

Supply, Installation, commissioning of Body Camera System with Three years Comprehensive annual maintenance for CISF personnel at Mumbai Port Authority.

SCOPE OF WORK

1. CISF Unit at MbPA needs body-worn cameras for better surveillance purpose and efficient patrolling in Mumbai Port Authority area.
2. Body cameras should be SIM based which can transfer the recording to server in real time and record the videos in the gadget locally.
3. Bidder shall be responsible for Body cameras minimum warranty of 1 year and CAMC for next 3 years.

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATION:

BODYCAM REQUIREMENT:

- **High-quality video :**
Designed to capture high-quality video from the wearer's viewpoint
- **Capture the bigger picture with pre-record :**
Capturing unexpected interactions can mean the difference between conviction and acquittal. Pre-record captures a continuous loop of audio and video before the moment the camera starts recording.
- **Connected for a smarter response :**
Bluetooth and Wi-Fi deliver a powerful mix of capabilities. Live streaming connects your team to the control room, enhancing situational awareness. Integrated with Bluetooth sensors and beacons, automated recording functionality empowers your team to respond quickly in the moments that matter.

Detailed Technical Specifications of Items in Bill of Quantity (BOQ)

Specification of Body camera:

| Specification of Body Worn Camera with Live Streaming | | | Make: |
|---|--|--|------------|
| S.No | Parameters/Feature | Requirement | Model: |
| | | | Compliance |
| 1 | Image Sensor and Resolution | Should be CMOS 8 Mega Pixel or better | |
| 2 | Recording Resolution | 4K@30fps, 2K@30fps, 1080P@30fps, 720P@30fps, 480P@30fps | |
| 3 | Streaming Resolution | Should support 480P,720P, 1080P Resolution | |
| 4 | Field of view | Should be 132 Degrees and above | |
| 5 | Video Compression | Should be H.265 or better | |
| 6 | Video Format | Video: MP4/MKV/MOV or any format which can be played using free software like VLC media player. | |
| 7 | Primary Storage media | Should have Inbuilt memory - 128 GB or Up to 256GB | |
| 8 | Display size | Should be 2.2" LCD display or better | |
| 9 | Night vision | The camera should record clear image at Dark/low light conditions upto a distance of 8 Mtrs or better. | |
| 10 | Inbuilt Mic sensitivity Range | Inbuilt Mic should pick up the clear audio conversation | |
| 11 | Pre recording | up to 45s or better | |
| 12 | Post Recording | up to 30 min or better | |
| 13 | Data security | The device should be password protected device, The BWC data should not be erased by the user at BWC itself. Dedicated software should be provided with user credential feature for transferring the data from BWC to computer system. | |
| 14 | Dual Stream | The device should have Main Stream, Sub stream | |
| 15 | Battery Typé & Continuous Recording time | 1.Battery Type: Li-Ion or better (3050mAh) 2. Continuous recording time: should be 8 hours/battery or more at 720p | |
| 16 | On Screen display | Should display Date, Time, Battery Level, Network signal strength and Wi-Fi | |
| 17 | Indications | Indication for recording and Battery Charging | |
| 18 | Interface port | USB 2.0/USB 3.0/Micro USB & Type-C | |

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| 19 | GPS | Should have Inbuilt GPS | |
| 20 | Accessories | Suitable Charger, USB cable, Universal Metal Clip or unbreakable fiber clip 5, User manual and extra battery. | |
| 21 | Control buttons | Device should have buttons for Recording, Play back menu, On/Off. | |
| 22 | Date and Time stamp | The Date & Time stamp should be available on recorded video. | |
| 23 | Wi-Fi | Built-in Wi-Fi: 802.11b/g/n ,support both 2.4G and 5G frequency | |
| 24 | Bluetooth Support | Required | |
| 25 | Network support | The device should have suitable SIM slot to support 3G and 4G LTE network with auto fallback and vice versa feature. | |
| 26 | Protection | Should comply with IP 66 or better. | |
| 27 | Drop Resistance | Should be 2Mtr or better | |
| 28 | Certification | BIS, CE/FCC or equivalent Indian standard. | |
| 29 | Made in India | Required | |
| 30 | Operating Temperature | -30° to +60°C | |

| Specification of Docking Station with Screen | | | Make: |
|--|---|--------------------------------|------------|
| | | | Model: |
| S.No | Parameters/Feature | Requirement | Compliance |
| 1 | Display Screen | 7" Touch Screen | |
| 2 | Local Storage | 16TB , 2 HDD 8 TB in Each Port | |
| 3 | Charging ports | 10 | |
| 4 | Network | 1 RJ45, 10/100Mbps | |
| 5 | USB | 2 | |
| 6 | Operating Temperature | -10°C ~ 50°C | |
| 7 | Support upload data to centre FTP server | Yes | |
| 8 | Docking station also supports simultaneous backup and charge. | Yes | |
| 9 | automatically deletes the files that have been exported to the PC and also supports device password modification. | Yes | |
| 10 | Support local search and playback | Yes | |

| 1U Standard Rack Server Hardware Requirement | |
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| CPU | Intel Xeon E3-1230 Or Higher |
| RAM | 32 GB or Higher |
| HDD Capacity | 2 x 1TB SATA6Gb (RAID1) Or Above According to storage requirement) |
| Interface | LAN : 2 x 1000M LAN or Above |
| | VGA : 1 x VGA Interface |
| | HDMI : 1 x HDMI Interface |
| | USB : USB2.0 x 1, USB3.0 x 1 or More |
| Extended Socket | PCI-E3.0 x1 or More |
| OS Compatibility | Windows 10 |
| Power Supply | Equipped with UPS Uninterrupted Power Design |

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| Recommended Configuration (Client hardware spec) | |
| CPU | Core i7 10th gen or higher |
| RAM | 16 GB or Higher |
| HDD Capacity | 1TB or Higher |
| Graphic Card | AMD HD4650、NVIDIA GT710、Intel HD4000 or Higher |
| External Devices | Mouse, Keyboard, Speaker, Microphone etc. |
| OS Compatibility | Windows 10 |
| Display | Minimum 24 inches Compatible with Client PC |

Specification of UPS:

| Sr. No. | Requirements | Description |
|----------------|---------------------------------------|--|
| 1 | Main Input/ Output Voltage | 230 V |
| 2 | Rated power in W | 600 W |
| 3 | Rated power in VA | 1000 VA |
| 4 | output connection type | 4 India 3-pin 6A |
| 5 | Input connection type | India 3-pin 6A |
| 6 | Cable length | 1.5 m |
| 7 | Battery type | External battery system |
| 8 | Battery voltage | 12 V |
| 9 | Battery charger power | 288 W rated |
| 10 | Dimension | 22 cm X 14.5 cm X 39.2 cm |
| 11 | net weight | 9.3 kg |
| 12 | Network frequency | 40...70 Hz auto sensing |
| 13 | Input voltage limits | 140...300 V |
| 14 | Output frequency | 50 Hz +/- 1 Hz unsynchronised |
| 15 | Wave type | Stepped approximation to a sinewave |
| 16 | Efficiency | 92 % (full load) |
| 17 | Transfer time | 8 ms typical : 12 ms maximum |
| 18 | Product certifications | BIS |
| 19 | Ambient air temperature for operation | 0...40 °C |
| 20 | Relative humidity | 0...95 % non-condensing |
| 21 | Operating altitude | 0...3000 ft |
| 22 | Acoustic level | 50 dBA |
| 23 | IP degree of protection | IP20 |
| 24 | control panel | LED Status display with on line : on battery |
| 25 | Surge energy rate | 160 J |
| 26 | Colour | Black |
| 27 | UPS type | Square |
| 28 | Back Up Time | 40 min to 1 hr |

| | Minimum Eligibility Criteria for Camera OEM: |
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| 1 | OEM company for Camera 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. Camera 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 Camera, Storage, NVR/ VMS Software and Network Switches should not be a company having its major shareholding stake by any government or its entity or originated/founded by personnel of Defense origin or directly connected with land boarder countries. |
| 3 | The OEM of the 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. |
| 4 | CCTV Camera OEM should be fulltime member of ONVIF from last 10 years 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. ONVIF Report and Membership certificate to be submitted along with technical bid. |
| 5 | The CCTV & VMS OEM should have CMMI Level 5 or above certification. |
| 6 | The CCTV OEM should have below ISO Certifications for Quality, Environment, Security management and Health & Safty Management system for manufacturing of all types of Cameras & NVR/ DVR. All the CCTV Components 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 |
| 7 | The camera OEM should be a genuine manufacturer and should have offical valid H.265 HEVC certificate and should be listed on HEVC website at the time of submitting bid. They should be paying the licenced fee for using the genuine HEVC compression legally. The same will be cheked on following official website. https://www.mpegla.com/programs/hevc/licensees/ |
| 8 | The Camera OEM should comply to General Data Protection Regulation (GDPR) & Waste Electrical and Electronic Equipment (WEEE) . OEM need to submit its certificate with technical bid. |
| 9 | The CCTV OEM should have its office and service/ support centre in Maharashtra. Required sales, service tax number/ certificate to be provided along with the bid. |
| 10 | The Bidder(s) must propose 'Makes' that are in compliance to 'Make In India' guidelines of Government of India. The following are key Guidelines/Advisories/ Orders / Notifications published by published by Department of Expenditure (Ministry of Finance)/CERT-IN/MeitY/DIPP/DOT, Government of India and any Guidelines /Advisories/ Orders / Notifications published by Government for reference. > PPP-Make in India Order, from Department of Industrial Policy and Promotion > Procurement dated 23 July 2020 (F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure Public Procurement Division) |
| 11 | 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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| 12 | Mac ID of The product must me registered on the name of OEM |
| 13 | All Cameras, and Solution should be of Single OEM. |
| 14 | As per GeM GTC Clause 26 regarding Restrictions on procurement from a bidder of a country that shares a land border with India, the bidder must Submit a Compliance Letter on OEM's and Bidder's letterhead with Quoted Make and Model List in the prescribed format. Non-submission of the same or any false declaration and non-compliance of this would be a ground for disqualification/immediate termination of the contract and further legal action in accordance with the laws |
| 15 | 2. OEM should have listed with Ministry of Skill Development & Entrepreneurship/National Skill Development Corporation (NSDC) to provide skilled manpower through their SI/Self to cater buyer requirement. |
| 16 | The OEM should have an average Annual average turnover of Rs. 750 Crores during the last 3 Financial Year ending 31st March 2022. |
| 17 | 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. |
| 18 | OEM Brand should have been established in India at least for the last 10 years and should be supported with brand registration certificates like TM, COI, etc. |
| 19 | The OEM should not have any common directors who are also on the board of companies having beneficiaries from land border countries. |