) it would be returned after award of the contract. **The demand drafts or Bank Guarantee or FDR for EMD must deliver to AIIMS, Jodhpur on or before last date/time of Bid Submission.**

- a) Bidder shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the Bidder fail to observe and comply with stipulation made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited.
 - b) The Firm who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industries (SSI) are exempted to submit the EMD (Copy of registration must be provide along with technical bid)
 - c) The EMD, in case of unsuccessful Bidders shall be retained by AIIMS, Jodhpur till the finalization of the tender. No interest will be payable by AIIMS, Jodhpur on the EMD.
- 6. The Hard Copy of original instruments in respect of earnest money deposit must be delivered to the AIIMS, Jodhpur on or before last date/time of Bid Submission as mentioned above. The bid without EMD will be summarily rejected.**
- 7. Submission of Tender:**
The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.
- 8. Solvency certificate of 40% of contract value.**

I. Technical Bid

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- a) Duly filled format of Technical Bid as per Annexure – II.
- b) Copy of constitution or legal status of the bidder manufacturer/Sole proprietorship/ firm / agency etc.
- c) **The technical bid should be accompanied by demand drafts or Bank Guarantee or FDR of an amount of Rs. 14,00,000/- (Rupees Fourteen Lakhs only). The Demand Draft of EMD should be prepare separately and drawn in favor of All India Institute of Medical Sciences, Jodhpur.**
- d) Copy of Income Tax Return Acknowledgement for last Three years.
- e) Copy of PAN Card.
- f) Copy of GST registration certificate.
- g) Certificate as per Annexure-I, II, III, IV, V, VI, VII & VIII.
- h) Duly Signed Tender document and their annexures.
- i) All other document mentioned in tender document.

II. Financial Bid

- a) Price bid Form [As per Annexure-VIII duly filled and signed] - Price must be quoted as per format specified; failing which tender shall be summarily rejected.

Terms & Conditions:

- 1. Validity:** The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.
- 2. "PRE –BID Meeting" with the intending bidders shall be held on 20th February 2018 from 03:00 PM. onwards at AIIMS, Jodhpur.** All the prospective bidders are requested to send comments/ representations on or before pre-bid meeting. Intending bidder will be allowed to seek clarification on specification, Conditions of Contract, etc. in writing to AIIMS, Jodhpur, within 48 hours after the pre-bid meeting.

3. In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. Delivery and Installation:

i) For goods supplied from India:

All the goods ordered shall be delivered and Installed at AIIMS, Jodhpur within **09 months (Nine months)** from the date of issue of supply order.

ii) For goods imported directly from abroad:

All the goods ordered shall be delivered and Installed at AIIMS, Jodhpur within **09 months (Nine months)** from the date of opening of Letter of Credit for shipment.

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 Jodhpur. 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, Jodhpur for extension of the delivery schedule accordingly. On receiving the supplier's communication, the AIIMS, Jodhpur 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.

5. **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.
6. **Performance Security:** As a guarantee towards due performance and compliance of the contract work, the successful bidder (contractor) will deposit an amount equal to 10% of order value and should be kept valid for a period of 60 day beyond completion of all the contractual obligation, including CMC period towards security deposit by way of demand draft/ bank Guarantee in favour of "All India Institute of Medical Sciences, Jodhpur" drawn on any Nationalized Bank/Scheduled Bank and payable at Jodhpur within fifteen days of the issue of the Letter of notification of award along with non-judicial stamp paper of Rs. 500/- (Contract agreement).
7. **Incidental Services:** The supplier shall be required to perform the following services:-
- Installation & Commissioning, Supervision and Demonstration of the goods.
 - Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
 - 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.
 - 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 separate price list of all accessories and consumables, if any, must be attached/ enclosed along with the Financial Bid.

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, Jodhpur 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, Jodhpur 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, Jodhpur prior to the goods shipment.
- c. The Director, AIIMS Jodhpur 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 one year.

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. Performa attached at **Annexure-VII**.

16. The bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (Government/ Private).

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,

Jodhpur 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, Jodhpur 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, Jodhpur 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, Jodhpur 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, Jodhpur 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, Jodhpur 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, Jodhpur 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, Jodhpur.
33. **Tender Currencies:**
- 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.
 - For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed /undertaken in India.
 - 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:
- 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.;
 - Any GST or other taxes, which will be payable on the goods in India if the contract is awarded;
 - 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;
 - The price of Incidental Services, as mentioned in Financial Bid;
 - The prices of Turnkey (if any), as mentioned in Technical Specification and Financial Bid; and
 - 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:**
- The price of goods quoted FOB port of shipment, as indicated in the Financial Bid;
 - The price of goods quoted CIF port of entry in India as indicated in the Financial Bid;
 - The price of goods quoted for delivery at AIIMS, Jodhpur as indicated in the Financial Bid and Consignee List;
 - Wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported;
 - 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, Jodhpur, as specified in the List of Requirements and Financial Bid;
 - The charges for Incidental Services, as in the Financial Bid;
 - The prices of Turnkey (if any), as mentioned in Technical Specification and Financial Bid; and

h. 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, Jodhpur 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, Jodhpur 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:

100% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the inspection report.

ii) Payment for Imported goods:

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

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

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

b) On Acceptance: 25 % payment would be made after satisfactory installation & commissioning on issuance of Inspection certificate by the AIIMS, Jodhpur.

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, Jodhpur 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 Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent **05 years** Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). 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, Jodhpur. 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, Jodhpur, 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, Jodhpur 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, Jodhpur 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 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 Jodhpur 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 Jodhpur, Rajasthan, 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 Jodhpur. 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.

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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:

Construction of plant room preferably over existing MGPS manifold/ plant room between IPD block & ESS-I at first floor or at space made available by Institute of same size of approximately 350 square metre including stairs/approach, 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 E-in-C shall be replaced by the contractor. In case of any accidents/mis-hap 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.

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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) The control room should be constructed by the vendor for which space would be provided.
- 4) All stations should be front loading type with facility for both send and receive except the laboratory stations which should have separate send & receive facilities.
- 5) Landing station in the laboratories should be horizontal type.
- 6) Minimum two cleaning carriers shall be provided by agency without any additional charges.
 - 7) Sixty percent of carriers supplied should be with tube holders for vacutainers and urine containers.
- 8) Carriers should be available in four colors for visual identification.
- 9) The controls should be using microprocessor based technology or equivalent.
- 10) The software license should include future expansion of up to a total of 250 station and SO lines.
- 11) Visible areas of tubes should be transparent.
- 12) There should be provision to provide additional carriers.
- 13) Carrier Velcro replacement must be available without any extra charges.
- 14) The system should have fire protecting sleeves as per fire regulations.
- 15) The system should be connected to MS for fire control.
- 16) A fault station should be available for detecting missing carriers.
- 17) Site should be inspected by vendor and certificate be provided that the same has been carried out.
- 18) The tube junction sleeves should be as per DIN standards.
- 19) Certification of safety features for all components should be provided.

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Annexure – I**Technical Specifications for SITC and Operations of Pneumatic Tube Systems with Five Years Comprehensive Maintenance Contract After Completion of DLP (Warranty)****1. GENERAL**

This specification is for the supply, installation and commissioning 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. The equipment should carry the 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) at a speed of 5-6m/s. 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. LOCATION OF STATIONS

The tender price is for stations to be installed at the required locations

5. ROUTE

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

6. MAIN CONTROL UNIT

The control unit shall be a self-contained integrated microprocessor based controller unit. The system software shall be permanently loaded in ROM 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 25 zones.

Features

- The system should use Safety Extra Low Voltage (SELV) throughout, except for mains power to controller, exhausters, and 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 serial RS232 ports for PC/Modem/Printer connection.
- The controller shall have a voltage free contact which may be connected to the Building Management System to warn of an alarm status.
- 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. 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. OPTIONAL PERIPHERAL DEVICES

- The system could optionally be connected to:
- An IBM compatible PC for sophisticated data analysis and/ or as a remote control position for the system controller. When used for remote control the PC shall mimic the controllers display and shows system information and operation in real time.
- A printer to provide a permanent transaction record and a printout from the management program.
- LAN Connection with Internet connectivity
- A system control in conjunction with a PC, over the internal or external telephone network. This facility shall provide for first line maintenance to be carried out off-site.

8. 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.

9. 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 off 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.

10. STATIONS

- 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 wipe able membrane type. Carriers should be loaded through smoked acrylic door 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 three-digit number or 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 chip

Arrival Basket

- Each station should be provided with a carrier arrival basket or cabinet of sufficient size to accommodate the number of carriers allotted to the appropriate station. The basket must be fixed under the station and prevent carriers to block the exit of the station and thereby system line. A lockable variant of the basket must be available for public areas.

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.

11. SECURITY

- Carriers could be secured during both the send and receive operations.
- Optionally carriers could be received into a secure receiving cabinet accessible only by key lock or 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.
- Optionally 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.

12. CARRIERS

- 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.

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.

Certified leak-proof

- The leak-proof carrier must be certified by a notified body.
- The system must be provided with certified leak-proof carriers that can only be sent in the system when locked/closed for 160mm systems.
- The carrier should be specially designed so that it can only be sent in the system when properly closed. This is to ensure a carrier cannot open during transfer.

Characteristics:

- Large colour and size variation should be available easy to open and close.
- Lockable by using an optional insert lock with key.
- Leak-proof (certified), cannot be sent in the system when not closed Should have RFID/RCI carrier recognition chip. Easy to cleanable and sterilizeable Special purpose cleaning carrier
- 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.

RCI/RFID chip

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

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.

Color code

- Carrier must be color coded for each department, identification of specific users is required by the infection control officer.

Sterilizing – autoclave

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

Carrier acceptance

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

13. TUBING

- The installation shall be carried out using specially IMPORTED manufactured rigid uPVC tubing to DIN 8061/62. All joints, clamps sleeves must be imported only (Local items not to be mixed and used). 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 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 2 meters
- The bend should have minimum one fixing clamp at every end
- The offset should have minimum one fixing clamp at each end

Expansion joints

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

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

14. DIVERTERS

- The location and siting of diverters will be agreed with the engineer prior to installation.
- Diverters shall be mounted using suitable fixings as agreed with the civil department.
- The installation should be carried out using either 3 way or 6 way diverters 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.

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.

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.

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.

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.

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.

Design: Minimal service parts

- Diverters drive mechanism must be direct gear or belt driven; a chain drive is not acceptable because of maintenance reasons.

15. INTERCHANGE (LINEAR COUPLER/ ZONE TRANSFER UNIT)

- 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.
- Dependent on the type of system layout different types of interchange should be offered.
- 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.

Long Distance Coupler/ Power line:

- A long-distance coupler must make use of 2 tubes, one suction and one pressure tube. The coupler must make use of a continuous air stream in both tubes, in which arriving carriers are continuously inserted, up to 5 carriers per tube. A continuous air stream is to eliminate a batch waiting line and ensure the most efficient/ faster way of transporting carriers over a long distance.

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

- Each blower must be a heavy duty industrial 3-phase blower with a fully adjustable positioning valve, to provide one system line with variable suction and pressure air. (Frequency controllers are not allowed for controlling the airflow)
- Blower Energy management – Each blower should operate only during carrier transaction and remains idle when no carrier is being transported.
- Silencer(s) – Each blower and the direct fitted air tubes must be fitted with a silencer(s) for less noise emission.
- Thermal Protection – Each blower must be fitted with a contractor and thermal protection.

17. 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, such that neither system malfunction nor nuisance is caused.

18. 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.

19. AS FITTED DRAWINGS AND MANUALS

- Two sets of as fitted drawings shall be supplied, together with a comprehensive operation and maintenance manual for the system as installed. These manuals shall contain in sufficient detail, the procedures for operation and maintenance schedule for all components.

20. 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.
- **Authorized sending and receiving:**
The system must allow authorized sending and receiving of carriers by recognizing staff (touch key/ push key) and carriers (RFID / RCI).
- **Unauthorized access:**
In order to prevent unauthorized access to carriers waiting for transport or for being picked up, all front loading stations must be equipped with a transparent automatic lockable door that can be opened with a touch key/push key.
- **System password protection:**
The configuration software and the control unit must have password protection; it ensures a high level of protection against unauthorized access to system configuration

21. 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.

22. CONTAMINATION PREVENTION

- **High risk sample handling: Certified leak-proof carrier**
Any high risk samples must be transported in a leak-proof carrier that must be certified by a notified body. The system must be restricted to accept leak-proof carriers that are not locked / closed.
- **Carrier disinfection**
All carriers must be serializable according to the modern cleaning/ sterilizing methods the hospital uses.
- **Restriction of carrier destinations**
The system must provide the functionality to restrict users/ stations from sending carriers to particular station(s) within the system.
- **User interface: Wipe able membrane, keypad with display**
Each station must have a user interface in the form of a wipe able membrane keypad with a 4-line LCD display that is easy to clean.
- **Contamination cleaning: Procedure supplied**
In case of contamination in the system, e.g. spillage of bio hazard material, the system must be cleanable according to the local contamination regulation in force or contamination regulation from the HTM guidelines or WHO (World Health Organization).

23. 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 voids 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.

24. 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.

- **Language(s)**

The main system language for stations and the control unit must be English.

- **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**

The system should be capable of transporting loaded carriers up to 6 m/s with the option 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. A maximum time is set to ensure carriers are not indefinitely parked in the system.

- **Shockproof 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**

The system must have one centralized reject station that is located at the laboratory.

- **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.

26. 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: Upward receiving**

In laboratory stations the arriving carrier must be received upward into the station, thereby ensuring that carriers are not accelerated due to gravity in the event of failure of the soft arrival system. This system is to ensure total safety of even delicate glass samples.

- **Laboratory stations: High volume bench arrival**

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.

- **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.

- **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.

27. 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.

28. 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.

**Administrative Officer
AIIMS, Jodhpur**

Annexure-II

Technical Bid

S. No.	Details of the Bidder / Bidder	
1.	Name of Firm /Service provider / service provider	
2.	Complete Address:	
3.	Name of Proprietor/ Partner/ Managing Director / Director.	
4.	State clearly whether it is sole proprietor or partnership firm or a company or a Government Department or a Public Sector Organization	
5.	Details of Earnest Money Deposit (EMD) (Yes/No) DD No.: Dated: Drawn on Bank: Amount: (Rupees.....)	
6.	Whether each page of NIT and its annexure have been signed and stamped	
7.	Whether the firm is a registered firm Yes/No (attached copy of certificate).	
8.	Copy of GST Registration	
9.	Permanent Account No. (Copy must be provided)	
10.	GST No. (Enclose the attached copy of GST certificate)	
11.	Copy of Income Tax Return Acknowledgement for last five years	
12.	Any other information, if necessary	
13.	Name and address of service centre nearby Jodhpur	
14.	Email ID	
15.	Contact No.	

Note: All pages should be numbered & indexed.

Date:

Place:

Name :

Business Address :

Signature of Bidder :

Seal of the Bidder :

Annexure-III**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 :

Annexure-IV

Details of all works of similar class completed during the last Seven years ending last day of the month ending December, 2017.

**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 whom ref. may be made
1	2	3	4	5	6	7	8	9	10	11

* Indicate gross amount claimed and amount awarded by the Arbitrator

* Please attach completion certificate with order copies for the above information.

Date:

Place:

Name :

Business Address :

Signature of Bidder :

Seal of the Bidder :

Annexure-V**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).

S. No.	Descriptions	2013-14	2014-15	2015-16	2016-17	2017-18

(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-VI

Bill of Quantities:

S. No.	Description	Qty.	U.O.M.
1.0	PC Control and Software		
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 center for controlling and monitoring all transmissions within the system on a real-time basis. Plus, minimal a 120GB HDD, DVD recorder and player. Personal Computer with latest Microsoft Windows, Monitor TFT - Minimum 19 inch, UPS power supply for PC min 600W/750VA, Software, Power supply / Interface with Cable UTP & Software for analysis track and trace. The supplied system should be RFID enabled. Complete in all respect.	1	Lot (As required)
2.0	Supply, Installation, Testing & Commissioning of Tube System dia. 160mm		
2.1	Disp Tube 160x3.2, NW160 PVC Grey, Standard delivery length 5m. DIN certified	3200	Mtr.
2.2	Disp Bend 160x3.2, NW160 R-800 PVC grey.	700	Nos.
2.3	Connecting sleeve NW160 PVC	1800	Nos.
2.4	Steel Clip basic NW160 D160 MB	2000	Nos.
2.5	Control cable 3x2x0.6 J	4000	Mtr.
2.6	Tube adhesive PVC (Imported)	80	Can.
2.7	Solvent for PVC	40	Can.
3.0	Stations		
3.1	Supply, Installation, Testing & Commissioning of Front Loading Stations (Comply with latest health and safety regulations). Access to the stations mechanism is protected to the interlock guard door. This ensures no person, including the mentally ill, elderly confused or children can reach hazardous mechanisms. Stations should be granted soft arrivals in any situation.	51	Nos.
3.2	Laboratory Stations with automatic empty carrier return.	4	Nos.
3.3	Laboratory receiving stations (receiving rail bend R=650, Receiving rail extension 1m NW160, Receiving Valve Lab, Air Valve[Diode]	4	Nos.
3.4	Stations Box	4	Nos.
3.5	Optical Tube Switch LED functioning indicator to scan the passage of carriers, mechanical tube switch are not acceptable because of a shorter life span.	4	Nos.
3.6	Stations Receiving basket with soft arrival Leather Bag	56	Nos.
3.7	Lab samples holder to secure the blood transportation to protect hemolysis in samples	40	No.
4.0	Linear Coupler		
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. [Connects up to 10 lines in 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	No.
5.0	Divertors		
5.1	3-way diverter NW160	14	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.	6	Nos.
5.4	Steel sleeve NW 160 L100	150	Nos.
6.0	Blower Units / Accessories		

6.1	SB 0530 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. No diverters allowed to change the air direction, each system line has only one blower!	10	Nos.
6.2	Installation/Connecting accessories (Vibration absorber, Contractor, Thermo relay, Anti Interference set, MSV, Silencer , Elbow & Carrier Brake device)	1	Lot
7.0	Carrier		
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.	300	Nos.
7.2	Leak-proof Carrier for Urine samples and other infected samples	30	Nos.
7.3	Identification Chip for Carrier (Transponder)	330	Nos.
7.4	Carrier Support for keeping minimum five carriers.	65	Nos.
8.0	Air Service Accessories		
8.1	Air tube; Air Sleeve, Elbow, Clip Still & Air Reduction	1	Set
9.0	Installation Accessories		
9.1	Threaded rod M8, Tie Wrap, Nut, Bolts etc.	1	Set
Comprehensive Maintenance Charges Part-II			
1	Charges for Comprehensive maintenance service Contract for executed work and as per detail technical specifications as per Vol-I technical specifications under SITC Price for 1st Year after completion of Defect Liability Period / warranty period of five years.	1	Annual Rate
2	Charges for Comprehensive maintenance service Contract for executed work and as per detail technical specifications as per Vol-I technical specifications under SITC Price for 2nd Year after completion of Defect Liability Period / warranty period.	1	Annual Rate
3	Charges for Comprehensive maintenance service Contract for executed work and as per detail technical specifications as per Vol-I technical specifications under SITC Price for 3rd Year after completion of Defect Liability Period / warranty period.	1	Annual Rate
4	Charges for Comprehensive maintenance service Contract for executed work and as per detail technical specifications as per Vol-I technical specifications under SITC Price for 4th Year after completion of Defect Liability Period / warranty period.	1	Annual Rate
5	Charges for Comprehensive maintenance service Contract for executed work and as per detail technical specifications as per Vol-I technical specifications under SITC of SVPIMS & R-Hospital-Price for 5th Year after completion of Defect Liability Period / warranty period.	1	Annual Rate
	TOTAL COST FOR COMPREHENSIVE MAINTENANCE SERVICE FOR 5 YEARS / AFTER COMPLETION OF DEFECT LIABILITY PERIOD / WARRANTY PERIOD OF FIVE YEARS.		
6	Operation of complete system for Ten (10) years as per specifications	120	month

Date:
Place:

Name:

Business Address:

Annexure-VII

MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

To

The Administrative Officer,
All India Institute of Medical Sciences, Jodhpur

Sir,

TENDER: _____.

we, _____, who are established and
reputable manufacturers of _____, having factories at _____
and _____, hereby authorize Messrs. _____ (name
and address of agents)

to bid, negotiate and conclude the contract with you against Tender

No. _____ for the above goods manufactured by
us. No company or firm or individual other than Messrs. _____ 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 Messrs. _____
(Name of manufacturers)/Principal.

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	6						
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Ex - factory/ Ex-warehouse /Ex-showroom /Off-the shelf	Packing and Forwarding charges	Inland Transportation, Insurance, loading/unloading and Incidental costs at AIIMS-Jodhpur	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at AIIMS-Jodhpur	GST RATE [%age & value]	Unit Price (at AIIMS-Jodhpur) basis	Total Price (at AIIMS-Jodhpur) basis (Rs.)
				(a)	(b)	(c)	(d)	(e)	(f)= (a+b+c+d+e)	= {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-Jodhpur ** (c)	Unit Price on DDP AIIMS-Jodhpur + 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-Jodhpur 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 st	2 nd	3 rd	4 th	5 th	
			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.

Date:

Place:

Name:

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 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	

* 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.

Date:

Place:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder: