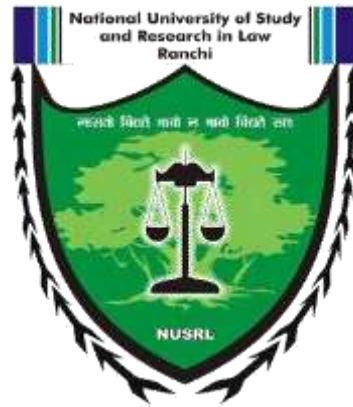


TENDER FOR SUPPLY & INSTALLATION OF CCTV

NUSRL/PURCHASE/TENDERS/2022-23/CCTV



National University of Study and Research in Law (NUSRL) RANCHI

AT- Nagri, P.O Bukru, Kanke-Pithoria Road, Kanke,

Ranchi-834006, Jharkhand,

Web: www.nusrlranchi.ac.in

Instructions for Bid Submission:

The Bidder are required to prepare their bids in accordance with the requirements and submitting their bids in hard copy in sealed envelope within the given stipulated time and format.

More information useful for submitting bids may be obtained at: <https://www.nusrlranchi.ac.in>. Or contact with the details below.

Contact details: Mr. Sumitra Mondal

Mobile No. 8580322073

**National University of Study and Research in Law
(NUSRL), RANCHI**

**Tender document for
Supply and Installation of CCTV**

Important Dates and Information	
Tender Publish Date	08-12-2022
Last Date and Time For Receipt of Bids	16-12-2022
Date & Time of Opening of Technical Bid	17-12- 2022 at 11:30 A.M
Institute's Website	www.nusrlranchi.ac.in

TENDER FOR SUPPLY & INSTALLATION OF CCTV
NUSRL/PURCHASE/TENDERS/2022-23/CCTV

National University for Study in Research and Law, Ranchi intends to deploy the CCTV as per the technical specifications mentioned in Technical Bid (Annexure-II). The interested bidders are requested to submit their bids in sealed envelope under two bid systems fulfilling below minimum Eligibility Criteria.

Minimum Eligibility Criteria:

- i) Bidder must submit OEM Authorisation /BID Specific authorization with name, address & Proper Location.
- ii) All the Paper dully certified by the Dealer along with declaration that quoted items is true.
- iii) Specific Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Product serial no's and warranty information should be available in public domain,
- iv) Bidder having annual turnover of Rs.25 Lakh per year & more than 75 Lakh in 3 years (2019-20, 2020-21, 2021-22)
- v) Experience certificate must be attached of minimum order of 5-10 lakh in single order
- vi) Compliance must be in Bidder/OEM Letterhead with company seal & sign
- vii) Specific Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents.
- viii) Bidder must have a Functional Office in the State of Consignee's Location at least of minimum 5 years - 10 years
- ix) Bidder must have GST & PAN registered of Jharkhand including GST return copy of August, September & October 2022
- x) Bidder must submit ISO certified or MSME certificate firm.

Pre-Qualification Criteria

1. OEM to have its valid GST Certificate.
2. OEM Should ISO 9001, ISO 14001, ISO 27001, CMMI 5 Certified Company.
3. The OEM of the CCTV equipment's should not be debarred/banned/blacklisted or imposed sanctions by any Country or Government institution globally. OEM declaration to be submitted.
4. OEM Brand should have established in India at least for 5 years, it's presence should be supported with brand registration certificate like TM, COI etc.
5. Bidder shall submit the detailed BOM, Brochure of the equipment offered duly verified and certified by the respective OEM and same model should be displayed on OEM website.
6. Any representation through a Dealer/ Distributor/ Joint Venture/ consortium shall not be treated as OEM. It should be supported with necessary statutory documents and undertakings on OEM letterhead as required.
7. The OEM should not be banned / debarred / blacklisted by any government/ institution globally. The OEM must submit the self-declaration regarding the same. OEM of the equipment/ solution shall have a positive Net Worth during last 3 years.

8. All Cameras, Lenses, Housing, and its Solution should be of Single OEM.
9. OEM must provide a certificate that the proposed model of CCTV products must not become obsolete within a period of 3 years in case it gets EOL due to technology advancement then OEM will support with equivalent or higher model. Also, any product which is nearing the End-of-Sale (EoS) must not be proposed in the solution.
10. ONVIF should not have been suspended its support to the camera OEM.
11. Technical evaluation will be done only for the bidders found complying with PQQ/eligibility criteria. During Technical evaluation the bidders will be asked for POC and will be required to showcase their product for required functionalities and reports. The financial bids will be opened only of those bidders found successful during demonstration as per the bid requirement. Bidder shall submit the detailed BOM of the equipment offered duly verified and certified by the respective OEM.
12. Scope of work includes SITC of CCTV Camera System with associated h/w and s/w solution. It is also inclusive of any type of accessories cables connectors required (including maintaining of existing aesthetic beauty of the installation location) for complete installation and operationalise of CCTV Camera system without any additional cost.
13. Bidder will have to submit OEM Authorization on OEM letter head with bid number for Quoted Product.
14. Brochure and OEM Compliance of the Offered product on OEM Letterhead.
15. The OEM of the CCTV camera must have more than 500 employees on its payroll in India. Any OEM which is a part of a larger group company but meeting the 500-employee criterion in India is also eligible. This is to justify that CCTV OEM has made investment in India and is serious about its business in India which will ensure long term after sales support and spare support from the OEM. Respective document/certificate to be provided along with the bid.
16. To prove that CCTV OEM is Established and Proven OEM in India, IP Cameras OEM should have supplied at least 10,000 IP CCTV cameras during the last 03 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.

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.

EMD: Tender should be accompanied with a demand draft for Rs.20,000/- (Rupees Twenty Thousand only) as EMD, in favour of “Registrar”, NUSRL, Ranchi payable at Ranchi. The draft will be refunded to unsuccessful bidders and no interest will be paid on this.

Documents Comprising the Bid: The bid shall consist of two separate envelopes in **Part-A** and **Part-B**.

Part-A should contain:

- i. Annexure - I: Bid Forwarding Letter.
- ii. Annexure – II/A Pre- qualification
- iii. Annexure II/B: Compliance of Technical Specifications.
- iv Authorization Letter by the OEM (Tender Specific)
- v. All documents in support of fulfilling the Eligibility Criteria.
- vi. Entire duly signed and sealed bid documents with corrigendum /amendments, if any, by the authorized representative of the bidder.

Seal the envelope with superscription “TECHNICAL BID for Supply & Installation of CCTV” - **PART “A”**

Part-B should contain: Price Bid only as per Annexure - III

Seal the envelope with superscription “PRICE BID for Supply & Installation of CCTV” - PART “B”. The Price Bid should mention only price in the stipulated format attached with the bid document. The prices shall be filled up both in figures and in words. In case of any discrepancy, the price quoted in words, shall prevail. No overwriting or use of correction fluid shall be accepted. Any corrections shall be legible and signed by the authorized signatory. Conditional bids shall be rejected.

Put above PART ”A” and PART “B” in a separate sealed envelope with superscription on the top envelop as “Tender for Supply & Installation of CCTV” and handed over to Registrar Office on or before **15-12-2022** up to 2.00P.M.

The Registrar
National University of Study and Research in Law
AT- Nagri, P.O Bukru,
Kanke-Pithoria Road, Kanke,
Ranchi-834006, Jharkhand, INDIA.

Tenders received late/ incomplete are liable for rejection.

The University reserves the right to modify the conditions of the tender, at any time, without assigning any reasons for the same. NUSRL, Ranchi reserves the right to accept/ reject any Tender without assigning any reason whatsoever and at any time.

If the last date of receiving/ opening of the tenders coincide with a holiday, then the next working day shall be the receiving/opening.

Scope of Work:

Supply and Installation of Dome Camera, Bullet Camera, NVR and other accessories in the Girls hostel from entering the hostel to movement in the hostel premises and monitoring the entire area in the University at NUSRL campus, Nagri, Ranchi. For further information contact System Administrator on week days between 10 an to 5 pm.

Terms and Conditions:

1. **Bid Validity:** Bid submitted by bidder shall remain valid for a period of 60 days from the last date of submission of bid.
2. **Adherence to Terms and Conditions:** The bidder who wishes to submit responses to this tender notice should note that they should abide by all the terms and conditions contained in the tender document.
3. **Single Point of Contact:** The Bidder has to provide details of Single Point of Contact viz. Name, Designation, Address, Email, Telephone/ Mobile No., Fax No. etc. who can discuss and correspondence with NUSRL, Ranchi with regard to the obligations under the contract.
4. **Issuance of Purchase Order:** NUSRL, Ranchi will issue the purchase order for delivery, installation and commissioning of the CCTV as per the Scope of work mentioned in the tender document. The successful bidder is expected to complete the delivery, installation and commissioning of the CCTV within a period of three weeks from the date of purchase order.
5. **Software & Hardware Requirements:** All the software, hardware equipment like Laptops, tools etc. to carry out the installation has to be brought by the vendor at his own cost.
6. **Adherence to Safety Procedures:** Bidder shall take all necessary measures to protect the personnel, infrastructure, facilities etc. and shall observe all reasonable safety rules and regulations. Bidder shall also adhere to all security requirement of NUSRL, Ranchi during the execution of work.
7. **Expenses:** Prices payable to the bidder includes all expenses for NUSRL except GST. GST applicable at the time of billing will be paid extra.
8. **Delivery and Installation Schedule:** The bidder should deliver and install the goods within three weeks from the date of purchase order. The bidder should take responsibility of the goods till it reaches the delivery destination informed by NUSRL Ranchi, transport up to destination, insurance etc. shall be arranged by the supplier.
9. **Warranty & Support:** The warranty shall be on-site, comprehensive for a period of three years from the date of installation. The warranty also includes all software subscriptions and upgradation during period of warranty at no extra cost.
10. **Sub-contracting:** The contractor shall not assign, sub-contract or sub-let the whole or any part of the contract in any manner.
11. **Payment Terms:** NUSRL, Ranchi will release the payment on receipt of undisputed invoice after deduction of applicable TDS of the agreed price to the selected vendor. No advance payment will be made for procurement of CCTV. Payment on delivery after successful installation of the CCTV System.
12. **Amendment to the Bidding Document:** NUSRL, Ranchi reserves the right in its sole discretion of inclusion of any addendum to this entire bid process. All corrigendum containing amendments to this tender will be posed in our website <https://www.nusrlranchi.in/tender-noitce>. Bidders are advised to periodically check our website for updating the matter.
13. **Dispute Resolution:** Decision taken by Registrar, National University for Study in Research and Law, Ranchi will be final and binding on bidder.
14. **Applicable Law:** The Court of Jurisdiction shall be Ranchi for all such purposes.

(Registrar)

BID FORWARDING LETTER

(On the Letterhead of the Bidder)

To

The Registrar
National University for Study in Research and Law
AT- Nagri, P.O Bukru,
Kanke-Pithoria Road, Kanke,
Ranchi-834006, Jharkhand, INDIA.

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**Sub: Tender for ‘Supply and Installation of CCTV’ vide No.
NUSRL/PURCHASE/TENDERS/2021-22/CCTV**

Dear Sir,

With reference to the above tender, I/ We am/are offering rates for the above work. I/ We hereby confirm and declare that I/ We have carefully studied the tender documents therein and undertake myself / ourselves abide by the terms and conditions.

Yours faithfully,

(Signature of the Authorized Official with seal)

TECHNICAL BID
(PART - A: Pre-Qualification)

S.No.	Description	Whether (YES/NO)
1	Name of the Firm:	
2	Date of Incorporation: (Copy of “Partnership Deed” or “Certificate of Incorporation should be submitted. For entities other than Partnership Firm/ Ltd Company, other relevant documents to be submitted)	
3	Address of Firm with Tel/ Mob No., Fax No., Email ID:	
4	Name and Designation of Authorized Person with Tel/Mob No., Email ID to deal with NUSRL, Ranchi:	
5	Experience in supply and installation of CCTVs with equivalent or higher of quoted value of the quoted item by a single order in Govt. Dept/PSU/Autonomous Bodies/University in last three years as on date. (Proof of same to be attached)	
6	Bidder must have an average Turnover of rupees 25 Lacs for the year of 2019-20, 2020-21 and 2021-22, An audited certificate by a Chartered Accountant to be attached.	
7	Income Tax Returns for the year of 2019-20, 2020-21 and 2021-22 (Copies of same to be attached)	
8	Valid GST Registration certificate and PAN card (Copies of same to be attached)	
9	Firm should not be blacklisted or barred by any Dept. of Govt., PSU, Autonomous Bodies (Attach self- declaration on the letter head of bidder)	
10	Annexure - I: Bid Forwarding Letter	
11	Duly filled Annexure-II/A and II/B	
12	Annexure-III: Manufacturer Authorization Form (MAF)	
13	Authorization Letter by the OEM	
14	Entire duly signed and sealed bid documents with corrigendum/ amendments, if any, by the authorized representative of the bidder.	
15	Demand Draft of Tender Fee of Rs.1,000/- in favour of “The Registrar, NUSRL Ranchi” payable at Ranchi .	
16	Demand Draft of EMD Rs.20,000/- in favour of “The Registrar, NUSRL Ranchi” payable at Ranchi .	

Note: Mark the page with numbering.

(PART - B: Technical Compliance)

Make to be quoted:

Model to be quoted:

Quantity: One (01)

Technical Specifications				
2 MP IP Dome Camera with inbuilt mic 30 mtrs				
Sr No	Features	Specifications	Compliance (Yes/No)	Remarks if any
1	Image Sensor	1/2.8" 2Megapixel progressive CMOS (7.112 centimeters)		
2	Minimum Illumination	0.002Lux@F1.6		
3	Effective Pixels	1920(H) x 1080(V)		
4	BodyType	Dome		
5	Shutter Speed	Auto/Manual 1/3 s–1/100000 s		
6	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
7	Lens	3.6mm (2.8mm optional)		
8	Gain Control (AGC)	Auto/Manual		
9	Video Compression	H.265+; H.265; H.264+; H.264; H.264B; MJPEG (only supported by the sub stream)		
10	Back Light Comp.	BLC / HLC / WDR(120dB)		
11	Video Streaming	Main stream:1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)		
12	Resolution	1080P (1920 × 1080); 1.3MP (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
13	Motion Detection	Disable/Enable (4 areas, rectangle)		
14	Privacy Mask	4 areas		
15	ICR	ICR switch		
16	ROI	Yes (4 areas)		
17	Audio	Built-in Mic		
18	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP; ONVIF (Profile S/Profile G/ Profile T); CGI; Milestone; Genetec		
19	Smart Detection	Tripwire; intrusion		
20	Ethernet	RJ-45 (10/100Base-T)		
21	User Account	20 Users		
22	Smart Phone	iPhone, iPad, Android Phone		
23	IR Range	IR Range of 30 Mtr.		
24	Micro SD	FTP, Mirco SD card 256GB, NAS		

25	Operating Temperature	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH		
26	Power Source	12V DC/PoE		
27	Power Consumption	< 6.5W		
28	Weatherproof Standard	IP67		
2 MP IP Bullet Camera 30mtrs				
1	Image Sensor	1/2.8" 2MP Progressive scan CMOS (7.112 centimeters)		
2	Minimum Illumination	0.002 Lux @F1.6		
3	Effective Pixels	1920(H) x 1080(V)		
4	Shutter Speed	Auto/Manual 1/3 s-1/100000 s		
5	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
6	Lens	3.6mm fixed lens (2.8mm optional)		
7	Gain Control (AGC)	Auto/Manual		
8	Video Compression	H.265+; H.265; H.264+; H.264; H.264B; MJPEG		
9	Angle of View	2.8mm: Horizontal:106° Vertical: 56° Diagonal: 126° , 3.6mm: Horizontal:87° Vertical: 46° Diagonal: 104°		
10	Back Light Compensation	BLC / HLC / WDR(120dB)		
11	Video Streaming	Main Stream: (1920 × 1080@25 fps) Sub Stream: (704 × 576@25 fps), (704 × 480@30 fps)		
12	Resolution	1080P (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
13	Motion Detection	OFF/ON (4 areas, rectangular)		
14	Privacy Mask	4 areas		
15	ICR	ICR switch		
16	ROI	Yes (4 areas)		
17	Bit Rate	H.264: 32 kbps-6144 kbps , H.265: 12 kbps-6144 kbps		
18	Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP, ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		
19	Smart Detection	Tripwire, Intrusion		
20	Ethernet	RJ-45 (10/100Base-T)		
21	Event Trigger	Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection		
22	User Account	20 Users		
23	IR	IR Range of 30 Mtr., Smart IR		
24	Smart Phone	iPhone, iPad, Android Phone		
25	Micro SD	FTP; Micro SD card (256GB); NFS		
26	Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
27	Operating Temperature	-40°C to +60°C (-40°F to +140°F)		
28	Humidity	≤95%		

29	Power Source	12V DC/PoE		
30	Power Consumption	< 4.9W		
31	Weatherproof Standard	IP67		
32	Casing	Metal		
2 MP IP Vari Focal Bullet Camera 50Mtr				
1	Image Sensor	1/2.8" 2MP PS CMOS Image Sensor (0.9071 cm)		
2	Minimum Illumination	0.005 Lux@F1.5		
3	Effective Pixels	1920(H)x1080(V)		
4	BodyType	Bullet		
5	Shutter Speed	Auto/Manual, 1/3~1/100000s		
6	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional custom		
7	Lens	2.8mm~12mm Motorized Lens		
8	Gain Control (AGC)	Auto/Manual		
9	Video Compression	H.265+/H.265/H.264+/H.264H/H.264B/ MJPEG (only supported by Sub stream)		
10	Angle of View	Pan: 101°-33.5° Tilt: 52.5°-19° Diagonal: 125°-38.5°		
11	S/N Ratio	>56dB		
12	Back Light Comp.	BLC/ HLC/ DWDR		
13	Frame Rate	Main Stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)		
14	Resolution	1080P (1920 × 1080); 1.3MP (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640× 480); CIF (352 × 288/352 × 240)		
15	Motion Detection	OFF/ON (4 areas, rectangular)		
16	Privacy Mask	4 Area		
17	ICR	Auto(ICR)/Color/B/W		
18	ROI	Yes (4 areas)		
19	Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6400 Kbps		
20	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; ONVIF (Profile S/Profile T); CGI; InstaOn; Genetec; milestone		
21	Ethernet	RJ-45 (10/100Base-T)		
22	User Account	20 Users		
23	Smart Phone	iPhone, iPad, Android Phone		
24	IR Range	IR Range of 50 Mtr., Smart IR		
25	Micro SD	FTP; Micro SD card (support max. 256 GB)		
26	Operating Temperature	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH		
27	Power Source	DC12V, PoE (802.3af)		
28	Power Consumption	1.4W (12V DC); 2.2W (PoE)		
29	Weatherproof Standard	IP67		
30	Casing	Metal + Plastic		
4 MP IP Dome Camera with in built mic 30Mtr				

1	Image Sensor	1/3" 4MP Progressive scan CMOS (0.84667cm)		
2	Effective Pixels	2688(H) x 1520(V)		
3	Minimum Illumination	0.03Lux@F2.0		
4	S/N Ratio	>56dB		
5	Shutter Speed	Auto/Manual, 1/3~1/100000s		
6	Gain Control (AGC)	Auto/Manual		
7	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
8	ROI	Yes (4 areas)		
9	Back Light Compensation	BLC / HLC / WDR(120dB)		
10	Lens	3.6mm (2.8mm Optional)		
11	Iris	Fixed		
12	Lens Type	Fixed-focal		
13	Max Aperture	F2.0		
14	Angle of View	3.6mm: Horizontal: 81° Vertical: 44° Diagonal: 95° 2.8mm: Horizontal:93° Vertical: 53° Diagonal: 111°		
15	ICR	Auto (ICR)/Color/B/W		
16	DORI Distance	3.6mm- 80m (Detect) 32m (Observe) 16m (Recognize) 8m (Identify) 2.8mm- 50m (Detect) 22.4m (Observe) 11.2m (Recognize) 15.1m (Identify)		
17	Close Focus Distance	2.8mm- 0.8m ; 3.6mm- 1.4m		
18	Motion Detection	Off / On (4 area, Rectangle)		
19	Video Compression	Smart H.265+/H.265/Smart H.264+/H.264/ H.264B/ MJPEG (only supported by the sub stream)		
20	Bit Rate	H.265: 12 Kbps–6144 Kbps H.264: 32 Kbps–6144 Kbps		
21	Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
22	Video Streaming	Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)		
23	Privacy Mask	4 Area		
24	Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception		
25	Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour, ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; InstaOn		
26	Smart Phone	iPhone, iPad, Android Phone		
27	Audio	Built-in Mic		
28	Audio Compression	G.711A; G.711Mu; G.726		
29	SDK and API	Yes		

30	Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade		
31	IR	IR Range of 30 Mtr., Smart IR		
32	Ethernet	RJ-45 (10/100Base-T)		
33	Micro SD	FTP; NAS; SFTP		
34	Weatherproof Standard	IP67		
35	Casing	Inner core: metal+ plastic; cover: plastic		
36	Operating Temperature	-40°C to +55°C (-40°F to +131°F)		
37	Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
38	Humidity	less than ≤ 95%		
39	Power Source	DC12V, PoE (802.3af)		
40	Power Consumption	<5.1W		
64 ch NVR with 4 SATA port				
1	Processor	Quad-core embedded processor		
2	Operating System	Embedded LINUX		
3	Two-way Talk	1 Channel Input, 2 Channel Output, RCA		
4	User Interface	GUI		
5	Video Output	2 HDMI, 2 VGA		
6	Video Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 VGA1: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 ; HDMI2/VGA2: 1920 × 1080		
7	Video Recording	Max 320Mbps		
8	Video Display Split	1st screen: 1/4/8/9/16/25/36/64 , 2nd screen: 1/4/8/9/16		
9	Channel	64 channel		
10	Motion Detection	MD Zones: 396(22×18).		
11	Video Loss	supports		
12	Bandwidth Incoming	320Mbps		
13	Alarm Input	16 Channel		
14	Alarm Output	6 Channel		
15	Smart Phone	iPhone, iPad, Android Phone		
16	Hard Disk	4 SATA III ports, up to 10TB Each, 1 eSATA port		
17	Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		
18	Recording Mode	Manual, Schedule (Regular, MD (Motion Detection) , Alarm, IVS), Stop		
19	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)		
20	Backup Mode	USB Device/Network/eSATA Device		
21	Playback	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom		
22	Max User Account	128 users		

23	Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec		
24	Ethernet	2 RJ-45 Ports (10/100/1000Mbps) Independent or Joint Working		
25	Interface Ports	3 USB Ports (2 Rear USB 3.0, 1 Front USB 2.0), 1 RS232, 1 RS485		
26	Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search , ONVIF 2.4, SDK, CGI		
27	Power Supply	Single, AC 100~240V, 50/60 Hz		
28	Power Consumption	<16.7W (without HDD)		
29	Working Temp	-10 ~+55°C / 10~90%RH / 86~106kpa		
30	Dimension	440mm x 411.2mm x 76mm		
31	Weight	4.3kg (without HDD)		
Cat 6 Cable (305 mtr)				
1	Conductor	Solid Bare Electrolytic Grade Copper		
2	Insulation	Polyethylene (HDPE)		
3	Nominal Conductor Diameter	23 AWG		
4	Cross Filler	HDPE		
5	Pairing	Twisted into Two core		
6	Outer Sheath	PVC Sheath/ LSZH		
7	Operating Temperature	-20 to +60°C		
8	Storage Temperature	-20 to +75°C		
9	Approximate OD	5.80mm		
10	Impedance	100±15% Ω		
11	Resistance Unbalance	5% Max		
12	Colour of Sheath	Grey (RAL-7035), Option Available		
13	Sequential Marking	Every Meter		
14	Packing	305 Mtrs		
4 U Rack Loaded				
1	Dimension	550mm x 350mm		
2	Basic Frame	CRCA (MS SHEET) 0.6 mm thick		
3	PDU , Cantilever , Fan	3 PDU , 1 Cantilever , 1 Fan included		
4	Laod Bearing Capacity	15 Kg		
5	Construction Type	Weleded		
6	Type of rack	Fixed		
9 U Rack Loaded				
1	Dimension	550mm x 630mm		
2	Basic Frame	CRCA (MS SHEET) 0.6 mm thick		
3	PDU , Cantilever , Fan	6 PDU , 1 Cantilever , 1 Fan included		
4	Laod Bearing Capacity	30 Kg		
5	Construction Type	Weleded		
6	Type of rack	Fixed		

16 port PoE AI Switch with 2 Giga uplink with 1 SFP uplink				
1	Network Port	PoE (1~14) :10/100Mbps PoE ports (RJ45), PoE (15~16) :10/100/1000Mbps PoE ports, BT port, Compatible uplink ports (RJ45), SFP :10/100/1000Mbps uplink ports (SFP), LAN (1~2):10/100/1000Mbps uplink port (1~2):10/100/1000Mbps uplink ports (SFP)		
2	Network protocol and standard	IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-TX/ IEEE 802.3ab 1000BASE-T, IEEE 802.3xFlowControl, IEEE 802.3af/at/bt Power over Ethernet		
3	MAC Address List	8K		
4	Transmission Distance	100Mbps /10Mbps Adaptive MAX 250m		
5	Transmission Rate	2000Mbps Full Duplex; 10 or 100 or 1000Mbps Half Duplex		
6	Bandwidth	12.8Gbps		
7	Surge Protection	6KV, Per: IEC61000-4-5		
8	ESD Protection	8KV, Per: IEC61000-4-2		
9	Power Budget	≤300W		
10	Power Input	AC 180~240V		
11	PoE Output	PoE 1~14Port:1/2(+52V),3/6(GND)≤30W		
8 port PoE Switch with 2 giga uplink				
1	Network Port	PoE (1~6): 10/100Mbps PoE ports (RJ45) PoE (7~8): 10/100Mbps PoE ports, BT port, Compatible uplink ports (RJ45) LAN: 10/100/1000Mbps uplink ports (RJ45)		
2	Switch Capacity	5.6 Gbps		
3	PoE Standard	IEEE 802.3i 10 BASE-T IEEE 802.3u 100 BASE-TX/ IEEE 802.3ab 1000 BASE-TX IEEE 802.3x Flow Control IEEE 802.3af/at/bt Power over Ethernet		
4	Transmission Distance	1~130m		
5	MAC Address List	8K		
6	Lightning Protection	6KV		
7	PoE Power Budget	120W		
8	Power Source	AC 180~240V, Total≤120		
9	Working Temp	-30°C ~60°C		
10	Humidity	10%~90% (Non-condensing)		
11	Storage Temperature	-40°C ~70°C		
12	Storage Humidity	5%~90% (Non-condensing)		
13	Dimension	187mm(L) x 139mm(W) x 43mm(H)		
PVC Pipe				
1	PVC Pipe, Shddle, Wireclip, Flexible, Band / Circular	10 feet long PVC Pipe ISI marked with all accessories for Installation		
2	Power / Combined Box	Best quality of combined Box switch/socket for Poe switch with electrification including installation & wiring if required		

PVC Box				
1	PVC Camera Box	4" x 4" ISI marked		
10 TB HDD				
1	10 TB HDD	Surveillance based		
Installation & Commisioning				
1	Installation	Complete installation of all camera with connecting switch, NVR & Power connectivity		

Place:

Signature of the Bidder:

Date:

Name, Address of the Bidder:

Telephone No.:

PRICE BID

(On the Letterhead of the Bidder)

To,

The Registrar

NUSRL, Ranchi

Sub: Submission of Price Bid towards “Tender for Supply & Installation of CCTV”

Sl no	Item	QTY	Unit Price	Total	Tax	Grand Total
1	2 MP IP Inbuilt mic Dome Camera	4 Nos				
2	2 MP IP Bullet Camera	20 Nos				
3	2 MP Vari Focal Bullet Camera	22 Nos				
4	4 MP IP Inbuilt mic Dome Camera	8 Nos				
5	64 Channel NVR with 4 SATA port	1 No				
6	4 U Rack	6 Nos				
7	9 U Rack	1 No				
8	16 Port PoE Switch	3 Nos				
9	8 Port PoE Switch	3 Nos				
10	UTP Cat 6 Cable	10 Coil				
11	10 TB Surveillance HDD	2 Nos				
12	PVC pipe & accessories 1” & ¾”	300 Nos				
13	PVC Box 4/4” ISI based	60 Nos				
14	Installation and Configuration per Camera	54 Nos				

Note: All price in INR only.

Place:

Date:

Signature of the Bidder:

Name, Address of the Bidder:

Telephone No.: