



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 IP BASED CCTV SURVEILLANCE SYSTEM

At

National Institute of Ayurveda, Jaipur

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Fax No. :	0141-2635816
Telephone No. :	0141-2635744 / 2636476 / 2636477
Email ID. :	nia-rj@nic.in , itincharge.nia@gov.in

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 आयुर्वेद संस्थान**

माधव विलास पैलेस, आमेर रोड, जयपुर-302002

फर्म का नाम

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निविदा प्रपत्र

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

उसका नाम : SUPPLY, INSTALLATION, TESTING, COMMISSIONING & AMC OF
IP BASED CCTV SURVEILLANCE SYSTEM

(निविदा की अनुमानित लागत 22,00,000 रुपये होगी । निविदा के साथ अनुमानित लागत की 2 प्रतिशत धरोहर राशि के रूप में रुपये
44,000/- 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.दिनांकसंलग्न
किया गया है ।

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

6. धरोहर राशि रुपये रसीद 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 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 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. IP Based CCTV Surveillance objectives of NIA

NIA is planning to install IP based CCTV surveillance system for enhancing the security arrangement of the campus by harnessing the updated technology. NIA is thus looking for an experienced Firm/Company which can supply, install, test, commission and maintain this CCTV surveillance 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 Security Surveillance 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 IP based CCTV Camera Surveillance system for the purpose of security, monitoring and recording within the National institute of Ayurveda, Jaipur.

NIA already cover several stations of campus by CCTV in 2019. Now we want to cover rest of campus by CCTV Surveillance System this year.

2. Scope/Features of IP Based CCTV Camera

2.1. Scope and Features

- i. The scope of work shall include the design, supply, installation, commissioning, and integration, testing of an Integrated Remote Monitoring System in totality including related wiring, conduit laying and required civil jobs.
- ii. It shall Transmit and Receive H.265/H.264 or MPEG-4Video.
- iii. Support for multi user and multi user group environment in addition to user hierarchy
- iv. System should allow to be used as a distributed or central architecture with support to any number of cameras that may be added in future.
- v. The system shall provide Activity Controlled Frame (ACF) rate, which in turn red uses the Bandwidth and the Storage requirements.
- vi. The system shall provide Broadcast quality Video across IP network including Internet.
- vii. The system shall provide real time recording at 25fps with no frame loss.
- viii. The system shall support Multiple IP Video Streams.
- ix. The system shall provide secured recording for evidence purposes and user authentication to protect data integrity.
- x. Video Stream bit rate shall be selectable from 32 to4096kbps.

2.2. 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.

2.3. Training and Documentation

- i. The Vendor has to provide onsite training for at least 3 days to a team of NIA officers for monitoring and handling the IP based Surveillance Monitoring System.
- ii. The Vendor has to provide laying and installation documentation of IP based Surveillance Monitoring System

2.4. General System Description

Remote Camera based monitoring system is as under:

- i. Network Surveillance IP based cameras located all over the campus. The campus has been divided into 6 zones. Each zone will have one CMS and these are at the identified locations as per **Table - 1**. No. of cameras required in a particular zone is given against the respective CMS.
- ii. Reception of the digital video from all cameras one particular zone should be at the Control room called Central Monitoring Station (CMS) of that particular area. Surveillance should be Intranet based System and proper interface should be provided to access the recording over the Web Browser from other network.
- iii. CMS should have Network Video Recorder for all control, monitoring on LED display, data logging and recording of the operation on the External Hard Disk at Central Monitoring System.
- iv. Archival of sub framed rate or full frame digital video of all or selected camera(s) in computer disks. On line replay capability from Backup disks for a period up to 15 days.

2.5. Operational Flexibility of the System

- i. Replacement of malfunctioning camera, technical redundant infrastructure, Switches without affecting overall system.
- ii. Expansion of system should be possible with software setting at monitoring station by adding cameras. Vendor shall provide information on maximum camera capacity of video software.
- iii. Relocation of camera units within radius of 10 meters without any change of hardware.
- iv. Remote maintenance & diagnostic of any kind of fault for all camera & network should be possible and remote maintenance also be possible. Camera failure history should be in work station/PC based Monitoring Software Logs.

2.6. Scope of NIA Work

- i. Supplying of continues electrical AC power shall be provided by N.I.A Dept. for each Camera / NVR / Switches locations as per actual requirement.
- ii. Road cutting / digging under user / N.I.A. Scoop.
- iii. Internet connectivity (Static IP's and 4G Modem Units) for different-different locations viewing purpose is under N.I.A. scoop.
- iv. 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: ZONES & CENTRAL MONITORING STATIONS (CMS)

S. No.	Zone	Location of CMS
1	Girls Hostel-1(include Lab, Cottage W)	Hostel Warden Office
2	Girls Hostel-2	Hostel Warden Office
3	Administrative Wing-Outer Area	Director's Chamber
4	Auditorium	Auditorium Room
5	Library building	Librarian Room
6	Yoga Centre	Yoga Centre Room

3. "BOM" –Bill Of Material

S.No	Product	Qty
1	2MP IR Dome Camera With IR LED	40
2	2MP IP IR Bullet With EXIR	108
3	2MP IR Dome Camera With EXIR	24
4	Surveillance HDD 6 TB	6
5	Surveillance HDD 4 TB	2
6	32 Channel NVR 4 SATA Port	4
7	16 Channel NVR 4 SATA Port	2
8	08 Channel NVR	2
9	24-ports PoE Switch	5
10	16-ports PoE Switch	11
11	8-ports PoE Switch	1
12	9 U Rack	4
13	12 U Rack	10
14	15 U Rack	2
15	6 Core OFC Cable with Conduit	3000 Mtr
16	CAT6 Cable with Conduit	10000 Mtr
17	Splicing	44 Point
18	Fiber Box	12 Pair
19	HDMI Cable 15 Mtr	6

20	Media Convertor	12
21	RJ- 45 Connectors	500
22	Camera Boxes	173
23	Patch Code Fiber	22
24	Display Unit(LED Television) 42" or Above	4
25	Display Unit(LED Television) 32" or Above	2
26	WireLess Mouse	6
27	Supply, fixing and wiring of indoor and outdoor cable using all work pertaining to Horizontal Directional Drilling and cabling. It includes supply, connecting cables Patch code, Patch Panels/IO Box/splicing of fiber Inspite to above mentioned qty. if required and power distribution panel for extending 230V AC to various components of CCTV for installation or similar based on site requirement to functional all CCTV equipment cost are for 272 nos. hardware equipment's	272 Nos.

4. Material Detailed ITEM-WISE Specifications

<p>ITEM NO 1 :2 MP IR Dome Camera With IR LED</p> <p>Supply, Installation, Testing & commissioning of 2 MP Network Dome IP Camera: Video Standard: H.265/H.265+/H.264/MJPEG selectable or Better; 1/3" progressive scan CMOS Image Sensor or Better; F2.0 Horizontal FOV 90° or Better; Shutter Speed 1/3 s to 1/100, 000 s or Better; 1920 × 1080 @ 30fps or Better; Min. Illumination with Color: 0.01 Lux @(F1.2, AGC ON), 0.028Lux @(F2.0, AGC ON) or Better; With B/W: 0.001 Lux @(F1.2, AGC ON), 0.0028 Lux @(F2.0, AGC ON) or Better, 0 Lux with IR or Better; IR cut with auto switch filter up to 30m Night Vision IR Range or Better; BLC (area configurable), Mirror; ROI (support 1 fixed region); 3D Digital Noise Reduction; VBR 32 Kbps to 8 Mbps; Digital Wide Dynamic Range; Alarm Triggering on: Motion detection; Video tampering, network disconnected, IP address conflicted; Network Storage: NAS (NFS, SMB/CIFS); Network Heartbeat & watermark feature; System Compatibility ONVIF (PROFILE S, PROFILE G), ISAPI; Communication Interface 10M/100M self-adaptive; Power Consumption 5W; Operating Conditions -22 °F to 140 °F; Environmental Housing: IP67, IK10 or Better;</p> <p>Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*</p>
<p>ITEM NO 2: 2 MP IP IR Bullet With EXIR</p> <p>Supply, Installation, Testing & commissioning of 2 MP Network Bullet IP Camera: Video Standard: H.265/H.264/MJPEG selectable or Better; 1/3" progressive scan CMOS Image Sensor or Better; Horizontal FOV Min. 60°/ 80°, Vertical FOV 35°/ 50°, Diagonal FOV 65°/96° or Better; Shutter Speed 1/3 s to 1/100, 000 s or Better; 1920 × 1080 @ 30fps or Better; Min. Illumination with Color: 0.01 Lux @(F1.2, AGC ON), 0.028Lux @(F2.0, AGC ON) or Better; B/W: 0.001 Lux @(F1.2, AGC ON), 0.0028 Lux @(F2.0, AGC ON), 0 Lux with IR or Better; Day & Night IR cut filter with Up to 40m IR Range or Better; Network Storage support micro SD/SDHC/SDXC slot up to 128 GB, local storage or Better, NAS (NFS,SMB/CIFS), ANR; Image Enhancement: BLC, 3D DNR; Smart Feature Behaviour Analysis: Line crossing detection, intrusion detection; Network Alarm triggering options with Supporting Protocols; Audio Compression (-S): G.711/G.722.1/G.726/MP2L2/PCM or Better; Audio Bit Rate (-S): 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2);CommunicationInterface10M/100Mself-adaptive;PowerConsumptionandCurrent0.4A,max.5W;PoE 802.3af, 0.2A - 0.1 A, max. 6.5W; Web Browser with</p>

IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+; Housing: IP67 or Better
Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*
ITEM NO 3: 2MP IR Dome Camera With EXIR
Supply, Installation, Testing & commissioning of 2 MP Network Dome IP Camera: 1/3" progressive scan CMOS Image Sensor or Better; Min. Illumination with Color: 0.01 Lux @(F1.2, AGC ON), 0.028Lux @(F2.0, AGC ON); B/W: 0.001 Lux @(F1.2, AGC ON), 0.0028 Lux @(F2.0, AGC ON) or Better; With Day & Night IR cut filter; 3D Digital Noise Reduction with digital WDR function; FOV: horizontal 78°, vertical 42°, diagonal 98° or Better; IR Range up to 30 Mt. with 850nm Wavelength or Better; Video Standard: H.265+/H.265/H.264+/H.264/MJPEG; VBR 32 Kbps to 8 Mbps or Better; Set of Smart Feature: Line crossing detection, intrusion detection ; ROI: 1 fixed region for main stream; Network Storage Support: Micro SD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR; Alarm Trigger With Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD full, HDD error; API: ONVIF (PROFILE S, PROFILE G), ISAPI; Web Browser: IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+; mono sound; On- board Storage support Built-in micro SD/SDHC/SDXC slot up to 128 GB or Higher; Power Consumption max: 6.5W and Current max. 5.0W with IP67 Protection Level or higher
Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*
ITEM NO 4,5 :Surveillance HDD 4TB/6TB
Supply of surveillance Hard Disk Drive of 4/6 TB capacity Video Surveillance Series (Rated for 24/7 operation). 256 Mb Cache, 210 MB per second data transfer rate, RV Sensors ,Spindle Speed 7200 RPM or more and SATA 6 Gb/s interface for DVR/NVR of standard
ITEM NO 6: 32 Channel NVR with 4 Sata port
Supply, installation and commissioning of IP based 32-Ch IP Video Input with Dual-OS (for system reliability) with min. 256/256 Mbps incoming/outgoing bandwidth; Support 12MP Recording resolution with VGA output 1920 × 1080/60Hz, HDMIoutput 3840 × 2160/30Hz; 1 Ch. two way audio with RCA (Linear); Decoding format: H.265/H.265+/H.264+/H.264/MPEG4 or Better; 4 Sata HDD Interface with ANR technology (for storage reliability) for recording & Backup up to 6TB capacity for each HDD with Smart search and playback facility Supports HDD quota and group modes with different capacity for different channels; 2 RJ-45 10M/100M/1000Mbps ethernet interfaces; Network protocols: TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS; RS-232 and RS-485 serial interface; 2 USB interface (At least 1 Ch. support 3.0); Alarm 16/4 in & out facility; Support VCA alarm & detections; Third-party network cameras supported; Power Consumption: ≤ 20 W (W/o HDD);
Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*
ITEM NO 7: 16 Channel NVR
Supply, installation and commissioning of IP based 16-Ch IP Video Input with Dual-OS (for system reliability) with min. 160/160Mbps incoming/outgoing bandwidth; Support 8MP Recording resolution with VGA output 1920 × 1080/60Hz, HDMI output 3840 × 2160/30Hz ; 1 Ch. two way audio with RCA (Linear); Decoding format: H.265/H.265+/H.264+/H.264/MPEG4 or Better; 2 Sata HDD Interface with ANR technology (for storage reliability) for recording & Backup up to 6TB capacity for each HDD with Smart search and playback facility Supports HDD quota and group modes with different capacity for different channels; 1 RJ-45 10M/100M/1000Mbps ethernet interfaces; Network protocols: TCP/IP, DHCP, DNS, DDNS, NTP, SADP, SMTP, NFS, iSCSI, UPnP™, HTTPS; 2 USB interface (At least 1 Ch. support 3.0); Alarm 4/1 in & out facility; Support VCA alarm & detections; Third-party network cameras supported; Power Consumption: ≤ 15 W (W/o HDD);
Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*
ITEM No 08: 08 Channel NVR

Supply, installation and commissioning of IP based **8-Ch** IP Video Input with min. 80/80Mbps incoming/outgoing bandwidth or Better; **8MP Recording** resolution or Better; HDMI and VGA Simultaneous at 1920 × 1080 resolution; 1 Ch. two way audio with RCA ((Linear 2.0 Vp-p) or Better; Min. 2 **Sata HDD Interface** with locking and unlocking record files facility up to **6TB capacity** for each HDD with **Smart search features** and **Support HDD quota & group** modes with facility of **different capacity can be assigned to different channel** or Better features; 1, RJ-45 10/100/1000Mbps self-adaptive Ethernet interface Better; Min. 2 USB (**2.0**) interface or Better; Power supply 12 VDC Power Consumption: ≤ **15 W** (W/oHDD);

Certificate: CE, FCC, UL , BIS Approved Make :- Sony/Axis/Bosch/Hikvision/CP Plus or equivalent*

ITEM No 09: 24-ports PoE Switch

Supply, installation and commissioning of **26 Network Port** (24 PoE Port; 2 Uplink Port) 24 x 10/100Mbps Auto-MDIX PoE ports; Network Protocol: IEEE802.3, 802.3u, 802.3x, 802.3af, 802.3at; **Switching Capacity:** Store-and-forward switching **52 Gbps or Better, Max.**

Forwarding Rate: 38.68 Mpps or Better; IEEE802.3af (full duplex), IEEE802.3at PoE Standard; Provides up to min. **30 watts per PoE port OR Better**, PoE Power Budget Min. **370W or Better**; Extend On: **250m, 10M, CAT 5e**; Extend Off: **100m**; Power Consumption ≤ 400W; **6KV Surge Protection for PoE ports** or better; **Min. 4.1 Mbits RAM Data Buffer** or Better; Working Temperature 0°C-40°C; Storage Temperature -40°C-70°C, **SFP modules (Optional):** HK-1.25G-20-1550: 1000M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km; HK-155M-20-1550: 100M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km

Approved Make:- Cisco/Juniper/HP/Hikvision/CP Plus /D-Link/NetGear or equivalent*

ITEM No 10: 16-ports PoE Switch

Supply of 18 port Network switch (16 PoE Port; 2 Uplink Port) 16 x 10/100Mbps Auto-MDIX PoE ports; Network Protocol: IEEE802.3; 802.3u, 802.3x, 802.3af, 802.3at; Switching Capacity: 36 Gbps, Max. Forwarding Rate: Store-and-forward switching 26.78Mpps; IEEE802.3af (full duplex), IEEE802.3at PoE Standard; PoE Power Budget Min. 230w; Power Consumption ≤ 250W; 6 KV Surge Protection for PoE ports; 4.1 Mbits RAM for Data Buffer; Working Temperature 0°C-40°C; Storage Temperature -40°C-70°C, SFP modules (Optional): HK-1.25G-20-1550: 1000M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km; HK-155M-20-1550: 100M SFP module, TX1550nm/RX1310nm, LC, single-mode single-fiber, 20km

Approved Make:- Cisco/Juniper/Hikvision/HP/CP Plus/D-Link/NetGear or equivalent*

ITEM No 11: 08-ports PoE Switch

Supply of 10 port Network switch (08 PoE Port; 2 Uplink Port) 08 x 10/100Mbps base TX-Ethernet ports; Compliant with IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE 802.3af, IEEE802.3at, IEEE; Network Standard 802.3x, IEEE802.3z; Store and

forward switching, 20 Gbps backplane bandwidth; Max Port Output 30w; Total Output 120w; 6KV Surge Protection; 1.5 Mbits RAM for Data Buffer ; Working Temperature 0°C-40°C; MAC address Automatic learning/Aging; Supports 8-core PoE cable power supply and simultaneous power supply via the 1236 and 4578 line order; Ethernet: 10 Mbps (half-duplex)/20 Mbps (full-duplex); Fast Ethernet: 100 Mbps (half-duplex)/200 Mbps (full-duplex); Gigabit Ethernet: 2000 Mbps (full-duplex); 1000 Base-SX: MMF (Multi-Mode Fiber); 1000 Base-LX: MMF (Multi-Mode Fiber) or SMF (Single Mode Fiber)

Approved Make :- Juniper/HP/CISCO/Hikvision/CP Plus/D-Link/NetGear or equivalent*

ITEM NO. 12, 13 &14 : 9U/12U/15U Racks Standard Specifications applicable

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 CCTV system with fixing as per site requirement and Compatible with 19" International standards

Approved Make- i-Ball/Comrack or Similar

<p>ITEM No. 15 : OFC CABLE ITEM NO. 15: Supply of OFC Single-mode 6 Core Armored Fiber cable with Conduit Minimum Cable Loose Tube /Buffer Loose Tube, Jelly filled ,Standards :-ISO 11801, Temperature range:- Storage and installation: 0°C to + 60°C, Performance Warranty:-10 Years</p> <p>Approved Make:-iBall/DIGISOL/ D-link /MOLEX/AMP/SYSTEMAX or similar</p>
<p>ITEM NO. 16 : CAT 6 CABLE Supply of U/UTP CAT6-4Pairs cable-6 PVC Sheath-CM cable ISO/IEC11801, TIA-568-C.2, YD/T1019with conduit for cable</p> <p>Drawing and Testing of 4 pair, 24 AWG UTP Cat 6 Cable as per latest amendments of TIA /EIA Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing.</p> <p>U/UTP CAT6-4P-PVC-CM or better; ISO/IEC11801, TIA-568-C.2, YD/T1019 or better; Ambient temperature: 20°C - 75°C; Conductor Material SOLID-Bare Copper PVC (Complies RoHS), CM with 0.95±0.03mm or better diameter; Electrical Characteristics (20°C) 1.0-250.0MHz Impedance (Ω) 100±15; 1.0-250.0MHz Delay Skew (ns/100m) ≤45; DC Resistance (Ω/100m) max 9.38; Technical Performance for (100m) as below:</p> <p>For Conduit Pipe:- Shock absorbent, Easy installation ,Corrosion resistant ,Chemical resistant</p> <p>Approved Make MOLEX/AMP/SYSTEMAX/HIKVISION/TYCO/CP Plus/ DIGISOL/ D-link</p>
<p>ITEM NO. 17 :- Splicing</p> <p>FOSC tray ,Accessories for 6F and 12F OFC , Outdoor weather proof</p> <p>MAKE:- Schneider/Systimax / Legrand/ Molex/PANDUIT or similar</p>
<p>ITEM NO. 19 :- HDMI Male to Male 15 Meter Cable.</p> <p>Should support High Definition Digital Video up to 1080p Should support High Resolution Digital Audio standards like Dolby Digital True HD and DTS Master Audio. Should work with new high refresh rate displays (120/240Hz and higher). Gold plated connectors for clean corrosion resistant connections.</p>
<p>ITEM No. 21 : RJ45 Connector</p> <p>Connectors for UTP Cat 6 (RJ45 Connector) cable having 6 Micron gold over contact designed for 24-28 AWG solid cable (UTP 8P8C) with polycarbonate housing</p> <p>Make D-Link/i-Ball or similar</p>
<p>ITEM NO. 24:- LED Television Display Size 42 inch,HD Technology Full HD, 1920 x 1080, ResolutionFull HD, 3 HDMI Port ,3 USB Port, one Ethernet (RJ45), one Headphone Jack, one Digital Audio Output, Analog Audio Input, one Component In (RGB Cable)</p> <p>Make Sony/LG/Samsung/Panasonic/Videocon</p>
<p>ITEM NO. 25:-LED Television Display Size 32 inch,HDTechnology,Full HD, 1920 x 1080, ResolutionFull HD, 3 HDMI Port ,3 USB Port, one Ethernet (RJ45), one Headphone Jack, one Digital Audio Output, Analog Audio Input, one Component In (RGB Cable)</p> <p>Make Sony/LG/Samsung/Panasonic/Videocon</p>

*equivalent brand must have all mentions certificates.

Note:

1. All necessary Software to be supplied along with the Cameras and Network Video Recorder 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. Camera Model should be display on onvifsite.
5. All Warranty should be on OEM letter Head.
6. All Products are compatible and should be integrated with our existing CCTV Surveillance System (Hikvision NVR and Cameras).

5. Inspection and Acceptance

Acceptance Test will be conducted as follows:

- 5.1. The first step will involve successful installation of all sites. The provisional acceptance of these sites will be defined as Partial Acceptance.
- 5.2. 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.
- 5.3. The date on which Acceptance certificate is issued shall be deemed to be the date of successful commissioning of the Equipment/Material.
- 5.4. 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.
- 5.5. All goods and services should have approval of TEC with ISI or other certification, as applicable, to prove the quality standards applicable in India.
- 5.6. 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.

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

5.8. 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.

6. Annual Maintenance Contract

6.1. 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 surveillance system).

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

6.3. 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.

6.4. Uptime for a quarter is calculated as under:

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

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

- Network: Switches 99% uptime per Quarter (99% of 2160 Hours)
- Camera units:98% uptime per Quarter (98% of 2160 Hours)

6.6. 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.

6.7. 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.

6.8. 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.

7. Schedule for completion of tasks

The selected vendor would be required to Install, Commission, customize the NVR, test and operationalise the CCTV Network within 10 weeks of the issue of PO as per the following schedule:

S. No.	Task	Schedule
1.	Installation of the Cameras and NVR	8 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. 75 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 (Zones and CMS).
- 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 Zones connecting to the respective CMS centres showing optimum camera 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 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. 44,000/- (Rupees Forty Four 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 15 Lakh.</p> <p>a. For 6 or more of these projects with minimum value of 15 Lakhs each in last three years.</p> <p>b. For 5 or more of these projects with minimum value of 15 Lakhs each in last three years.</p> <p>c. For 4 of these projects with minimum value of 15 Lakhs each in last three years.</p> <p>d. For 3 of these projects with minimum value of 15 Lakhs each in last three years.</p> <p>e. For 2 of these projects with minimum value of 15 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 3 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. CCTV Surveillance Drawing of each Central Monitoring Station (CMS)</p> <p>a. Layout plan of each of the Central monitoring System for optimum CCTV Surveillance.</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

- 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.
- 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 fulfil 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 Surveillance Network 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 Surveillance 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 camera 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)
- Camera units: 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 balancesheet 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)	

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.	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 44,000 /- 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: