



## INVITATION TO BID FOR THE SUPPLY, INSTALLATION, CONFIGURATION, TESTING, COMMISSIONING, ENGINEERING SERVICES AND TRAINING FOR A SMART SECURITY SURVEILLANCE (1 LOT)

1. The City Government of Naga, through the Local Development Fund (LDF), intends to apply the sum of Three Million (P 3,000,000.00) Pesos, being the ABC to payment under the contract for the Supply, Installation, Configuration, Testing, Commissioning, Engineering Services and Training for a Smart Security Surveillance at the Bicol Central Station (1 lot) for use as the new surveillance system at the Bicol Central Station/Central Bus Terminal, Project/Contract Reference Number: 2022-039. Bids received in excess of the ABC shall be automatically rejected at bid opening.

	Items	Approved Budget for the Contract (ABC) – 1 lot
1 lot	<p><b>Supply, Installation, Configuration, Testing, Commissioning, Engineering Services and Training for a Smart Security Surveillance (1 lot), with the following components:</b></p> <ol style="list-style-type: none"> <li>1. 1 unit Panoramic camera</li> <li>2. 8 units Bullet camera</li> <li>3. 2 units Automatic license plate recognition camera</li> <li>4. 12 units Dome camera</li> <li>5. 1 set Camera accessories, cabling system</li> <li>6. 1 unit Network video recording +storage</li> <li>7. 1 unit Centralized management server</li> <li>8. 2 units Network switch</li> <li>9. 2 units Video wall monitor</li> <li>10. 1 unit PTZ controller</li> <li>11. Installation, Configuration, Testing, Commissioning, Engineering Services, Turn-over and Training (installation must be clean, standard and structured)</li> </ol> <p>Note: Bidders must be registered/accredited IT systems generator; 3 years warranty; complete delivery and installation within 15 days from receipt of NTP; and, for the technical specifications and other details, please refer to the attached <b>Terms of Reference</b></p>	3,000,000.00



Republic of the Philippines  
**Bids and Awards Committee**  
*City of Naga, 4400*



2. The City Government of Naga now invites bids for the above Procurement Project. Delivery of the Goods is required within fifteen (15) calendar days from receipt of NTP. Bidders should have completed, within five (5) from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is open to all interested bidders, whether local or foreign, subject to the conditions for eligibility provided in the 2016 revised IRR of RA No. 9184.

4. Prospective Bidders may obtain further information from City government of Naga and inspect the Bidding Documents at the BAC Secretariat Office, Room 208 Second Floor, City Hall Building, City Hall Compound from 8:00AM to 5:00PM. The 6th edition of the Philippine Bidding Documents (PBDs) will be used.
5. A complete set of Bidding Documents may be acquired by interested Bidders on Thursday, November 10 to December 2, 2022 from the BAC Secretariat Office, Room 208 Second Floor, City Hall Building, City Hall Compound and may be downloaded at websites, [naga.gov.ph](http://naga.gov.ph) and [www.philgeps.gov.ph](http://www.philgeps.gov.ph) and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand (P 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person during the dropping of bids.
6. The City Government of Naga will hold a Pre-Bid Conference on Friday, November 18, 2022 at 3:00PM at the City Procurement Office, Ground Floor, City Hall Building, City Hall Compound, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the City Procurement Office, Ground Floor, City Hall Building, City Hall Compound, on or before 9:00AM on Friday, December 2, 2022. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on Friday, December 2, 2022, 10:00AM at the City Procurement Office, Ground Floor, City Hall Building, City Hall Compound. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.



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10. Additional information:
  - a) An Annual Registration Fee of Three Thousand (P 3,000.00) Pesos is required.
  - b) Forms in the PBD should be used in submitting proposals and should remain unaltered.
11. The City Government of Naga reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:
13. **ENGR. ALEXANDER N. CANING**  
Acting City Engineer, City Engineer's Office  
1st Floor City Hall Building, City Hall Compound, J. Miranda Avenue  
Concepcion Pequeña, Naga City 4400  
Mobile Number: +639175801165  
Email address: bac@naga.gov.ph, alexandercaning@gmail.com  
Website: www.naga.gov.ph

For downloading of bidding documents, you may visit the following websites: [www.philgeps.gov.ph](http://www.philgeps.gov.ph) / [www.naga.gov.ph](http://www.naga.gov.ph)

Date of Issue: November 10 to 17, 2022

**ALEXANDER N. CANING**  
Chairperson



# BCS Smart Security Surveillance System

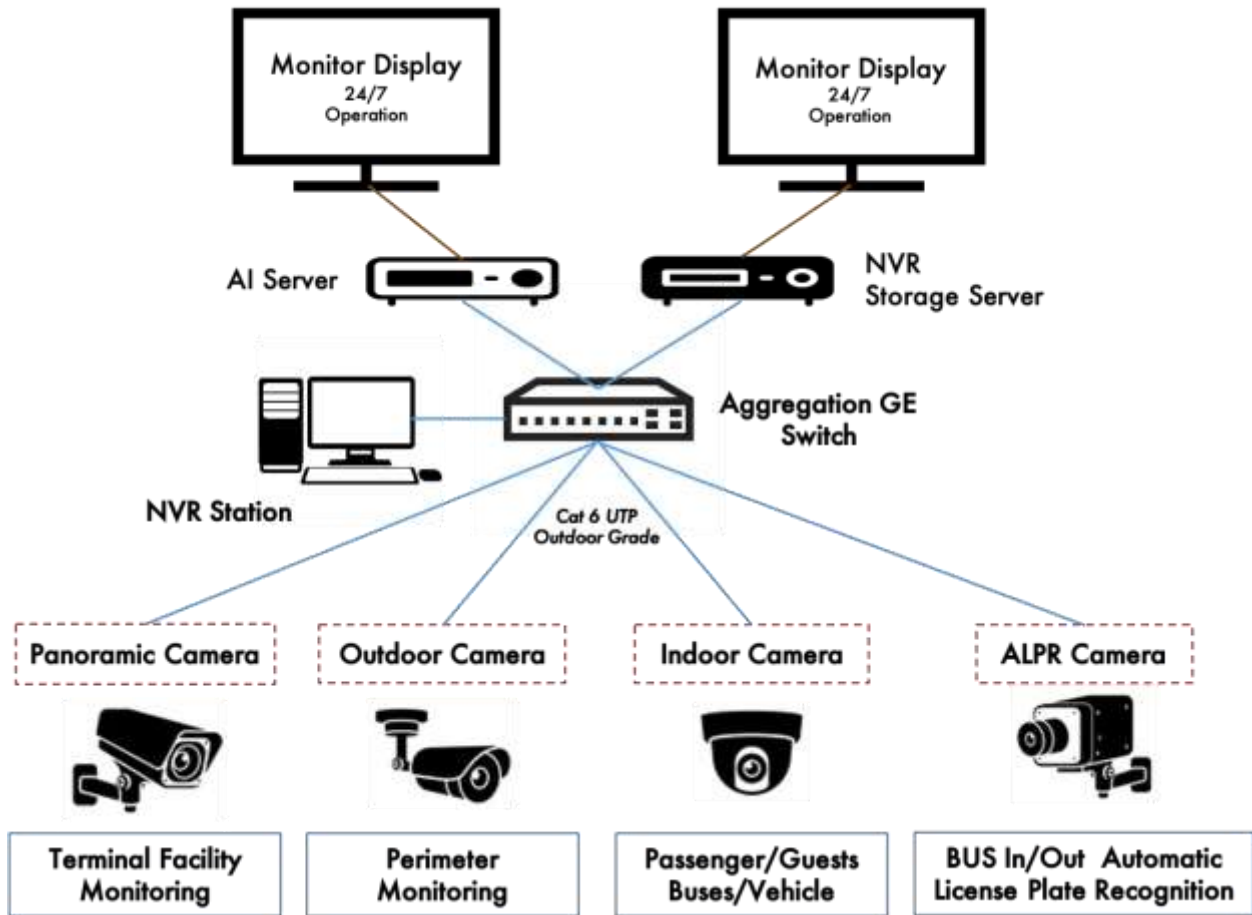
## Extended Eligibility Submittals

### System Integrator's (Bidder) Eligibility

Bidder must furnish:

- 1) Certified True Copy Certificate of the Bidder's Satisfactory Service for at least three (3) clients with the same nature of project.
- 2) Certified True Copy Certificate of Dealership/Resellership/Partnership from the Philippine distributor.
- 3) Certified True Copy Certificate of Conformity of Distributor to the Bidder, to bid for this Project
- 4) Certified True Copy Certificate of Acknowledgement from Manufacturer for this project.
- 5) Certified True Copy Certificate that Spare Units are locally available from Distributor.
- 6) Certified True Copy Certificate that the Bidder has available service center/s at least in Manila, an advantage if available also in Bicol; and a 48-hour response time after acknowledgement of Incident Report at no cost to Naga City/BCS for at least 1 year after acceptance of the project.
- 7) Certified True Copy Certificate from Manufacturer or Principal that the offered products (Hardware and Software) are intended for the Philippine Market.
- 8) Certification of General Data Protection Regulation (GDPR) issued by EU and EEA
- 9) Certified True Copy of ISO 4500 Certificate
- 10) Certified True Copy Certificate for at least 3 of its Certified Surveillance Engineers who will be assigned to this project.
- 11) Certified True Copy Certificate that all components proposed will support (3) years warranty
- 12) Certified True Copy Certificate (from Manufacturer) of Warranty that parts are available for the next 10 years.
- 13) Certified True Copy Certificate (from Manufacturer) that the solution proposed ONVIF Compliant (Profile G, M, S and T)

# BCS Smart Security Surveillance System Network Design Architecture



# BCS Smart Security Surveillance System Technology Specifications

Item	Specifications	Statement of Compliance <b>YES/NO</b> (provide Brochure/ Datasheet/Page/ Column/Line)
<b>Surveillance IP Cameras &amp; Accessories</b>		
1	<p><b>Panoramic + PTZ Network Camera</b></p> <ul style="list-style-type: none"> <li>• Minimum of 8 x 2MP</li> <li>• Lens type Panoramic Network Camera- Fixed-Focal</li> <li>• PTZ camera: Motorized Varifocal</li> <li>• Support 360-degree panoramic</li> <li>• Starlight + Technology</li> <li>• Must Support Smart H265+/H264+ encoding</li> <li>• Day/Night (ICR); 3D NR; AWB; AGC; BLC</li> <li>• Minimum of IR distance up to 220 m</li> <li>• Smart Tracking</li> <li>• Certification-CE-LVD: EN60950-1</li> <li>• CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU</li> <li>• FCC: 47 CFR FCC Part 15, Subpart B</li> <li>• UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07</li> </ul>	
2	<p><b>Vari-focal Bullet Network Camera</b></p> <ul style="list-style-type: none"> <li>• 4MP Vari-focal lens Bullet, 1/1.3" CMOS image sensor, low illuminance, high image definition, Outputs max. 4MP (2688 x 1520) @30 fps</li> <li>• Minimum IR distance: 60 m, ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments, Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes,</li> <li>• Electronic Shutter Speed Auto/Manual 1/3 s–1/100,000 s</li> <li>• White Balance Auto; natural; street lamp; outdoor; manual; regional custom</li> <li>• AI Intelligence Facial Capture; quickly picks up human/vehicle targets</li> <li>• Alarm: 3 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, 12V DC/PoE power supply, ePoE, IP67, IK10 protection, SMD 4.0, AI SSA.</li> <li>• Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P</li> <li>• Network protocol IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;</li> </ul>	

Item	Specifications	Statement of Compliance
	<p><b>Vari-focal Bullet Network Camera (cont.)</b></p> <ul style="list-style-type: none"> <li>• Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP</li> <li>• Supports Cyber Security-Video Encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;</li> <li>• IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade</li> <li>• Power Supply 12 VDC/PoE (802.3af)</li> </ul>	
3	<p><b>ALPR Bullet Network Camera</b></p> <ul style="list-style-type: none"> <li>• 2MP access ALPR camera</li> <li>• Motorized varifocal lens</li> <li>• High-quality image Industry-specific CMOS image sensor with high sensitivity, high SNR and excellent WDR provides lifelike images 24/7.</li> <li>• Integrated design with low power consumption, and support for IP67 protection grade</li> <li>• Storage1 built-in TF card port. Supports Kingston 16G, 32G, 64G, and 128G; Dahua 16G, 32G, 64G, and 128G;</li> <li>• SanDisk 16G, 32G, 64G, and 128G</li> <li>• Must Support H.265 &amp; H.264 triple stream codec, high compression rate, ultra-low bit rate.</li> <li>• Capture Range 3 m–6 m (9.84 ft–19.69 ft)</li> <li>• Detected Lane Width 3 m –4 m (9.84 ft–13.12 ft)</li> <li>• Vehicle Detection and Vehicle capture rate ≥99%</li> <li>• Vehicle recognition supports vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of the driver and front-seat passenger, and vehicle without the plate. Vehicle recognition rate ≥95%</li> <li>• Intelligent frame display. Supports displaying vehicle plate and vehicle path</li> <li>• Capable for Image Tampering Prevention; Video/picture can be checked through watermark and verification</li> <li>• Lens Mount Ø14</li> <li>• OSD Overlay Supports overlay of time, address (position of the channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)</li> <li>• Casing: Metal and plastic</li> <li>• H.264B: 32Kbps–32768Kbps; H.264M: 32Kbps–32768Kbps; H.264H: 32Kbps–32768Kbps</li> <li>• H.265: 32Kbps–32768Kbps; MJPEG: 512Kbps–65536Kbps</li> <li>• Network protocol- 1 100/1000M Ethernet port (RJ-45)</li> <li>• Power Supply 12V DC, 24V AC, PoE+ Certification; CE, FCC and RoHS</li> </ul>	



Item	Specifications	Statement of Compliance
4	<p><b>Dome Network Camera</b></p> <ul style="list-style-type: none"> <li>• 4MP IR Fixed-focal Dome Network Camera</li> <li>• 1/1.8" CMOS image sensor, low illuminance, high image definition, Outputs max. 4MP (2688 x 1520) @30 fps,</li> <li>• Must support H.265 &amp; H.264 triple stream codec, high compression rate, ultra-low bit rate.</li> <li>• Maximum IR distance: 50 m, ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments, Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes</li> <li>• Electronic Shutter Speed Auto/Manual 1/3 s–1/100,000 s</li> <li>• White Balance Auto; natural; street lamp; outdoor; manual; regional custom</li> <li>• AI Intelligence Face capture; quickly pick up the human/vehicle targets</li> <li>• Alarm: 3 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card,12V DC/PoE power supply, ePoE, IP67, IK10 protection, SMD 3.0.</li> <li>• Intelligent monitoring: Intrusion, tripwire, fast-moving (the three functions support the classification and accurate detection of vehicle and human). abandoned object, missing object, loitering detection, people gathering, parking detection heat map and face detection.</li> <li>• Capable for the field of View 2.8 mm: Horizontal: 113°; Vertical: 60°; Diagonal: 134°3.6 mm: Horizontal: 89°; Vertical: 48°; Diagonal: 104°6 mm: Horizontal: 56°; Vertical: 31°; Diagonal: 65°</li> <li>• Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P</li> <li>• Network protocol IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP;</li> <li>• SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;</li> <li>• Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP</li> <li>• Support Cyber Security-Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs;</li> <li>• IP/MAC filtering; Generation and importing of X.509</li> </ul>	
5	<p><b>Network Camera Accessories</b></p> <ul style="list-style-type: none"> <li>• Adapter</li> <li>• Bracket</li> <li>• Pole Mount for 3-10Kg Device</li> <li>• Bullet Pole Mount Bracket for 3-10Kg Device</li> <li>• Junction Box</li> <li>• Mounting Pole</li> </ul>	

Item	Specifications	Statement of Compliance
<b>Surveillance Management and Storage Systems</b>		
1	<p><b>Network Video Recorder</b></p> <ul style="list-style-type: none"> <li>• IP Camera input 32 channels with 8 HDD's AI support</li> <li>• Internal HDD 8 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity 1 eSATA port</li> <li>• Capable for 2 way Talk</li> <li>• Must Support Smart H.265+/H.265/Smart H.264+/H.264/MJPEG</li> <li>• Up to 4 Channel video metadata with 1 channel input, 1 channel output, RCA</li> <li>• Up to 12 Channel perimeter protection, SMD Plus</li> <li>• Up to 4 Channel video stream face recognition</li> <li>• Up to 16 face pictures/sec processing</li> <li>• Capable at least 20 face databases with 200,000 face images in total</li> <li>• Bandwidth 320mbps (160 Mbps when AI function enabled) must support stereo analysis technology, violence detection</li> <li>• Must support ALPR by the camera without any license</li> <li>• Must support facial recognition</li> <li>• Must support multi-screen display</li> <li>• Must support Compression Smart H.265+/H.265/Smart H.264+/H.264/MJPEG</li> <li>• Power Supply Single, AC100V–240V, 50–60 Hz</li> </ul>	
2	<p><b>Centralized Management Software with Server</b></p> <ul style="list-style-type: none"> <li>• Comprehensive and expandable VMS for flexible, scalable, reliable and powerful central management. The software provides basic functions such as user permission management, device management, alarm management, and central storage, but also</li> <li>• Delivers advanced features of video wall and map configuration, access control features, video intercom, and analytic functions such as face detection and object detection's compatible with all IP-enabled devices: network cameras, NVRs, DVRs, video intercom devices, and access control devices. 3rd party is also supported with limitation only.</li> <li>• Must have perpetual Video-license with Server R440 &amp; Win Svr 2019</li> <li>• Server R440 &amp; Win Svr 2019-4214*1-DDR4 16G-3.5' SATA 7200PRM 1T Enterprise HDD-550W- Server R440 &amp; Win Svr 2019-4214*1-DDR4 16G-3.5'</li> <li>• Win 2019</li> <li>• AI Application Support</li> <li>• Face detection, face recognition, video metadata</li> </ul>	

Item	Specifications	Statement of Compliance
	<p><b>Centralized Management Software with Server (cont.)</b></p> <ul style="list-style-type: none"> <li>• Automatic License Plate Recognition (ALPR) IVS (tripwire, intrusion, abandoned object, missing object, fast moving, parking detection, crowd gathering, loitering, parking, and fence-crossing), people counting, smoking detection, call</li> <li>• Support for 1,000 devices and 32 ALPR channels</li> <li>• Must support video device license and channel license of at least 256 licenses</li> </ul>	
<b>Network Switch System</b>		
1	<p><b>Network Gigabit Switch, Managed</b></p> <ul style="list-style-type: none"> <li>• 24-Port Gigabit Managed PoE Switch; L2</li> <li>• Can support 2 port 90W IEEE802.3bt</li> <li>• Support PoE watchdog</li> <li>• Must support max transmission distance 250mtrs and reduces transmission speed of 10mbps</li> <li>• QoS 8 output queues for each port Traffic shaping, port tag remarking QoS based on CoS/DPL/PCP QoS based on DSCP</li> <li>• User management HTTPS; SSH; SNMP; V1/V2/V3; ACL ;802.1x ; Loop protection</li> <li>• Power Supply 100V–240V AC</li> </ul>	
<b>Surveillance Display</b>		
1	<p><b>Video Wall Monitor</b></p> <ul style="list-style-type: none"> <li>• 55' inch FHD resolution</li> <li>• Suitable for continuous 24/7 operation</li> <li>• 9.5ms response time for no motion blur, judder or ghosting</li> <li>• 1.07B colors, for a realistic and immersive visual experience</li> <li>• Backlight LED</li> <li>• Brightness/Luminance :350cd/m<sup>2</sup></li> <li>• Contrast 1200:1</li> <li>• High-fidelity digital processing for a brilliant and vivid video</li> <li>• 178°/178° extra-wide viewing angle for overall viewing performance</li> <li>• Professional thermal design to extend equipment lifespan with the wall mount bracket</li> <li>• Can support multiple signals, such as HDMI, VGA, USB multimedia, Audio, RS232</li> </ul>	

Item	Specifications	Statement of Compliance
2	<b>PTZ Controller</b> <ul style="list-style-type: none"> <li>• Network Keyboard to Control · High Speed Dome · Standalone DVR</li> <li>• Network Video Server Connection · RS485, RS422 (Reserve), USB, RS232 &amp; Network Functions</li> <li>• Three Dimensional Joystick Control of PTZ Functions · Preset Position , Auto Scan, Auto Pan, Auto Tour &amp; Pattern Auxillary Functions</li> <li>• On-Screen Menu &amp; User Operation Procedure TIPS · Connect to Smartpss Platfrom via USB</li> </ul>	
<b>Installation, Configuration, Testing, Commissioning and Engineering Services</b>		
1	<b>Cabling and Connectors</b>	
	<ul style="list-style-type: none"> <li>• Cat-6 Outdoor cabling (Panduit or Belden preferred)</li> </ul>	
	<ul style="list-style-type: none"> <li>• Connectors (Panduit or Belden preferred)</li> </ul>	
<b>Support and Warranty</b>		
1	<b>Surveillance System</b> <ul style="list-style-type: none"> <li>• All products and systems delivered should support 3 years warranty</li> </ul>	
2	<b>Support Services</b> <ul style="list-style-type: none"> <li>• In-House/Actual and online configuration shall be done together with ITO and BCS technical support personnel</li> <li>• Support contact number/access; Landline, Mobile, email and Social Network Access</li> <li>• Support and escalation procedure and flowchart shall be provided</li> <li>• Design and documentation should be provided</li> </ul>	
3	<b>Education Services</b> <ul style="list-style-type: none"> <li>• In-House/Actual and online training (ITO/BCS) shall be provided</li> <li>• Training shall focus on User, System Administration and Basic Troubleshooting</li> <li>• Certification/Voucher is a Plus</li> </ul>	

## BCS Smart Security Surveillance System Configuration & Bill of Materials

Item	Description	Qty	Unit
1	Panoramic Camera	1	Pc
2	Bullet Camera	8	Pcs
3	Automatic License Plate Recognition Camera	2	Pcs
4	Dome Camera	12	Pcs
5	Camera Accessories, Cabling System	1	Set
6	Network Video Recording +Storage	1	Pc
7	Centralize Management Server	1	Pc
8	Network Switch	2	Pcs
9	Video Wall Monitor	2	Pcs
10	PTZ Controller	1	Pc
11	Installation, Configuration, Testing, Commissioning and Engineering Services, Turn over and Training	1	Set
	3 years warranty		