



**NATIONAL CENTRE FOR DISEASE INFORMATICS AND RESEARCH
(Indian Council of Medical Research)**

Department of Health Research, Ministry of Health and Family Welfare, Government of India
Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, N.H-7, B. B. Road, Kannamangala Post,
Bengaluru-562 110 (India)

**TENDER FOR PROVIDING OF
VOICE, DATA AND UPS CONNECTIVITY FOR NIRMAL BHAWAN, ICMR COMPLEX,
BENGALURU**

Email: adm.ncdir@gov.in
Website: www.ncdirindia.org

Tender Inquiry No: NCDIR/ICMR/311/2019

Date: 20.12.2019

Name of the Bidder:

Cost of Tender Document – ` 500/-

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NATIONAL CENTRE FOR DISEASE INFORMATICS AND RESEARCH

Indian Council of Medical Research, Bengaluru

NOTICE INVITING TENDER

NCDIR, Bengaluru invites sealed tenders under two bid system for Providing of Voice, Data and UPS connectivity for National Centre for Disease Informatics and Research (ICMR), Bengaluru.

SCHEDULE		
Sl. No.	Activity Description	Schedule
1.	Tender Enquiry	File No. NCDIR/ICMR/311/2019
2.	Sale of tender Document	Tender can be collected from NCDIR, Bengaluru office or downloaded from our website www.ncdirindia.org , https://eprocure.gov.in From 20.12.2019 09:00 AM to 13.01.2020 09:00 PM
3.	Time and date of Pre-bid Meeting	27.12.2019 at 2:30 PM
4.	Time and last date of depositing Tender/Bid	14-01-2020
5.	Time and date of Opening of Technical Bid	16-01-2020
6.	Time and Date of opening of Financial Bid	The Financial bid will be opened after evaluation of technical bid, which will be announced later.
7.	Minimum Validity of tender Offer	One year from the date of Opening of tender
8.	Services to be offered	Providing of Voice, Data and UPS connectivity for NCDIR, Bengaluru
9.	Estimated Cost of Tender	Rs.45,00,000/-
10.	Amount of EMD to be Deposited	Rs.1,12,500/-
11.	Cost of Tender Document	Rs.500/-

Important Notes:

1. NCDIR reserves the right to accept / reject any/all tenders in part/full without assigning any reason thereof.
2. Any Addendum/Corrigendum date extension in respect of above tender shall be displayed on our website www.ncdirindia.org only and no separate notification shall be issued in the press. Bidders are therefore requested to regularly visit our website to keep them updated.

**DIRECTOR
NCDIR (ICMR) BENGALURU**

1. INTRODUCTION:

NCDIR invites bids from eligible bidders for providing of Voice, Data, and UPS Connectivity work for Nirmal Bhawan ICMR Complex Poojanahalli, Off N.H. -7 Adjacent to Trumpet Flyover of BIAL, Kannamangala Post, Bengaluru for enhancing organization communication infrastructure.

2. SCOPE OF WORK:

To provide Voice, Data and UPS connectivity to the Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, N.H-7, B. B. Road, Kannamangala Post, Bengaluru-562 110 (India).

Work involved:-

1. Drawing and laying of optical fibers from NCDIR server room to all the identified places.
2. Drawing of data, voice and electrical points to all the workstations (cubicles) from the Identified places.
3. Drawing of additional UPS line from main line to NCDIR ground floor rooms.
4. Necessary civil work will be taken up.
5. Configuring data switches, Wi-Fi route, data racks, etc.

3. ELIGIBILITY CRITERIA:

The bidder should fulfil the following eligibility criteria. They are required to submit copies of documents to substantiate their qualifying criteria

Eligibility Criteria – I:-

The bidders should physically visit the site to understand the site working conditions, nature of jobs prior to submission of tender and submit duly filled and signed Site Inspection certificate only then the bidders will be eligible.

The bidder must be a single entity. Consortiums will not be allowed to participate in the procurement process.

A. Qualifying Specification for Wired:

1. The OEM should feature as a leader / challenger in Gartner's Magic quadrant of latest year.
2. The Manufacturer Authorization Format (MAF) from the OEM.
3. The OEM and Partner should each have executed at least 3 projects of similar scale and value in India, using a architecture and technologies similar to that being proposed in their quotation against this tender. Purchase order copies with certificate of satisfactory completion from the IT manager (of the same institution as purchase order provided) must be submitted with the technical bid. The OEM and partner should have executed projects of similar technology, scale and value at premier Indian Academic / Research institutions of equivalent stature.
4. All warranty and support must be serviced directly by the OEM. NCDIR requires that there be a Single Point of Contact (SPOC) from OEM who is responsible for all issues between

NCDIR and the OEM. The OEM must have a support centre in India preferably in Bengaluru. Please furnish complete support matrix including escalation matrix.

5. All quotations submitted must follow the prescribed format for technical compliance as in document below. Failure to do so will result in the quotation being summarily rejected.
6. All equipment will be housed in non-air conditioned environment. Provision for natural ingress of cool air and natural venting of hot air has been made at all such locations. The equipment proposed should be able to function in such an environment 0-45 degree C.
7. The components quoted must have all encompassing warranty of minimum 1 year duration which includes hardware and accessories, software updates and on call support.
8. Letter from OEM stating that the product offered should not have end-of-life (for sales) for at least three years from date of submission of quotation.
9. The core and edge Ethernet switching equipment must run identical operating systems.

B. Qualifying Specification for Electrical:

1. The bidder must have adequate past experience of working in any one or more of the following areas.
 - a. Electrical wiring
 - b. Cable laying termination & earthing.
2. Materials shall be of approved quality and the best of their kind available and shall generally conform to Indian Standard (I.S) Specifications.
3. The Contractor shall order all the materials required for the execution of work in such a way that the materials are on site well ahead of requirement for use in the work.
4. In the absence of specifications for any work or materials, relevant Indian Standard Specifications shall be applicable.
5. It shall be the responsibility of the Contractor to comply with the regulations laid down by the Indian Electricity Rules and local authorities.
6. The Contractor shall be responsible for testing and commissioning the entire electrical installation described in these specifications and relevant IS specifications and will demonstrate the operation of the systems to the entire satisfaction of the Architect and to the Client approval.
7. At the close of work and before issue of final certificate of virtual completion by Owner / Architect, the contractor shall furnish a written guarantee indemnifying the owner against defective materials and workmanship for a period of ONE YEAR after commissioning. The contractor shall hold himself fully responsible for reinstallation or replacement of defective material free of cost to the owner.

Eligibility Criteria –II:

1. The bidder should have successfully executed minimum three works of similar type, costing more than Rs.40 Lakhs in Govt. /PSU, etc., (Proof of the same should be submitted along with completion certificate).
2. Bidders must have service tax registrations and PAN in the name of the bidding company.
3. Bidder should have its own POP (Point of Presence) in Bengaluru. Details about POP (contact No & address) should be provided for technical evaluation purpose.
4. Bidder must have valid licenses for related trades as applicable, PAN, GST and income Tax clearance certificate etc. registration with respective registering authorities.
5. The bidder must have an office in Bangalore.
6. The bidder should not have been blacklisted/debarred from participating in tendering by the Central Government/State Government/other Govt. bodies or under a declaration of ineligibility for corrupt or fraudulent practices.
7. All related documentary proof of meeting eligibility criteria must be submitted with the Technical Bid.
8. The contractor should be an income tax assessee and should have filed income tax return for the last three years (Proof of the same should be submitted).

5. Instructions to Bidders:

The tender shall be submitted in accordance with these instructions and any tender not confirming the instructions as under is liable to be rejected. These instructions shall form the part of the tender and contract.

1. Submission of Bids:

Only physical bids received by NCDIR, Bengaluru office will be considered for opening. Bids sent through fax or email will not be considered.

The tender should be submitted in a sealed cover in two parts as under:

- a) **Technical Bid:** Envelope should be super-scribed as "Technical bid for Purchase of Voice, Data, and UPS Connectivity Tender Fee, Earnest Money Deposit (EMD).
- b) **Financial Bid:** The second envelope should be super-scribed as "Financial bid Purchase of Voice, Data, and UPS Connectivity" and it should contain the rates etc. in the prescribed format only.
- c) Both the above sealed covers are to be put in one bigger envelope which also should be sealed and duly super scribed.

1. The bidders must visit/inspect the site on any working day between 10:00 AM and 04:00 PM by prior appointment with the NCDIR, Bengaluru to assess the accessibility and the scope of works before submitting their offer. No claims later on in regard to the site and its surroundings 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 men/materials), storage for material and facilities to the workmen for executing the work.
2. An Earnest Money Deposit (EMD): EMD of Rs. **1,12,500-** (Rupees One lakh twelve thousand five hundred Only) has to be enclosed along with the tender. The EMD shall be only in the

form of Demand Draft / pay order drawn in favor of “The Director, NCDIR”, payable at Bengaluru, along with the tender, failing which the bid will summarily be rejected. **No Cheque / Cash shall be accepted as EMD.**

3. Earnest Money Deposited by the successful bidder shall be converted into security deposit. Same will be released after completion of work.
4. The rates mentioned in the financial bid shall be inclusive of all GST, Packing etc. 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. and any other taxes as applicable. Any variation in the above said taxes till the completion of the work will also be in the bidders account.
5. The Director, NCDIR, Bengaluru does not bind himself to accept the lowest or any tender and reserves the right to accept or reject any or all the tenders whether in whole or in part without assigning any reason for doing so. The owner reserves his rights to negotiate with the lowest or any other tender/s.
6. Each of the tender documents is required to be signed by the person or persons submitting the tender in token of his/ their having acquired himself/ themselves with the general conditions, articles of agreement, mode of measurements, schedule of probable quantities, site conditions and the time schedule etc. as laid down. Any tender with any of the documents not signed will be liable to be rejected.
7. 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.
8. All erasures and alterations made while filling the tender must be attested with initials of the tenderer. Overwriting of figures is not permitted. Failure to comply with either of these conditions will render the tender invalid.
9. The rates quoted by the contractor should include all charges for scaffolding materials labour, hire or any tools, marking out and clearing of the site as mentioned in the specifications.
10. The rate shall be binding to the Contractor, for all the tender items till the completion of defect liability period irrespective of variation in market rates of material and labour.
11. The Director, Bengaluru 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 within 7 days from date of issue of Letter of Intent (L.O.I). The contract can also be terminated at the request of contractor within 7 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 security deposit/EMD.
12. The agency shall carry out regular visit/inspection/maintenance (if required, with prior approval of NCDIR) of entire system and attend un-limited calls/breakdown calls during the contract period & then after up to defect liability period. The contractor will attend to all defects noticed during defects liability period. If the contractor fails to attend the defects these defects will be rectified by the NCDIR, Bengaluru and the expenditure incurred on this account will be recovered from the security deposit.

13. 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 NCDIR's Engineer, the NCDIR's Engineer, without prejudice to any other right or remedy against the bidder which have either accrued or accrue thereafter, 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.
14. Proof of the above sales turn-over details should be furnished in the form of **Audited Annual Accounts of the bidder.**
15. 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 Bank under any circumstances.
16. The bidder shall be solely responsible for any accident/medical/health related liability/compensation for the personnel deployed by it at NCDIR. The NCDIR shall have no liability in this regard. The personnel employed by the bidder will not claim any right to become the employees of NCDIR and there will be no Employee and Employer relationship between the personnel engaged by the bidder and NCDIR.
17. Successful Bidder shall produce all the invoices for the incorporated material in the work. The final bill shall be enclosed with all the photocopies of invoices.
18. The contractor will take necessary precautions for carrying out the work avoiding any damage to structure/decorative parts of the property. The contractor will rectify any damages done at his cost.
19. The rates quoted by bidders should be realistic and workable for each and every item. 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 NCDIR shall be final in this regard.
20. 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. Bidder shall be responsible for disposing of the 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.
21. The NCDIR may delay the progress of work without in any way vitiating the contract and grant extension of time for the commencement/completion of contract as it may think proper and sufficient in consequence of such delay and the contractor shall not make claim, compensation or damages in relation thereof.
22. Duly sealed tenders shall be dropped in the tender box at NCDIR (Indian Council of Medical Research) Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, N.H-7, B. B. Road, Kannamangala Post, Bengaluru-562 110 (India).

23. I/ We hereby declare that I/We have accept/read and understood the above instructions for the guidance of the tenderer
24. Tender **MUST** be duly signed and stamped **on each page as a token of acceptance of all terms and conditions /clauses** of the tender enquiry.
25. Both the above sealed covers are to be put in one bigger envelope which also should be sealed and duly super scribed.
26. Both the above parts should be submitted in Tender method clearly mentioned as "Tender for providing of Voice, Data and UPS connectivity to National Centre for Disease Informatics and Research, Bengaluru-562110". The bidder should give their name & address.
27. Any proposal received by NCDIR after the date and time specified in the tender shall be rejected.
28. NCDIR shall not be responsible for any postal delay or non-receipt/non-delivery of the documents. No further correspondence on the subject will be entertained.
29. Any default by the bidder in respect of the tender terms & conditions will lead to rejection of the bid.
30. NCDIR reserves the right to reject any or all proposals without assigning any reasons thereof.
31. The bids shall be opened in the presence of the bidders or their authorized representatives on the appropriate date. The bidder's representatives who are present shall sign an attendance sheet. Letter of authorization shall be submitted by the bidders before they are allowed to participate in bid.
32. A pre bid meeting will be held on **27.12.2019**
33. The bids submitted shall remain valid for a period of one year from the date of opening the technical bid.
34. If the date fixed for opening of bids is declared a holiday by the authority, the revised date of opening will be the next working day / revised date will be fixed.
35. The Committee constituted by the Director NCDIR shall have the right to verify the particular furnished by the bidder independently. Those technically qualified bids will only be considered for price evaluation (Financial bid). Price should not be quoted with technical bid; otherwise the tender will be rejected without any correspondence. Decision of the Director, NCDIR Bengaluru on the eligibility for qualifying technical bids shall be final and no representation shall be considered in this regard.
36. All the communication with respect to the tender shall be addressed

The Director,
National Centre for Disease Informatics and Research (ICMR)
Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli
Off N.H. -7, Adjacent to Trumpet Flyover of BIAL
Kannamangala Post, Bengaluru – 562 110

5. TECHNICAL BID:

1. Technical Bid must contain the following,
 - a. Copy of Certificate of incorporation / Certificate of Registration of the bidder.
 - b. **Technical Bid (Annexure- I)**: Duly filled in and signed on the letter head of the company.
 - c. **Proof of Experience (Annexure – III (a))**: Relevant Experience of the bidder in Govt. /PSU organizations. (Documentary proofs like work order/contract agreement/invoices etc are required for ascertaining bidder's work experience).
 - d. **Satisfactory Performance Certificate (Annexure – III (b))**: Copy of satisfactory Performance certificate towards executing at least three similar contracts of same nature and value.
 - e. **Vendor/Contractor/Supplier Details (Annexure – IV)**: The Bidders shall submit the copy of details mentioned in Annexure - IV.
2. **Undertaking from Bidders (Annexure – V)**
3. **Tender Fee & Earned Money Deposit Payment Particulars (Annexure – VI)**

(i) Tender Fee of Rs.500/-

The cost of tender document is **Rs.500/- (Rupees five hundred only) (Non - refundable)**. The tender document can be obtained by paying the fees through Demand Draft / Bankers Cheque drawn in favour of “The Director, NCDIR payable at Bengaluru”. The cost of tender document shall be attached with Technical Bid in case the tender document is downloaded from the website. The Tender Document is not transferable to any other bidder.

(ii) Earnest Money Deposit (EMD) of Rs.1,12,500/-

- i. The units registered with Central Purchase Organization (DGS&D), National Small Industries Corporation (NSIC), Micro and Small Enterprises (MSEs) as defines in MSE Procurement policy issued by Dept. of Micro, Small and Medium Enterprises or the concerned Ministry or Department shall be exempted from the payment of Earnest Money as defined under Rule 170 of General Financial Rules (GFR), 2017. In such case, copy of the certificate showing registration with the above mentioned institutions to be enclosed along with the bid.
 - ii. In case the unit is not covered as above, it shall submit the offer along with the Earnest Money Deposit (EMD) for Rs.1,12,500/-
4. An Earnest Money **Deposit of Rs.1,12,500/- (Rupees on lakh twelve thousand five hundred only)** in the form of demand draft drawn in favour of Director, NCDIR Bengaluru may be submitted, failing which their bids will not be considered valid. The amount will be refunded to unsuccessful bidder without any interest after completion of the tender process. The EMD should remain valid for a period of 45 days beyond the final tender validity period.

Note: The EMD will be forfeited in following cases:

- a) If the bidder fails to accept the order based on his/her offer (bid) and within the prescribed time.
 - b) If the bidder fails to supply the material with technical specifications in compliance with the specification as mentioned in Annexure -I.
 - c) If the bidder delays supply beyond a reasonable time resulting in disruption of NCDIR works.
5. **Non-Blacklisting Declaration (Annexure – VIII):** A self-certified letter by the authorized signatory of the bidder stating that the bidder is not blacklisted or debarred from tendering by the Central Government/State Government/Other Government bodies or under a declaration of ineligibility for corrupt or fraudulent practices as on the last date for submission of the bid.
6. **Turn over Details (Annexure – IX):** A copy of the bidder's audited profit and loss account/balance sheet/annual report for at least last three financial years.
7. A copy of the tender document duly signed on each page by the authorized signatory for endorsing the compliance to all clauses of tender by the bidder.
8. All other relevant document required as evidence of meeting technical evaluation criteria and their proposal criteria.

6. **FINANCIAL BID:**

The bidder must give Financial Bid as per the price bid format given in **Financial Bid (Annexure-II)**. The bidders are also mandatorily required to give details for arriving at each of the figure. The details of taxes wherever applicable also be mentioned.

7. **EVALUATION PROCEDURE:**

The evaluation of technical bids shall be undertaken by committee of the officers duly constituted for this purpose. The Technical evaluation would be based on the following:

- (i) The assessment of bidders meeting the eligibility criteria.
- (ii) The assessment of technical capability of bidder to carry out desired scope of work.
- (iii) The assessment of the capability of bidder to carry out desired scope of work in stipulated time as assessed on the basis of carrying out past works in preceding three years.
- (iv) The Financial/ Price Bids of only those bidders will be opened whose bids have been technically found suitable.
- (v) On the basis of technical evaluation the eligible entities shall be identified and their financial bids shall be opened. The lowest bidder giving cost-effective solution will be awarded the work subject to meeting all terms & conditions and criteria.

(vi) Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

8. PERIOD OF CONTRACT:

Under normal circumstances the contract shall be valid for a period of one-year from date of issue of purchase work order. However, contract may be extended for further period up to one years on the same rates, terms and conditions if the service is found satisfactory. However, the payment will be made as per actual and as defined under the Para 9 (Payment Terms).

9. PAYMENT TERMS:

- (i) Bidders should strictly quote the prices as per **Financial Bid (Annexure-II)**.
- (ii) Payment will be made on basis on submission of invoice with requisite details of payments being claimed.
- (iii) No advance payment will be made.
- (iv) The payment will be made through NEFT by NCDIR to the bank account as mentioned in the bank mandate. The bidder shall submit the documents which shall clearly indicate that the providing of Voice, Data, and UPS Connectivity document shall be duly acknowledged by the Administration of NCDIR.

10. DELIVERY PERIOD:

Successful bidder will be required to deliver the services as per scope of work within one month from the date of signing the contract agreement.

11. THE EMD MAY BE FORFEITED:

If a Bidder withdraws his bid or increases his quoted prices during the period of bid validity or its extended period, if any:

Or

If the successful bidder fails to submit the performances guarantee or sign the contract within specified time.

12. PENALTY CLAUSE:

- (a) In case of default in performance on the part of the Agency, NCDIR shall decide the penalty to be imposed for such default considering the quantum and other related factors which shall be deducted from the payments that may become due to the Agency.
- (b) In case the agency fails to carry out the contract to its logical conclusion, delays its performance or poor performance to the extent making the whole exercise futile, the NCDIR shall be at liberty to forfeit the Bank Guarantee and get the amount credited to NCDIR's accounts.

- (c) In case of any breach of terms of the contract agreement, the Agency shall be liable to penalty/legal action as the circumstances warrant as assessed by NCDIR. However, any breakdown in service beyond one hour will be penalized as follows;

13. PRICE APPLICABILITY:

The price shall be firm and shall include all applicable taxes and charges. Any variation in the duties, levies etc. during the period of services shall be charged to the bidder account. The rates quoted shall be all inclusive, with the delivery, up to destination i.e. NCDIR, Bengaluru.

14. INSPECTION AND TESTS

- (a) The Purchaser or its representatives or ultimate client shall have the right to inspect and test the goods for their conformity to the specifications. The Purchaser may also appoint an agency for this purpose. The technical specifications shall specify what inspection and tests the Purchaser requires and where they are to be conducted, Where the Purchaser decides to conduct such tests on the premises of the Contractor, all reasonable facilities and assistance like testing instruments and other test gadgets including access to the drawings and production data shall be furnished to the Inspector free of cost. In case the tested goods fail to conform to the specifications, the Inspector may reject them and the Contractor shall either replace the rejected goods or make alteration necessary to meet the specifications requirements free of cost to the Purchaser.
- (b) Notwithstanding the pre-supply tests and inspections, the material on receipt in the Purchaser's premises shall also be tested and if any material or part thereof is found defective, the same shall be replaced free of cost to the Purchaser. If any material before it is taken over is found defective or fails to fulfil the requirements of the contract, the Inspector shall give the Contractor notice setting forth details of such defects or failures and the Contractor shall make the material good or alter the same to make it comply with the requirements of the contract and in any case within a period not exceeding 1 month of the initial report. These replacements shall be made by the Contractor, free of the all charges, at the site(s).

15. ARBITRATION

- (a) In the event of any dispute arising between Purchaser and the Contractor in any matter covered by this contract or arising directly or indirectly there from or connected or concerned with the said contract in any manner of the implementation of any terms and conditions of the said contract, the matter shall be referred to 'The Director, National Centre for Disease Informatics and Research (ICMR), Nirmal Bhawan-ICMR Complex (II Floor), Poojanahalli, Off N.H. -7, Adjacent to Trumpet Flyover of BIAL, Kannamangala Post, Bengaluru -562 110 (India), who may himself act as sole arbitrator or may name as sole arbitrator an officer of NCDIR notwithstanding the fact that such officer has been directly or indirectly associated with this contract and the provisions of the Indian Arbitration Conciliation Act, 1996 shall apply to such arbitration. The contractor expressly agrees that the arbitration proceedings shall be held in Bangalore.

- (b) The proceedings of arbitration shall be in English language:
- (c) In case any contractor wants to take the dispute to a court of law after arbitration award as aforesaid, it is clearly understood that only courts in Bangalore shall have the Jurisdiction.

16. RISK PURCHASE

In the event of Contractor's failure to execute the contract to the satisfaction of the purchaser, the purchaser reserves the right:

- (a) To reject any part of the Contract executed and withhold payment for such portion of the Contract till such time the defects are rectified to the satisfaction of the purchaser.
- (b) To terminate the Contract by giving 2 weeks' notice in writing without assigning any reason and to get the Contract executed by other agency at the risk and cost of the Contractor.

17. APPLICABLE LAWS

This contract shall be interpreted, construed and governed by the laws of the Republic of India and the parties hereby submit to the exclusive jurisdiction of the Court at Bangalore and to all Courts at Bangalore having jurisdiction in appeal there from. Any dispute in relation to the contract shall be submitted to the appropriate Court of the Republic of India for determination. The parties to the contract shall continue to fulfil their respective obligations under the contract during the currency of the contract pending the final decision of the Court.

18. TERMINATION FOR DEFAULT

- (a) The Purchaser, may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the Contractor, terminate this contract in whole or in part.
 - 1) If the Contractor fails to perform any other obligation(s) under the contract;
 - 2) If the Contractor, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
 - 3) If the Contractor, in either of the above circumstances, does not remedy his failure within a period of 12 hours/month (or such longer period as the Purchaser may authorize in writing) after receipt of the default notice from the Purchaser.
 - 4) On a notice period of 60 days.

For the purpose of this Clause:

- 1) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract
- 2) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition".

- (b) In the event the Purchaser terminates the contract in whole or in part pursuant to above paragraph the Purchaser may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the Contractor shall be liable to the Purchaser for any excess cost for such similar goods. However, the Contractor shall continue the performance of the contract to the extent not terminated.

26. PERFORMANCE SECURITY

- a) The successful bidder shall deposit an amount equal to 10% of the approved tender cost within 2 weeks of conveying NCDIR's intention for accepting the bid as Performance Security.
- b) Performance Security shall be submitted in the form of Bank Guarantee issued by a scheduled Bank and the Preformat provided in Performance Security Bond Form (**Annexure VII**) of the bid document or DD/Banker's cheque drawn in favour of Director, NCDIR, and Bengaluru.
- c) Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligation including warranty.
- d) Performance Security will be discharged after completion of contractor's performance obligations under the contract.

27. TERMINATION FOR INSOLVENCY

The Purchaser may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the contractor if the contractor becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

28. ADD ON/REPEAT ORDER

NCDIR, reserves the right to place Add on/Repeat order for additional quantity to 100% of the original quantity at the same rate and terms & conditions of the purchase order within six months from the date of issue of purchase order.

ANNEXURE – I TECHNICAL BID
(To be submitted On Company Letter Head)

To,
Director,
National Centre for Disease Informatics and Research (NCDIR),
Bengaluru 562110

Subject: Submission of proposal in response to the Tender to providing of Voice, Data, and UPS connectivity to the National Centre for Disease Informatics and Research, Bengaluru-

Dear Sir,

1. Having examined the tender document, we the undersigned, herewith submit our proposal in response to your tender Notification for providing of Voice, Data and UPS connectivity to NCDIR, Bengaluru in full conformity with the said tender document. Our contact persons are:

Name:

Title:

Company Name & Address:

Phone/ Mobile/ Fax/ Email:

2. We have read the provision of the tender document and confirm that these are acceptable to us. We further declare that additional conditions, variations, deviations, if any, found in our proposal shall not be given effect to.

3. We agree to abide by this proposal, consisting of this letter, the detailed response to the tender and all attachments, for a period of one year from the date of opening of the technical bids as stipulated in the tender document.

4. We would like to declare that we are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment and we are not under a declaration of ineligibility for corrupt or fraudulent practices.

Date:

(Signature)

Duly authorised to sign the Bid Response for and on behalf of:

Technical Specification Annexure A

Sl. No	Active Components Technical specifications for Wired Ethernet switching equipment	Qty.
1.	<p>Each core switch with the following functionality:</p> <ul style="list-style-type: none"> • Should be modular 16 ports (minimum) of 10G SFP+ 1U switch capable of core Ethernet switching function on the NCDIR center LAN and 15 ports populated with 10G SFP+ LC LR module (Single Mode). • Should support both IPv4 & Ipv6, static and dynamic routing protocols (RIPng, OSPFv3, VRRP) from Day 1. • The Switch should provide wire speed performance with non-blocking distributed forwarding architecture from day 1 • The Switch should support capability to combine the two switches offered into a single logical virtual switching system for active-active data forwarding. Suitable hardware and software to configure this feature should be offered as a part of the package. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should be preferably equal or more than aggregated switching bandwidth. • Should have Redundant, hot swappable power supply and fans. Failure of one power supply should not cause failure or performance degradation. • Should support SDN compatibility • Should support IP Unicast routing protocols and be upgradable to BGP • Should support multicast routing protocols • Should be maintainable using SSH2 with encryption and authentication • The Switch should support minimum 50K MAC addresses and minimum 1024 VLANs • Should support minimum of minimum 50K IPv4 routes. • Should support jumbo frames. • A full set of associated cables and accessories as required to complete the solution must be provided with the switch 	1 no



2.	<p>Distribution switch with the following specifications (48 port without PoE):</p> <ul style="list-style-type: none"> • Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U • Switch should have 48 nos of 10/100/1000 RJ45 ports • The switch should support minimum of 2 nos of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) • The switch should be capable of operating as a stack of upto 8 switches, the entire stack should provide wirespeed performance. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should preferably be equal or more than aggregated switching bandwidth. • The Switch should support minimum 30K MAC addresses and minimum 1024 VLANs • Should support minimum of minimum 10K IPv4 routes and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc • The switch should support SDN compatibility • Associated stacking cables, power cables with 3 PIN socket and accessories as required to complete the solution • Redundant power supply 	1 no
3.	<p>Distribution switch with the following specifications (24 port PoE/PoE+):</p> <ul style="list-style-type: none"> • Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U • Switch should have 24 nos of 10/100/1000 RJ45 ports • Switch should be compliant with IEEE 802.3at • The switch should support minimum of 2 nos of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) • The Switch should support minimum 30K MAC addresses and minimum 1024 VLANs • Should support minimum of 10K IPv4 routes and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc., • The switch should support SDN compatibility • Associated cables, power cables with 3 PIN socket and accessories as required to complete the solution • Redundant power supply 	1 no

Sl.no	Passive Components	Qty.
1	48 port LIU Cassette type (preferred) populated	1
2	12 port LIU Cassette type (preferred) populated	4
3	6 port LIU Cassette type (preferred) populated	3
4	18 port LIU Cassette type (preferred) populated	1
5	48 port patch panel fully loaded- RJ 45	1
6	24 port patch panel fully loaded- RJ 45	5
7	24 port patch panel fully loaded- RJ 11	8
8	30 pair Armoured telephone cable	Approx. 100m
9	10 pair Armoured telephone cable	Approx. 600m
10	6 U racks wall mounted with fans and spike buster	4
11	12 U racks wall mounted with fans and spike buster	2
12	RJ-45 I/O points	Approx. 90nos
13	RJ-11 I/O points	Approx. 90nos
14	Cat 6 Cables	Approx. 8000m
15	10G fibre single mode to all identified locations (refer work plan diagram No.1 & 2)	Approx. 8000m
16	Fibre patch cords 3mts (SC-LC) Single Mode	Approx. 70nos
17	Pigtails (SC-SC) Single Mode	Approx. 10nos
18	Dual port Face Plates along with back boxes	Approx. 90nos
19	PVC Casing 2 inch	Approx. 500m
20	PVC Casing 1 inch	Approx. 500m
21	Metal Flexible, PVC Flexible	Approx. 20m

Electrical Components

Sl. No	Electrical components	Quantity
1	<p>Electrical wiring for ground floor (room no.3 & 4)</p> <ul style="list-style-type: none"> • Phase-1, Two Nos of 15 kVA UPS will be installed and configured in N+1 redundancy and will be in client scope. • Phase-2, 1 no of additional 15kVA UPS will be installed with the existing 2 nos of 15kVA UPS and will be configured with N+1 redundancy and will be in client scope <p>The Scope description for the Vendor/Bidder is as follows,</p> <ul style="list-style-type: none"> • Supply and Installation of Main incoming breaker from the Building LT panel. • Supply and Laying of cable from main incoming panel to UPS. • Supply and installation of Common Bus Bar system for 3Nos 15kVA UPS. • Supply and Laying of cable from UPS output breaker to distribution Boards. • Supply and installation of UPS power distribution boards with required breakers. • Supply and laying of cables from UPS distribution boards to the Workstations/Endpoints. <p>Note: All Necessary conduits and termination materials are to be considered as a part of Vendor/Bidder Scope.</p>	<p align="center">Bidder has to visit before Quoting as per the site condition</p>
2	<p>Civil Floor Chipping and closure using vitrified flooring</p>	<p align="center">Bidder has to visit before quote as per the site condition</p>

Mandatory Note:

Bidder has to visit the site and to estimate the Network/Voice cabling, electrical, and civil, etc., items. NCDIR will decide the exact quantity of the items during financial qualification.

Optional items: Access Point, Controller, Distribution Switch, NMS Package and UPS.

Note: For bid to qualify all the below optional items must be quoted, detailed BOM (should include accessories as well) along with the part number should be provided in the technical bid and financial bid.

1.	<p>Wireless networking with access controller</p> <p>The proposed WLAN solution must support a distributed forwarding/local breakout architecture in which only control traffic is tunneled to the centralized controller; all client data traffic is forwarded directly towards destination via the clients default gateway.</p> <ul style="list-style-type: none"> ○ On a per WLAN (SSID) basis there must be an option to tunnel traffic to the controller either un-encrypted or encrypted format. ○ Controller unit should be scalable up to minimum 50 Access Points (connected via cabled LAN). Seamless roaming facility for connected clients when they move from one Access Points to another should be available ○ Fully redundant configuration of Controller with Active- Active functioning wherein both controllers are able to service Access points simultaneously and also share license pool (if applicable). ○ Fully redundant configuration of Controller with Active- Active functioning wherein both controllers are able to service Access points simultaneously and also share license pool (if applicable). ○ Controller should provide air-time fairness between clients connected at different speeds – slower clients should not be starved by the faster clients and faster clients should not adversely affected by slower clients. ○ In event the controller fails the managed Access Points should continue to provide service to connected clients for a considerable period of time. ○ Controller should support following for security & Authentication: - WIRELESS ○ SECURITY:WEP,WPA-TKIP,WPA2-AES, 802.11i, AUTHENTICATION: 802.1X, local database, External AAA servers: Active Directory, RADIUS, ○ LDAPv3, TACACS ○ POE injectors are required in locations where the POE switches are not available. ○ Controller to support Bring Your Own Device (BYOD) features such as Simple onboarding, complete device visibility; control of device types and ACLs based on device types; Vendor to specify if any of these features requires additional purchase ○ (Licensing) of any other hardware/software. ○ Support for IPv4 & IPv6 support from Day 1. 	1 No
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	<ul style="list-style-type: none"> ○ The System should support seamless direct integration with industry standard directory services like LDAP v3 and Microsoft Active Directory without any use of additional Hardware/software. ○ The controller should be able to present a customizable dashboard with information on the status of the WLAN network. ○ In order to have good visibility on the utilization of an AP, the controller should be able to provide the following statistics for each AP: - List of all the SSIDs deployed on each of the radio of the AP, Data sent/received, Statistics on transmitted packets ○ System must support a mechanism where 5 Ghz clients are encouraged to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios. ○ Controller to support Guest Access feature, i.e., secure time-bound internet access to visitors/guests through a randomly generated access key with validation by a employee of the institution. Key communication to visitor to be either through a print-out or email. ○ System should be able to send Guest access password directly through Email to the user ○ Bidder to provide complete specifications of any external components required for this functionality. ○ Controller should be able to handle a minimum of 1000 concurrent users. ○ Virtual controller with failover and necessary hardware, software has to be provided by the vendor. ○ 2 x 10GSFP+ with patch cord to connect to core switch ○ Sufficient number of licenses for the controller based on the heat map provided + 20% extra licence. ○ Machine to be minimum with RAID 1. 	
2	<p>Access Point</p> <ul style="list-style-type: none"> ○ This Access Point should have minimum capability of 802.11 b/g/n/ac with 1 POE (or POE+) Port 100/1000Mb; additional redundant Ethernet port/ports, if any should be indicated and it should have the ability to club both, providing double the bandwidth. AP should have the necessary wall/ceiling mounting apparatus/brackets. ○ Access Points should be able to power up using standard POE or POE+ (as required) input and operate in full MIMO mode without any loss of features/capabilities. It should also have option of being powered through AC-DC power Adaptor. ○ AP should have Dual Radios to support 2.4 GHz & 5 GHz concurrent users. AP must support minimum 4x4:4 MIMO. ○ AP should be able to handle a minimum of 128 concurrent users; Maximum client handling capability to be indicated. ○ Maximum and minimum transmission power for 2.4 GHz and 5 GHz to be indicated. ○ AP should have Receive Sensitivity of -95dBm or better ○ SSID support: 4 BSSIDs minimum per radio; Max number to be indicated. ○ The access point should support 802.1q VLAN tagging ○ Antenna: Integrated/external Omni-directional / directional patterns, with min 3 dBi Gain for 2.4Ghz and 5 GHz both all internal to the AP. 	1 No



	<ul style="list-style-type: none"> ○ Typical Power consumption (in Watts) to be indicated. ○ Should support the operating temp 0° to 45° C and Humidity: 10 to 95% noncondensing. ○ Access points should preferably have integrated tamper- proof mechanisms. Please provide details. 	
3	<p>Distribution switch with the following specifications (24 port without PoE):</p> <ul style="list-style-type: none"> ○ Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U ○ Switch should have 24 no's 10/100/1000 RJ45 ports ○ The switch should support minimum of 2 no's of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) ○ The switch should be capable of operating as a stack of up to 8 switches, the entire stack should provide wire speed performance. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should preferably be equal or more than aggregated switching bandwidth. ○ The Switch should support 30K MAC addresses and minimum 1024 VLANs ○ Should support minimum of 30K IPv4 entries and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc. ○ The switch should support SDN compatibility ○ Associated stacking cables, power cables with 3 PIN socket and accessories as required to complete the solution ○ Redundant power supply 	1 No
4	<p>UPS cum Batteries</p> <ul style="list-style-type: none"> ○ Capacity 1KVA Online UPS with built in SMF batteries ○ Backup 30Mins at full load ○ Input Voltage 200-250 V AC, single phase ○ Output Single phase, 220V ○ Frequency 50 HZ ○ Input frequency 50 ± 5 Hz ○ Output power factor Unity ○ THD >3% ○ Voltage stability 1% at linear load ○ 3% at non-linear load ○ Short Circuit Protection Soft shut down should occur without blowing any fuse ○ Efficiency More than 93% □ Frequency stability ± 1 Hz ○ Indicators Over Temperature – Required ○ Load On Battery – Required ○ Battery On Charge – Required ○ Battery Low – Required ○ Mains – On Required ○ DC – On Required ○ Inverter – On Required ○ Inverter – Tripped ○ Output Over Voltage ○ Output Low <p>Warranty 3 years total system</p>	1 No
5	Wired and wireless equipment quoted by the OEM/partner must be supported for full configuration, management and monitoring by a single NMS package	1No.

ANNEXURE - II FINANCIAL BID
(To be submitted On Company Letter Head)

Reference No.

To,
Director,
National Centre for Disease Informatics and Research (NCDIR),
Bengaluru 562110

Dear Sir

With reference to the tender no. NCDIR/ICMR/311/2019 dated for” providing of Voice, Data, and UPS Connectivity work for Nirmal Bhawan ICMR Complex Poojanahalli, Off N.H. -7, Adjacent to Trumpet Flyover of BIAL, Kannamangala Post, Bengaluru, we have carefully studied its scope of work and deliverables and based on these, we submit our best rates for carrying out the desired scope of work as below:

Sl. No	Active Components Technical specifications for Wired Ethernet switching equipment	Qty.	Amount in Rs. per Qty.	GST in Rs. Per Qty.	Total in Rs. Incl. of GST
1.	<p>Each core switch with the following functionality:</p> <ul style="list-style-type: none"> • Should be modular 16 ports (minimum) of 10G SFP+ 1U switch capable of core Ethernet switching function on the NCDIR center LAN and 15 ports populated with 10G SFP+ LC LR module (Single Mode). • Should support both IPv4 & Ipv6, static and dynamic routing protocols (RIPng, OSPFv3, and VRRP) from Day 1. • The Switch should provide wire speed performance with non-blocking distributed forwarding architecture from day 1 • The Switch should support capability to combine the two switches offered into a single logical virtual switching system for active-active data forwarding. Suitable hardware and software to configure this feature should be offered as a part of the package. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should be preferably equal or more than aggregated switching bandwidth. • Should have Redundant, hot swappable power supply and fans. Failure of one power supply should not cause failure or performance degradation. • Should support SDN compatibility • Should support IP Unicast routing protocols and be upgradable to BGP • Should support multicast routing protocols • Should be maintainable using SSH2 with encryption and authentication • The Switch should support minimum 50K MAC addresses and minimum 1024 VLANs • Should support minimum of minimum 50K IPv4 routes. • Should support jumbo frames. • A full set of associated cables and accessories as required to complete the solution must be provided with the switch 	1 No			



2.	Distribution switch with the following specifications (48 port without PoE):	Qty.	Amount in Rs. per Qty.	GST in Rs. per Qty.	Total in Rs. Incl. of GST
	<ul style="list-style-type: none"> • Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U • Switch should have 48 nos of 10/100/1000 RJ45 ports • The switch should support minimum of 2 nos of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) • The switch should be capable of operating as a stack of upto 8 switches, the entire stack should provide wirespeed performance. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should preferably be equal or more than aggregated switching bandwidth. • The Switch should support minimum 30K MAC addresses and minimum 1024 VLANs • Should support minimum of minimum 10K IPv4 routes and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc • The switch should support SDN compatibility • Associated stacking cables, power cables with 3 PIN socket and accessories as required to complete the solution. • Redundant power supply 				

3.	Distribution switch with the following specifications (24 port PoE/PoE+):	Qty.	Amount in Rs. per Qty.	GST in Rs. prt Qty.	Total in Rs. Incl. of GST
	<ul style="list-style-type: none"> • Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U • Switch should have 24 nos of 10/100/1000 RJ45 ports • Switch should be compliant with IEEE 802.3at • The switch should support minimum of 2 nos of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) • The Switch should support minimum 30K MAC addresses and minimum 1024 VLANs • Should support minimum of 10K IPv4 routes and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc., • The switch should support SDN compatibility • Associated cables, power cables with 3 PIN socket and accessories as required to complete the solution • Redundant power supply. 				

Sl.no	Passive Components	Qty.	Amount in Rs. per Qty.	GST in Rs. Per Qty.	Total in Rs. Including GST
1	48 port LIU Cassette type (preferred) populated	1			
2	12 port LIU Cassette type (preferred) populated	4			
3	6 port LIU Cassette type (preferred) populated	3			
4	18 port LIU Cassette type (preferred) populated	1			
5	48 port patch panel fully loaded- RJ 45	1			
6	24 port patch panel fully loaded- RJ 45	5			
7	24 port patch panel fully loaded- RJ 11	8			
8	30 pair Armoured telephone cable	Approx. 100m			
9	10 pair Armoured telephone cable	Approx. 600m			
10	6 U racks wall mounted with fans and spike buster	4			
11	12 U racks wall mounted with fans and spike buster	2			
12	RJ-45 I/O points	Approx. 90nos			
13	RJ-11 I/O points	Approx. 90nos			
14	Cat 6 Cables	Approx. 8000m			
15	10G fibre single mode to all identified locations	Approx. 8000m			
16	Fibre patch cords 3mts (SC-LC) Single Mode	Approx. 70nos			
17	Pigtails (SC-SC) Single Mode	Approx. 10nos			
18	Dual port Face Plates along with back boxes	Approx. 90nos			
19	PVC Casing 2 inch	Approx. 500m			
20	PVC Casing 1 inch	Approx. 500m			
21	Metal Flexible, PVC Flexible	Approx. 20m			

Electrical Components:

Sl. No	Electrical components	Qty.	Amount in Rs. per Qty.	GST in Rs. Per Qty.	Total in Rs Including GST
1	<p>Electrical wiring for ground floor (room no.3 & 4)</p> <ul style="list-style-type: none"> Phase-1, Two Nos of 15 kVA UPS will be installed and configured in N+1 redundancy and will be in client scope. Phase-2, 1 no of additional 15kVA UPS will be installed with the existing 2 nos of 15kVA UPS and will be configured with N+1 redundancy and will be in client scope <p>The Scope description for the Vendor/Bidder is as follows,</p> <ul style="list-style-type: none"> Supply and Installation of Main incoming breaker from the Building LT panel. Supply and Laying of cable from main incoming panel to UPS. Supply and installation of Common Bus Bar system for 3Nos 15kVA UPS. Supply and Laying of cable from UPS output breaker to distribution Boards. Supply and installation of UPS power distribution boards with required breakers. Supply and laying of cables from UPS distribution boards to the Workstations/Endpoints. <p>Note: All Necessary conduits and termination materials are to be considered as a part of Vendor/Bidder Scope.</p>				
2	<p>Civil</p> <p>Floor Chipping and closure using vitrified flooring</p>				

Mandatory Note:

Bidder has to visit the site and to estimate the Network/Voice cabling, electrical, civil, etc., items. NCDIR will decide the exact quantity of the items during financial qualification.

Optional items: Access Point, Controller, Distribution Switch, NMS Package and UPS.

Note: For bid to qualify all the below optional items must be quoted, detailed BOM (should include accessories as well) along with the part number should be provided in the technical bid and financial bid.

1.	Wireless networking with access controller	Qty.	Amount in Rs. per Qty.	GST in Rs. per Qty.	Total in Rs Including GST
	<p>The proposed WLAN solution must support a distributed forwarding/local breakout architecture in which only control traffic is tunnelled to the centralized controller; all client data traffic is forwarded directly towards destination via the clients default gateway.</p> <ul style="list-style-type: none"> ○ On a per WLAN (SSID) basis there must be an option to tunnel traffic to the controller either un-encrypted or encrypted format. ○ Controller unit should be scalable up to minimum 50 Access Points (connected via cabled LAN). Seamless roaming facility for connected clients when they move from one Access Points to another should be available ○ Fully redundant configuration of Controller with Active-Active functioning wherein both controllers are able to service Access points simultaneously and also share license pool (if applicable). ○ Fully redundant configuration of Controller with Active-Active functioning wherein both controllers are able to service Access points simultaneously and also share license pool (if applicable). ○ Controller should provide air-time fairness between clients connected at different speeds – slower clients should not be starved by the faster clients and faster clients should not adversely affected by slower clients. ○ In event the controller fails the managed Access Points should continue to provide service to connected clients for a considerable period of time. ○ Controller should support following for security & Authentication: - WIRELESS ○ SECURITY: WEP, WPA-TKIP, WPA2-AES, 802.11i, AUTHENTICATION: 802.1X, local database, External AAA servers: Active Directory, RADIUS, ○ LDAPv3, TACACS ○ POE injectors are required in locations where the POE switches are not available. ○ Controller to support Bring Your Own Device (BYOD) features such as Simple onboarding, complete device visibility; control of device types and ACLs based on device types; Vendor to specify if any of these features requires additional purchase 	1 No			



	<ul style="list-style-type: none"> ○ (Licensing) of any other hardware/software. ○ Support for IPv4 & IPv6 support from Day 1. ○ The System should support seamless direct integration with industry standard directory services like LDAP v3 and Microsoft Active Directory without any use of additional Hardware/software. ○ The controller should be able to present a customizable dashboard with information on the status of the WLAN network. ○ In order to have good visibility on the utilization of an AP, the controller should be able to provide the following statistics for each AP: - List of all the SSIDs deployed on each of the radio of the AP, Data sent/received, Statistics on transmitted packets ○ System must support a mechanism where 5 Ghz clients are encouraged to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios. ○ Controller to support Guest Access feature, i.e., secure time-bound internet access to visitors/guests through a randomly generated access key with validation by a employee of the institution. Key communication to visitor to be either through a print-out or email. ○ System should be able to send Guest access password directly through Email to the user ○ Bidder to provide complete specifications of any external components required for this functionality. ○ Controller should be able to handle a minimum of 1000 concurrent users. ○ Virtual controller with failover and necessary hardware, software has to be provided by the vendor. ○ 2 x 10GSFP+ with patch cord to connect to core switch ○ Sufficient number of licenses for the controller based on the heat map provided + 20% extra license. ○ Machine to be minimum with RAID 1. 			
2	<p>Access Point</p> <ul style="list-style-type: none"> ○ This Access Point should have minimum capability of 802.11 b/g/n/ac with 1 POE (or POE+) Port 100/1000Mb; additional Redundant Ethernet port/ports, if any should be indicated and it should have the ability to club both, providing double the bandwidth. AP should have the necessary wall/ceiling mounting apparatus/brackets. ○ Access Points should be able to power up using standard POE or POE+ (as required) input and operate in full MIMO mode without any loss of features/capabilities. It should also have option of being powered through AC-DC power Adaptor. ○ AP should have Dual Radios to support 2.4 GHz & 5 GHz concurrent users. AP must support minimum 4x4:4 MIMO. 			



	<ul style="list-style-type: none"> ○ AP should be able to handle a minimum of 128 concurrent users; Maximum client handling capability to be indicated. ○ Maximum and minimum transmission power for 2.4 GHz and 5GHz to be indicated. ○ AP should have Receive Sensitivity of -95dBm or better ○ SSID support: 4 BSSIDs minimum per radio; Max number to be indicated. ○ The access point should support 802.1q VLAN tagging ○ Antenna: Integrated/external Omni-directional / directional patterns, with min 3 dBi Gain for 2.4Ghz and 5 GHz both all internal to the AP. ○ Typical Power consumption (in Watts) to be indicated. ○ Should support the operating temp 0° to 45° C and Humidity: 10 to 95% noncondensing. ○ Access points should preferably have integrated tamper-proof mechanisms. Please provide details. 	1No			
3	<p>Distribution switch with the following specifications (24 port without PoE):</p> <ul style="list-style-type: none"> ○ Switch should provide Wire-Speed performance with Non-Blocking architecture. Switch should be 1U ○ Switch should have 24 no's 10/100/1000 RJ45 ports ○ The switch should support minimum of 2 no's of physical 10Gbps SFP+ ports with 1 port populated with 10G SFP+ LC LR module (Single Mode) ○ The switch should be capable of operating as a stack of up to 8 switches, the entire stack should provide wire speed performance. The switch should support Stacking. Stacking ports to be independent of uplink ports. The stacking speed should preferably be equal or more than aggregated switching bandwidth. ○ The Switch should support 30K MAC addresses and minimum 1024 VLANs ○ Should support minimum of 30K IPv4 entries and support IPv4 & IPv6 dynamic routing protocols like RIPng, OSPFv3 etc. ○ The switch should support SDN compatibility ○ Associated stacking cables, power cables with 3 PIN socket and accessories as required to complete the solution ○ Redundant power supply 	1No			
4	<p>UPS cum Batteries</p> <ul style="list-style-type: none"> ○ Capacity 1KVA Online UPS with built in SMF batteries ○ Backup 30Mins at full load ○ Input Voltage 200-250 V AC, single phase ○ Output Single phase, 220V ○ Frequency 50 HZ ○ Input frequency 50 ± 5 Hz ○ Output power factor Unity ○ THD >3% ○ Voltage stability 1% at linear load ○ 3% at non-linear load Short Circuit Protection Soft shut down should occur without blowing any fuse ○ Efficiency More than 93% □ Frequency stability ± 1 Hz 	1No			

	<ul style="list-style-type: none"> ○ Indicators Over Temperature – Required ○ Load On Battery – Required ○ Battery On Charge – Required ○ Battery Low – Required ○ Mains – On Required ○ DC – On Required ○ Inverter – On Required ○ Inverter – Tripped ○ Output Over Voltage ○ Output Low Warranty 3 years total system	1No			
5	Wired and wireless equipment quoted by the OEM/partner must be supported for full configuration, management and monitoring by a single NMS package	1 No			

AFFIRMATION

We affirm that the total price given above represents the entire cost to complete the work in accordance with the scope of work and is inclusive of all expenses and incidentals etc. in particular, the price is also inclusive of cost of any stationery, telephone expenses, Infrastructure requirements such as manpower, transportation, telephone expenses, PCs, Laptops, data cards, application software, License requirement, installation & maintenance requirement, feasibility check or any special equipment required for design and delivery etc. and no claim will be made on account of any increase in expenses to be incurred during the validity of the work order.

Place:

(Signature of the Authorized Person):

Date:

(Name of the Authorized Signatory):

Designation :

(Name and Address of Company)

Seal/Stamp:

Contact Details :

ANNEXURE – III(a) PROOF OF EXPERIENCE

Date: _____

To,
 Director,
 National Centre for Disease Informatics and Research (NCDIR), Bengaluru
 562110

Sl. No.	Name of the Organisation / Clients	Name of the Contact Persons & Number	Address	No. of years
1				
2				
3				
4				
5				
6				
7				
8				
9				

Important: Documentary Proof like work order/Agreement/Invoice should be enclosed for each organization mentioned above.

Signature of Bidder

Name: _____



ANNEXURE – III (b) SATISFACTORY PERFORMANCE CERTIFICATE

Date: _____

To,
Director,
National Centre for Disease Informatics and Research (NCDIR), Bengaluru
562110

Sl. No.	Name of the Organisation / Clients	Name of the Contact Persons & Number	Address
1			
2			
3			
4			
5			
6			
7			
8			
9			

Important: Copy of satisfactory performance certificate should be enclosed for all the firms mentioned above.

Signature of Bidder

Name: _____

ANNEXURE – IV

ON THE LETTERHEAD OF THE VENDOR/CONTRACTOR/SUPPLIER DETAILS

Date:

To

The Director,
 National Centre for Disease Informatics and Research (NCDIR)
 Bengaluru – 562 110

Dear Sir,

We hereby give our consent to accept the related payments of our claims/bills on NCDIR through Cheques or Internet based online E-Payments system at the sole discretion of NCDIR. Our Bank account details for the said purpose are as under:

<u>A. Vendor Details</u>	
1. Name (As per the Bank Records)	
2. Address	
3. PAN No.	
4. TIN No.	
5. GST No.	
6. Email ID	
7. Mobile Number	
<u>B. Particulars of Bank Account:</u>	
1. Bank Name	
2. Branch Name/Branch Code	
3. Branch Address	
4. 9 Digit MICR No. of Bank and Branch (As appearing on the cheque)	
5. Account Type (Saving/Cash credit/ Current)	
6. Account Number (as appearing on the cheque book)	
7. IFSC Code of the Branch (For RTGS)	
8. IFSC Code of the Branch (For NEFT)	

***(please attach a blank copy of a cancelled cheque/photocopy of a cancelled cheque issued by your Bank related to the above account number for verifying the accuracy of the 9 digit MICR code number.

I/We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected to all for reasons of incomplete or incorrect information, I would not hold the user Institution responsible.

Date:

Signature/Seal of Firm

Phone No:

Certified that the particulars furnished above are correct as per our records

Date:

Company's Authorized Signatory

Phone No:

Encl: Photocopy of cheque duly cancelled and copy of Indian PAN Card

ANNEXURE – V

UNDERTAKING FROM BIDDERS

To

The Director,
National Centre for Disease Informatics and Research (NCDIR)
Bengaluru – 562 110

Sir,

Nature of Services	Providing of Voice, Data and UPS connectivity NCDIR, Bengaluru
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Having examined and pursued the tender documents,

I/Wedo hereby submit tender in prescribed formats for Purchase of Voice, Data and UPS connectivity NCDIR, Bengaluru, completed in all respects in accordance with the conditions applicable.

If this tender is accepted, I/We agree to abide by and fulfil all the terms and conditions in the tender documents

I/We hereby distinctly and expressly declare and acknowledge that before submission of this tender, I/We have carefully read and followed the instructions and I/We have understood the existing system of supply in the NCDIR, including the scope and nature of duties expected from the Bidder.

I/We distinctly agree that I/We would hereafter make no claim or demand upon the NCDIR, Bengaluru based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.

Any notice required to be served on me/us shall be sufficiently served on me/us by post (registered or ordinary) or courier or left at my/our address furnished herein. I/We fully understand the terms and conditions in the tender documents.

Date:

Name, signature & seal of the bidder

ANNEXURE – VI

TENDER FEE & EARNEST MONEY DEPOSIT PAYMENT PARTICULARS

Number of Demand Drafts enclosed:

Demand Draft particulars:

Sl. No.	D. D. No.	Date	Name of the Bank / Branch and Place	Amount
1.				
2.				
3.				

I / We, hereby declare that the particulars furnished by me/us in this offer are true to the best of my/our knowledge and I/We understand and accept that, if at any stage the information furnished by me/us are found to be incorrect or false, I/We am/are liable for disqualification from this tender and also liable for any penal action that may arise due to the above, besides being black listed.

Signature :

Name :

Designation :

Name of the Agency:

Address of the Bidder:

Phone No. & Mob. No. :

Email Address :

Website Address (if any):

Date :

ANNEXURE –VII PERFORMANCE SECURITY BOND FORM

1. In consideration of National Centre for Disease Informatics and Research (ICMR) Bengaluru (Here in after called the NCDIR Bengaluru) having agreed to exempt _____ (here in after called the said contractor(s) from the demand of security deposit/earnest money of

. _____ on production of Bank Guarantee for . _____ for the due fulfilment by the said contractors of the terms & conditions to be contained in an Agreement in connection with the contract for Purchase - Purchase of Voice, Data and UPS connectivity for National Centre for Disease Informatics and Research (ICMR) Bengaluru.

_____ we, (name of the Bank) _____ (herein after referred to as “the Bank”) at the request of _____ Contractor’s do hereby undertake to pay the NCDIR Bengaluru an amount of not exceeding _____, against any loss or damage caused to or suffered or would be caused to or suffered by the NCDIR Bengaluru reason of any breach by the said contractors of any of the terms & conditions contained in the said agreement.

2. We (Name of the Bank) _____ do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the NCDIR Bengaluru stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NCDIR Bengaluru reason of breach by the said contractors of any of terms & conditions contained in the said agreement or by reason of the contractors failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee, where the decision of the NCDIR Bengaluru in these counts shall be final and binding on the Bank. However, our liability under this guarantee shall be restricted to an amount not exceeding . _____.

3. We undertake to pay to the NCDIR Bengaluru any money so demanded not withstanding any disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under the present being absolute and equivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/ supplier(s) shall have no claim against us for making such payment.

4. We (Name of the bank) _____ further agree that the guarantee herein contained shall remain in full force and effect immediately for a period of one year from date herein and further agrees to extend the same from time to time (one year after) so that it shall continue to be enforceable till all the dues of the NCDIR Bengaluru, under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till NCDIR Bengaluru certifies that the terms & conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges guarantee.

5. We further agree with the NCDIR Bengaluru that the NCDIR Bengaluru shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary and of the terms & condition of said agreement or to extend time of performance by the said contactor(s) from time to time or to postpone for any time to time any of the powers exercisable by the NCDIR Bengaluru against the said any contractor(s) and to forbear or enforce any of the terms & conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, and or any omission on the part of the NCDIR Bengaluru or any indulgence by the NCDIR Bengaluru to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. The guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s)/ supplier(s).

7. This guarantee shall be irrevocable and the obligations of the Bank herein shall not be conditional to any prior notice by NCDIR Bengaluru.

Dated: _____

For

(Indicating the name of the bank)

Note: This guarantee should be issued on non-judicial stamped paper, stamped in accordance with the stamp act.

ANNEXURE – VIII NON-BLACKLISTING DECLARATION

I/We having our office as mentioned below and declare that I/we have never been blacklisted by any State Government/Central Government or any State/Central PSU.

Signature :

Name :

Designation :

Name of the Agency:

Address of the Bidder:

Date :

Place :

ANNEXURE – IX TURN OVER DETAILS

As per the tender eligibility criteria, The Service Provider must have a turnover of Rs.45 Lakh, at least two of the last three Financial Years ending on 31.03.2018. These turnover details will have to be substantiated with the appropriate documentary evidences duly enclosed.

The last three years' sales turn-over details are furnished as follows.

Name of the Company / Firm:

Sl. No.	Financial Year	Turnover (Rs. In lakh)
1	2015-16	
2	2016-17	
3	2017-18	

Important: Proof of the above sales turn-over details should be furnished in the form of **Audited Annual Accounts of the bidder.**

Date:

Company's Authorized Signatory

SITE INSPECTION CERTIFICATE

To,
The Director,
National Centre for Disease Informatics and Research
(Indian Council of Medical Research)
Nirmal Bhawan-ICMR Complex (II Floor),
Poojanahalli, N.H-7, B. B. Road,
Kannamangala Post, Bengaluru-562 110 (India)

Dear Sir,

I/we visited the place of work (National Centre for Disease Informatics and Research, Bengaluru) on Date: _____. Having examined the drawings, specifications, designs and schedule of quantities relating to the work specified in the tender document herein, requisite information has been ascertained and understood.

I/we.....
hereby offer to execute the work specified in the said memorandum within the time specified at the rate mentioned in the attached schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in the conditions of tender, articles of agreement, schedule of quantities, general instructions to tenderer, special conditions of contract, general technical specifications and with such other materials and conditions as may be prescribed from time to time.

Date:

Place:

Name and address of the tenderer:

Signature of the tenderer

Signature of NCDIR Official.

Name & Designation:

Date & Time:

NO RELATION CERTIFICATE

THIS IS TO CETIFY that I/We have no relative as an Employee of Indian Council (close relative means Father, Mother, Brother, sister, Son, Daughter and spouse) nor any such close relatives associated with us as Proprietor/Partner/Share holder/Director and like.

Signature of the Tenderer

Address with Office Seal and Date