



NATIONAL INSTITUTE OF AYURVEDA

(An Autonomous Organization under the Ministry of AYUSH)
Jorawar Singh Gate, Amer Road, Jaipur 302002 (Rajasthan), India
www.nia.nic.in

Tender

For

SUPPLY, INSTALLATION, TESTING, COMMISSIONING & AMC OF Wi-Fi NETWORK

At

National Institute of Ayurveda, Jaipur

NIT Issue Date :	11 th February, 2020
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Contact Person :	Prof. Sanjeev Sharma Director, National Institute of Ayurveda.
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Note: Tender documents may be downloaded from institute's website www.nia.nic.in (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>

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Section I

Tender Cost By DD Rs. 1000/-

Nivedan patra (निवेदन-पत्र)

राष्ट्रीय आयुर्वेदसंस्थान

माधव विलासपैलेस, आमेररोड, जयपुर-302002

फर्म का नाम
.....
.....

निविदाप्रपत्र

1. विषय : निविदाजिसकार्य/वस्तु के लियेदियाजारहाहै

उसका नाम : High Speed Backbone OFC Networking

(निविदा की अनुमानित लागत 25,00,000 रूपयेहोगी । निविदा के साथ अनुमानित लागत की 2 प्रतिशत धरोहरराशि के रूपये 50,000/- का डिमाण्डड्राफ्ट निदेशक, राष्ट्रीय आयुर्वेद संस्थान, जयपुर के नाम जमा करना अनिवार्य होगा)

2. निविदादाता का पूरा नाम :

3. प्रेषित अधिकारी/कार्यालय का नाम : निदेशक, राष्ट्रीय आयुर्वेद संस्थान, जयपुर

4. निविदा शुल्क राशि रूपये रसीद नं./डी.डी. नं.दिनांकसंलग्न किया गया है ।

5. आयकर व बिक्रीकर चुकता प्रमाणपत्र संलग्न है/नहीहै ।

6. धरोहर राशि रूपयेरसीद नं./डी.डी. नं.दिनांकनिदेशक, राष्ट्रीय आयुर्वेद संस्थान, जयपुर के नाम बनाकर संलग्न कर दिया गया है।

7. सभी संलग्न कुल दस्तावेज पृष्ठ संख्या से तक अंकित है एवं हस्ताक्षरित है ।

8. मैं/हम निविदा प्रपत्र के साथ संलग्न शर्तों को स्वीकार करते है और इससे बाध्य रहेगें।

स्थान:

दिनांक :

निविदादाता के हस्ताक्षर
(सूचक मय रबड़ स्टाम्प)

Section II

About NIA

1. Introduction

NATIONAL INSTITUTE OF AYURVEDA was established on 7th February 1976 by the Ministry of Health and Family Welfare, Government of India. The Institute is first of its kind in India having a national character and international repute with the following

2. Aims and Objectives:

- To promote the Growth and Development of Ayurveda.
- To produce Graduates and Post-Graduates in all Branches of Ayurveda.
- To conduct Research on various aspects of Ayurveda
- To provide Medical Care through Ayurvedic Systems of Medicine to the suffering humanity.
- To provide and assist in providing service and facilities of highest order for Research, Evolution, Training, Consultation and Guidance to Ayurvedic System of Medicine.
- To conduct Experiments and develop Patterns of Teaching Under-Graduate and PostGraduate Education in all branches of Ayurveda.

3. The Functioning of NIA

NIA is an apex Institute under the Ministry of AYUSH for promoting the growth and development of Ayurveda as a model Institute for evolving high standards of teaching, training, research and patient care and also to invoke scientific outlook to the knowledge of Ayurvedic System of Medicine. The Institute, an Autonomous Body under Ministry of AYUSH Govt. of India, is registered under the Rajasthan Societies Registration Act, 1958.

4. High Speed Wi-Fi Network

NIA is planning to install Wi-Fi Access Points system for enhancing and cover the area of the campus by harnessing the updated technology. NIA is thus looking for an experienced Firm/Company which can supply, installation, commissioning, maintenance and integration of Indoor Wi-Fi Access Points, this Wi-Fi network system at a competitive price.

Section III

Tender Details

1. Introduction

National institute of Ayurveda is in search for a Complete Solution to accomplish requirements of High Speed Wi-Fi Network with the aid of today's technology along with available migration path to emerging technologies in future. This tender document is against the requirement for integration of Indoor Wi-Fi Access Points for the purpose of High bandwidth data within the National institute of Ayurveda, Jaipur.

NIA already cover several stations of campus by Wi-Fi Access Points, Now we want to cover rest of campus by High Speed Wi-Fi Network this year.

2. Scope of Work

- 2.1. Wi-Fi facility should be available 24/7 without fail. The primary aim of Wi-Fi facility is to provide internet access in all areas used by user in NIA Campus. Connectivity must be activated within 30 seconds.
- 2.2. The agency should provide the required equipment for access to the Wi-Fi facility and shall bear all the cost on account of development and setting up required infrastructure for the said services. The agency shall submit the details of drawing for approval prior to commencement of entire work.
- 2.3. Manage Operations and Maintenance (O & M) of Wi-Fi access points and associated network components.
- 2.4. Provide secure Wi-Fi internet access and back-end services as per committed

3. Features shall be:

- 3.1. High Speed Internet access
- 3.2. Guaranteed bandwidth per location of campus
- 3.3. Multiple authentication Mechanisms
- 3.4. Robust, scalable back end network.
- 3.5. Upgrade path to newer technologies.

4. Site Survey

Before execution of the work the Vendor shall carry out the required survey of the routes as per **Table-1**, Map for at no additional cost . The Vendor shall prepare the survey report of these routes in NIA grid map furnishing all distances, details regarding position of joint boxes, manholes, etc. Trial pits may be dug at suitable locations to assess the obstacles. The survey report shall have to be submitted by Vendor to NIA for approval and requisite

clearances need to be obtained before the cable installation work is commenced by the Vendor. The installation/ shall be carried out as per the approved drawings. Route maps shall be drawn to the scale.

5. Training and Documentation

- 5.1. The Vendor has to provide onsite training for at least 3 days to a team of NIA officers for monitoring and handling the High Speed Wi-Fi Network System.
- 5.2. The Vendor has to provide laying and installation documentation of Access Points based High Speed Wi-Fi Network System.

6. Access Network Architecture

- 6.1. Agency shall be responsible for the planning and design of the access network architecture (access controllers, backhaul connectivity, switches etc) to meet the technical, capacity and service requirements.
- 6.2. Agency shall plan for high availability, reliability and redundancy of the access network elements to meet the requirements.
- 6.3. Agency shall be responsible to for backhaul connectivity provisioning using their network and related equipment at locations.
- 6.4. Agency shall be responsible for getting necessary permission, approvals and space for installation of equipment and cabling at the location including at installation of radio/ antenna on the terrace for backhaul link if required.
- 6.5. Agency shall be responsible for providing and executing Cabling, testing etc. without affecting the aesthetics and user service of the NIA Campus.

7. Coverage and Technology Requirements:

The coverage criteria shall be:

- 7.1. At least -65 dBm at 95% of the intended coverage locations.
- 7.2. At least -70 dBm at 100% of the intended coverage locations.

The Access Point shall comply IEEE 802.11 a/b/g/n or higher protocols for centralized management and control.

The Access Point shall comply UTM for centralized management and control.

8. Capacity Requirement

Solution provided by the Agency shall cover following Requirement:

- 8.1. Available Internet bandwidth to backbone
 - i. Total BW: 20MBps ILL Minimum

ii. Per user BW: 2 Mbps Minimum

8.2. Number of Access points per Area: To be decided by the agency to maintain the coverage requirement.

8.3. Average Number or concurrent users in total Wi-Fi access area: 200 to 400 users which may increase in the future

9. Content Restriction

9.1. It is the sole responsibility of the agency to restrict the web sites which are obscene and are having potential security threat to the NIA Campus.

9.2. Agency shall not provide any content on the given Wi-Fi Network which is prohibited by Indian Laws.

10. Equipment Security

Adequate Security mechanisms shall be provided in the Wi-Fi service equipment so as to prevent unauthorized access or interfaces to services, calls, protocols and data.

11. Authentication, Authorization and Accounting

The agency shall have a centralized User Authentication, Authorization and Accounting mechanisms with the latest technology available.

12. Lawful Interception & Monitoring

12.1. The systems shall support Centralized Lawful monitoring solution for location to send usage logs (including URL visited, user name, MAC, IP Address, Time, duration, sessions etc.) which can be stored for a desired usage tracking as per the law.

12.2. The systems shall produce reports, graphs and charts on the Protocol usage history based on the system, location or user historically.

12.3. The systems shall support lawful monitoring and also interception of both signalling & data traffic.

13. Scope of NIA Work

13.1. Supplying of continuous electrical AC power shall be provided by N.I.A Dept. for each Access Point / Switches / other devices locations as per actual requirement.

13.2. Road cutting / digging under user / N.I.A. Scoop.

13.3. Complete system (except cables) will be under one-year warranty period which cover all kind of man-made mistakes, technical faults and errors. Natural calamities, loss and thefts and forcefully damages shall not be cover under warranty norms.

Table 1: Location of Access Point

S. No.	Location
1	Boys Hostel
2	New PG Hostel
3	UG Hostel
4	Library
5	Girls Hostel
6	Nursing Hostel
7	Department PG Rooms
8	Auditorium

14. “BOM” –Bill Of Material

S. No	Product	Qty
1	Indoor Wireless Access Point(AP) Dual Band	62
2	Gigabit 8 Ports PoE Switch with Fiber Uplink with 1Port SFP Module(RJ45)	15
3	Controller for all AP with 3 Yrs. License *Includes: Configuration and administration, Usage insight, Rogue AP detection, Enhanced Support, Warranty.	1
4	Fiber patch cord	15
5	9U Rack with PDU, FAN, Shelf, Mounting Hardware	15
6	Patch Panel	14
7	I/O box set	55
8	RJ-45 connectors	200
9	1 mtr Patch Code cat6	60
10	23 AWG Cat6e UTP Cable	3700Mtr
11	1" PVC Casing/Conduit Pipe with required accessories	3700Mtr
12	Charges for Cable Laying with PVC Conduit Pipe including Cable Fixing, Installation, Activation, crimping with all required accessories	3700Mtr
13	Charges for Access Point mounting, Fixing, Installation, configuration and integration with controller	62

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15. Material Detailed ITEM-WISE Specifications

<p>ITEM NO 1:IndoorWireless Access Point (AP) Dual Band</p> <p>Type of Access Point Controller Based, Mountin:Wall, Antenna Type: External Number Of Radios: Dual, Frequency Band:2.4 GHz & 5.0 GHz Supported Wi-fi Standards:802.11 a/b/g/n/ac,802.11ac Wave 1,802.11ac Wave 2, Wireless Speed Up to (Mbps):1200, Max Wireless Signal Range im Mts:150 Channel Width (MHz):80, SupportedEncryption:WEP,WPA-PSK,WPA-TKIP,802.11,WPA AES</p> <p>Make:-Digisol, D-link, Sophos, CISCO or equivalent*</p>
<p>ITEM NO 2: ControllerforallAP with 3 Yrs. License</p> <p>Number of access point Supported from day 1 (Numbers):2048, Minimum Scalability -- Number of Access Points: 2048, Maximum Scalability -- Number of Access Point:2048 Concurrent End Client device support (Numbers):65535, Mounting Arrangement: Rack Mountable, Frequency Band:2.4 & 5.0 GHz, Number of Ethernet Port:6,Number of WLAN (SSID):16, Maximum clients (Numbers): Aprox. 70000</p> <p>Make:-Digisol, D-link, Sophos, CISCO or equivalent*</p>
<p>ITEM NO 3: Gigabit 8 Ports PoE Switch with Fiber Uplink with 1Port SFP Module(RJ45)</p> <p>Interface: 2 x SFP ports, 8 x 10/100/1000BASE-T ports, Switching Capacity: On Blocking (Gbps)20, Throughput (MPPS):14.88, Basic Layer-3 Protocol:4 IP interfaces, Static route --64 IPv4 static routes --32 IPv6 static routes,SecurityFeature:Port security (Up to 64 MAC addresses per port), IP-MAC-Port Binding Management Protocol: Web-based GUI, Command Line Interface, SNMP v1/v2c/v3</p> <p>Make:-Digisol, D-link, Sophos, CISCO or equivalent*</p>
<p>ITEM NO 4: Fiber patch cord</p> <p>Type Compatible with patch panel as per pigtail type & Lan switch shall be supplied, Mode Single-mode Fiber Length1.5m</p> <p>Make :- D-Link/TP-Link/Digisol/Molex/ SYSTIMAX or equivalent*</p>
<p>ITEM NO 5: 9U Rack with PDU, FAN, Shelf, Mounting Hardware</p> <p>Supply of 2U/4U/6U/9U Racks for housing of network equipment with front door and there Min. width 450-550 mm and Depth 380-600mm With 140-350 MM Height or BETTER for housing central equipment of AP system with fixing as per site requirement and Compatible with 19" International standards</p> <p>Approved Make- i-Ball/Comrack or Similar</p>
<p>ITEM NO 6: RJ-45 connectors</p>

Features : 8P8C RJ-45 Connector (8-pin connector) Through Hole PCB mount socket Compatible with all CAT and UDP cable, **Pin 8**

Make :- D-Link/TP-Link/Digisol or equivalent*

*equivalent brand must have all mentions certificates.

Note:

1. All necessary Software to be supplied along with the Access Point, AP Controller and Switches should be Licensed and copy to be provided.
2. System Configuration Detailed Design : Vendor should give full system configuration giving diagram and detailed placement of each components/ sub systems along with technical bid.
3. Operation and service manuals for each type of items supplied to be provided – 1 set of Service manuals will provide complete system details like operation, & maintenance of system with details configuration, relevant lay out, diagram and drawings.
4. All Warranty should be on OEM letter Head.

16. Inspection and Acceptance

Acceptance Test will be conducted as follows:

- 16.1. The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 16.2. Final Acceptance Test (FAT): After successful installation of the equipment/Material in accordance with the requirements as mentioned in Contract, Final Acceptance Test will be conducted. After successful testing, Acceptance Test Certificate will be issued by NIA or any Team constituted by NIA.
- 16.3. The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the Equipment/Material.
- 16.4. Any delay (**refer to Schedule 11 of Section II for Completion of Tasks**) by the Vendor shall render the Vendor liable to the imposition of appropriate Penalties.
- 16.5. All goods and services should have approval of TEC with ISI or other certification, as applicable, to prove the quality standards applicable in India.
- 16.6. Vendor shall provide details of Acceptance Test Procedure (ATP) to NIA as per tender specifications & will demonstrate system specifications as per ATP to NIA. During ATP vendor shall use their own tools, equipment. NIA will not provide any test instrument/tools.

16.7. Final payment will be made after satisfactory testing, commissioning and acceptance of the complete system.

16.8. The system will be considered as installed and accepted only after successful uninterrupted operation of the entire system at site for period of minimum 15 days.

17. Annual Maintenance Contract

17.1. The vendor should enter into a comprehensive AMC for 3 years from the date of expiry of the warranty period of 3 years (from the date of Final Acceptance Test of the WiFi system).

17.2. Annual Maintenance Contract amount will be paid in advance on half yearly basis.

17.3. The system should be up for more than 98% in a Quarter. In case the system downtime is less than 98% in a quarter, a penalty as admissible and mentioned in **Schedule 11 of Section IV** will be imposed.

17.4. Uptime for a quarter is calculated as under:

$$24 \text{ Hrs} \times 90 \text{ days (in a quarter)} = 2160 \text{ Hours}$$

17.5. The vendor is responsible for maintaining uptime as under:

- Network: Switches 99% uptime per Quarter (99% of 2160 Hours)
- Access Point: 98% uptime per Quarter (98% of 2160 Hours)

17.6. The cost of the repairing or replacement of faulty part/component/device during AMC period of 03 year has to be entirely borne by the Vendor.

17.7. All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the Vendor during AMC period.

17.8. The Vendor also has to make alternate arrangement in case of major failure happening in the network, due to which services may be affected for longer period. After repairing or replacement of the part/component/device, the Vendor needs to put the same into operation.

18. Schedule for completion of tasks

The selected vendor would be required to Install, Commission, customize the AP, test and operationalise the WiFi Network within 8 weeks of the issue of PO as per the following schedule:

S.No.	Task	Schedule
1.	Installation of the Access Point and Switches	6 weeks
2.	Testing & acceptance of the system	1 week
3.	Operationalise	1 week

Section IV

Terms and Conditions

1. Qualification Criteria

- 1.1. The Bidder/OEM may be a Government Organization / PSU / PSE / Partnership firm / Proprietary firm or a Private Limited Company under Indian Laws. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.2. The Bidder/OEM should have at least one year experience in similar business. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.3. The Bidder / OEM should have average turnover of Rs. 50 Lakh in the last 3 years (2016-17, 2017-18 and 2018-19) in similar business. Chartered Accountant Certified Balance Sheets of these last 3 years should be attached with Technical Bid.
- 1.4. The Bidder / OEM should have implemented at least one similar work during the last 3 years of the value of at least INR 10 lakhs. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.5. The Bidder / OEM should possess a valid GST number and should attach a self-certified copy of the same.
- 1.6. The Bidder/ OWM should attach an affidavit to the effect that the firm or any of its partner, director, Board Member of any firm has not been black listed by any Government / Semi Government Organization/statuary body. If it is found that the Firm has been blacklisted at the later stage then the bid / the contract will stand cancelled with forfeiture of EMD amount / pending dues.
- 1.7. The bidder / OEM should have an established development set up in India.
- 1.8. The bidder should submit an Ink-Signed Authorization letter from OEM / Technology partner
- 1.9. If the Bidder / OEM has a valid ISO 9001:2008 certificate, it should attach a self-certified copy of the same.
- 1.10. The Bidder should attach self-certified copies of the Satisfactory Service Certificate of the previous clients.

2. Instruction to the bidders

- 2.1. **Location For Supply Of Goods And Services And Installation** – Locations mentioned in Table 1 (Locations).
- 2.2. The technical specifications are the minimum requirements of the purchaser. The Bidder is at liberty to indicate higher specifications than the minimum level. The purchaser reserves the right to place order at the higher specifications offered by the Bidder. Similarly, the support & warranty period is the minimum required. The Tenderer is at liberty to offer a higher support & warranty period and the Purchaser / Indenter reserves the right to avail of the longer support & warranty period offered.
- 2.3. The Bidder / OEM can inspect the site survey during the date and time specified in the tender document. The contact person for such inspection will be **Mr. Shashank Sharma of IT Department**.
- 2.4. The Bidder has to prepare and attach Lay Out Drawings of the Location connecting to the respective APpoints showing optimum location points.
- 2.5. **Expenses Incurred During Execution Of Tender** - It may be noted that NIA will not pay any amount / expenses / charges / fees / traveling expenses / boarding expenses / lodging expenses / conveyance expenses / out of pocket expenses, regardless of the conduct or outcome of the tendering process.
- 2.6. **Non Transferable Tender** - Neither the contract nor any rights granted under the contract may be sold, leased/sublet, assigned, or otherwise transferred, in whole or in part, by the vendor, and any such attempted sale, lease, assignment or otherwise transfer shall be void and of no effect without the advance written consent of the NIA.
- 2.7. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
- 2.8. The complete bidding process is online. Bidders should be in possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above.
- 2.9. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.
- 2.10. Bid documents may be scanned with 100 dpi in black and white option which helps in reducing size of the scanned document.
- 2.11. **EMD Payment:** The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 50,000/- (Rupees Forty Thousand Only)** by way of demand drafts or Bank Guarantee only. The demand drafts or Bank Guarantee shall be drawn in favour of **“Director NIA, Jaipur”** payable at Jaipur. The EMD of the successful bidder shall be returned after the successful submission of Bank Guarantee/ Security Deposit and for unsuccessful bidder(s) it would be returned after award of the contract. **The demand**

drafts or Bank Guarantee for EMD must deliver to Director, NIA, Jaipur on or before last date/time of Bid Submission.

- i. Tenderer shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fails to observe and comply with stipulation made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited.
- ii. The Firm who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industries (SSI) are exempted to submit the EMD (Copy of registration must be provide d along with technical bid)
- iii. The EMD, in case of unsuccessful Bidders shall be retained by NIA, Jaipur till the finalization of the tender. No interest will be payable by NIA, Jaipur on the EMD.

2.12.Submission of Tender:

The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

2.13. Technical Bid

The following documents are to be furnished by the Contractor/Bidder along with Technical Bid as per the tender document:

- i. Signed and scanned copy of appropriate value of valid registration certificate (if any), experience certificate as per the tender notice, PAN, GST registration certificate and Tender Acceptance Letter.
- ii. Signed and Scanned Copy of Make and model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.
- iii. The technical offer shall be submitted in the Format given by NIA in this Tender Document.
- iv. The technical bid should not contain any price information

2.14. Financial Bid

The following documents are to be furnished by the Contractor/Bidder along with Financial Bid as per the tender document:

- i. Financial Bid shall be submitted only as per the format given as BoQ.

- ii. The bidder should submit an undertaking that there are no deviations to the specifications mentioned in the tender either with the technical or commercial bids submitted.
- iii. It should give all relevant price information and should not contradict the Technical Offer in any manner.
- iv. The prices quoted in the financial bid should be without any conditions.
- v. The price schedule must be filled in completely, without any error, erasures or alterations.
- vi. Tenderer should quote only all-inclusive Price, inclusive of Supply, Installation, commissioning, Transportation, Forwarding, Insurance, Training, Support & Warranty, taxes and duties.
- vii. Price quotation accompanied by vague and conditional expression such as “subject to immediate acceptance”, “subject to confirmation before sales”, etc will be treated as being at variance and shall be liable for rejection.
- viii. Prices quoted will be firm for the entire period of Contract. All prices to be quoted in Indian Rupees, and must clearly state all applicable taxes which must be included in quoted price.
- ix. It is the responsibility of the Vendor to clearly identify all costs associated with any item or series of items in this Tender document. The Vendor must include and complete all parts of the cost Proposal in a clear and accurate manner. Omissions, errors, misrepresentations, or inadequate details in the Vendor’s cost proposal will be considered as valid ground for rejection of the Vendor’s proposal. Costs that are not clearly identified will be borne by the Vendor

2.15. The selected bidder withdraws his tender before furnishing an unconditional and irrevocable Performance Bank Guarantee.

2.16. The bidder violates any of the provisions of the terms and conditions of this tender specification

2.17. The EMD will be refunded to:

- i. The successful bidder, only after furnishing an unconditional and irrevocable Performance Bank Guarantee for 10% of the contract value or after submitting an undertaking for not demanding 10% payment till one year after project completion.
- ii. The unsuccessful bidders, only after acceptance of the “Letter of Appointment” by the selected bidder.

2.18. Completeness Of Tender Offer - The Bidder is expected to examine all instructions, forms, terms, conditions, and specifications in the Tender document. Failure to furnish all information required by the Tender document or submission of a tender offer not substantially responsive in every respect to the tender document will be at the Bidder’s risk and may result in rejection of its tender offer.

2.19. Authorised Signatory - The selected bidder shall indicate the authorized signatories who can discuss and correspond with the NIA, with regard to the obligations under the contract. The selected bidder shall submit at the time of signing the contract, a certified copy of the extract of the resolution of their Board, authenticated by Board Secretary, authorizing an official or officials of the bidder or a Power of Attorney copy, to discuss, sign agreements / contracts with the NIA. The bidder shall furnish proof of signature identification for above

purposes as required by the NIA.

- 2.20. **Only One Submission Permitted** - Only one submission of response to tender by each Vendor will be permitted. All submissions, including any Banking documents, will become the property of NIA.
- 2.21. **Clarification Of Offer** – To assist in the scrutiny, evaluation and comparison of offer, the Purchaser may, at its discretion, ask some or all Venders for technical clarification of their offer. The request for such clarification and the response shall be in writing. To speed up the response process, the Purchaser, at its discretion, may ask for any technical clarification to be submitted by means of facsimile / email by the Bidder. In such cases, original copy of the document describing the technical clarification must be sent to the Purchaser by means of courier / in person in addition to the copy sent in facsimile / email.
- 2.22. **Evaluation:** NIA shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference and by applying the evaluation criteria, specified in the Tender Document. In the first stage of evaluation, a proposal shall be rejected if it is found deficient as per the requirement indicated in the Tender Document for responsiveness of the proposal. Only responsive proposals shall be further taken up for evaluation. Evaluation of technical proposal will start first and at this stage the financial bid (proposal) will remain unopened. The proposals will be evaluated, based on the eligibility criteria and submission of all the requisite information /documents as asked for in this Tender Document.
- 2.23. Evaluation shall be made under **Combined Quality cum Cost Based System (CQCCBS)**. Under CQCCBS, the technical proposals will be allotted weightage of 60% and only Bidder's securing a minimum of 70%marks in technical evaluation shall be considered technically qualified. Financial proposals of only those firms who are technically qualified shall be opened publicly on the date & time specified, in the presence of the Bidder's representative who choose to attend. The name of the Bidder's, their technical score and their financial proposal shall be read aloud. Financial proposals will be allotted weightage of 40%.
- 2.24. Proposal with the lowest cost will be given a financial score of 100 and other proposals given financial score that are inversely proportional to their prices.
- 2.25. The total score, both technical and financial, shall be obtained by weighing the quality and cost scores and adding them up.
- 2.26. **Highest point's basis:** On the basis of the combined weighted score for quality and cost, the Bidder's shall be ranked in terms of the total score obtained. The proposal obtaining the highest total combined score in evaluation of quality and cost will be ranked as H-1 followed by the proposals securing lesser marks as H-2, H-3 etc. In case H-1 bidder withdraws, second highest bidder H-2 will be considered.
- 2.27. **Evaluation of Technical Bids** - Minimum Eligibility Criteria bids received from the Bidders will be opened on the specified day in the presence of representatives of the bidders, who choose to be present as per the schedule stipulated by NIA. Subsequently a detailed analysis will be carried out by NIA. Based on responses to 'Minimum Eligibility Criteria', Bidders will be short listed for further technical evaluation. Proposals which do not meet Minimum Eligibility Criteria, will not be considered for further technical

evaluation. The technical bid will be analyzed and evaluated, based on which the Relative Technical Score (RTS) shall be assigned to each bid. Technical Bids receiving a RTS greater than or equal to a score of 70 (cut-off marks) will be eligible for consideration in the subsequent round. The Parameters of the Technical evaluation are broadly in following table.

TECHNICAL EVALUATION PARAMETERS		
Marks Distributions:(Maximum 100)		
Minimum Marks to obtained for Technical Qualification - 70		
Criteria	Criteria Points	(Max Marks)
<p>1. The bidder or OEM should have implemented minimum one similar project during the last 3 years of the value 5 Lakh.</p> <p>a. For 6 or more of these projects with minimum value of 5 Lakhs each in last three years.</p> <p>b. For 5 or more of these projects with minimum value of 5 Lakhs each in last three years.</p> <p>c. For 4 of these projects with minimum value of 5 Lakhs each in last three years.</p> <p>d. For 3 of these projects with minimum value of 5 Lakhs each in last three years.</p> <p>e. For 2 of these projects with minimum value of 5 Lakhs each in last three years.</p> <p>f. Less than the above</p>	<p>15</p> <p>12</p> <p>9</p> <p>6</p> <p>3</p> <p>0</p>	<p>Max Mark 15</p>
<p>2. Satisfactory Services Certificate by at least one Client where bidder's solution is installed and maintained, it may be hosted on internet or on intranet minimum value of 2 Lakhs:</p> <p>a. Satisfactory Services Certificate by 5 Clients</p> <p>b. Satisfactory Services Certificate by 4 Clients</p> <p>c. Satisfactory Services Certificate by 3 Clients</p> <p>d. Satisfactory Services Certificate by 2 Clients</p> <p>e. Satisfactory Services Certificate by 1 Clients</p> <p>f. No Certificate</p>	<p>15</p> <p>12</p> <p>9</p> <p>6</p> <p>3</p> <p>0</p>	<p>Max Mark 15</p>
<p>3. ISO Certification:</p> <p>a. ISO 9001:2008 certificate</p> <p>b. No ISO Certification</p>	<p>5</p> <p>0</p>	<p>Max Mark 5</p>

<p>4. Track of being in the Business for at least 1 years:</p> <p>a. Being in the Business for more than 5 years or more</p> <p>b. Being in the Business for 4 to 5 years</p> <p>c. Being in the Business for 3 to 4 years</p> <p>d. Being in the Business for 2 to 3 years</p> <p>e. Being in the Business for 1 to 2 years</p>	<p>15</p> <p>12</p> <p>9</p> <p>6</p> <p>3</p>	<p>Max Mark 15</p>
<p>5. Average Turnover of Last 3 years:</p> <p>a. More than 1.5 Crore</p> <p>b. More than 1.25 Lakh to 1.5 Crore</p> <p>c. More than 1 Crore to 1.25 Crore</p> <p>d. More than 75 Lakh to 1 Crore</p> <p>e. More than 50 Lakh to 75 Lakh</p>	<p>15</p> <p>12</p> <p>9</p> <p>6</p> <p>3</p>	<p>Max Mark 15</p>
<p>6. High Speed WiFi network System</p> <p>a. Layout plan of each of AP of WiFi network System for optimum High Speed WiFi network System.</p>	<p>35</p>	<p>Max Mark 35</p>

2.28.Short Listing Of Bidders – NIA will short list technically qualifying Bidders and Financial Bids of Technically Qualified Bidders will be opened.

2.29.Opening of Financial Bids – The Financial Bids of Technically Qualified Bidders will be opened as per date specified in this Tender document in the presence of their representatives, who wishes to be present. After opening of the commercial offers of the short-listed Bidders, if there is a discrepancy between words and figures, the amount indicated in words will prevail.

2.30.Composite Evaluation Criteria

- a. The technical and financial scores secured by each bidder will be added using weightage of < 60% > and < 40% > respectively to compute a Composite Bid Score.
- b. The bidder securing the highest Composite Bid Score (**H1**) will be adjudicated as the most responsive Bidder for award of the Project. The overall score will be calculated as follows:-

$$B_n=0.60*T_n+0.40*F_n$$

Where : B_n = overall score of bidder, T_n = Technical score of the bidder

(out of maximum of 100 marks), F_n = Normalized financial score of the bidder

- c. The bidder with lowest qualifying financial bid (L1) will be awarded 100% financial score. Financial Scores for bidders other than L1 will be evaluated using the following formula:

Normalized Financial Score of a Bidder:

$$F_n = (\text{Financial Bid of L1} / \text{Financial Bid of the Bidder}) \times 100$$

(Adjusted to two decimal places)

- d. In the event of the composite bid scores are in tie, the bidder securing the highest technical score will be adjudicated as the Best Value Bidder for award of the Project.

2.31. Award Criteria - Contract will be awarded to the Vendor, whose combined score of Technical and commercial evaluation is highest.

2.32. Offer Validity Period - Offers against Tender should remain valid for 180 days from the date of Tender opening.

2.33. Right To Alter Items -The Purchaser reserves the right to alter the description and functionalities from the schedule of requirements specified in the tender. The purchaser reserves the right to vary specifications.

2.34. No Commitment To Accept Lowest Or Any Tender Offer –

- a. NIA shall be under no obligation to accept the best or any other offer, including those received late or incomplete offers, without assigning any reason whatsoever.
- b. NIA reserves the right to make any changes in the terms and conditions of the tender.
- c. NIA will not be obliged to meet and have discussions with any bidder, and or to listen to any representations.

2.35. Corrupt And Fraudulent Practices - The Purchaser will reject a proposal for award if it determines that Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.

Section V

General Terms and Conditions

1. **Duration to carry out the work order** – 6 weeks from the date of order.
2. **Governing Laws** – All Rules and Laws of Govt. of India as applicable.
3. **Performance Security Deposit -**
 - 3.1. The successful Supplier/ Bidder shall, within fifteen (15) days of the notification of Contract award, provide a Performance Security deposit for an amount of 10% of the value of the awarded contract.
 - 3.2. The proceeds of the Performance Security deposit shall be payable to the Purchaser as compensation for any loss (including loss of opportunity, time or cost) resulting from the Supplier's/ Bidder's failure to comply with its obligations under the Contract.
 - 3.3. Form of Performance Security deposit: Security Deposit in the form of cash will not be accepted. Performance Security may be furnished in the form of a Demand Draft, Fixed Deposit Receipt from a Commercial bank, Bank Guarantee from a Commercial bank in favour of NIA, payable at Jaipur, Bank Guarantee/FDR should be valid for a period of warranty.
 - 3.4. Refund of Performance Security Deposit: The Performance Security deposit shall be refunded after two months of the expiry of warranty period.
 - 3.5. Forfeiture of Performance Security deposit: Performance Security deposit shall be forfeited/invoked in the following cases: -
 - i. When any terms and condition of the contract is breached by the vendor/service provider.
 - ii. When the Supplier/ Bidder fails to commence supply or stops making the supplies or fail to provide deliverables after partially executing the purchase/ work order.
 - iii. When the supplied/application software installed does not perform to the purchaser's expectation and the supplier does not or is not able to set right the software or in case of services, the supplier/contractor fails to fulfill its obligation under the contract.
 - 3.6. No interest will be paid by NIA on the amount of earnest money and performance security deposit.
 - 3.7. Proper notice will be given to the Supplier/ Bidder with reasonable time before earnest money/ performance security deposit is forfeited.
 - 3.8. Forfeiture of earnest money / performance security deposit shall be without prejudice to any other right of NIA to claim any damages as admissible under the law as well as to take

such action against the Supplier/ Bidder such as severing future business relation or black listing, etc, as may be deemed fit.

4. **Confidentiality** - The Purchaser and the Supplier/ Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
5. **Sub-contracting** - Unless otherwise specified in the Contract, the bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of Purchasing Authority. If permitted, the bidder shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract. Subcontracts shall comply with the provisions of bidding document and/ or contract.

6. Specifications and Standards –

- 6.1. All articles supplied shall strictly conform to the specifications, trademark laid down in the tender form and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conforms to the specifications shall be final and binding.
- 6.2. Technical Specifications - The bidder should submit confirming the following:
 - i. Authorization letter from OEM / Technology partner
 - ii. Technology partner letter confirming ‘**Products quoted are not end of-life for the further period of at-least 6 years**’.
 - iii. Support including spares, Software upgrades shall be made available for at-least next 6 years

7. Commissioning and Operational Acceptance

- 7.1. Commissioning of the Project shall be commenced by the Bidder immediately after intimation of acceptance is issued by NIA.
- 7.2. The Bidder shall supply the operating and technical personnel and all materials required to carry out its obligations with respect to Commissioning of project.
- 7.3. The Operational Acceptance Tests shall be the primary responsibility of NIA, but shall be conducted with the full cooperation of the Bidder. During Commissioning of the WiFiNetwork to ascertain whether they conform to the requirements and meets the standard of performance quoted in the Bidder’s bid, including, but not restricted to, the functional and technical performance requirements.
- 7.4. If, for reason attributable to NIA, the Operational Acceptance Test of the installed system cannot be successfully completed within the period specified, from the date of Installation

or any other period agreed upon in writing by the Client and the Bidder, the Bidder shall not be held responsible for that.

7.5. If the supplied systems fails to pass the Operational Acceptance Test(s) then NIA may consider terminating the Contract to the risk and cost of Bidder.

8. Completion Time Guarantee

The Bidder and the company who owns the patent of the technology being offered shall guarantee that it shall complete the Commissioning of project within the time periods specified in the Implementation Schedule and/or Agreed and Finalized Project Plan or within such extended time to which the Bidder shall be entitled to.

9. Defect Liability

The Bidder and the company who owns the patent of the technology being offered shall give a warrant that all Services/Products to be delivered under this contract:

9.1. shall be free from defects in the design and workmanship

9.2. complies with or exceeds the Technical Specifications

9.3. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.

9.4. In addition, the Bidder and the company who owns the patent of the technology being offered shall warrant that: The Warranty Period shall commence from the date of Operational Acceptance of the WiFi system.

9.5. If during the Warranty Period any defect is found in the design, documentation, and workmanship of the Product/Services provided by the Bidder , the Bidder and the company who owns the patent of the technology being offered shall promptly, in consultation and agreement with the Client regarding appropriate remedying of the defects, and at its sole cost, repair, replace, or otherwise make good (as the Bidder shall, at its discretion, determine) such defect as well as any damage to the Products and/or Services caused by such defect.

10. Warranty

All goods/materials (including Cabling)/Labour work shall be supplied/carried out strictly in accordance with the specifications, drawings, datasheets, other attachments and conditions stated in the Bid/Order/LOI. All materials supplied by the Vendor shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials. The Vendor shall be responsible for the warranty support and also for the post warranty support and as required by the NIA.

10.1. In case of failure, the Vendor needs to replace or repair the faulty part/component/device to restore the services at the earliest **during the warranty period of 3 years from the date**

of acceptance of entire system with all subcomponents used in the project.

10.2. It is vendor's responsibility to keep the system in good working condition with minimum down time. Down Time should not be more than 30 minutes per Access Point per day at an average throughout the warranty. The system should be up for more than 98% in a Quarter.

10.3. Uptime for a quarter is calculated as under:

$$24 \text{ Hrs} \times 90 \text{ days (in a quarter)} = 2160 \text{ Hours}$$

10.4. The vendor is responsible for maintaining uptime as under:

- Network: Switches 99% uptime per Quarter (99% of 2160 Hours)
- Access Point: 98% uptime per Quarter (98% of 2160 Hours)

10.5. In case of equipment failure, the Vendor needs to replace or repair the faulty part/component/device to restore the services within 24 Hours during the warranty period of 3 years from the date of acceptance of entire system with all subcomponents used in the project.

10.6. Local office: Vendor/Contractor shall have Jaipur based local office with a full-fledged support facility. Vendor to give the list of the support staff and their capabilities along with technical bid.

10.7. The cost of the repairing or replacement of faulty part/component/device has to be entirely born by the Vendor.

10.8. In the event of default originating with the design, material arising at any time during the warranty period, the Vendor shall replace as may be necessary to ensure the material should function in accordance with the specification and to fulfil the foregoing Warranty without any delay.

10.9. The Vendor shall warrant that every work executed under the contract shall be free from all defects and faults in material, workmanship etc during warranty period.

10.10. In the event, the materials supplied do not meet the specifications and/or are not in accordance with the drawings data in terms of this order, and rectification is required at site, NIA shall notify the Vendor giving full details of difference. The Vendor shall attend the site on **Next Business Day (NBD)** of receipt of such notice to meet and agree with representatives of NIA, the action required to correct the deficiency. Should the Vendor fail to attend meeting at site within the time specified above, NIA shall be at liberty to rectify the work/materials and Vendor shall reimburse NIA all costs and expenses incurred in connection with such trouble or defect with appropriate penalty.

10.11. All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the Vendor during warranty period.

10.12. The Vendor also has to make alternate arrangement in case of major failure happening in the network, due to which services may be affected for longer period.

10.13. After repairing or replacement of the part/component/device, the Vendor needs to put the same into operation.

11. Penalty

In case of extension in the delivery and/ or installation/ completion period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of products and/ or service which the bidder has failed to supply or complete : -

S.No.	Condition	LD %
a.	Delay up to 7 days of the prescribed period of delivery, successful installation and completion of work	2.5
b.	Delay between 8-14 days of the prescribed period of delivery, successful installation and completion of work	5.0
c.	Delay between 15-21 days of the prescribed period of delivery, successful installation and completion of work	7.5
d.	Delay between 22-30 days of the prescribed period of delivery, successful installation and completion of work	10.0
e.	Delay more than 30 days	Termination of Contract
LD% - Liquidated Damage Charges in terms of percentage of the value of Contract.		

Any complaint to be addressed in the **Next Business Day (NBD)** and problems to be rectified within 24 Hours of reporting. In case the reported problem is not identified and rectified, a penalty of **0.1% of the Project Cost for per day of Delay subject to a Maximum of 10% of the project cost.** In case the %age of Penalty levied is more than 10% of the Total Project cost, then the following action will be initiated: **Termination of Contract.**

12. Disputes and Arbitration

The Jaipur courts shall have jurisdiction for any disputes and the venue for arbitration shall be Jaipur.

The Director, NIA reserves the right to cancel all/some, completely/partially any bid.

Annexure-I

Proforma of Technical Bid

1.	Name of Tendering Company/Firm/Agency	
2.	Name of Owner/Partners/Directors	
3.	Full Particulars of the Head Office	
(a)	Address	
(b)	Telephone No.	
(c)	Fax No.	
(d)	E-mail address	
4.	Full Particulars of the Local Office	
(a)	Name of Authorized Officer	
(b)	Address	
(c)	Telephone No.	
(d)	Fax No.	
(e)	E-mail address	
4.	Full Particulars of the Bankers of the Company/Firm/Agency, with full Address/Tel. No.	
(a)	Name of the Bank	
(b)	Address of the Bank	
(c)	Telephone No.	
(d)	Fax No.	
(e)	E-mail address	
5.	Registration Details:	
(a)	Copy of Firm/Agency's Registration No.	
(b)	PAN/GIR NO.	
(c)	GST Registration No.	
(d)	Aadhar No. of Owner/Partners/Directors	

6.	Details of Earnest Money Deposit	
(a)	Amounts (Rs.)	
(b)	DD/PO No. and Date	
(c)	Drawn on Bank	
(d)	Valid upto	
7.	Details of Tender Fee	
(a)	Amount	
(b)	DD/PO No.	
(c)	Drawn on Bank	
(d)	Valid up to	
8.	Annual Turnover of the Company/Firm/Agency for the last 3 years (With Proof duly certified by Chartered Accountant/Auditor) Last 03 Years balance sheet and copies of Income tax returns for 3 Years as stated in Terms & Conditions.	
	2016-2017	
	2017-2018	
	2018-2019	
9.	Copy of Authorization letter	
10.	Experience in the field for the minimum 1 Years	Similar running Contracts with Central Government Departments/Public Sector Undertakings/Autonomous Bodies/ State Government Departments.
11.	ISO Certificate (certificate also be attached)	

Date:
Place:

Signature of the Owner/Managing Partner/ Director of the Firm

Name:
Address/Tel.No.
Firm's Seal:

Annexure-II

Certificate (To be submitted with the Technical Bid)

The Annual Turnover of M/s. _____ for the last 3 years are given below and it is certified that the Statement is true and correct:

Sr.No	Year	Turnover Rs. In lacks
1.	2016-2017	
2.	2017-2018	
3.	2018-2019	
	Total	Rs. _____ lacks

Average Turnover Per Annum: Rs. _____ Lakhs.

Signature of Chartered
Accountant/Auditor
With Seal

Annexure-III

Check List

		PageNo.	Y/N.	Remarks
1	Name of Firm/Agency/Company (Attach certificates of registration with a brief profile of the Firm)			
2	Aadhar No. Proprietor/Director of Firm/Agency/Company			
3	Full address of Registered Office with Telephone No., FAX and E-Mail			
4	Full address of Local Branch Office with Telephone no., FAX and E-Mail			
5	Banker of Firm/Agency/Company with full address Telephone No., FAX and E-Mail.			
6	PAN/GIR No.			
7	GST Registration No. (certificate also be attached)			
	Certification/Accreditation/Affiliation (attach proof)			
	Quality Certification (attach proof)			
8	Firm/Agency/Company Registration Number			
9	Annual Report and Audited Balance sheet & Profit Loss Account for the last three financial years to be attached.			
10	Affidavit stating that the Firm/Agency/Company is / has not been black listed by C e n t r a l Government Departments/State Government/Statutory bodies/ Autonomous bodies/PSUs /Private Sector at any point of time.			
11	Minimum one Satisfactory performance certificate of PSUs / Private Sector during the last three years			
12	List of similar project minimum one similar project during the last 3 years of the value 5 Lakh.			
13	Acceptance of Terms and Conditions			
14	Demand Draft/ Pay order for Tender document fee (non- refundable) of Rs.1000/- (Rs. One Thousand only) attached (Name of bank, DD/Cash receipt (in case tender download from web site) Date and amount)			
15	Demand Draft/ Pay Order for EMD of 50,000 /- attached (Name of bank, DD/Pay Order No. Date and amount.			
16	ISO Certificate (certificate also be attached)			
17	Give full system configuration with diagram and detailed placement of each components/subsystems. The bidders should do a complete site survey and submit a site survey feasibility report.			

Signature of the Owner/Managing
Partner/ Director of the Firm

Date:

Name:

Place:

Address/Tel.No.

Firm's Seal: