



## NATIONAL UNIVERSITY OF STUDY & RESEARCH IN LAW, RANCHI

Ref No.: NUSRL/RNC/2025/1128385 (A)

Date: 05-05-2025

### TENDER NOTICE

The Assistant Registrar (In-Charge), National University of Study and Research in Law Ranchi, At Nagri, PO Bukuru, Kanke Pithoria Road, Kanke -834006 invites sealed tenders for Supply and Installation of **CCTV** system at NUSRL, Ranchi.

Suppliers with a minimum experience of 01 years in Same field may submit tender with specification, term and condition. Last date for submission of tender is 15.05.25.

Offers may be submitted in two separate sealed envelopes — one containing Profile of the firm (Technical bid) and other with price bids — marked clearly on the top of the envelope.

Cost of tender document: The bidders will be required to deposit cost of Tender amounting Rs.1,000/- (Rupees One Thousand Only) in the form of separate DD in favour of "**Registrar, NUSRL, Ranchi**" payable at Ranchi. This amount is non-refundable.

Tender should be accompanied with a demand draft for Rs. 5000/- as security deposit, in favour of "Registrar, National University of Study and Research in Law, Ranchi". The draft will be refunded to unsuccessful bidders and no interest will be paid on this.

The draft of the successful bidder will be retained as part of security deposit and will be refunded on expiry of contract after deducting dues on University, if any.

Bidders should have a minimum of 1 year of experience of similar services.

The Tender will be opened on 16.05.25 at 03:00 pm in the office of the Registrar. The Bidders or his representatives are allowed to be present at that time.

The undersigned reserves the right to accept/reject any of the tender papers.

By the order

Registrar  
NUSRL, Ranchi

## **NATIONAL UNIVERSITY OF STUDY & RESEARCH IN LAW, RANCHI**

|    |                              |                                                                                                                                                                                                                                                                                          |
|----|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | <b>Name of Work</b>          | Supply and installation of CCTV system at NUSRL, Ranchi.                                                                                                                                                                                                                                 |
| 2. | Cost of the tender documents | <b>Rs.1000/- (Non-refundable)</b> to be paid<br><b>Rs.5000 EMD/Security</b>                                                                                                                                                                                                              |
| 3. | <b>Period of Supply</b>      | <b>15 Days</b>                                                                                                                                                                                                                                                                           |
| 4. | <b>Appropriate Category</b>  | <b>Criteria - Subject to fulfilling the Eligibility Criteria mentioned below:</b><br><br>1. Supplier office must be in Ranchi.<br>2. Service centre must be in Ranchi.                                                                                                                   |
| 5. | <b>Eligibility Criteria</b>  | <b>A. <u>Bidders fulfilling following minimum criteria shall only be considered as eligible for tendering:</u> -</b><br>Successfully completed Supplier of similar nature of Work during last 1 years in Government Organizations/Semi-Government Organizations/Autonomous Bodies/ PSU's |

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### **Bill of Materials:**

| SI No. | Item Details                         | Qty |
|--------|--------------------------------------|-----|
| 1      | 16 Ch. 4K Network Video Recorder     | 1   |
| 2      | Surveillance HDD 6 TB                | 1   |
| 3      | BULLET IP CAMERA - 4MP 50 MTR.       | 6   |
| 4      | DOME IP CAMERA - 2MP 30 MTR.         | 4   |
| 5      | 8 Port PoE Giga Switch with SFP PORT | 2   |
| 6      | CAT6 Cable- 305 Mtr. Box             | 2   |
| 7      | Installation charge one time         | 1   |

| # | Minimum Eligibility Criteria for CCTV OEM:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | OEM company for Camera & NVR should have its own company registered in India (under Incorporation of Companies Act, 1956/ 2013) since last 10 year. Any representation through a Dealer/ Distributor/ Subsidiary/ consortium shall not be treated as OEM. This has to be supported by necessary statutory documents. CCTV OEM should have manufacturing in India since last Five years and Foreign CCTV OEM should have manufacturing unit globally from last 10 Years. (Documentary evidence should be submitted).                                                                                                                           |
| 2 | The OEM of the IP Camera, Storage, NVR/ VMS Software and Network Switches should not be blacklisted or banned by any country or government department in any country. The OEM Should not have any cheating or fraud case filed against their company for their respective product line. The OEM should not be a Chinese origin company or company having its any percentage of share holding stake by Chinese/Hongkong government or its entity.                                                                                                                                                                                              |
| 3 | CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation). The CCTV OEM should not be suspended/ blacklisted by ONVIF.                                                                                                                                                                                                                                                                                                                                                                       |
| 4 | The CCTV OEM should have below ISO Certifications for Quality, Environment, Security management and Health & Safety Management system for manufacturing of all types of Cameras & NVR/ DVR. All the CCTV Components (Camera, VMS, NVR, DVR, etc) should be from same OEM for seamless integration and ease of operation. The Bidder/s shall attach the copy of the OEM's ISO Certificate along with the bid. ISO9001:2015, ISO 14001:2015, ISO 27001:2013 , ISO 45001:2018, IEC27032:2012 & CMMI level 5                                                                                                                                      |
| 5 | The Camera OEM should be an affiliated Industry Training Partner of an appropriate active and approved training council of NSDC in field of electronic security / CCTV/ Video Surveillance or similar for a period of minimum two years. The Bidder should have a minimum of 2 technical resources in their payroll and should be certified by Camera OEM. The certificate may be verified with OEM. The Bidder shall submit a copy of documentary evidence of certificate of affiliation / MoU / relevant supporting document issued by the council in the name of OEM. The certificate may be verified with the relevant issuing authority. |

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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6    | The camera OEM should be a genuine manufacturer and should have official valid H.265 HEVC certificate and should be listed on HEVC website at the time of submitting bid. They should be paying the license fee for using the genuine HEVC compression legally. The same will be checked on following official website. <a href="https://www.mpegla.com/programs/hevc/licensees/">https://www. mpegla.com/programs/hevc/licensees/</a> |
| 7    | The Camera OEM should comply to General Data Protection Regulation (GDPR) & Waste Electrical and Electronic Equipment (WEEE) . OEM should have valid EPR (Extended Producer Responsibility License/ Authorization No. from Central Pollution Control Board for Electrical & Electronic Equipment E-Waste. OEM need to submit its certificate with technical bid.                                                                       |
| 8    | The OEM must have valid DSIR certificate.                                                                                                                                                                                                                                                                                                                                                                                              |
| 9    | The CCTV OEM should have its office and service/ support center in Jharkhand. Required sales, service tax number/ certificate to be provided along with the bid.                                                                                                                                                                                                                                                                       |
| 10   | The CCTV OEM must have supplied minimum 10,000 No. of IP Cameras in one Single P.O to any State Govt. / Central Govt. / Public sector undertaking in India, as on bid submission date. P.O Copy to be submitted along with supply proof.                                                                                                                                                                                               |
| 11   | OEM of IP CCTV cameras should have supplied at least 2,00,000 IP CCTV cameras during the last 07 years to any State Govt. / Central Govt. / Public sector undertaking in India, as on bid submission date. P.O Copies to be submitted along with supply proof.                                                                                                                                                                         |
| 12   | With reference to 'Make in India', following policies (including any further amendments, if any, as on bid submission day) will be applicable:                                                                                                                                                                                                                                                                                         |
| I.   | Policy released by Ministry of Electronics and Information Technology (MeitY), Government of India dated 14th September 2017 having no. F.No.33(1)/2017-IPHW and any further amendments.                                                                                                                                                                                                                                               |
| II.  | Policy released by Ministry of Communications, Department of Telecommunications (DoT), Government of India dated 29th August 2018 having no. 18-10/2017-IP and any further amendments.                                                                                                                                                                                                                                                 |
| III. | Policy released by Department of Promotion of Industry and Internal Trade, Ministry of commerce and industry, Government of India dated 4th June 2020 having no. P-45021/2/2017-PP (BE-II) and any further amendments.                                                                                                                                                                                                                 |
| IV.  | The Gazette of India : Ministry of Electronics and Information Technology (MeitY), (IPHW Division), Extraordinary, Part II – Section 3 – Sub Section (ii) dated 7th March 2024 dated 6th March 2024 having No. 1062 (CG-DL-E-08032024-252738)                                                                                                                                                                                          |
| V.   | The Gazette of India : Ministry of Electronics and Information Technology ((MeitY), (IPHW Division), Extraordinary, Part II – Section 3 – Sub Section (ii)) dated 9th April 2024 having No. 1569 (CG-DL-E-09042024-253632)                                                                                                                                                                                                             |
|      | <b>Note :</b> In compliance to the said notification from MeitY, Bidder has to ensure that OEMs must submit STQC Certificate for the Camera models quoted.                                                                                                                                                                                                                                                                             |

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| Technical Specifications         |                        |                                                                                                                                                                                                                                             |                     |                |
|----------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|
| 16 Ch. 4K Network Video Recorder |                        |                                                                                                                                                                                                                                             |                     |                |
| Make :-<br>Model No :-           |                        |                                                                                                                                                                                                                                             |                     |                |
| Sr No                            | Feature                | Description                                                                                                                                                                                                                                 | Compliance (Yes/No) | Remarks if any |
| 1                                | Processor              | Industrial-grade processor                                                                                                                                                                                                                  |                     |                |
| 2                                | Operating System       | Embedded LINUX                                                                                                                                                                                                                              |                     |                |
| 3                                | Channel                | 16                                                                                                                                                                                                                                          |                     |                |
| 4                                | User Interface         | Web, Local GUI                                                                                                                                                                                                                              |                     |                |
| 5                                | Video Output           | 1 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720<br>1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720                                                                                                                                    |                     |                |
| 6                                | Video Compression      | H.265, H.264, MJPEG                                                                                                                                                                                                                         |                     |                |
| 7                                | Encode Strategy        | Instastream                                                                                                                                                                                                                                 |                     |                |
| 8                                | Decoding Capability    | AI disabled: 1-channel 12 MP@30 fps, 1-channel 8 MP@30 fps, 2-channel 5 MP@30 fps, 3-channel 4 MP@30 fps, 6-channel 1080p@30 fps<br>AI enabled: 1-channel 8 MP@30 fps, 1-channel 5 MP@30 fps, 2-channel 4 MP@30 fps, 4-channel 1080p@30 fps |                     |                |
| 9                                | Video Resolution       | 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2MP, 960p, 1MP, D1                                                                                                                                                                                     |                     |                |
| 10                               | Video Display Split    | Main screen: 1/4/8/9/16/25<br>Sub screen: 1/4/8/9/16                                                                                                                                                                                        |                     |                |
| 11                               | Hard Disk              | 2 SATA ports. Each disk can contain up to 20 TB.                                                                                                                                                                                            |                     |                |
| 12                               | Multi-channel Playback | Up to 16 channels                                                                                                                                                                                                                           |                     |                |
| 13                               | Record Mode            | General, motion detection, intelligent, alarm                                                                                                                                                                                               |                     |                |
| 14                               | Backup Method          | USB device and network                                                                                                                                                                                                                      |                     |                |
| 15                               | SMD Plus by NVR        | 4 channels                                                                                                                                                                                                                                  |                     |                |
| 16                               | SMD Plus by Camera     | Perimeter protection, SMD Plus                                                                                                                                                                                                              |                     |                |
| 17                               | Network Bandwidth      | AI disabled: 144 Mbps incoming, 144 Mbps recording and 72 Mbps outgoing<br>AI enabled: 72 Mbps incoming, 72 Mbps recording and 36 Mbps outgoing                                                                                             |                     |                |
| 18                               | Smart Phone            | iPhone, iPad, Android Phone                                                                                                                                                                                                                 |                     |                |
| 19                               | Interface Ports        | 2 (1 front USB 2.0 port, 1 rear USB 2.0 port)                                                                                                                                                                                               |                     |                |

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|    |                          |                                                                                                                                                                                                                              |  |  |
|----|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 20 | <b>Protocols</b>         | HTTP, HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search, Multicast, InstaOn cloud, Auto Registration, ONVIF 21.12(Profile T, Profile S, Profile G) |  |  |
| 21 | <b>Browser</b>           | Chrome, IE9 and later, Firefox, Edge                                                                                                                                                                                         |  |  |
| 22 | <b>Ethernet</b>          | 1 (10/100/1000 Mbps Ethernet port, RJ-45)                                                                                                                                                                                    |  |  |
| 23 | <b>Intelligent Alarm</b> | Perimeter protection, SMD Plus                                                                                                                                                                                               |  |  |
| 24 | <b>Alarm Linkage</b>     | Recording, snapshot, buzzer, log, preset, email, tour                                                                                                                                                                        |  |  |
| 25 | <b>Alarm Input</b>       | NA (2 channels are optional)                                                                                                                                                                                                 |  |  |
| 26 | <b>Alarm Output</b>      | NA (2 channels are optional, one of them is 1-channel 12 V 1 A output)                                                                                                                                                       |  |  |
| 27 | <b>Audio Input</b>       | 1-channel RCA                                                                                                                                                                                                                |  |  |
| 28 | <b>Audio Output</b>      | 2-channel RCA                                                                                                                                                                                                                |  |  |
| 29 | <b>Audio Compression</b> | G.711a, G.711u, PCM, G726, AA                                                                                                                                                                                                |  |  |
| 30 | <b>Power Supply</b>      | 12 VDC, 2 A                                                                                                                                                                                                                  |  |  |

### **4 MP IP Bullet Camera**

**Make :- Model No :-**

| <b>Sr No</b> | <b>Feature</b>       | <b>Description</b>                                                                               | <b>Compliance (Yes/No)</b> | <b>Remarks if any</b> |
|--------------|----------------------|--------------------------------------------------------------------------------------------------|----------------------------|-----------------------|
| 1            | Type of Image Sensor | 1/2.9" 2MP PS CMOS Image Sensor                                                                  |                            |                       |
| 2            | Resolution           | 4 MP                                                                                             |                            |                       |
| 3            | Illumination Level   | 0.006 Lux@F1.6                                                                                   |                            |                       |
| 4            | Type Of Camera       | Bullet                                                                                           |                            |                       |
| 5            | Lens Size            | 3.6mm                                                                                            |                            |                       |
| 6            | IR Distance          | 50 mtr                                                                                           |                            |                       |
| 7            | SN Ratio             | ≥ 56 dB                                                                                          |                            |                       |
| 8            | WDR                  | 120dB                                                                                            |                            |                       |
| 9            | Video Compression    | H.265+, H.265, H.264+, H.264H, H.264B, H.264,                                                    |                            |                       |
| 10           | Video Streaming      | Quad Streaming                                                                                   |                            |                       |
| 11           | FPS                  | Main stream:4MP@20 fps , Sub Stream1 - D1@25fps , Sub Stream2 - D1@25fps , Sub stream 3: D1@1fps |                            |                       |
| 12           | Warm Light           | Upto 30 mtr IR                                                                                   |                            |                       |
| 13           | Audio                | In built Mic                                                                                     |                            |                       |
| 14           | Audio In/Out         | 1 Channel                                                                                        |                            |                       |
| 15           | Alarm In/Out         | 1 Channel                                                                                        |                            |                       |

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|    |                       |                                                                                                                                                                                                     |  |  |
|----|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 16 | Protocol              | SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast                     |  |  |
| 17 | Cyber Security        | AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot |  |  |
| 18 | Mirror Function & SMD | Support                                                                                                                                                                                             |  |  |
| 19 | Ethernet              | RJ-45 (10/100 Base-T)                                                                                                                                                                               |  |  |
| 20 | Bit Rate              | H.265: 12 kbps–6144 kbps, H.264: 32 kbps–6144 kbps                                                                                                                                                  |  |  |
| 21 | Storage               | SFTP, NAS, Mirco SD card (Max. 512GB)                                                                                                                                                               |  |  |
| 22 | Users                 | 20 Users                                                                                                                                                                                            |  |  |
| 23 | Weatherproof Standard | IP67                                                                                                                                                                                                |  |  |
| 24 | Casing                | Metal                                                                                                                                                                                               |  |  |
| 25 | Power Consumption     | 2.3 W (12 VDC); 2.9 W (PoE)                                                                                                                                                                         |  |  |

### **2 MP IP Dome Camera**

**Make :-**

**Model No :-**

| Sr No | Feature              | Description                                                               | Compliance (Yes/No) | Remarks if any |
|-------|----------------------|---------------------------------------------------------------------------|---------------------|----------------|
| 1     | Image Sensor         | 1/2.8" 2MP PS CMOS Image Sensor (0.9071 centimeters)                      |                     |                |
| 2     | Effective Pixels     | 1920(H) x 1080(V)                                                         |                     |                |
| 3     | Minimum Illumination | 0.002 lux@F1.6 (Color, 30 IRE) 0.002 lux@F1.6 (B/W, 30 IRE) 0 lux (IR on) |                     |                |
| 4     | Shutter Speed        | Auto/Manual 1/3 s–1/100000 s                                              |                     |                |
| 5     | White Balance        | Auto; natural; Street lamp; Outdoor; Manual; Regional custom              |                     |                |
| 6     | Lens                 | 2.8mm fixed lens                                                          |                     |                |
| 7     | Lens Type            | Fixed                                                                     |                     |                |
| 8     | IR                   | Minimum IR Range of 30 Mtr.                                               |                     |                |
| 9     | Storage              | FTP; SFTP; Micro SD card (support max. 512GB)                             |                     |                |
| 10    |                      |                                                                           |                     |                |
| 11    | S/N Ratio            | >56 dB                                                                    |                     |                |
| 12    | Day/Night            | Auto(ICR)/Color/B/W                                                       |                     |                |
| 13    | Lens Mount           | M12                                                                       |                     |                |
| 14    | Max. Aperture        | F1.6                                                                      |                     |                |

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|    |                                |                                                                                                                                                                                                                                                                    |  |  |
|----|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 15 | <b>DORI Distance</b>           | 2.8 mm: Detect:43.9 Mtr, Observe:17.5Mtr, Recognize: 8.8Mtr, Identify: 4.4Mtr , 3.6mm: Detect: 58.9Mtr ,Observe:23.6Mtr, Recognize:11.8 Mtr, Identify : 5.9Mtr                                                                                                     |  |  |
| 16 | <b>Gain Control (AGC)</b>      | Auto/Manual                                                                                                                                                                                                                                                        |  |  |
| 17 | <b>Video Compression</b>       | H.265+; H.264; Smart H.264+; H.264H; H.264B; MJPEG (Only supported by the sub stream)                                                                                                                                                                              |  |  |
| 18 | <b>Encode Strategy</b>         | Instastream                                                                                                                                                                                                                                                        |  |  |
| 19 | <b>Noise Reduction</b>         | 3D-NR                                                                                                                                                                                                                                                              |  |  |
| 20 | <b>Angle of View</b>           | 2.8 mm: H: 102°; V: 54°; D: 121°; 3.6 mm: H: 84°; V: 42° D: 101°                                                                                                                                                                                                   |  |  |
| 21 | <b>Back Light Compensation</b> | BLC / HLC / WDR(120dB)                                                                                                                                                                                                                                             |  |  |
| 22 | <b>Video Streaming</b>         | Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1–25/30 fps), Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity. |  |  |
| 23 | <b>Resolution</b>              | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)                                                                                                                                    |  |  |
| 24 | <b>Motion Detection</b>        | OFF/ON (4 areas, rectangular)                                                                                                                                                                                                                                      |  |  |
| 25 | <b>Privacy Mask</b>            | 4 areas                                                                                                                                                                                                                                                            |  |  |
| 26 | <b>ROI</b>                     | Support (4 areas)                                                                                                                                                                                                                                                  |  |  |
| 27 | <b>Audio Compression</b>       | G.711a; G.711Mu; G.726; PCM                                                                                                                                                                                                                                        |  |  |
| 28 | <b>Video Bit Rate</b>          | H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps                                                                                                                                                                                                                 |  |  |
| 29 | <b>Bit Rate Control</b>        | CBR/VBR                                                                                                                                                                                                                                                            |  |  |
| 30 | <b>Audio</b>                   | In built Mic                                                                                                                                                                                                                                                       |  |  |
| 31 | <b>Audio In/Out</b>            | 1 Channel                                                                                                                                                                                                                                                          |  |  |
| 32 | <b>Protocol</b>                | Pv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DNS; NTP; Multicast; ICMP; IGMP; ONVIF (Profile S/Profile G)                                                                                                                    |  |  |
| 33 | <b>Smart Detection</b>         | Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)                                                                                                                                                     |  |  |
| 34 | <b>Smart search</b>            | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos                                                                                                                                                    |  |  |
| 35 | <b>Ethernet</b>                | RJ-45 (10/100/100Base-T)                                                                                                                                                                                                                                           |  |  |
| 36 | <b>Smart IR</b>                | Support                                                                                                                                                                                                                                                            |  |  |

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|    |                              |                                                                                                                                                                                              |  |  |
|----|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 37 | <b>Alarm Event</b>           | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD |  |  |
| 38 | <b>User/Host</b>             | 6 (Total bandwidth: 36 Mbps)                                                                                                                                                                 |  |  |
| 39 | <b>SDK and API</b>           | Support                                                                                                                                                                                      |  |  |
| 40 | <b>Smart Phone</b>           | iPhone, iPad, Android Phone                                                                                                                                                                  |  |  |
| 41 | <b>Browser</b>               | IE, Chrome, Firefox                                                                                                                                                                          |  |  |
| 42 | <b>Mirror</b>                | Support                                                                                                                                                                                      |  |  |
| 43 | <b>Power Source</b>          | 12V DC/PoE (802.3af)                                                                                                                                                                         |  |  |
| 44 | <b>Weatherproof Standard</b> | IP67 & IK10                                                                                                                                                                                  |  |  |

### **8 Port PoE Switch**

**Make :-**

**Model No :-**

| <b>Sr No</b> | <b>Feature</b>         | <b>Description</b>                                                                                                         | <b>Compliance (Yes/No)</b> | <b>Remarks if any</b> |
|--------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------|
| 1            | Total No of PoE Ports  | 8 no 1000Mbps; RJ45 ports                                                                                                  |                            |                       |
| 2            | Uplink Ports           | 2 x 1000Mbps RJ45 ports + 2 x 1000Mbps SFP ports                                                                           |                            |                       |
| 3            | PoE Power Budget       | 96W                                                                                                                        |                            |                       |
| 4            | Surge Protection       | Common mode/RJ45 port: 4KV Differential mode/RJ45 port: 2KV Common mode/Power board: 2K Differential mode/Power board: 2KV |                            |                       |
| 5            | ESD                    | Air discharge: 8KV Contact discharge: 6KV                                                                                  |                            |                       |
| 7            | Network Port           | 12                                                                                                                         |                            |                       |
| 8            | Transmission Distance  | 0-100m/1000Mbps or Port 7-8 Max. 250m/10Mbps via Cat.5e or more under Extend mode                                          |                            |                       |
| 9            | Switch Capacity        | 24Gbps Full duplex                                                                                                         |                            |                       |
| 10           | PoE Standard           | IEEE802.3af, IEEE802.3at                                                                                                   |                            |                       |
| 11           | Packet Forwarding Rate | 1.488Mpps/port                                                                                                             |                            |                       |
| 12           | MAC Address List       | 2K                                                                                                                         |                            |                       |
| 13           | Power Source           | Input: 100-240V AC, 50/60Hz, Built-in Power Supply                                                                         |                            |                       |
| 14           | Power Consumption      | <5W                                                                                                                        |                            |                       |
| 15           | Operating Temperature  | -10°C~ 50°C                                                                                                                |                            |                       |
| 16           | Humidity               | 10%-95% , non-condensing                                                                                                   |                            |                       |
| 17           | Storage Temperature    | -40°C~70°C                                                                                                                 |                            |                       |

## **NATIONAL UNIVERSITY OF STUDY & RESEARCH IN LAW, RANCHI**

| <b>Cat 6 Cable</b>                   |                                     |                                      |                            |                       |
|--------------------------------------|-------------------------------------|--------------------------------------|----------------------------|-----------------------|
| <b>Make :-</b><br><b>Model No :-</b> |                                     |                                      |                            |                       |
| <b>Sr No</b>                         | <b>Feature</b>                      | <b>Description</b>                   | <b>Compliance (Yes/No)</b> | <b>Remarks if any</b> |
| 1                                    | Conduct Type                        | Solid Bare Electrolytic Grade Copper |                            |                       |
| 2                                    | Nominal Conductor Diameter          | 23 AWG                               |                            |                       |
| 3                                    | Insulation                          | Polyethylene (HDPE)                  |                            |                       |
| 4                                    | No. of Pair                         | 4, Each pair Twisted                 |                            |                       |
| 5                                    | Pairing                             | Twisted into Two core                |                            |                       |
| 6                                    | Outer Sheath Material               | PV Sheath                            |                            |                       |
| 7                                    | Colour of Sheath                    | Grey (RAL-7035), Option Available    |                            |                       |
| 8                                    | Approximate OD                      | 5.80mm                               |                            |                       |
| 9                                    | Rip Cord                            | Yes                                  |                            |                       |
| 10                                   | Cross Filler                        | HDP                                  |                            |                       |
| 11                                   | Sequential Marking                  | Every Meter                          |                            |                       |
| 12                                   | Resistance Unbalance                | 5% Max                               |                            |                       |
| 13                                   | Conductor Resistance of solid cable | 93.5Ω/1000 Mtr@20°C Max              |                            |                       |
| 14                                   | Mutual Capacitance                  | 5.6nf100Mtr. Max                     |                            |                       |
| 15                                   | Packing                             | a305 Mtrs                            |                            |                       |
| 16                                   | Temperature Rating                  | -20 to +60°C                         |                            |                       |
| 17                                   | Installation Temperature            | 0 to 50°C                            |                            |                       |
| 18                                   | Storage Temperature                 | -20 to +75°C                         |                            |                       |
| 19                                   | NVP                                 | 0.69                                 |                            |                       |
| 20                                   | Impedance                           | 100±15% Ω                            |                            |                       |
| 21                                   | Tensile                             | 110N                                 |                            |                       |

**NATIONAL UNIVERSITY OF STUDY & RESEARCH IN LAW, RANCHI**

**BIDDER PROFILE**

(For **Supply and Installation of CCTV**)

- 1) Name of the Firm.....
- 2) Name of the Owner of the Firm.....
- 3) Address.....  
.....  
.....
- 4) Telephone No.....Mob No.....
- 5) No. of year of experience in the field with reference and certificate  
.....
- 6) PAN No.....
- 7) Sales Tax no.....
- 8) Establishment Certificate.....
- 9) Income tax Return for 3 years.
- 10) Balance Sheet for 3 years.
- 11) Bank Draft no .....

Signature of the Bidder

**NATIONAL UNIVERSITY OF STUDY & RESEARCH IN LAW, RANCHI**

**Supply and installation of CCTV at NUSRL, Ranchi**

**Financial Bid**

| S.L. No. | Item Description                                  | Quantity      | Amount |
|----------|---------------------------------------------------|---------------|--------|
| 1        | 16 Ch. 4K Network Video Recorder (with 2 SATA)    | 1             |        |
| 2.       | Surveillance HDD 6 TB                             | 1             |        |
| 3.       | Bullet IP camera- 4MP 50 MTR (varifocal)          | 6             |        |
| 4        | Dome IP camera-2 MP 30 MTR (with mic)             | 4             |        |
| 5        | Bullet IP camera- 4MP 50 MTR (Project model)      | 2             |        |
| 6.       | Dome IP camera-2 MP 30 MTR (Project model)        | 2             |        |
| 7.       | 8 Port PoE Giga Switch with SFP Port              | 2             |        |
| 8.       | CAT 6 cable -305 Mtr. Box                         | 2             |        |
| 9.       | RJ45                                              | 30            |        |
| 10.      | 5X5 PVC Box                                       | 10            |        |
| 11.      | 4 U Rack                                          | 1             |        |
| 12.      | 2 U Rack (Outdoor)                                | 1             |        |
| 13       | Camera Clamp for Pole                             | 2             |        |
| 14       | Laying & cabling with 1" PVC conduct pipe Per Mtr | As per actual |        |
| 15       | Installation Per Camera                           | 12            |        |

**Note:**

**Kindly submit the rates, keeping in mind that these rates will be used for future reference, such as for the Annual Rate Contract."**