

# राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान

जैव प्रौद्योगिकी विभाग, विज्ञान और प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान  
अरुणा आसफ अली मार्ग, नई दिल्ली-110067

## **NATIONAL INSTITUTE OF IMMUNOLOGY**

An Autonomous Research Institute of the Department of Biotechnology, Ministry of Science and Technology,  
Government of India

Aruna Asaf Ali Marg, New Delhi-110067  
(Ph. No. 011-26171121-45 & 26717010-19)

## **TENDER DOCUMENT**

### **FOR**

**Replacement of cooling coil of AHUs in different  
laboratories/Office at NII, New Delhi**

# राष्ट्रीय प्रतिरक्षाविज्ञान संस्थान

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NII/EE/Elect/227/LTN/18-19/05

Date 04.05.18

### लिमिटेड निविदा सूचना/Limited Tender Notice

Sealed tenders are hereby invited in two parts, (I-Technical Bid and II- Price Bid) on behalf of the Director, NATIONAL INSTITUTE OF IMMUNOLOGY, Aruna Asaf Ali Marg, JNU Campus, New Delhi-110067 for the work “**Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi**” from **specialized agency executed similar nature of works in any Central Govt./State Govt./PSU/Autonomous bodies and other Govt. Departments**, as per schedule of work and General Terms & Conditions available on the Institute’s website [www.nii.res.in](http://www.nii.res.in) and [CPPP web site](#).

1. Name of Work : “**Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi**”
2. Estimated Cost : ₹ 1,76,000/-
3. Earnest Money : ₹ 4,500/- (interest free)
4. Last Date of sale of tender : 21.05.18
5. Last date of receipt of tender : 23.05.18 (up to 10.30 AM)  
(Both Technical & Price Bids)
6. Date of opening of tender : 23.05.18 (at 11.00 PM)  
(Technical Bid only)
7. Time for completion of job : 25 days
8. Cost of tender : ₹ 500/- (Non- refundable. However, in order to promote wider participation and ease of bidding, no cost of tender document may be charged for the tender documents downloaded by the bidders).
9. **Prequalification criteria:**
  - a) Only specialized agency executed similar nature of works in any Central Govt./State Govt./PSU/Autonomous bodies and other Govt. Departments needs to apply. A proof to this effect must be submitted along with the technical bid.
  - b) Agency should be registered PWD/CPWD/MTNL/MSME/Central Govt./State Govt./PSU/Autonomous bodies and other Govt. Departments in Electrical/Electro-mechanical/HVAC/SAC category.

**MSME/NSIC registered bidders should give declaration that their UAM number has been declared or linked on CPPP (also they should attached copy of the same), failing which such bidders will not be able to enjoy the benefits as per Public Procurement Policy for MSEs order, 2012 (or amended time to time) for tenders invited electronically through CPPP.**

- c) The agency should have executed at least one similar works of value not less than ₹ 1.66 lakh **or** two similar work not less than of ₹ 1.03 lakh each **or** three similar work not less than of ₹ 0.83 lakh each in any Central Govt./State Govt./PSU/Autonomous bodies and other Govt. Departments during last **seven financial years** [the similar works means providing and fixing of chilled water cooling coil of AHUs (other works like P & F of AHUs/FCUs/air-conditioning units, central chillers, piping works, DX system/units or coils (coils of DX system/unit) will not consider in any case ]. This may be inspected (at the risk and cost of company/agency) by the Engineer-in-charge if required. **Company/agency shall have to submit (with Technical Bid) all supporting documents i.e work order, Completion certificate (with name of work, period of work and value etc. ) issued by the competent authority etc.**
- d) The agency should have competent personnel stationed in the office/service centre in Delhi/NCR. The service centre in Delhi/NCR must also be stocking spares for providing prompt services during contract period/defect liability/guarantee period and after that if required by the Institute. **A proof to the effect must be furnished.**
- e) The agency shall submit copy of balance sheet/ P&L Account/ITR for the assessment year i.e 2015-16, 2016-17 & 2017-18.
- f) The agency shall visit/examine the site as per given time schedule or prior appointment and submit duly filled & signed Annexure-II counter signed by Ex. Engg or his representative. **Non-submission of certificate (duly signed by Engg-in-charge or his representative) by bidder treated as unresponsive bid and disqualified automatically.**
- g) The bidder shall attach copy of GST registration number.
- h) The bidder shall attach copy of agency/company RTGS details
- i) An affidavit in a e-stamp paper of ₹ 50/- to the effect that ‘agency’ undertakes that :
- (i) **There is no complaint against me/us (Tenderer/Bidder) from any of the Govt. Deptts. / Govt. Institutions etc. towards delaying of execution of work related to SAC/Electrical/HVAC etc or ‘delay/non-attending of complaints during AMC/CAMC of SAC/Electrical/HVAC during last three years.**
  - (ii) The documents submitted by the bidder are genuine and undisputable and in the event of it coming to notice at a later date that the documents are not genuine, Bidder shall be liable for action and such compensation payable to NII as may be decided by the Institute.
  - (iii) The Tenderer/Bidder will not withdraw his/their Tender after opening of technical bid and if done so; his/their EMD may be forfeited.
  - (iv) The Tenderer/Bidder will not sublet the work (if awarded to his/their Bidder) and if it does so; the penalty shall be payable by his/their Bidder to NII as may be decided by the Institute.

**Copy of all documents of pre-qualification criteria and as asked for in the tender may please be attached with the Technical Bid ONLY. In case of shortfall of any documents/cost of tender/EMD, tender will summarily be rejected and no queries will be entertained in this regard. Decision of the NII authority shall be final in this regard. ALL DOCUMENTS PERTAINING TO THE REQUIREMENT OF THE PREQUALIFICATION CRITERION WILL BE FURNISHED IN THE ‘TECHNICAL BID’S ENVELOPE ONLY**

**The offer shall remain open for at least 120 days from the date of opening of Price Bids. The cost of tender and Earnest Money shall be accepted only in the form of Demand Draft/Pay order drawn in favour of the ‘Director, NII’ & payable at New Delhi, failing which the bid will summarily be rejected.**

(कार्यपालक अभियंता)

## सामान्य नियम और शर्तें/GENERAL TERMS AND CONDITIONS

**Name of Work: - Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi.**

1. The work shall be done as per the instruction and prior approval of Engineer-in-charge of National Institute of Immunology (Hereinafter referred to NII).
2. The bidders may visit/examine the site and its surrounding from 07.05.18 to 21.05.18 on any working day between 2:00 PM to 04:00 PM by prior appointment with the Engg-in-charge to assess the accessibility and assess the scope of works before submitting their offer. No claims later on in regard to the site and its surrounding or any matter relating thereto shall be entertained. The bidders shall arrange & maintain at his (their) own cost all materials, Tools & Plants, security (for their man/materials), storage for material and facilities to the workmen for executing the work. The agency shall visit/examine the site as per given time schedule or prior appointment and submit duly filled & signed Annexure-II counter signed by Ex. Engg or his representative. **Non-submission of certificate (duly signed by Engg-in-charge or his representative) by bidder treated as unresponsive bid and disqualified automatically and will not be considered for further evaluation.**
3. The cost of tender document is ₹ 500/- (Non-refundable). The above mentioned cost of the tender document will have to be paid through a separate **Demand-Draft drawn in favour of "Director, NII" payable at New Delhi** along with the Technical Bid, failing which the bid will summarily be rejected.

In order to promote wider participation and ease of bidding, no cost of tender document may be charged for the tender documents downloaded by the bidders.

4. An Earnest Money Deposit [EMD, (No exemption on EMD)] of ₹ 4,500/- (Rupees Four Thousand Five Hundred Only) has to be enclosed along with the Technical Bid (Part-I). The EMD shall be only in the form of **Demand Draft drawn in favour of "Director, NII"**, payable at New Delhi, along with the Technical Bid, failing which the bid will summarily be rejected. No Cheque / Cash shall be accepted as EMD.

**However, EMD exemption shall only be allowed on submission of valid documents as per LTN conditions and to the agency registered with the MSME/NSIC and having valid UAM number duly declared/linked on CPPP etc and full-filled pre-qualification criteria clause No.9 (a), (b) & (c); failing which the tender will be rejected automatically.**

**MSME/NSIC registered bidders should give declaration that their UAM number has been declared or linked on CPPP (also they should attached copy of the same), failing which such bidders will not be able to enjoy the benefits as per Public Procurement Policy for MSEs order, 2012 (or amended time to time) for tenders invited electronically through CPPP.**

5. The rates mentioned in the financial bid shall be inclusive of all Packing, Forwarding, Cartage, Insurance, Loading-unloading, road permit/state entry permit and Delivery, Installation, Testing, Commissioning, etc at site including temporary constructional Storage, Risks, Overhead Charges, General Liabilities/ Obligations etc. Any variation in the above said components till the completion of the work will also be in the bidder's account.

However, GST shall be extra as applicable.

6. The bidder shall attach copy of PAN Card.
7. The bidder shall attach copy of GST registration number.
8. The bidder shall attach copy of company RTGS details.
9. Duly sealed tenders shall be dropped in the tender box placed at the reception counter of the Main NII building. Technical Bid MUST contain one Xerox copy of the unfilled bid document duly signed and stamped on each page as a token of acceptance of all terms and conditions /clauses of the tender enquiry.
10. The conditional bids shall not be considered under any circumstances and rejected without any notice.

11. All bids shall be the property of NII, and contractors will lay no claim whatsoever on the same.
12. Director, NII reserves the right to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the NII in this regard will be binding on all the bidders. Bidders not complying with any of the provisions stated in this tender document are liable to be rejected. Director, NII reserves the right to accept or reject any tender without assigning any reason and does not bind himself to accept the lowest tender.
13. Payment terms as follows: -
  - a) No advance payment will be made.
  - b) The payment shall be made after successful completion and handing over of work in all respect.
14. Income Tax and surcharge will be deducted as per Govt. of India rules.
15. No Tools & Plants shall be supplied by the NII.
16. Successful bidder shall deposit an amount equal to 10% of the tendered and accepted value of the work as performance guarantee in the form of DD/BG/EMD within 10 days of issue of award/LOI letter. **The performance guarantee shall be remain valid for a period of SIXTY DAYS beyond the date of completion of defect liability period.**
17. Earnest Money Deposited by the successful bidder shall be converted into security deposit or release after submission of performance guarantee under clause 16 above (the overall security deposit will be maximum of 10% of accepted value of work/work done).
18. The agency shall carried out monthly visit/inspection/maintenance (if required, with prior approval of Engineer-in-charge) of entire system and attend un-limited calls/break-down calls during the contract period. Thoroughly check/service entire system two times in a year with prior approval of Engg-In charge.
19. The rates quoted by agency shall be valid till the completion of defect liability period.
20. Any violation of instruction/agreement or suppression of facts will attract cancellation of agreement without any reference or any notice period and in such case the amount of earnest money/P.G will be forfeited.
21. Time allowed for completion of work shall be **25 days** which shall be reckoned from tenth day from the date of award letter or letter of intent.
22. In case the successful bidder resiles from the offer within the validity of tender, the earnest money will be forfeited. Similarly if successful contractor fails to commence the work within 20 day from the date of issue of award letter, the amount of earnest money will also be forfeited besides blacklisting the firm.
23. Time allowed for the work shall be strictly followed otherwise the bidder shall be liable to pay compensation at the rate of **1.5%** of the tendered value of the work per week of delay on the part of the bidder subject to a maximum of **10%** of the total tendered value of work. The decision of competent authority of NII or the Director on the delay shall be final and binding.

However, for any reason beyond the control of the bidder the extension of time may be granted upon application by the bidder in prescribed format. No claim for any compensation during the extended period shall be entertained and the NII's decision in this regard shall be final.
24. If bidder at any time makes default during currency of work or does not execute any part of the work with due diligence or Commits default in complying with any of the terms and conditions of the contract and does not initiate any remedy for it or takes effective steps for its remedy or Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in their behalf by the Engineer-in-charge.

The Engineer- in-charge without prejudice to any other right or remedy against the bidder which have either accrued or accrue thereafter to the Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the bidder.

25. Director, NII reserves the right to terminate the contract without any reference or any notice period on account of poor workmanship, non-compliance of set norms/specifications for the works, delay in progress of work, violation of any contract provisions by the bidder, failure to start the work at NII, within 15 days from date of issue of Letter of Intent (L.O.I). The contract can also be terminated at the request of contractor within 10 days from the date of issue of LOI order. In such cases the bidder is liable to pay Liquidated damages @ 5% of tendered value besides forfeiting performance guaranty /security deposit/EMD.
26. NII shall be fully empowered to expel any of the company's staff in case of any indiscipline/misconduct/violence besides of that suitable action shall be taken against the company. All the decisions of the Competent Authority of NII shall be final and binding on the company.
27. The company should take extra precaution to ensure that there is absolutely no damage to the facility/laboratories/equipments of NII and if so done; suitable action shall be taken against the company and all decisions of the Competent Authority of NII shall be final and binding on the company.
28. Water & electricity required for the job shall be made available free of cost by the NII. However, necessary piping, valve, wiring, cabling, lamps, switches & sockets, main switches, halogen/tube light fitting and tapping from existing line/connection including labour have to be arranged by the bidder at their own risk & cost.
29. The bidder shall supply materials at site with manufacturers test certificate and challan as desired by the Engineer-in-charge.
30. All materials brought at site shall be got approved by the Engineer-in-charge before being used. If rejected, the same shall be removed immediately. The material of only approved make shall be brought at site.
31. The bidder shall depute their own security staff for watch and ward of their materials supplied/ installed at site till the final handing over of the complete work and temporary lockable shed/Almirah etc. shall be arranged by bidder at his own risk and cost. No accommodation/ staff/ lockable space will be provided by NII under any circumstances.
32. The work done beyond **100%** deviation limit or an extra item, the rate shall be worked out based on prevailing market rate of the area. Also during the execution of work, the company may be required to execute certain additional/extra items in order to complete the job/works beyond the BOQ for which no rates are available. As far as possible, the rates shall be derived from nearest acceptable tender rates. The rate of extra/substitute items shall be as per a rate analysis to be prepared by the company, based on prevailing market rates (1) cost of material (2) cost of direct labour (3) company over head & profit 10%, duly approved by NII before execution of work
33. No escalation in any form either of cost/materials/labours or any taxes shall be payable by the NII during the contract period.
34. The bidder shall be solely responsible for any accident/medical/health related liability/compensation for the personnel deployed by it at NII. The NII shall have no liability in this regard.
35. The personnel employed by the bidder will not claim any right to become the employees of NII and there will be no Employee and Employer relationship between the personnel engaged by the bidder and NII.

36. No tent or hut shall be allowed to be put up for workers to stay within the campus. The contractor is deemed to have inspected the site and thoroughly acquainted himself with the site conditions, availability of storage space for materials etc.
37. It may here be noted; that the entire staff and labour of the bidder will follow all the security instructions issued by the NII from time to time and these instructions may include the provisions to make suitable barricades or temporary wall fence to ensure that the labour confines itself to the area of the work ONLY. Serious action will be taken in case any of the bidder's workmen are found to be tampering with the Laboratory equipment and property of the NII. Suitable damages will be recovered from the bidder's bills if anyone is found to do so. All decisions of the Engineer-In Charge in respect of the same will be final and binding on the bidder.
38. On completion of all work, bidder shall remove all surplus materials & leave the site in a broom clean condition, failing which the same shall be done at bidder's risk & cost.
39. Bidder shall be responsible for disposing off the all old dismantled waste materials away from the campus. The disposal of such materials shall be done immediately after completion of work at own risk & cost.
40. The work shall be guaranteed for at least one year from the date of actual completion of the work for both materials as well as workmanship.
41. **The rates quoted by bidders should be realistic and workable for each and every items. Quoting unrealistic/unreasonable lower or higher price will be treated as non-responsive bid and will not be considered for further evaluation. The decision of NII shall be final in this regards.**
42. The bidder shall ensure compliance of all statutory laws & bye laws of the central Govt./ state Govt./Municipal authorities related to the employment of their staff and all obligations under Minimum Wage Act, Workman Compensation Act, Provident Fund & Miscellaneous Provision Act, Bonus Act & Contract Labour Act 1970 etc. NII will not be responsible for such purposes in anyway.
43. Any claim, dispute or difference arising out of or in connection with this agreement and which cannot be settled by mutual consultations, shall be referred to sole Arbitration or an Arbitrator to be appointed by Director, NII. The award of the Arbitrator shall be final and binding between the parties as per the terms and conditions of the Agreement to be executed on award of contract. The Arbitrator proceeding shall be governed by the Arbitration and Conciliation Act 1996 and shall be conducted in Delhi

The agreement is subject to the jurisdiction of the courts at Delhi.

(कार्यपालक अभियंता)

# निविदा जमा करने के लिए सामान्य शर्तें/ GENERAL CONDITIONS FOR SUBMISSION OF TENDER

## 1.0 Submission of Tender:

Tenders should be submitted in sealed envelopes in two parts separately, i.e. "**Technical Bid**" (**Part-I**) and "**Price bid**" (**Part-II**). Both the parts should be further sealed in an envelope super-scribing name of work, due date for opening, Bidder's name & address. The tender duly filled in should be sent to above mentioned address either by post or hand delivered in the tender box kept in the area of reception, NII. NII will not be responsible for tenders lost in postal transit or otherwise. It should not be handed over to any employee of the NII. Any clarifications / amendments / corrigenda etc., to LTN before last date of submission of bid will be available on our website [www.nii.res.in](http://www.nii.res.in) and [website of CPPP](#). Bidder's are therefore advised to keep visiting our website. No tender shall be accepted later than the time schedule specified above. Tender once submitted will remain with the NII and will not be returned to any of the Bidder's.

## 2.0 Technical Bid (Part-I) :

In this bid, the Bidder should submit his bidder profile, organizational setup, credentials, list of plant, machinery & tools in his possession. The Bidder's are required **to attach entire LTN (except the price bid part) duly signed & stamped as a token of acceptance of LTN conditions with this bid**. NII reserves the right to visit the working site mentioned by Bidder's to find out the quality of services rendered. The following documents are essentially to be submitted with technical bid for qualifying.

- (i) Earnest Money Deposit of ₹ 4,500/- (**Rupees Four Thousand Five hundred Only**).
- (ii) Entire LTN (**except Price bid**) duly signed & stamped by the Bidder.
- (iii) All document as asked in the prequalification criteria.
- (iv) The bidder shall attach copy of PAN Card.
- (v) The bidder shall attach copy of GST registration number.
- (vi) The bidder shall attach copy of agency/company RTGS details.
- (vii) **Company/Firm has to submit a declaration (on their letter pad) that "they will meet/fulfill all the items of scope of work & Technical specifications" of NIT (see Annexure III (a) & III (b)).**
- (viii) **Cost of tender document i.e. ₹ 500/- (Rupees Five Hundred Only)** (Non-refundable. However, In order to promote wider participation and ease of bidding, no cost of tender document may be charged for the tender documents downloaded by the bidders).

## 3.0 Price Bid (Part-II):

In this bid, the bidder is required to quote his items rates/prices for the "**Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi**" in the schedule of work attached. The scope of work & technical specifications are provided for your reference. The quoted prices shall be **including all the taxes levied by statutory Govt. bodies. It is mandatory on Bidder to quote the rate of all items as asked for in the Price Bid (BOQ/ Schedule of work)**. Failure to adhere to this condition may lead to rejection of tender. The



Tenderer/Bidder should quote unconditional rates, neatly written without any overwriting and duly signed & stamped in all pages.

#### **4.0 Earnest Money :**

An earnest money of ₹ 4,500/- (**Rupees Four Thousand Five Hundred Only**) has to be enclosed along with the **Technical Bid (Part-I)**. The EMD shall be only in the form of Bank Draft in favour of “**Director, NII**”, payable at **New Delhi**. No Cheque / Cash shall be accepted as EMD. EMD of the unsuccessful bidders shall be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The EMD of the successful agency (**L1**) shall be held back as security deposit.

#### **5.0 Validity of Tender:**

**Tender shall be valid for our acceptance without any change in rates and LTN conditions for a period of 120 days from the date of opening of Price Bid.**

(कार्यपालक अभियंता)

**बोलीदाता द्वारा घोषणा/Declaration by the Bidder**

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

**Enclosures:**

1. **DD/Pay Order No.....**

2. **Terms & conditions (each page must be signed and stamped with the seal)**

3. **Financial Bid.**

**(Signature of Bidder with seal)**

**Name:**

**Address:**

**Date:**

**NOTE: Submission of all the documents mentioned above along with declaration, is mandatory. Non submission of any of the documents above will render the bid to be rejected. Also, Non adhering of any of the conditions of LTN will render the bid to be rejected.**

**प्रमाणपत्र / अंडरटेकिंग**  
**Certificate/Undertaking**

- a) Certified that I / we have visited the site on ----- and assessed the nature and amount of work involved before submitting our offer. We will be able to execute the work within the available site condition.
- b) I undertake that I / we have visited the place of “- **Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi**”, and noted the entry door / approach sizes/quantities, floor space, existing electrical connections etc.. Manpower & Materials supplied by us will be suitable for in the existing location / condition with sufficient space all around. No extra cost will be claimed by me later for any difficulties/modifications involved for total execution of all the air conditioning systems as mentioned in the tender. I also understand that the work is related with already operating/functional laboratories, so we are ready to work in day / night hour subject to availability of site/space.

**(Signature of Bidder ) :**

**(NAME):**

**(SEAL):**

(कार्यपालक अभियंता)

**Note : (i) A certificate for the site inspection should be duly signed by Engg-in-charge or his representative as per annexure-II. Non-submission of this certificate duly signed by Engg-in-charge will be treated as un-responsive bid and dis-qualified automatically and will not be considered for further evaluation.**

**(ii) Above certificate/ undertaking is to be given on the Letter head of the Bidder.**

**Scope of Work:**

This is a **retrofit** kind of job. The existing tailor made chilled water cooling coils are installed within the working air handling units with associated electro-mechanical works are located within the working laboratories/offices and in a limited space. The new chilled water cooling coil will not be a standard product of any company, but have to be **tailor** made to suit/fit (& similar to existing) in the available AHUs space. The following works with materials should also be including alongwith the replacement of cooling coil of AHUs: -

- Complete welding, cutting, grinding works etc as per site requirement.
- Suitable vibration isolation pads will be provided by the contractor and arranged in such a way that no vibration is transmitted to the floor/any structure (after replacement of cooling coil & re-installation of AHUs).
- All dismantling & removing work i.e false ceiling, ducting, doors, panels, cable, BMS control wiring, AHU, chilled water line/valve with other accessories etc should be done as required for the proper installation of new cooling coil with other accessories.
- Re-installation of dismantled items i.e AHUs, grills, Connection cable, pipe lines, valves, strainers, VRV, flanges etc.
- P&F of suitable size (similar to existing) of insulation on re-installed items i.e pipe lines, valves, strainers, VRV, flanges etc
- P & F of canvas connection as per site requirements.
- Replacement of drain pan with SS drain pan i/c sealing with sealing compounds etc.
- The drain pan shall be fabricated from 16 gauge stainless steel sheet with all corner welded.
- **No complete shutdown of the laboratories/electricity/chilled water line shall be permitted in any case.**
- As a part of the work under this contract, the contractor shall restore the territory embraced within the site of his operations to at least as good order and condition as at the beginning of the work under this contract.
- The work should be carried out in such a way that laboratory works may not hamper/suffer.
- P&F of suitable size of GI sheet at all side of coil (to avoid by-passing of air).

**Technical Specifications**

Chilled water Cooling Coil	: 4 Row deep cooling coil
Size of Coil	: app. size 1016mm x 540mm, 4Row deep
Thickness of copper tube	: 0.4mm thick
Dia. Of copper tube	: ½" dia. (Hair Pin Bend Copper Tubes) copper tube
Fins	: aluminium Fins, 37gauge
Number of Fins	: 11-13 fins per inch,
Header	: MS coil header,
Casing	: Galvanized coil casing,
Drain Pan	: 16 gauge stainless steel sheet
Ceiling compound	: Silicon
Pressure testing	: 300 PSI.

## मूल्य बोली /Price Bid (Part-II)

### Schedule of Work

**कार्य का नाम /Name of work: Replacement of cooling coil of AHUs in different laboratories/Office at NII, New Delhi.**

S.No	Description of Items	Qty.	Unit	Rate	Amount
1	Supply, installation, testing and commissioning of 4 Row deep cooling coil made of 0.4mm thick & ½” dia. (Hair Pin Bend Copper Tubes) copper tube, aluminium Fins, 37gauge & 11-13 fins per inch, MS coil header, Galvanized coil casing, suitable size of SS drain pan, ceiling compound etc complete in all respect including providing of canvas connection, insulation, cutting-welding works etc & similar to existing (app. size 1016mm x 540mm, 4Row deep) including leak testing and pressure testing at 300 PSI. I/C removal of damaged cooling coil from AHU, cutting-welding, insulation, canvas connections etc. and complete as per site requirement. Makes: - BAE, Blue star, voltas, vke, colmac, HC coils, VTS	4	Job		
2	<b>Less buy back of old coil</b>	4	Nos		
<b>Total amount (S.No. 1 to 2)</b>					
<b>Less discount, if any</b>					
Total Net amount [after discount (in figure & word)]					

*(Rates quoted shall be inclusive of all cartage etc. as mentioned under Item - 5 of General T. & C. of tender document.*

*However, GST shall be extra as applicable.*

**Signature of company representative:**

**Seal of company/agency:**

(कार्यपालक अभियंता)