



## NATIONAL INSTITUTE OF AYURVEDA

*Deemed To Be University(DE NOVO)*

*(An Autonomous Organization under the Ministry of AYUSH)*

*Jorawar Singh Gate, Amer Road, Jaipur 302002 (Rajasthan), India*

*www.nia.nic.in*

### Tender

### For

### Strengthening of Networking & Infrastructure

### At

### National Institute of Ayurveda, Jaipur

<b>NIT Issue Date :</b>	30 <sup>th</sup> November, 2021
<b>NIT No. :</b>	NIA/IT/2021/NETWORKING/01
<b>Last Date of Submission :</b>	17 <sup>th</sup> December, 2021 at 03:00 PM
<b>Bid opening :</b>	18 <sup>th</sup> December, 2021 at 03:15 PM
<b>Contact Person :</b>	Prof. Sanjeev Sharma Director, National Institute of Ayurveda.
<b>Cost of the Tender Document</b>	Rs 2500.00 (Rs. Two Thousand Five Hundred Only)
<b>Earnest Money Deposit :</b>	Rs 4,80,000 (Rs. Four Lacs Eighty Thousand Only) by Demand Draft in favour of Director, National Institute of Ayurveda, Jaipur payable at Jaipur.
<b>Fax No. :</b>	0141-2635816
<b>Telephone No. :</b>	0141-2635744 / 2636476 / 2636477
<b>Email ID. :</b>	nia-rj@nic.in, itincharge.nia@gov.in

**Note:** Tender documents may be downloaded from institute's website [www.nia.nic.in](http://www.nia.nic.in) (for Reference only) and **CPPP** site <https://eprocure.gov.in/eprocure/app>

**TABLE OF CONTENT**

<b>Sr.No</b>	<b>Section</b>	<b>Content</b>	<b>Page</b>
1.	Section I	Nivedan patra( निवेदन-पत्र )	3
2.	Section II	About NIA	4
3.	Section III	Tender Details	5
4.	Section IV	Terms and Conditions	26
5.	Section V	General Terms and Conditions	35
6.	Annexure-I	Proforma of Technical Bid	40
7.	Annexure-II	Certificate (To be submitted with the Technical Bid)	42
8.	Annexure-III	Check List	43

## Section I

Tender Cost By DD Rs. 1000/-

### Nivedan patra ( निवेदन-पत्र)

## राष्ट्रीय आयुर्वेद संस्थान

माधव विलास पैलेस, आमेर रोड़, जयपुर-302002

फर्म का नाम .....

.....

.....

### निविदा प्रपत्र

1. विषय : निविदा जिस कार्य/वस्तु के लिये दिया जा रहा है

उसका नाम : **Strengthening of Networking & Infrastructure**

निविदा की अनुमानित लागत 2,40,00,000 रुपये होगी । निविदा के साथ अनुमानित लागत की 2 प्रतिशत धरोहर राशि के रूप में रुपये 4,80,000/- का डिमाण्ड ड्राफ्ट निदेशक, राष्ट्रीय आयुर्वेद संस्थान, जयपुर के नाम जमा कराना अनिवार्य होगा )

2. निविदादाता का पूरा नाम : .....

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

4. निविदा शुल्क राशि ..... रुपये रसीद नं./डी.डी. नं. ....दिनांक .....संलग्न किया गया है ।

5. आयकर व बिक्रीकर चुकता प्रमाण पत्र संलग्न है/नहीं है ।

6. धरोहर राशि ..... रुपये रसीद नं./डी.डी. नं. ....दिनांक .....निदेशक, 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 हैं और इससे बाध्य रहेंगे।

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 Post Graduate 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. Strengthening Of Networking & Infrastructure Objectives

NIA wishes to set up the Networking & Infrastructure for the entire campus and thus providing high connectivity, scalable, reliable, secure and robust network architecture. We intend to build a new network for NIA that will provide latest technology benefits like data security, guaranteed application response, reliability etc. The network will also support multimedia, audio and video streaming and accessing other latest facilities which can be integrated in the future. High speed connectivity will be offered to various departments users across the whole campus.

The network infrastructure as well as the IT setup should offer minimal downtime due to failure or breakdown of links or devices and even for planned outages. The redundant network backbone shall ensure that there is no delay in the flow of information and data, irrespective of file size or amount of network traffic at any given point in time.

The network shall be scalable as well as flexible so that future expansions and enhancements can be made in keeping with the rapid growth of technology and growing demands. Future augmentations and expansions should not require forklift upgrades for any of the active components to be deployed now.

## Section III

### Tender Details

#### **Introduction**

National Institute of Ayurveda is in search for a Complete Solution to accomplish requirements of **Strengthen the Internal Internet Network System** 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 Strengthen the Internal Internet Network System for the purpose of higher reliability, speed and bandwidth to the end user of the campus and building within the National Institute of Ayurveda, Jaipur.

#### **1. Scope of Work**

- 1.1. Supply & Installation of all LAN components mentioned in BOQ Table below.
- 1.2. Approximately 1100 connections (terminals) inclusive of associated laying of conduit/channel/cable and IO points. The exact number of connections will be ascertained at the time of implementation.
- 1.3. The LAN cabling works must be carried out using a structured cabling design with proper labelling of cables at ends, crimping of cables, fixing of patch panels, and proper fixing of LAN cables in PVC conduits.
- 1.4. Wi-Fi facility should be available 24/7 without fail. The primary aim of Wi-Fi facility is to provide high speed internet access in all areas used by user in NIA Campus. Connectivity must be activated within 30 seconds.
- 1.5. 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.
- 1.6. Manage Operations and Maintenance (O & M) of Wi-Fi access points and associated network components.
- 1.7. Provide secure Wi-Fi internet access and back-end services as per committed.
- 1.8. Any structure, permanent or temporary, dismantled or destroyed during the execution of the work shall be refilled/remake or restore to its original condition by the bidder at his own cost.
- 1.9. Any extra electrical points and data points required in the server room shall be provided by the bidder at his own cost.
- 1.10. Detailed Bill of material included in this tender is given at Clause 3.0. However, NIA reserves the right for quantity variation due to increase/decrease in requirements. The bidder shall also provide all required equipment which may not be specifically stated herein but are required to meet the intent of ensuring completeness, maintainability and reliability of the total system covered under this specification, including integration and interoperability with the existing LAN.

## 2. Installation of LAN Cable and Wi-Fi system

National institute of Ayurveda is in search for a Complete Solution to accomplish requirements of High Speed LAN and 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 LAN Connection and 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 the campus by High Speed Wi-Fi Network this year.

This section describes the installation procedures and methods including survey, excavation of trenches and pits, trenchless digging for installation of HDPE pipes, marking, laying of underground cable, construction of manholes, splicing, termination.

### 2.1. Site Survey

Before execution of the work, the bidder shall carry out the required survey of the routes as per **Table-1, Table-2 and Map Layout-1**, Map for LAN, Wi-Fi laying at no additional cost. The bidder shall prepare the survey report of these routes in NIA grid map furnishing all distances, details regarding position of joint boxes, etc. The survey report shall have to be submitted by Bidder to NIA for approval and requisite clearances need to be obtained before the cable installation work is commenced by the Bidder. The installation/ shall be carried out as per the approved drawings. Route maps shall be drawn to the scale.

### 2.2. Laying of LAN and Wi-Fi Equipments

The selected bidder shall be required to conduct the survey, design of the network, lay OFC / Ethernet LAN cables, Switches and Wi-Fi access point etc. at the selected location and carry out all the activities to put the LAN infrastructure through. The bidder has to:

- 2.2.1. Lay Structured LAN cabling in the selected buildings as per requirement.
- 2.2.2. Install Rack, UPS, Switch OR other network equipment.
- 2.2.3. Conduit/Wiring/Fixing of Modular accessories for electrical wiring to supply electric power to LAN points.

## 3. Training and Documentation

- 3.1. The Bidder has to provide onsite training for at least 3 days to a team of NIA officers for handling the all network System.
- 3.2. The Bidder has to provide laying and installation documentation of LAN network system to NIA which should include the mapping with details of LAN network System.

## 4. Network Architecture

Bidder 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.

Bidder shall plan for high availability, reliability and redundancy of the access network elements to meet the requirements.

Bidder shall be responsible for backhaul connectivity provisioning using their network and related equipment at locations.

Bidder 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.

Bidder shall be responsible for providing and executing Cabling, testing etc. without affecting the aesthetics and user service of the NIA Campus.

## 5. Scope of NIA Work

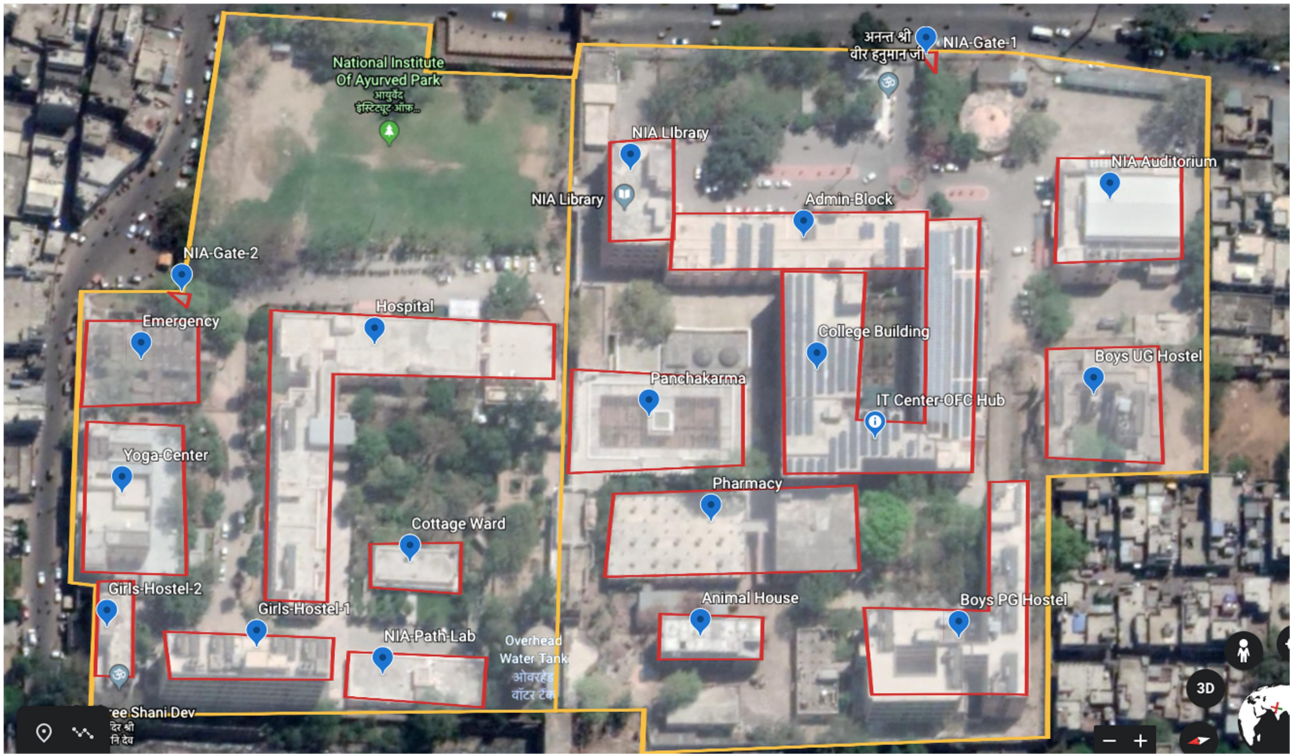
- 5.1. Supplying of continues electrical AC power shall be provided by N.I.A Dept. for each device locations as per actual requirement.
- 5.2. Complete system will be under one year warranty period which cover all kind of man made mistakes, technical faults and errors. Natural calamities, loss and thefts and forcefully damages shall not be cover under warranty norms.

<b>Table 1: LAN Point Station</b>	
<b>Sr. no</b>	<b>Station Name</b>
1	Admin-block
2	Hospital
3	College Building
4	Pharmacy
5	Boys UG Hostel
6	Boys PG Hostels
7	Girls Hostel 1
8	Girls Hostel 2

<b>Table 2 : Wi-Fi Point Station</b>	
<b>Sr. no</b>	<b>Station Name</b>
1	Admin-block
2	Hospital
3	College Building
4	Guest House



### Map Layout 1 – NIA Premises



### 6. “BOM” –Bill Of Material

Sno	Description	Qty	Unit
1	<b>24 Port 10GE SFP/SFP+ Fiber Central Layer-3 Switch</b>	2	Nos
2	<b>24 Port L3 Switch</b> with 24 x GE RJ45 ports, 4 x 10 GE SFP+	2	Nos
3	<b>24 Port L-2 Switch</b> with 24x GE port + 4x SFP+	60	Nos
4	<b>8 Port L2 POE Switch</b> with 8xGE + 2xSFP + 1xRJ45 console and with 130W POE Power Budget	18	Nos
5	<b>Wireless Access Point</b>	45	Nos
6	<b>SFP FIBER MODULE SM:</b> 10GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots	45	Nos
7	<b>Single Mode, outdoor Armoured 06 Core Fiber Cable</b>	1100	Mtr
8	<b>12 Port LIU loaded with SC SM Couplers</b>	20	Nos
9	<b>24 Port LIU loaded with SC SM Couplers</b>	2	Nos
10	<b>SC Pigtails PC Simplex Single Mode 9/125um</b>	425	Nos
11	<b>Single Mode, LC-SC Fiber Patch cords, 2 mtr</b>	50	Nos
12	<b>Single Mode, SC-SC Fiber Patch cords, 2 mtr</b>	10	Nos
13	<b>CAT6 UTP Cable, 23 AWG with Conduit</b>	50000	Mtr
14	<b>Cat6 I/O Jack, Face Plate, SMB</b>	1100	Nos
15	<b>Cat6 Patch cord, 1 mtr</b>	1100	Nos



16	<b>Cat6 Patch cord, 2 mtr</b>	1100	Nos
17	<b>Cat6, 24 Port Loaded Jack Panel</b>	60	Nos
18	<b>42U Floor standing Server Rack, with Coasters:</b> Width: 800 mm x Depth: 1000 mm with front perforated door, rear perforated door, side open able panels, all accessories (4 Air circulation Fan, PDU-Vertical-12 Socket-01, Cable Manager-Vertical-02, Cable Manager-Horizontal-08, light while opening the door, etc)	2	Nos
19	<b>18U Wall Mounted Rack:</b> with 600 MM Width / 500 MM Depth Rack with front glass door, Cable manager Horizontal 1U-2 No, PDU 6 points 5 amp- 1 No, Air Circulation Fan 230 vac - 01 No	5	Nos
20	<b>15U Wall Mounted Rack</b> with 600 MM Width / 500 MM Depth Rack with front glass door, Cable manager Horizontal 1U-2 No, PDU 6 points 5 amp- 1 No, Air Circulation Fan 230 vac - 01 No	17	Nos
21	32 MM HDPE pipe with nylon rope inside for cable pulling	200	Nos
22	25 MM ISI PVC Conduit pipe	4000	Mtr
23	32 mm x 20 mm PVC Trunking system for cable management including Bottom Base & Top Cover (legrand, MK, Schneider)	3000	Mtr
24	100 mm x 50 mm PVC Trunking system for cable management including Bottom Base & Top Cover (legrand, MK, Schneider)	2000	Mtr
25	<b>1 KVA online UPS for Racks</b>	24	Nos
26	PVC Pipe Laying in Existing Tray / Trunch / wall (with required all fitting accessories)	4000	Mtr
27	HDPE Pipe Laying in Existing Tray / Trunch / wall (with required all fitting accessories)	200	Mtr
28	Cat6 UTP Cable laying (per meter cable length)	50000	Mtr
29	OFC Cable laying (per meter cable length)	1100	Mtr
30	Fiber Core Splicing with OTDR Testing, per splice	425	Nos
31	Digging Soft as well as Hard Soil, as per site conditions (per meter)	100	Mtr
32	PVC 32 x 20 Trunking Installation over wall (with required all fitting accessories)	3000	Mtr
33	PVC 100 x 50 Trunking Installation over wall (with required all fitting accessories)	2000	Mtr
34	Rack Installation with required accessories	24	Nos
35	Punching / Crimping / Fixing / Termination / Dressing of points (per point) as per EIA/TIA 568B standards with PENTASCANNER REPORT (Testing of all individual points for cable length, cross talk, I/O & Jack Panel colour coding, attenuation, cable joint, etc)	1100	Nos
36	Project Implementation Charges	1	Nos
37	AMC per annum (after completion of One Year Warranty)	3	Nos

## 7. Material Detailed ITEM-WISE Specifications

### ITEM-1: 24 Port 10GE SFP/SFP+ Fiber Central Layer-3 Switch

Quoted Make		
Quoted Model		
S.No	Core 24 Port 10 Giga SFP Switch Specification	Compliance Yes / No
	Hardware Specifications:	
1	Switch - 24 x 1/10 GbE SFP+ ports	

2	The Switch should support 10 Giga SFP Modules	
3	Should support Dual hot swappable RPS from Day 1	
	System Specifications:	
4	Switching Capacity minimum 480 Gbps	
5	4K Vlan supported	
6	Total Link Aggregation Groups support Up to no of ports 24	
7	MAC Address Storage support for 128K	
	Layer 2 Features:	
8	Jumbo Frames and Auto-negotiation for port speed and duplex	
9	Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
10	Should support 802.1Q VLAN Tagging, Port Fast, Private	
11	VLAN and 802.3ad Link Aggregation with LACP.	
12	Dynamic Host Configuration Protocol (DHCP)	
13	Admin Authentication Via RADIUS and 802.1X authentication with auto VLAN assignment	
	Layer 3 Features:	
14	Layer 3 Static Routing and Port Mirroring	
15	Should support Dynamic Routing Protocols OSPFv2, RIPv2, VRRP	
16	Should support IGMP Snooping, DHCP Snooping	
17	Dynamic ARP Inspection	
18	Minimum 2K ACL entries	
	Management:	
19	Should support Telnet / SSH, HTTP / HTTPS, SNMP v1/v2c/v3 and SNTP.	
20	Standard CLI and web GUI interface and Software download/upload: TFTP/FTP/GUI	
	Certification:	
21	FCC Part 15 Class A, C-Tick, VCCI, BSMI, CE, UL/cUL, CB, RoHs (Any 3 at least)	
	Environment:	
22	Power required is not more than 100-240V AC - 50-60Hz	
23	Operating temperature: 32–104°F (0–40°C)	
24	Storage Temperature: -13–158°F (-25–70°C)	
25	Humidity: 10–90% RH non-condensing	

**ITEM-2: 24 Port L3 Switch**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.No</b>	<b>Core 24 Port Copper &amp; 4 Port 10G SFP Switch Specification</b>	<b>Compliance Yes / No</b>
	<b>Hardware Specifications:</b>	
1	Switch - 24 x GE RJ45 ports & 4 x 10 GE SFP+ ports.	
2	Should support RPS from Day 1	
	<b>System Specifications:</b>	
3	Switching Capacity 128 Gbps	
4	4K Vlan supported	
5	Total Link Aggregation Groups support Up to 8 ports	

6	MAC Address Storage support for 16K	
	<b>Layer 2 Features:</b>	
7	Jumbo Frames and Auto-negotiation for port speed and duplex	
8	Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
9	Should support 802.1Q VLAN Tagging, Port Fast, Private	
10	VLAN and 802.3ad Link Aggregation with LACP.	
11	Dynamic Host Configuration Protocol (DHCP)	
12	Admin Authentication Via RADIUS and 802.1X authentication with auto VLAN assignment	
	<b>Layer 3 Features:</b>	
13	Layer 3 Static Routing and Port Mirroring	
14	Should support Dynamic Routing Protocols OSPFv2, RIPv2, VRRP	
15	Should support IGMP Snooping, DHCP Snooping	
16	Dynamic ARP Inspection	
17	Minimum 1K ACL entries	
	<b>Management:</b>	
18	Should support Telnet / SSH, HTTP / HTTPS, SNMP v1/v2c/v3 and SNTP.	
19	Standard CLI and web GUI interface and Software download/upload: TFTP/FTP/GUI	
	<b>Certification:</b>	
20	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB, RoHs (Any 3 at least)	
	<b>Environment:</b>	
21	Power required is not more than 100-240V AC - 50-60Hz	
22	Operating temperature: 0-45 o C	
23	Storage Temperature: -40-70 o C	
24	Humidity: 5-90% non-condensing	

### ITEM-3: 24 Port L-2 Switch

Quoted Make		
Quoted Model		
S.No	24 Port Copper & 4 port 10G SFP Distribution Switch Specification	Compliance Yes / No
	<b>Hardware Specifications:</b>	
1	Switch - 24 x GE RJ45 ports & 4 x 10 GE SFP+ ports.	
	<b>System Specifications:</b>	
2	Switching Capacity 128 Gbps	
3	4K Vlan supported	
4	Total Link Aggregation Groups support Up to 8 ports	
5	MAC Address Storage support for 32K	
	<b>Layer 2 Features:</b>	
6	Jumbo Frames and Auto-negotiation for port speed and duplex	
7	Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
8	Should support 802.1Q VLAN Tagging, Port Fast, Private	
9	VLAN and 802.3ad Link Aggregation with LACP.	
10	Layer 3 Static Routing and Port Mirroring	

11	Dynamic Host Configuration Protocol (DHCP)	
12	Admin Authentication Via RADIUS and 802.1X authentication with auto VLAN assignment	
	<b>Management:</b>	
13	Should support Telnet / SSH, HTTP / HTTPS, SNMP v1/v2c/v3 and SNTP.	
14	Standard CLI and web GUI interface and Software download/upload: TFTP/FTP/GUI	
	<b>Certification:</b>	
15	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB, RoHs (Any 3 at least)	
	<b>Environment:</b>	
16	Power required is not more than 100-240V AC - 50-60Hz	
17	Operating temperature: 0-45 o C	
18	Storage Temperature: -20-70 o C	
19	Humidity: 10-90% non-condensing	

#### ITEM-4: 8 Port L2 POE Switch

Quoted Make		
Quoted Model		
S.No	08 Port PoE Switch Specification	Compliance Yes / No
	<b>Hardware Specifications:</b>	
1	Switch - 8x GE RJ45 and 2x GE SFP	
2	It should support 802.3af/at standards and POE Power Budget of 130W	
	<b>System Specifications:</b>	
3	Switching Capacity 20 Gbps	
4	4K Vlan supported	
5	Total Link Aggregation Groups support Up to 8 ports	
6	MAC Address Storage support for 8K	
	<b>Layer 2 Features:</b>	
7	Jumbo Frames and Auto-negotiation for port speed and duplex	
8	Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
9	Should support 802.1Q VLAN Tagging, Port Fast	
10	VLAN and 802.3ad Link Aggregation with LACP.	
11	Dynamic Relay	
12	Admin Authentication Via RADIUS and 802.1X authentication with auto VLAN assignment	
	<b>Management:</b>	
13	Should support Telnet / SSH, HTTP / HTTPS, SNMP v1/v2c/v3 and SNTP.	
14	Standard CLI and web GUI interface and Software download/upload: TFTP/FTP/GUI	
	<b>Certification:</b>	
15	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB, RoHs (Any 3 at least)	
	<b>Environment:</b>	
16	Power required is not more than 100-240V AC - 50-60Hz	
17	Operating temperature: 0-45 o C	
18	Storage Temperature: -40-70 o C	
19	Humidity: 10-90% non-condensing	

**ITEM-5: Wireless Access Point**

Quoted Make		
Quoted Model		
S.No	Access Point Specification	Compliance Yes / No
	<b>Architecture:</b>	
1	The Access Point should support IEEE 802.11a/b/g/n/ac/ax wave 2 and Wifi6 standards	
2	Should have at least 3 radios from day 1	
3	Should have 5 Internal Antennas + 1 Dedicate BLE	
4	Should have atleast 1 x 100/1000/2500 interface RJ45/SFP interface	
5	Should support Power over Ethernet (PoE) 802.3af/at from day 1	
6	Aggregated Radios Throughput: Minimum 1100 Mbps	
7	Support 4x4 MU-MIMO	
	<b>Mobility:</b>	
8	Should support L2 and L3 wireless controller discovery	
9	WME Multimedia Extensions support 4 priority queues for voice, video, data and background traffic	
10	Should support 16 Simultaneous SSIDs	
11	Support EAP-TLS EAP-TTLS/MSCHAPv2 EAPv0/EAPMSCHAPv2	
12	PEAPv1/EAP-GTC EAP-SIM EAP-AKA EAPFAST	
13	Should support Tx power of 22dBm or higher	
	<b>Management:</b>	
14	Solution should be managed by a Physical or Cloud Based Controller and the required licenses should be quoted from Day 1	
15	AP must be thin AP's & must not be available to manage standalone in any given condition.	
16	Should support web-based secured management GUI	
17	Support Wall mounting & ceiling mount options with included accessories from day 1	
	<b>Client per Radio:</b>	
18	At least 100 Clients per Radio	
	<b>Environment:</b>	
19	Operating Temperature: 32–113°F (0–45°C) / -31–94°F (-35–70°C)	
20	Humidity: 10-90% non-condensing	
21	Low Voltage Directive, RoHS complaint	

**ITEM-7: Single Mode, outdoor Armourd 06 Core Fiber Cable**

Quoted Make		
Quoted Model		
S.NO	06 Core Fiber Cable Specification	Compliance Yes / No

	<b>Type:</b>	
1	06 core OS2 (9/125 micron) Single mode, Loose Tube water blocking jelly, two steel wire as strengthening component , Steel tape armouring, outdoor optical Fiber cable	
	<b>Outer Jacket:</b>	
2	HDPE (High Density Polyethylene)	
	<b>Strength Members:</b>	
3	Two Steel wire	
	<b>Armouring:</b>	
4	Corrugated Steel tape armouring	
	<b>Moisture Protection:</b>	
5	Waterproof Tape	
	<b>Loose Tube construction:</b>	
6	Water blocking Jelly	
7	<b>Loose Tube Diameter:</b> 2.3mm	
8	<b>Cable Outer Diameter:</b> 8.5mm	
9	<b>Tensile Load:</b> 2000 N as per IEC 60794-1-2-E1	
10	<b>Crush Load:</b> 2000 N/100 mm as per IEC 60794-1-2-E3	
11	<b>Colour Code:</b> ANSI/TIA/EIA-598-B	
12	<b>Max attenuation:</b> <=0.34 dB per km@1310 nm, <= 0.20 dB per km@ 1550nm	
13	<b>Operating temperature:</b> - 20°C to 60°C	
14	<b>Weight:</b> 90 kg/km (approx.).	
15	<b>Standard Compliance :</b> ITU-T G.652.D Fiber, ISO/IEC 11801, ISO/IEC24702, ANSIANSI/TIA/EIA 568C.3, IEEE 802.3z Gigabit Ethernet, ROHS compliant Directive 2002/95/EC	
16	<b>Certification:</b> CE	

**ITEM-8: 12 Port LIU loaded with SC SM Couplers**

<b>Quoted Make</b>			
<b>Quoted Model</b>			
<b>S.NO</b>	<b>12 Port LIU loaded with SC SM Couplers Specification</b>		<b>Compliance Yes / No</b>
1	<b>Type:</b>	19” Easy Front Access (EFA) Sliding Rack Mount SC Duplex type.	
2	<b>Material:</b>	Cold rolled carbon sheet steel with electrostatic spraying	
3	<b>Size:</b>	1U= Total. 24 Port SC port	
4	<b>Adaptor plate Mounting:</b>	4 nos of plate module can be accomadated	

5	<b>Environment Temperature:</b>	Relative: 40 °C to +80 °C	
6	<b>Intensity:</b>	≤15kv(DC) /1min.no spark-over and no flying arc	
7	<b>Fibre Bending Radius:</b>	≥40 mm	
8	<b>Clamps:</b>	Cable clamps on the inner surface for fixing cables.	
9	<b>Splice tray type:</b>	Fixed type Splice tray to access pigtails available	
10	<b>Lock:</b>	Lockable front door on front with push button	
11	<b>Easy Front Access:</b>	Sliding patch panel for easy rework and maintenance.	
12	<b>Standard Compliance:</b>	EN 61587-1, Equipment - Tests for IEC 60917 and IEC 60297,	
13		Climatic and Environment: EN 61587-1/4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30, Earth Bond: EN61587-1/6.2, Flammability: EN61587-1/6.3, RoHS	
14	<b>Certification:</b>	CE	

**ITEM-9: 24 Port LIU loaded with SC SM Couplers**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>24 Port LIU loaded with SC SM Couplers Specification</b>	<b>Compliance Yes / No</b>
1	<b>Type:</b> SC Single Mode OS2, Duplex	
2	<b>Sleeves:</b> Phosphor Bronze	
3	<b>Adaptor Material:</b> High Impart flame retardant thermoplastic UL94-V0	
4	<b>Capillarydiameter tolerance:</b> 126 ± 0.5 µm (SM)	
5	<b>Operating Temperature:</b> -40 °C to +75 °C	
6	<b>Mating durability:</b> > 500 Mating Cycles	
7	<b>Insert. Loss/Adaptor:</b> Single Fibre: 0.2 dB Max. (0.15 dB typ.)	
8	<b>Pull strength:</b> ≥ 98 N	
9	<b>Standard Compliance:</b> IEC 61300-2-18, IEC 61300-2-19, IEC 61300-2-1, IEC 61300-2-2	
10	<b>Certification:</b> CE	

**ITEM-10: SC Pigtails PC Simplex Single Mode 9/125um**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>SC Pigtails PC Simplex Single Mode 9/125um Specification</b>	<b>Compliance Yes / No</b>
1	<b>Type:</b>	



	SC Single mode , 1.5 meter	
2	<b>Fiber Type:</b> Single Mode OS2, ITU-T G.652.D	
3	<b>Tight buffered:</b> 900µm	
4	<b>Jacket:</b> Low Smoke Zero Halogen (LSZH)	
5	<b>Flame Test:</b> IEC 60332-1	
6	<b>Other LSZH standard:</b> IEC 60754, IEC 61034	
7	<b>Crush Load:</b> 800 N	
8	<b>Impact:</b> 0.2 Nm	
9	<b>Bend Radius:</b> 50mm (min)	
10	<b>Operating Temperature:</b> -10°C to +70°C	
11	<b>Max attenuation:</b> <=0.34 dB per km@1310 nm, <= 0.20 dB per km@ 1550nm	
12	<b>Standard Compliance:</b> ITU-T G.652.D Fiber, ISO/IEC 11801, EN50173 -1, ANSI TIA/EIA 568B	
13	<b>Certification:</b> CE	

**ITEM-11: Single Mode, LC-SC Fiber Patch cords, 2 mtr**

**ITEM-12: Single Mode, SC-SC Fiber Patch cords, 2 mtr**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>Single Mode, LC-SC/SC-SC Fiber Patch Cords Specification</b>	<b>Compliance Yes / No</b>
1	<b>Type:</b> SC-LC/SC-SC Duplex type, 2 meter	
2	<b>Fiber Type:</b> Single Mode OS2, ITU-T G.652.D	
3	<b>Jacket:</b> Low Smoke Zero Halogen (LSZH)	
4	<b>Flame Test:</b> IEC 60332-1	
5	<b>Other LSZH standard:</b> IEC 60754, IEC 61034	
6	<b>Durability:</b> 500 cycles (0.2 dB max increase), 1000mate/demate cycles	
7	<b>Operating Temp:</b> -20 °C to +70°C	
8	<b>Ferrule Concentricity:</b> < 1µm, Other Ferrule Concentricity < 1µm	
9	<b>Max attenuation:</b> <=0.34 dB per km@1310 nm, <= 0.20 dB per km@ 1550nm	
10	<b>Insert. Loss/Adaptor:</b> Single Fibre: 0.2dB Max. (0.15dB typ.)	
11	<b>Pull strength:</b> ≥ 98 N	

12	<b>Standard Compliance:</b> Telcordia (formerly Bellcore) GR-326-CORE, IEC 874-1, ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC, EN 50173, ITU-T G.652.D , RoHS	
13	<b>Certification:</b> CE	

**ITEM-13: CAT6 UTP Cable, 23 AWG**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>CAT6 UTP Cable, 23 AWG Specification</b>	<b>Compliance Yes / No</b>
1	<b>Type:</b> Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801	
2	<b>Conductors:</b> 23 AWG solid bare copper	
3	<b>Insulation:</b> High Density Polyethylene	
4	<b>Jacket:</b> FRPVC	
5	<b>Pair Separator:</b> Cross-member (+) fluted Spline	
6	<b>Operating temperature:</b> -10 °C to +65 °C	
7	<b>Frequency:</b> Tested up to Minimum 250 MHz	
8	<b>Packing Box:</b> 305 Meters/Box	
9	<b>Cable Outer Diameter:</b> 6.3 +/- 0.4 mm	
10	<b>Bend Radius:</b> 8 * Cable Diameter	
11	<b>Mutual Capacitance:</b> 5.6 nF MAX /100 Mtr	
12	<b>Max. Tensile strength:</b> 110N	
13	<b>Performance characteristics:</b> Performance characteristics to be provided along with bid Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR	
14	<b>Standard Compliance:</b> ANSI/TIA-568 C.2 category 6, ISO/IEC-11801, Class E/ IEC 61156-5: category 6	
15	<b>Certification:</b> UL,CE,ETL,ETL Channel Test	

**ITEM-14: Cat6 I/O Jack, Face Plate, SMB**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>Cat6 I/O Jack, Face Plate, SMB Specification</b>	<b>Compliance Yes / No</b>

1	<b>Material:</b> High Impact, Flame-Retardant Plastic Compound, UL 94 V-0	
2	<b>Type:</b> Category 6 Punch down Keystone Jack	
3	<b>Insertion/Extraction life:</b> 750 cycle minimum	
4	<b>Jack Contact Material:</b> 50µ" Nickel over gold	
5	<b>Conductor Compatibility Range:</b> 22-26AWG solid cable	
6	<b>Cable Orientation:</b> 180 degree	
7	<b>Insulation resistance:</b> 500 M ohm (min)@100 Vdc	
8	<b>Voltage rating:</b> 72Vdc max	
9	<b>Contact Resistance:</b> 20 M ohm (max) per contact	
10	<b>Retention:</b> 50N	
11	<b>Flammability Rating:</b> UL 94V-0	
12	<b>Safety Rating:</b> UL1863	
13	<b>Colour Coding:</b> As Per 568 A/B Standards	
14	<b>Termination Tool:</b> Accept 110 style termination tool	
15	<b>Standards Compliance:</b> ANSI/TIA-568-C.2, ISO/IEC-11801, EN50173-1	
16	<b>Certification:</b> UL, CE	

**ITEM-15, ITEM-16 : Cat6 Patch cord, 1 mtr, Cat6 Patch cord, 2 mtr**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>Cat6 Patch cord, 1 mtr and 2 mtr Specification</b>	<b>Compliance Yes / No</b>
1	<b>Wiring:</b> 24 AWG Stranded, Unshielded Polycarbonate plug, Gold over Nickel Contacts	
2	<b>Wire Insulation:</b> SFS PE	
3	<b>Jacket:</b> Low Smoke Zero Halogen (LSZH)	
4	<b>Length:</b> 1/2 meter	
5	<b>Bend Radius:</b> 23mm without load	
6	<b>Flame Test:</b> IEC 60332-1	
7	<b>Other Rating:</b> IEC 60754, IEC 61034	
8	<b>Tensile Strength:</b> 96N min	
9	<b>Durability:</b> 1000 Mating Cycles	

10	<b>Propagation Delay:</b> 1-250MHz: < 25 ns/100m	
11	<b>Contact resistance:</b> 20 MΩ max	
12	<b>Standards Compliance:</b> ANSI/TIA-568-C.2 and ISO/IEC-11801 (2nd Edition), IEC 61156-2, EN 50173; EN 50288-6-2 Category 6 standard	
13	<b>Certification:</b> CE	

**ITEM-17 : Cat6, 24 Port Loaded Jack Panel**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>Cat6, 24 Port Loaded Jack Panel Specification</b>	<b>Compliance Yes / No</b>
1	<b>Material:</b> Powder Coated Steel	
2	<b>Ports:</b> 24 Port	
3	<b>Size:</b> 483mm X 44.2mm (1U)	
4	<b>Colour:</b> Black background with white screened markings	
5	<b>Temperature:</b> - 20 C to 60 C	
6	<b>Humidity:</b> 0-90% non-condensing	
7	<b>Compatible:</b>	Compatible with both T568A and T568B wiring options.
		Backward compatible with Category 5e cabling standards
8	<b>AWG Support:</b> Supports solid 22-24 AWG wires and stranded 24-26 AWG	
9	<b>Connector Module Holder:</b> High Impact, Flame-Retardant Plastic Compound	
10	<b>Flammability Rating:</b> UL 94V-0	
11	<b>Safety Rating:</b> UL1863	
12	<b>Identification:</b> Each port of the panel is numbered and has a designated label area for clear port identification	
13	<b>Cable Management:</b> Rear cable management bar which should act as stress reliever for terminated cables	
14	<b>IDC connects:</b> IDC contacts providing secure, gas tight connection	
15	<b>Termination Tool:</b> 110 style termination tool	
16	<b>Re Termination:</b> Connect Re termination up-30	

17	<b>Standards Compliance:</b> ANSI/TIA/EIA-568-B.2-10, IEC/ISO-11801 Class E, ISO/IEC 11281, IEC 60603-7, TIA-968-A (formerly FCC Part 68 Subpart F)	
18	<b>Certification:</b> UL, CE	

**ITEM-18 : 42U Floor standing Server Rack**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>42U Floor standing Server Rack Specification</b>	<b>Compliance Yes / No</b>
1	<b>Rack Standard:</b> Conforms to DIN 41494 or equivalent standard	
2	<b>Construction:</b> Welded Frame	
3	<b>Front Door:</b> Lockable Toughened Glass Door, Steel Single, Steel Dual	
4	<b>Basic Frame:</b> Steel	
5	<b>Equipment Mounting:</b> DIN Standard 10mm Sq. Slots / Direct M6 Tap	
6	<b>Mounting Angle:</b> 19" Mounting angles made of formed steel Standard	
7	<b>Finish:</b> Powder Coated	
8	<b>Top and Bottom Cover:</b> Welded to Frame, Vented and Field Cable entry exit cut outs	
9	<b>Mounting Option:</b> Castor wheels (Front 2 wheels with Brakes and rear without brakes) Or Levelers Or Base plinth Standard	
10	<b>Color:</b> Black or Grey	
11	<b>Static Load:</b> 500+ Kgs	

**ITEM-19 : 15U Wall Mounted Rack**

<b>Quoted Make</b>		
<b>Quoted Model</b>		
<b>S.NO</b>	<b>15U Wall Mounted Rack Specification</b>	<b>Compliance Yes / No</b>
1	<b>Rack Standard:</b> Conforms to DIN 41494 or equivalent standard	
2	<b>Construction:</b> Welded Frame	
3	<b>Front Door:</b> Lockable Toughened Glass Door, Steel Single, Steel Dual	

4	<b>Basic Frame:</b> Steel	
5	<b>Equipment Mounting:</b> DIN Standard 10mm Sq. Slots / Direct M6 Tap	
6	<b>Mounting Angle:</b> 19" Mounting angles made of formed steel Standard	
7	<b>Finish:</b> Powder Coated	
8	<b>Top and Bottom Cover:</b> Welded to Frame, Vented and Field Cable entry exit cut outs	
9	<b>Mounting Option:</b> Castor wheels (Front 2 wheels with Brakes and rear without brakes) Or Levelers Or Base plinth Standard	
10	<b>Color:</b> Black or Grey	
11	<b>Static Load:</b> 500+ Kgs	

**ITEM-28 : Cat6 UTP Cable laying (per meter cable length)**

Quoted Make		
Quoted Model		
S.NO	Cat6 UTP Cable laying Specification	Compliance Yes / No
1	<b>Type:</b> Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801	
2	<b>Conductors:</b> 23 AWG solid bare copper	
3	<b>Insulation:</b> High Density Polyethylene	
4	<b>Jacket:</b> FRPVC	
5	<b>Pair Separator:</b> Cross-member (+) fluted Spline	
6	<b>Operating temperature:</b> -10 °C to +65 °C	
7	<b>Frequency:</b> Tested up to Minimum 250 MHz	
8	<b>Packing Box:</b> 305 Meters/Box	
9	<b>Cable Outer Diameter:</b> 6.3 +/- 0.4 mm	
10	<b>Bend Radius:</b> 8 * Cable Diameter	
11	<b>Mutual Capacitance:</b> 5.6 nF MAX /100 Mtr	
12	<b>Max. Tensile strength:</b> 110N	

13	<b>Performance characteristics:</b> Performance characteristics to be provided along with bid Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR	
14	<b>Standard Compliance:</b> ANSI/TIA-568 C.2 category 6, ISO/IEC-11801, Class E/ IEC 61156-5: category 6	
15	<b>Certification:</b> UL,CE,ETL,ETL Channel Test	

**ITEM-25: 1 KVA online UPS**

Quoted Make		
Quoted Model		
S.No	1 KVA online UPS	Compliance Yes / No
1	1 KVA Online UPS pure sinewave, BT Based Rectifier True Online Double Conversion, Wide input voltage range: 60~300VAC @ 100%, load(linearly derating to 50% load @ 100VAC input).	
2	Generator Compatible with Wide Input voltage window	
3	Double Conversion Efficiency >91% & ECO mode efficiency up to 98%	
4	100% load @ 0~40C operating temp.	
5	Active Input Power Factor Correction 0.99.	
6	O/P power factor 0.9 (O/P power factor 0.8 for long backup model)	
7	Inbuilt OVCD (Over Voltage Cut-off device)	
8	Fully conform coated PCBA adaptable to harsh environment	
9	Offer terminal blocker on 2K/3K rating to connect to big capacity equipment	
10	Digital Charger Technology provide 02-10 A charging current.	
11	Easy understanding LCD for convenient installation setup. Total 1512VAH. With battery stand and interlink cable.	
12	WINPOWER software support virtualization transfer application Intelligent Monitoring options.	

**Note:**

1. Approved makes for all Active Components: CISCO, Juniper, Ruckus, Extreme, Meraki, Fortinet. All active components Like Network Switches, PoE switches, Wireless Access Point and related SFP Fiber modules, etc must be of same single OEM.
2. Approved makes for all Passive Cabling Components: Molex, LEGRAND, COMMSCOPE, Panduit, NORDEN. All passive components must be of same single OEM.
3. Approved makes for UPS: APC, EATON, GE, Mitsubishi.
4. The Bidder has to submit authorization certificates from the OEM of Active Components authorizing the Bidder to quote for this tender with stating the specific Name of work with Tender Number. Without OEM MAF, tender will not be considered.
5. The Bidder has to submit authorization certificates from the OEM of Passive Cabling Components authorizing the Bidder to quote for this tender with stating the specific Name



of work with Tender Number. Without OEM MAF, tender will not be considered. Bidder must be certified Cabling System Integrator specific from the respective OEM – whose authorisation he is submitting with the tender (necessary Certified Cabling SI Certificate must be submitted with the tender). After completion of work, contractor has to submit all Copper Test Fluke Penta scanner reports to the department with 20/25 years of Performance Warranty Certificate of Copper Points from respective OEM.

6. The Bidder has to submit authorization certificates from the OEM of UPS, authorizing the Bidder to quote for this tender with stating the specific Name of work with Tender Number. Without OEM MAF, tender will not be considered.
7. The Bidder should take adequate precaution and extra care while carry out the work. In case of any damage or breakage or disruption of the existing property/infrastructure of the institute, the bidder has to repair and restore it at the earliest on own cost.
8. As per the importance of site location, bidder has to submit proof of registered service centre placed at Jaipur for immediate support during any break down. This service center should have At least one hardware engineer, one networking engineer on their payroll As a proof, bidder has to submit Jaipur office address, and undertaking by authorized signatory that above technical staff is on their payroll .
9. As this is working Institution, bidder need to visit the site and inspect accordingly before bidding. All type of cable laying with required digging / excavation / moiling with required civil repair work is in the scope of Bidder. All type of user required installations & configurations are also in the scope of Bidder. If any licensing or software is required that is also in the scope of Bidder. Bidder has to maintain all support of Hardware & configuration to the end user at site location during Warranty period & AMC period. During Warranty & AMC period, bidder has to depute Network specialized person, who is compatible to handle the above tasks during all working days and he should be physically available at site location.
10. System Configuration Detailed Design: Vendor should give full system configuration giving diagram and detailed placement of each components/ sub systems along with technical bid.
11. 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 layout, diagrams.

## **8. Inspection and Acceptance**

Acceptance Test will be conducted as follows:

- 8.1. The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 8.2. 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.

- 8.3. The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the Equipment / Material.
- 8.4. Any delay (**refer to Schedule 11 of Section II for Completion of Tasks**) by the Bidder shall render the Bidder liable to the imposition of appropriate Penalties.
- 8.5. All goods and services should have approval of TEC with ISI or other certification, as applicable, to prove the quality standards applicable in India.
- 8.6. Bidder 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 bidder shall use their own tools, equipment. NIA will not provide any test instrument/tools.
- 8.7. Final payment will be made after satisfactory testing, commissioning and acceptance of the complete system.
- 8.8. The system will be considered as installed and accepted only after successful uninterrupted operation of the entire system at site for period of minimum 3 days.

## **9. Annual Maintenance Contract**

- 9.1. The bidder should enter into a comprehensive AMC for 3 years from the date of expiry of the warranty period of 1 year (from the date of Final Acceptance Test of the LAN Networking system).
- 9.2. Annual Maintenance Contract amount will be paid on half yearly basis.
- 9.3. Monthly Routine and Breakdown LAN Networking system Maintenance.
- 9.4. LAN Networking system should be up for more than 99% in a Quarter.
- 9.5. In case the system downtime is less than 99% in a quarter, a penalty as admissible and mentioned in **Schedule 11 of Section IV** will be imposed.
- 9.6. Uptime for a quarter is calculated as under:

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

- 9.7. 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 Bidder.
- 9.8. All expenses related to part/component/device, including hiring of specialized technical expertise, in case required, has to be borne by the Bidder during AMC period.
- 9.9. The Bidder 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 Bidder needs to put the same into operation.

## 10. Schedule for completion of tasks

The selected bidder would be required to Drilling, Digging, levelling, cabling, Install, Commission, test and operationalize the Networking & Infrastructure within 10 weeks of the issue of PO as per the following schedule:

Sr. No.	Task	Schedule
1.	Installation of the LAN, Access Point and Switches and other networking Devices, Testing & acceptance of the system, Operationalize	10 weeks

## Section IV

### Terms and Conditions

#### 1. Qualification Criteria

- 1.1. The Bidder 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 should have at least **Five year** experience in same field business. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.3. The Bidder should have average turnover of Rs. 5 Crore in the last 3 years (2017-18, 2018-19 and 2019-20) in similar business. Chartered Accountant Certified Balance Sheets of these last 3 years should be attached with Technical Bid.
- 1.4. The Bidder should have implemented at least one similar work during the last 3 years of the value of at least INR 50 lakhs (Minimum ONE Government Organization / PSU / PSE). Self-certified legible copy of supporting document should be attached with technical bid.
- 1.5. The Bidder has completed at least 2 years AMC of such networking (installations worth minimum value of 50 Lakhs) during last 5 Years. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.6. The Bidder should possess a valid GST number and should attach a self-certified copy of the same.
- 1.7. The Bidder 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/statutory 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.
- 1.8. The bidder should have an established development set up in India. The bidder should submit a Signed Authorization letter from OEM / Technology partner.
- 1.9. If the Bidder has a valid ISO 9001:2015 certificates, it should attach a self-certified copy of the same.
- 1.10. The Bidder should have implemented at least one Satisfactory Service Certificate during the last 3 years of the value of at least INR 50 lakhs. Self-certified legible copy of supporting document should be attached with technical bid.
- 1.11. Affidavit stating that the Firm/Agency/Company is / has not been black listed by Central Government Departments/State Government/Statutory bodies/ Autonomous bodies/PSUs /Private Sector at any point of time

## 2. Instruction to the bidders

- 2.1. **Location For Supply Of Goods And Services And Installation** – Locations mentioned in Table-1, Table-2 and Diagram-1.
- 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 can inspect and do the site survey during the 2<sup>nd</sup> December 2021 to 12<sup>th</sup> December 2021 and 10 Am to 4 PM. The contact person for such inspection will be **Mr. Arvind Pareek and Mr. HariNarayan Meena of IT Department.**
- 2.4. The Bidder has to prepare and attach Lay out Drawings of the Networking stations connecting to the respective Inter-Station Connection 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 / travelling 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 bidder, 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. 4,80,000/- (Rupees Four lakh Eighty 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 back 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 provided along with Technical Bid) Registration proof and Udyog Aadhar Certificate should be enclosed with Technical Bid.
- iii. Bidders are not allowed to submit more than one bid anytime during the tendering process for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition to the forfeiture of the EMD.
- iv. 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 EMD.
- v. EMD is required to protect the purchaser against the risk of Bidders conduct. The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.
- vi. The EMD/PBG shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.

## 2.12. Submission of Tender :

The tender shall be submitted online in two part, viz., technical bid and financial bid(BOQ). 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 Bidder shall quote the Technical and Financial Bids as per the format enclosed with tender document. **The Bidders should submit their all relevant documents (Technical bid document and EMD proof etc.) before last date and time of bid submitio.**

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

## 2.13. Technical Bid

All pages of the Tender should be numbered and indexed. The bidder shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully confirm to the goods and services specified by the purchaser in the tender documents. For this purpose, the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the tender

documents to establish technical responsiveness of the goods and services offered in its tender duly indicating relevant page numbers in the product literature.

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 bidders are required to submit user certificate for the relevant equipment on the letter head of the institution (Government/ Private)
- iv. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.
- v. **Manufacturer Authorization:** The bidder (if not original equipment manufacturer must submit Original Equipment Manufacturer authorization certificate that the tenderer is authorized for selling and maintain the equipment quoted for.
- vi. The technical offer shall be submitted in the Format given by NIA in this Tender Document.
- vii. 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 BOM.
- 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 Bidder to clearly identify all costs associated with any item or series of items in this Tender document. The Bidder must include and complete all parts of the cost Proposal in a clear and accurate manner. Omissions, errors, misrepresentations, or inadequate details in the Bidder's cost proposal will be considered as valid ground for rejection of the Bidder's proposal. Costs that are not clearly identified will be borne by the Bidder

### **Schedule of price bid in the form of BOQ\_XXXX.xls**

The below mentioned price bid format is provided as BoQ\_XXXX.xls along with this Tender Enquiry Document at <https://eprocure.gov.in/eprocure/app> . Bidders are advised to download this BoQ\_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid. Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered /modified in any manner, tender will be completely rejected and tenderer is liable to be banned from doing business with NIA, Jaipur.

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

**2.16.**The EMD will be refunded to:

- i. The successful bidder, only after furnishing an unconditional and irrevocable Performance Bank Guarantee for 3% of the contract value or after submitting an undertaking for not demanding 3% payment one year after project completion.
- ii. The unsuccessful bidders, only after acceptance of the "Letter of Appointment" by the selected bidder.

**2.17. 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.

**2.18. 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.

**2.19. Only One Submission Permitted** - Only one submission of response to tender by each Bidder will be permitted. All submissions, including any Banking documents, will become the property of NIA.

- 2.20. **Clarification Of Offer** – To assist in the scrutiny, evaluation and comparison of offer, the Purchaser may, at its discretion, ask some or all bidders 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.
- 2.21. **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.
- 2.22. 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 60%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%.
- 2.23. 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.
- 2.24. The total score, both technical and financial, shall be obtained by weighing the quality and cost scores and adding them up.
- 2.25. **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.
- 2.26. **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.

<b>TECHNICAL EVALUATION PARAMETERS</b>		
<b>Marks Distributions:(Maximum 100)</b>		
<b>Minimum Marks to obtained for Technical Qualification - 60</b>		
<b>Criteria</b>	<b>Criteria Points</b>	<b>(Max Marks)</b>
<p>1. The bidder should have implemented minimum one similar project during the last 3 years of the value 50 Lakhs.</p> <p>a. For 6 or more of these projects with minimum value of 50 Lakhs each in last three years.</p> <p>b. For 5 or more of these projects with minimum value of 50 Lakhs each in last three years.</p> <p>c. For 4 of these projects with minimum value of 50 Lakhs each in last three years.</p> <p>d. For 3 of these projects with minimum value of 50 Lakhs each in last three years.</p> <p>e. For 2 of these projects with minimum value of 50 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 during the last 5 years, minimum value of 50 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. Satisfactory Services Certificate from Client where Bidder has completed at least 2 years AMC of such networking (installations worth minimum value of 50 Lakhs) during last 5 Years.</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>15</p> <p>12</p>	<p>Max Mark 15</p>

d. Satisfactory Services Certificate by 2 Clients	9	
e. Satisfactory Services Certificate by 1 Clients	6	
	3	
4. Track of being in the Business for at least 05 years:		
a. Being in the Business for more than 18 years or more	15	Max Mark 15
b. Being in the Business for 16 to 18 years	12	
c. Being in the Business for 13 to 15 years	9	
d. Being in the Business for 9 to 12 years	6	
e. Being in the Business for 5 to 8 years	3	
5. Average Turnover of Last 03 years:		
a. More than 15 Crore	15	Max Mark 15
b. More than 12.5 Crore to 15 Crore	12	
c. More than 10 Crore to 12.5 Crore	9	
d. More than 7.5 Crore to 10 Crore	6	
e. More than 5 Crore to 7.5 Crore	3	
6. LAN ( <b>Table 1</b> ) and Wifi ( <b>Table 2</b> ) Drawing of each Location Given in Tables	25	Max Mark 25
a. Layout plan of each of the Locations		

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

**2.28.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.

### **2.29.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.

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

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

**2.32. 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.

**2.33. 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.

**2.34. 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** – 10 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 (10) days of the notification of Contract award, provide a Performance Security deposit for an amount of 3% 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 bidder/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 5 years**’.
  - iii. Support including spares, Software upgrades shall be made available for at-least next 5 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 LAN Network System 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 fail 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 LAN Network 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 Bidder shall be guaranteed to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials. The Bidder 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 Bidder needs to replace or repair the faulty part/component/device to restore the services at the earliest during the warranty period of 1 years from the date of acceptance of entire system with all subcomponents used in the project.

10.2. It is bidder's responsibility to keep the system in good working condition with minimum down time. Down Time should not be more than 30 minutes at an average throughout the warranty. The system should be up for more than 99% in a Quarter.

10.3.Uptime for a quarter is calculated as under:

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

10.4.The bidder is responsible for maintaining 99% uptime per Quarter:

10.5.In case of equipment failure, the Bidder 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: Bidder/Contractor shall have Jaipur based local office with a full- fledged support facility. Bidder 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 Bidder.

10.8.In the event of default originating with the design, material arising at any time during the warranty period, the Bidder 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 Bidder 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 Bidder giving full details of difference. The Bidder 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 Bidder fail to attend meeting at site within the time specified above, NIA shall be at liberty to rectify the work/materials and Bidder 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 Bidder during warranty period.

10.12.The Bidder 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 Bidder 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
<b>LD% - Liquidated Damage Charges in terms of percentage of the value of Contract.</b>		

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. Payment of bills :

Payment will be made after the completion of all works subject to the satisfaction of the Bank. All payments will be made only by electronic fund transfer. The proforma for electronic payment shall be submitted along with the tender as per annexure. The contractor shall be entitled to receive payment on the basis of joint measurements taken on site, installation and commissioning, approved and certified by the Bank Officials regarding compliance with specifications and acceptability subject to deductions.

12.1. Income tax deduction at source TDS, GST-TDS or any other taxes as per prevailing.

## 13. 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

<b>1.</b>	<b>Name of Tendering Company/Firm/Agency</b>	
<b>2.</b>	<b>Name of Owner/Partners/Directors</b>	
<b>3.</b>	<b>Full Particulars of the Head Office</b>	
(a)	Address	
(b)	Telephone No.	
(c)	Fax No.	
(d)	E-mail address	
<b>4.</b>	<b>Full Particulars of the Jaipur Office</b>	
(a)	Name of Authorized Officer	
(b)	Address	
(c)	Telephone No.	
(d)	Fax No.	
(e)	E-mail address	
<b>4.</b>	<b>Full Particulars of the Bankers of the Company/Firm/Agency, with full Address/Tel. No.</b>	
(a)	Name of the Bank	
(b)	Address of the Bank	
(c)	Telephone No.	
(d)	Fax No.	
(e)	E-mail address	
<b>5.</b>	<b>Registration Details:</b>	
(a)	Copy of Firm/Agency's Registration No.	
(b)	PAN/GIR NO.	
(c)	GST Registration No.	
(d)	Aadhar No. of Owner/Partners/Directors	
<b>6.</b>	<b>Details of Earnest Money Deposit</b>	
(a)	Amounts (Rs.)	
(b)	DD/PO No. and Date	
(c)	Drawn on Bank	
(d)	Valid upto	
<b>7.</b>	<b>Details of Tender Fee</b>	

(a)	Amount	
(b)	DD/PO No.	
(c)	Drawn on Bank	
(d)	Valid up to	
8.	<b>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 &amp; Conditions.</b>	
	2017-2018	
	2018-2019	
	2019-2020	
9.	The Firm who are registered with NSIC or Small Scale Industry/Or MSME are exempted to submit the tender fee or EMD (Copy of Registration certificate must be provided along with Udyog Addhar)	
10.	Copy of Authorization letter	
11.	Experience in the field for the minimum 3 Years	Similar 1 running Contract with Central Government Departments/Public Sector/private sector/Undertakings/Autonomous Bodies/State Government Departments.
12.	Satisfactory Services Certificate of last 5 Years	Similar 1 running Contract with Central Government Departments/Public Sector/private sector/Undertakings/Autonomous Bodies/State Government Departments.
13.	Satisfactory Services Certificate(AMC) of last 5 Years	Similar 1 running Contract with Central Government Departments/Public Sector/private sector/Undertakings/Autonomous Bodies/State Government Departments.
14.	Track of Being in the same business for at least 05 years	
14.	ISO Certificate (certificate also be attached)	
15.	Give full system configuration with diagram and detailed (location given in Table-1, and Table-2) placement of each components/sub systems. The bidder should do a complete site survey and submit a site survey feasibility report.	
16.	Affidavit stating that the Firm/Agency/Company is / has not been black listed by Central Government Departments/State Government/Statutory bodies/ Autonomous bodies/PSUs /Private Sector at any point of time	

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

Date:

Name:

Place:

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.	2017-2018	
2.	2018-2019	
3.	2019-2020	
	<b>Total</b>	Rs _____ lacs

Average Turnover per Annum : Rs. \_\_\_\_\_ Lakhs.

Signature of Chartered  
Accountant/Auditor  
With Seal

## Annexure-III

### Check List

S. No.	Details	Page No.	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 Jaipur 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)			
8	Certification/Accreditation/Affiliation (attach proof)			
9	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 Central 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 50 Lakh.			
13	Acceptance of Terms and Conditions			
14	Demand Draft/ Pay order for Tender document fee (non- refundable) of Rs.2500/- (Rs. Two Thousand Five Hundred only) attached (Name of bank, DD/Cash receipt (in case tender download from web site)			
15	Demand Draft/ Pay Order for EMD of 4,80,000 /- 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/sub systems. The bidder 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: