

TENDER FORM FOR PURCHASE, SUPPLY, INSTALLATION AND COMMISSIONING OF CCTV CAMERA SYSTEMS (IP CAMERAS) AND 55 INCHES 4K ULTRA HD SMART LED TV AT ARMY PUBLIC SCHOOL, AMBALA CANTT

1. Name of Firm/Contractor with full address, tele No & Email. _____

 Tele No _____
 Email No _____
2. GST No of the Firm/Contractor. _____
3. PAN No of the Firm/Contractor _____

4. **Details of Work.**

| Ser No | Nature of Work | A/U | Qty | Rate per item | GST % | Total cost per item |
|--------|--|-----|--|--|-------|---------------------|
| (a) | Purchase, Supply, Installation and commissioning of IP Cameras (CCTV camera systems) and 55 inches (139 CM) 4K Ultra HD Smart LED TV at Army Public School, Ambala Cantt. Detailed specifications/ Technical bid & Financial bids is attached herewith | Nos | As per indicative list and Annexure I. | As to be quoted in commercial/ Financial bid att | | |

5. Time for completion of the work/supply of items shall be 30 days from the date of issue of work order/supply order.
6. Failure to complete the work within the period of completion shall invite reduction of compensation at the rate of 0.2% of the contract amount per week till completion of work to the satisfaction of the School Management. The School Management may consider grant of extension of time beyond the initial period of completion in case he is fully satisfied that the delay is due to circumstance beyond control of the contractor.
7. No sub-letting of any part of portion of the work shall be permitted and it shall be the sole responsibility of the contractor undertaking the work to complete the work within time.
8. No advance payment shall be made.
9. The rates quoted by the contractor shall include all applicable taxes, octroi, tpt, loading/unloading and labour charges. Rates once quoted will be valid for minimum Nine months.
10. Last date of receipt of sealed tenders duly completed is 1400 hrs on 29 Mar 2024. All bids received after 1400 hrs on 29 Mar 2024 shall be considered invalid and shall not be opened. Tenders will be opened on 30 Mar 2024 at 1100 Hrs.
11. The items will be purchased through two bid system. The financial bids of the vendor who will qualified in technical bid/eligibility for the work will only be opened. **Both the bids must be properly sealed in separate envelopes and marked as technical bids and financial bids. Both the bids not received in separate envelopes with marked will be summarily rejected.**
12. This office reserves the right to cancel/accept/reject any/all tenders without assigning any reason for the same and decision of this institution will be final and binding. Qty of items to be purchased may vary/decrease as per requirement.
13. **Note.** Successful bidder will provide the samples of items with their bids and will work as per specifications given by the school to the vendor.

14. Commercial Bid Amount - Rs. _____
 GST% - Rs. _____
 Total - Rs. _____

Station : Ambala Cantt

Date : Mar 2024

(Signature of Bidder with stamp
Accepting the above terms & conditions)

**INDICATIVE LIST OF SUPPLY, INSTALLATION AND COMMISSIONING OF CCTV SYSTEM
AT ARMY PUBLIC SCHOOL AMBALA CANTT**

| <u>SNo</u> | <u>Item</u> | <u>Specification</u> | <u>Anticipated Quantity</u> |
|-------------------|---|---|------------------------------------|
| 1. | 32 Channel NVR (CP Plus / Dahua / Sparsh/ Zicom | 32 Channel Network Video Recorder H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch Max. decoding capability: 8 x 1080p@30 fps. Supports adaptive decoding P2P remote surveillance, video play on mobile device VGA/HDMI simultaneous video output, maximum resolution of HDMI 4K, AI by Camera: Face detection, perimeter protection, IVS, | 08 Nos |
| 2. | 4MP Full HD Dome Network Camera with Built in Audio Mic | Resolution : 4 mp, Max. Resolution : 2560 x 1440 Light Source Type : Infrared Special Features : Night Vision / POE Board & MIC Video Capture Resolution : 1080p Voltage : 12 Volts | 215 Nos |
| 3. | POE Switch | 10 Ports Switch with 8 Gigabit PoE Ports & 2 Gigabit Uplink Ports, 8, 1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port / Support IEEE802.3i/802.3u/802.3x/802.3af/802.3ab 10/100Mbps; Transmission Distance: 0-100m | 28 Nos |
| 4. | Dlink CAT6 UTP Cable- 305 mtrs | 4-pair unshielded twisted pair (UTP) cable Category : 6 UTP Solid cable_Conductor Conductor : 23 AWG (Solid) Conductor Meta : Conductor Meta : Bare Copper Insulation Material : HD-PE | 18 Rolls of 305 mtrs |
| 5. | 4TB Internal HDD | 4 TB Internal Hard Drive HDD – 8.89 cm (3.5 Inch) SATA 6 Gb/s 5400 RPM 256 MB Cache | 08 Nos |
| 6. | RJ45 Connector | RJ45 modular plug supporting 4 twisted pairs, Housing: PC, UL94V-2, transparent color | 500 Nos |
| 7. | DLink 9U Rack | 9U 550W 450D Wall Mount Steel Enclosure Front Door : Lockable Toughened Glass Door, Powder Coated, Basic Frame : Steel | 02 Nos |
| 8. | POE Switch Junction Box | 2U PVC Junction Box Rack Indoor Outdoor IP66 with Power Socket For DVR, NVR, POE, Networking Switch & Surveillance Security CCTV Camera Systems | 28 Nos |
| 9. | CCTV Camera box | PVC Square Junction Box for CCTV Cameras | 215 Nos |
| 10. | 55" 4K LED TV (Samsung/ LG/ Sony/ Acer/ Toshiba) | 139 cm (55 inches) 4K Ultra HD Smart LED TV Resolution : 4K Ultra HD (3840 x 2160) Refresh Rate : 60 Hertz Connectivity : 3 HDMI ports to connect set top box or gaming console 1 USB ports to connect hard drives or other USB devices Ethernet Wi-fi Bluetooth | 05 Nos |

****Note: the quantities may change according to the requirements of the Institute****

**** The vendors are advised to visit the above mentioned site before quoting rates.**

SPECIFICATIONS OF CCTV SYSTEM / ITEMS

32 Ch NVR

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|------------------------|--|-------------------------------------|------------------------------------|
| Main Processor | Industrial-grade embedded processor | | |
| OS | Embedded Linux | | |
| Video | | | |
| Access Channel | 32 | | |
| Network Bandwidth | Access: 160 Mbps; Storage: 128 Mbps; Forward: 48 Mbps | | |
| Resolution | 8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1 | | |
| Decoding Capability | 8 x 1080p@30 fps | | |
| Video Output | 1 x VGA output, 1 x HDMI output, supports simultaneous video sources output for VGA and HDMI | | |
| Multi-screen Display | 1 , 4, 8, 9, 16, 25, 32 views | | |
| Compression | | | |
| Video | Smart H.265/H.265/Smart H.264/H.264/MJPEG | | |
| Audio | PCM/G711A/G711U/G726/AAC | | |
| Network | | | |
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; | | |
| Mobile Phone Access | Android; iOS | | |
| Record Playback | | | |
| Multi-channel Playback | Up to 16 channels for playback | | |
| Record Mode | Manual record; alarm recording; SMD recording; smart recording | | |
| Storage | Local HDD; network | | |
| Backup | USB storage device | | |
| Playback Function | 1. Play/pause/stop/slow/quick/backward/by frame 2. Full screen, backup (video clip/file), partial zoom in, and audio on/off | | |
| General Alarm | Motion detection, privacy masking, video loss | | |
| Anomaly Alarm | Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cyber security exception | | |
| Intelligent Alarm | Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms | | |
| Alarm Linkage | Recording, snapshot, local external alarm output, audio, buzzer, log, preset, and email | | |
| External Port | | | |
| Audio Input | 1 x RCA input | | |
| Audio Output | 1 x RCA output | | |
| HDD | 2 SATA II ports, up to 10 TB for a single HDD. | | |
| USB | 2 (1 x front USB2.0; 1 x back USB2.0) | | |
| HDMI | 1 (supports up to 4K resolution output) | | |
| VGA | 1 | | |
| Network | 1 x RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port | | |
| Warranty | 2 Years | | |

4MP Full HD Dome Network Camera

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|-----------------------|---|------------------------------|-----------------------------|
| Image Sensor | 1/3" 4MP Progressive scan | | |
| Max. Resolution | 2560 (H) x 1440 (V) | | |
| Min. Illumination | 0.03 lux@F2.0 (Color, 30 IRE) | | |
| Illumination Distance | 30 m (98.43 ft) | | |
| Lens | | | |
| Lens Type | Fixed-focal | | |
| Mount Type | M12 | | |
| Focal Length | 2.8 mm 3.6 mm | | |
| Max. Aperture | F1.6 F1.6 | | |
| Field of View | 2.8 mm: Horizontal 110.0° x Vertical 59.0° x Diagonal 132.0° | | |
| | 3.6 mm: Horizontal 91.0° x Vertical 48.0° x Diagonal 109.0° | | |
| Iris Type | Fixed | | |
| Close Focus Distance | 2.8 mm: 0.6 m (1.97 ft) | | |
| | 3.6 mm: 1.1 m (3.61 ft) | | |
| Video | | | |
| Video Compression | H.265; H.264; H.264B; MJPEG | | |
| Smart Codec | Smart H.265+ / Smart H.264+ | | |
| Video Frame Rate | Main stream: 2560 x 1440@(1-25/30 fps) | | |
| | Sub stream: 704 x 576@(1-25 fps) | | |
| | 704 x 480 (1 fps-30 fps) | | |
| | | | |
| Resolution | 4M (2560 x 1440); 3M (2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720) | | |
| Bit Rate Control | CBR/VBR | | |
| Video Bit Rate | H.264: 32 kbps-6144 kbps | | |
| | H.265: 12 kbps-6144 kbps | | |
| Day/Night | Auto(ICR)/Color/B/W | | |
| Audio | Built-in Mic | | |
| Network | | | |
| Network | RJ-45 (10/100 Base-T) | | |
| Power | | | |
| Power Supply | 12V DC/PoE | | |
| Warranty | 2 Years | | |

4TB Internal SATA HDD (SEAGATE / WD / TOSHIBA)

| | | | |
|---------------------------------|------------|--|--|
| Interface | SATA 6Gb/s | | |
| Form Factor | 3.5-Inch | | |
| Bytes per Sector | 4096 | | |
| Max. Sustained Transfer Rate OD | 190MB/s | | |
| Cache, Multi segmented (MB) | 256 | | |
| Rotational Speed | 5400 RPM | | |
| Warranty | 3 Years | | |

POE Switch

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|------------------------|--|-------------------------------------|------------------------------------|
| PoE Ports | 8, 1000Mbps; RJ45 ports; Max. 30W Output of Single PoE Port Transmission distance: 0~100 | | |
| Switch Capacity | 20Gbps Full duplex | | |
| Uplink Ports | 2, 1000Mbps; Transmission Distance: 0-100m | | |
| Anti-thunder Level | Common mode: 2KV ; Differential mode: 2KV | | |
| ESD | Air discharge: 1.5KV ; Contact discharge: 1.5KV | | |
| Ethernet Port Light | Light off: Link is disconnected; Red light on: Powering but data disconnected ; Light flash quickly: Data Transmitting | | |
| Network Port | 10 | | |
| Transmission Distance | 0-100m/100 Mbps | | |
| PoE Power Supply | 1/2(+), 3/6(-) | | |
| PoE Standard | IEEE802.3af, IEEE802.3at | | |
| Packet Forwarding Rate | 1.488Mpps/port | | |
| MAC Address List | 2K | | |
| Power Source | Built-in Power Supply, Input: 110-264V AC, 50/60Hz | | |
| Power Consumption | <5W | | |
| Operating Temperature | -10°C~ -50°C | | |
| Warranty | 2 Years | | |

CAT6 UTP (DLink)

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|-----------------------------|---------------------------------------|-------------------------------------|------------------------------------|
| Category | 6 UTP Solid cable | | |
| Conductor | 23 AWG (Solid) | | |
| Conductor Meta | Bare Copper | | |
| Insulation Material | HD-PE | | |
| Resistance Unbalance | 5% Max | | |
| | | | |

DLink 9U Rack

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|--------------------|--|-------------------------------------|------------------------------------|
| DLink 9U Rack | 9U 550W 450D Wall Mount Steel Enclosure Front Door : Lockable Toughened Glass Door, Powder Coated, Basic Frame : Steel | | |

POE Switch Junction Box

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|-------------------------|---|-------------------------------------|------------------------------------|
| POE Switch Junction Box | 2U PVC Junction Box Rack Indoor Outdoor IP66 with Power Socket For DVR, NVR, POE, Networking Switch & Surveillance Security CCTV Camera Systems | | |

CCTV Camera box

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|--------------------|--|-------------------------------------|------------------------------------|
| CCTV Camera box | PVC Square Junction Box for CCTV Cameras | | |

LED TV

| <u>Item</u> | <u>Technical Specification</u> | <u>Complied Yes / No</u> | <u>Deviation If any</u> |
|--|---|-------------------------------------|------------------------------------|
| 55" 4K LED TV (Samsung/ LG/ Sony/ Acer | 139 cm (55 inches) 4K Ultra HD Smart LED TV | | |
| | Resolution : 4K Ultra HD (3840 x 2160) Refresh Rate : 60 Hertz | | |
| | Viewing Angle : 178 Degrees | | |
| | Connectivity : 3 HDMI ports to connect set top box or gaming console 1 USB ports to connect hard drives or other USB devices / Dual band Wifi | | |
| | Sound: 30 Watts Output | | |
| | Mounting Type : Wall Mount & Table Mount | | |
| | Warranty : Minimum 2 Years | | |

PERFORMA FOR SUBMISSION OF FINANCIAL BID
SUPPLY AND INSTALLATION OF CCTV SYSTEM

| SNo | Item | Qty | Make & Model | Basic rate for each quantity (in Rs) | Taxes / GST (in Rs) | Net Amount inclusive of taxes (In Rs) |
|------------|--|------------|-------------------------|---|----------------------------|--|
| 1. | 32 Ch NVR | 08 Nos | | | | |
| 2. | 4MP Full HD Dome Network Camera | 215 Nos | | | | |
| 3. | POE Switch 8Ch | 28 Nos | | | | |
| 4. | DLink CAT6 UTP Cable-305 mtrs | 18 rolls | DLink | | | |
| 5. | 4TB Internal HDD | 08 Nos | | | | |
| 6. | RJ45 Connector | 500 | DLink | | | |
| 7. | DLink 9U Rack | 02 Nos | | | | |
| 8. | POE Switch Junction Box (2U PVC) | 28 Nos | | | | |
| 9. | CCTV Camera Box | 215 Nos | | | | |
| 10. | 55" 4K LED TV Samsung LG Sony Acer | 05 Nos | | | | |
| 11. | Installation Charges (PVC Conduits etc will be provided). | | | | | |

**** The vendors are advised to visit the above mentioned site before quoting rates.**

(Signature of authorized signatory)

Name & Address of Firm .
Authorised Signature & Seal of the Firm

Place:

Date: