



**CONSULATE GENERAL OF INDIA**  
No. 4 Myin Pying Kwin Street  
Pyi Daw Thar Quarter  
Sittwe Township, Myanmar  
Tel: (0095) 43 2022918-19, 2022076  
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Email: [hoc.sittwe@mea.gov.in](mailto:hoc.sittwe@mea.gov.in)  
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No. Sit/Adm/885/04/2017

March 17, 2020

**Notice Inviting Tender**

**Subject: Supply, installation and maintenance of Closed Circuit Television (CCTV) Cameras at the Consulate General of India, Sittwe**

The Consulate General of India, Sittwe invites Technical and Financial Bids from authorised dealers/ contractors, reputed, experienced and financially sound companies, firms ("The Vendor") for supply, installation, commissioning and maintenance of Closed Circuit Television (CCTV) Camera System and other accessories at the Chancery building of the Consulate. The Cameras will be installed in the reception area, areas surrounding the building and the perimeter area.

2. The representatives of interested vendors may visit the site with prior appointment and submit their proposals/ rate quotations.
3. Tender documents can be downloaded from the Consulate website: [www.cgisittwe.gov.in/](http://www.cgisittwe.gov.in/) CPP Portal: [www.eprocure.gov.in](http://www.eprocure.gov.in).

<b>Date of publishing NIT</b>	:	<b>17.03.2020</b>
<b>Last date of submission of Tender</b>	:	<b>21.04.2020 (1200 hrs)</b>
<b>Opening of Technical Bid</b>	:	<b>21.04.2020 (1400 hrs)</b>

4. Technical and Financial Bid must be submitted separately in a sealed envelop clearly superscribed "TECHINCAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE" and "FINANCIAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE" along with all relevant documents to the "Head of Chancery, Consulate General of India, No. 4, Myin Pying Kwin Street, Pyi Daw Thar Quarter, Sittwe, Myanmar – 07011. Financial Bid submitted in a separate sealed envelop would be opened in respect of only those Bidders, whose Techincal Bids have been found meeting the required specifications at the Technical Bid evaluation stage. A bid sent through Fax or e-mail will not be accepted.

5. For any queries/ clarifications, e-mail may be sent to: [hoc.sittwe@mea.gov.in](mailto:hoc.sittwe@mea.gov.in) / [admn.sittwe@mea.gov.in](mailto:admn.sittwe@mea.gov.in)

6. The Consulate General of India, Sittwe reserves the right to reject any or all the bids without assigning any reason. The decision of the Consulate shall be final and binding.

7. The bidder or his authorised representative, who wish to be present, may attend the bid opening on the date and time specified.

**(Tsewang Gyaltsen)**  
**Consul & Head of Chancery**

Letter for Submission of tender

Dated \_\_\_\_\_,2020

To,

Head of Chancery  
Consulate General of India  
Sittwe, Rakhine State

Ref: Supply, Installation and Maintenance of Closed Circuit Television System (CCTV)  
at the Chancery building of the Consulate.

Dear Sir,

Having examined the tender document relating to the Supply, Installation and Maintenance of Closed Circuit Television System (CCTV), we hereby submit our offer for the supply of the proposed items in accordance with terms and conditions and confirm our acceptance to execute the order within the time period specified in the tender document, at the rates quoted by us in the accompanying Technical & Financial Bid.

We further confirm that –

- i. We have successfully executed orders of similar nature and we have sufficient experience and financial strength in handling orders of this value.
- ii. We have sufficient qualified manpower and necessary materials and after sales support to execute the order efficiently in the specified time schedule.
- iii. The quoted rates shall be valid not less than ninety (90) days from the date of opening of quotation.
- iv. We further confirm that all chapters of the tender documents have been read, understood and signed and there is no deviation/discrepancy.
- v. We agree to accept the extension order up to 100% quantity within three months of the issue of the order.

Signature of the Bidder  
With stamp and date

**Consulate General of India**  
**Sittwe**  
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No. Sit/Adm/885/04/2017

March 17, 2020

**1.0 GENERAL**

1.1 The CCTV system shall be used to monitor and record the data of the visitors coming from entry Gate of the Chancery, reception area and surrounding areas of the building and perimeter area. The vendor shall study the specifications and satisfy himself thoroughly and shall take full responsibility of the smooth, reliable and safe working. The representative of the vendor may visit the Consulate (herein referred as 'the site') prior to placing its bids for satisfying himself for supply of requisite items essential for smooth functioning of the system. Site can be inspected between 10 AM to 5 PM on all working days till 20.04.2020. No transportation allowance or any other incidentals shall be payable by the Consulate to any out-station vendor on account of initial site visit. However, transportation charges and other incidentals in respect of technician(s), if any, for final installation may be in Technical and Financial Bid must be submitted separately in a sealed envelop clearly superscribed **“TECHINCAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE”** and **“FINANCIAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE”** along with all relevant documents to the “Head of Chancery, Consulate General of India, No. 4, Myin Pying Kwin Street, Pyi Daw Thar Quarter, Sittwe, Myanmar – 07011. Financial Bid submitted in a separate sealed envelop would be opened in respect of only those Bidders, whose Technical Bids have been found meeting the required specifications at the Technical Bid evaluation stage. A bid sent through Fax or e-mail will not be accepted included in the quotation.

1.2 All items of instrument shall be completed in all respects and any instrument not covered in the specification but essential for proper installation, operation and maintenance of the instrument shall be included by the vendor in his offer and the reasons for such inclusion shall be clearly stated.

**2.0 SCOPE OF WORK**

2.1 The scope of work includes supply, installation and commissioning of CCTV System in accordance with the design & specifications given in ***"Annexure I Technical Bid A. TECHNICAL SPECIFICATIONS OF THE SECURITY SURVEILLANCE SYSTEM"***. In addition, the vendor will also undertake the maintenance of the complete system.

2.2 Supply of necessary spares.

2.3 Packaging, forwarding, transport, insurance, loading, unloading, precaution against damage during transit etc.

2.4 Performance Guarantee.

2.5 Two sets of operation and maintenance manuals.

2.6 Test Certificate: Vendor shall provide all necessary test certificates.

### **3.0 SAFETY**

3.1 All equipment items shall be complete with approved safety devices, wherever a potential hazard to personnel exists, and with provision for safe access to personnel to and around the instrument for operational and maintenance functions.

### **4.0 TIME FOR COMPLETION**

4.1 The vendor shall complete supply, installation and commissioning of the instrument within 2 months of placing the Purchase Order or the timeline specified by the Consulate.

### **5.0 TEST AND INSPECTION**

5.1 Inspection of the equipment will be done at the Consulate.

5.2 The vendor shall demonstrate all the features of the equipment mentioned in the technical specification.

5.3 The vendor is solely responsible for installation, commissioning and making the complete system operational at user's site.

### **6.0 OPERATION CONDITIONS**

6.1 All equipment shall be designed for smooth, efficient and trouble free operation in tropical humid climate of 45° C ambient and a humidity of 90% to 150%.

6.2 In cases where the offer deviates from the specification, the vendor shall indicate clearly in his offer the specification proposed by him along with details thereof and the reasons for the deviation. Each exception to the specification or other parts of the tender document shall be listed separately by the vendor. If exceptions are not clearly listed they will not be considered by the Purchaser later.

### **7.0 DOCUMENTS**

7.1 The vendor shall supply the hard and soft copy of Operation and Maintenance manual in duplicate. All necessary literature giving complete technical details shall be provided. He should also provide the test certificates given by manufacturer.

7.2 The vendor shall provide the original DVD/CD of all the software used for operating the system.

### **8.0 INSTALLATION & COMMISSIONING**

8.1 It is to be noted again that supply, installation and commissioning of the system with all accessories, auxiliaries, and any item not covered in the specification but essential for proper installation, operation and maintenance of the CCTV System shall be included and executed by the vendor.

8.2 The supply will not be deemed complete until the commissioning trial of the whole system is carried out by the vendor at the site successfully.

## **9.0 PERFORMANCE AND GUARANTEE (P. G.)**

9.1 All necessary tests shall be carried out at the site by the vendor to demonstrate whether performance of the instrument conforms to the relevant standards and specifications and meets the functional requirement indicated in the specification.

## **10.0 WARRANTY**

10.1 The warranty period for the equipment will commence from the date of commissioning of the entire system and not from the date of delivery or installation.

10.2 The vendor shall provide warranty for the entire system for a minimum period of twelve (12) months from the date of commissioning or for the duration of OEM warranty period whichever is longer.

10.3 The time period for product warranty will be the same as the service warranty.

10.4 The vendor shall be responsible for routine and breakdown maintenance of the equipment during warranty period.

## **11.0 MAINTENANCE**

11.1 The vendor shall also provide an Annual Maintenance Contract (AMC) for a period of three (3) years, commencing after the expiry of the initial product/service warranty, for maintaining the installed system and provide a dedicated on-call technician.

11.2 The AMC should include two (2) periodic maintenance service visit and site visit for repairing faults on detection as and when required.

## **12.0 SERVICE AGREEMENT**

12.1 The selected vendor shall have to sign a Non-Disclosure Agreement (NDA) on the service to be provided.

## **13.0 PAYMENT TERMS**

13.1 The payment will be released in full only after receipt, satisfactory installation/commissioning of the equipment in question and in good condition in the Consulate.

## **14.0 CAPABILITY AND EXPERIENCE**

14.1 The vendor shall have executed at least two (2) similar kind of work within last 3 years. The vendor shall submit along the offer the reference list of the similar work. Offers received without the reference list may be rejected.

## **15.0 TRAINING**

15.1 Vendor shall provide necessary on-site training at the Consulate about the working of CCTV System and the relevant software.

## **16.0 QUOTATION**

16.1 Interested vendors should submit Technical Bid and Financial Bid separately in a sealed envelop clearly superscribed “**TECHINCAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE**” and “**FINANCIAL BID FOR SUPPLY, INSTALLATION AND MAINTENANCE OF CCTV CAMERA SYSTEM AT CGI SITTWE**” along with all relevant documents within the specified date and time. A bid sent through Fax or e-mail will not be accepted.

16.2 Vendor can submit quotation in US Dollar or in Myanmar Kyats. The total rate quoted shall be exclusive of Tax.

## **17.0 CLARIFICATIONS**

17.1 For any clarification and appointment for site visit, the vendor may contact the Consulate by e-mail ([hoc.sittwe@mea.gov.in](mailto:hoc.sittwe@mea.gov.in)/ [admn.sittwe@mea.gov.in](mailto:admn.sittwe@mea.gov.in)) and Tel. No. +95-43-2022918, 2022919, Fax: +95-43-2022917

## **18.0 LAST DATE OF RECEIPT OF TENDER**

18.1 Tender will not be accepted if they are received after the due date and time as specified in the quotations letter i.e. **on 21.04.2020 1200 hrs.**

**18.2 The vendor shall be required to submit the complete layout plan before executing the work or submit the layout plan along with the Financial Bid.**

## **19.0 OPENING DATE OF TENDER**

19.1 The tender will be opened on **21.04.2020 1400 hrs** in the Consulate. The Technical Bids (**Annexure I**) will first be evaluated and only vendors who qualified in the Technical Bids will only be considered for further evaluation of Financial Bids (**Annexure II**).

## **20.0 CONSULATE GENERAL OF INDIA, SITTWE RESERVE THE RIGHT**

20.1. The right of acceptance of tender(s) will rest with Competent Authority. Also, the Consulate is not bound to accept the lowest tender and reserves the right to reject or partially accept any or all the tender(s) received without assigning any reasons thereof.

## TECHNICAL BID

### Annexure I

#### A. TECHNICAL SPECIFICATIONS OF THE SECURITY SURVEILLANCE SYSTEM

<b>DEVICE/ EQUIPMENT</b>	<b>PARTICULARS</b>	<b>MAKE</b>
<b>IP CCTV Camera</b>	2 to 4 MP Dome Varifocal/ Bullet Varifocal/ High Speed IP PTZ	Bosch/ Honeywell/ Pelco/ Panasonic/ Sony/ Samsung
<b>Network Video Recorder</b>	32 Channel, third-party network cameras supported, up to 5 Megapixels resolution recording, HDD quota and group management	Bosch/ Honeywell/ Pelco/ Panasonic/ Sony/ Samsung
<b>Surveillance-Optimised Storage</b>	8 TB HDD	Seagate, WD, LG
<b>POE Switch</b>	8 GE + 2 SFP port	Cisco/HP/ Alcatel-Lucent/ Any reputed brand
<b>Monitor</b>	43" and 32" LCD monitor, 4k display, HDMI, USB 3.0, Ethernet	Sony/ Reputed brand
<b>CAT 6a UTP Cable, Server Cabinet + Accessories</b>	Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs, 12/17/42U Server Cabinet & shelf, 16A 6 ways PDU with Universal Input Plug	Reputed brand
<b>PVC Conduit, Trunking + Accessories</b>	Adaptable to standard concealed wiring system as per IS: & BS: Virgin Suspension grade K-67 PVC.	Reputed brand

## B. MATRIX FOR TECHNICAL SPECIFICATIONS

Sl. No.	Product Description	Unit	Qty	Whether the Company would be able to provide the given Specifications and Quantity (Yes/ No)	If not, the nearest Specifications that the Company can provide	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	<b>CCTV System</b>					
1	Supply, Installation, Testing & Commissioning of Fixed Dome Indoor, 1080p or better True Day/Night Network Switching IP, 2-4 MP, H.265 Dome Camera with external/internal IR with 1/3" or 1/2.7" or better Progressive Scan. The cameras shall have a minimum illumination of 0.008 Lux @50 IRE in colour mode, 0.001 Lux@50 IRE in Black & White mode and 0 Lux with external IR alongwith weather protected features. <b>(Camera Should be - UL Listed)</b>	1				
2	Supply, Installation, Testing & Commissioning of Fixed Bullet Camera with 1/3" Progressive Scan CMOS Sensor, 0.008 Lux @ F1.2 Illumination with IR, Super WDR up to 120 db, 1920x1080 image resolution, H.265(HEVC)/H.264/MJPEG Video Compression alongwith weather protected features. <b>(Camera Should be - UL Listed)</b>	12				
3	Supply, Installation, Testing & Commissioning of High Speed Full HD PTZ Dome 1/1.8" or better CMOS Sensor, 2-3 MP Resolution, 36 Optical Zoom, 5-120 mm Focal Length, 255 Preset Position, 360 degree continuous Rotation, 8 group Cruise Track, 4 group Pattern Track, 0.01 Lux in Colour/0.001 Lux in B&W mode for minimum Illumination, H.265 Main Profile Encoding; MJMEG/JPEG Baseline Encoding. <b>(Camera Should be - UL Listed)</b>	1				
4	Supply, Installation, Testing & Commissioning of High Speed 32 CH NVR Video Output HDMI (1440x900 to 1920x1080) VGA (1440x900 to 1920x1080) CVBS (1440x900 to 1920x1080), Audio Input & Output supported, H.264 Video Compression, Audio Compression G711U, 4 SATA.	1				
5	Supply, Installation, Testing & Commissioning of Surveillance-Optimised storage of 8 TB capacity HDD	2				
6	Supply, Installation, Testing & Commissioning of 43 inches LED Monitor with 350 NITS Brightness.	1				
7	Supply, Installation, Testing & Commissioning of 32 inches LED Monitor with 350 NITS Brightness.	1				
8	Supply, Installation, Testing & Commissioning of 12/17/42U Rack for Switch Mounting with Fan	1				



	and Power Strip, PoU, Hardware Mounting Kit.					
9	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.	2				
10	Supply, Installation, Testing & Commissioning of 8/16 GE + 2 SFP Port PoE Switch, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps /1000 Mbps:14800pps.	2				
11	Supply, Installation, Testing & Commissioning of fully loaded 8/ 24 Port Patch Panel available in 1U 24 Port Density. Jack should be covered for prevention from dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold Cables with Velcro or Cable Ties. RoHS Compliant.	No.				
12	Supply, Installation, Testing & Commissioning of LC-LC Single Mode, 3 mtr Fiber Patch Cord in L.SOH Jacket, which reduces toxic/corrosive gases emitted during combustion.	No.				
13	Supply, Installation, Testing & Commissioning of 3 mtr Data Patch Cord in.	No.				
14	Supply, Installation, Testing & Commissioning of Category 6A Field Termination Plug designed to support 10 GB Networks that can be easily terminated using parallel Jaw Pliers.	Meter				
15	Supplying and Drawing 3x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in the existing surface/ recessed steel/ PVC Conduit as required.	Meter				
16	Supplying and Fixing of 25 sizes of medium class PVC Conduit alongwith accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	Meter				
17	Supply & Laying of standardized 40 mm HDPE Pipe (Medium) inside the soft soil in depth of approx. 75 cm including Bends, Inspection Box and all other material required to complete.	Meter				
18	Pole 6 meter Galvanized Pole	No.				
19	Trenching	Meter				
20	Junction Box	Nos				
21	Annual Maintenance Contract	3 yrs				
22	<b>Any other Material/Equipment/ accessories and Specification thereof</b>					
(a)						
(b)						
(c)						
(d)						

**“UNDERTAKING”**

**It is hereby certified that M/s..... (Name of the Company) is capable of providing and undertakes to provide above “Specifications and Quantity” at the time of supply, installation, testing and commissioning of the CCTV System.**

**(Seal & Signature of the authorised Company Representative)**

**Name & Address:**

### C. GENERAL INFORMATION

1	Name and Address of the Bidder	
2	Contacts	
3	Telephones	
4	Mobile no.	
5	Fax	
6	E-mail	
7	Category of the Bidder (Whether company, partnership firm or Proprietary concern)	
8	Name of Chief Executive Officer and Telephone no.	
9	Year of Establishment	
10	Name and address of the Banker	
11	a. Name of the proposed brand of CCTV Camera system	
	b. Whether the bidder is an authorised distributor of the OEM	
12	List of major Clients and the size of orders executed	

Note: Separate sheets may be attached wherever necessary.

**(Seal & Signature of the authorised  
Company Representative)  
Name & Address**

## D. DESIRED SPECIFICATIONS FOR THE PROPOSED CCTV CAMERAS

<b>2-4 Megapixel H.265 Vandal Proof Network Dome IR Camera</b>		
<b>KEY FEATURES</b>		
<ul style="list-style-type: none"> <li>- 0.008 Lux</li> <li>- H.265 High Efficiency Video Coding</li> <li>- Integrated Motorized Varifocal Lens (Auto focus)</li> <li>- Built-in ICR Filter for Day/Night switching</li> <li>- Built-in web server for IE/Firefox/Chrome/Safari preview</li> <li>- 3D-DNR, Privacy Masking and Motion Detection</li> <li>- Built-In efficient IR LEDs, IR distance up to 30m</li> <li>- Weather-proof IP-67 rated housing</li> <li>- Built-in 802.3af Compliant PoE</li> <li>- Support ONVIF Profile S</li> </ul>		
<b>IP VIDEO SURVEILLANCE SOLUTION</b>		
	<b>DESCRIPTION</b>	<b>SPECIFICATIONS</b>
<b>CAMERA</b>	Image Sensor	1/3" Progressive Scan CMOS
	Min. Illumination	Color: <a href="#">0.008Lux@F1.2</a> , B/W: 0Lux with IR on
	WDR	Super WDR up to 120dB
	Supply, Installation, Testing & Commissioning of Surveillance-Optimised storage of 4TB capacity HDD/Lens	3.6mm
	Field of View	H78.4°~H26.2° (2.8~12mm)
	Shutter Time	1/100000s~1/5s
	IR Distance	Up to 30m
	Day & Night	ICR Filter Auto Switch
	Max Image Resolution	1920X1080
	<b>VIDEO</b>	Frame Rate
Video Compression		H.265(HEVC) / H.264 / MJPEG
Video Bit Rate		160Kbps~16Mbps(CBR/VBR Adjustable)
Image Setting		Brightness/Contrast/Saturation/Sharpness
<b>NETWORK</b>	Ethernet	1*RJ45 10M / 100M Ethernet Port
	Network Storage	NAS(Support NFS, SMB/CIFS)
	Protocol	TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPNP, SIP, IPv6, PPPoE, VLAN
<b>AUDIO</b>	Audio Streaming	Built-in Microphone
	Audio Compression	G.711 and AAC
<b>SYSTEM</b>	Advanced Function	Motion Detection, Privacy Masking, Backlight Compensation, 3D-DNR, ROI
	SIP/VoIP Support	Yes, Voice & Video over IP
	Event Trigger	Motion Detection, Network Disconnection, etc.

	Event Action	FTP Upload/SMTP Upload/SIP Phone
	System Compatibility	ONVIF Profile S
GENERAL	Power Supply	PoE
	Power Consumption	2.5W MAX, 5.5W MAX (With IR on) <b>{can be removed}</b>
	Weather Proof	Up to IP67 Rating for Weather-resistant
	Certification	CE, FCC, Rohs

NETWORK BULLET IR CAMERA (FIXED)		
KEY FEATURES		
	DESCRIPTION	SPECIFICATIONS
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Min. Illumination	Color: <a href="#">0.008Lux@F1.2</a> , B/W: 0Lux with IR on
	WDR	Super WDR up to 120dB
	Lens	3.6mm
	Field of View	H78.4°~H26.2° (2.8~12mm)
	Shutter Time	1/100000s~1/5s
	IR Distance	Up to 30m
	Day & Night	ICR Filter Auto Switch
	Max Image Resolution	1920X1080
VIDEO	Frame Rate	20fps(2592x1520) 25fps(2304x1296) 25fps(1920x1080)
	Video Compression	H.265(HEVC) / H.264 / MJPEG
	Video Bit Rate	160Kbps~16Mbps(CBR/VBR Adjustable)
	Image Setting	Brightness/Contrast/Saturation/Sharpness
NETWORK	Ethernet	1*RJ45 10M / 100M Ethernet Port
	Network Storage	NAS(Support NFS, SMB/CIFS)
	Protocol	TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPNP, SIP, IPv6, PPPoE, VLAN
AUDIO	Audio Streaming	N/A
	Audio Compression	N/A
SYSTEM		
	Advanced Function	Motion Detection, Privacy Masking, Backlight Compensation, 3D-DNR, ROI
	SIP/VoIP Support	Yes, Voice & Video over IP
	Event Trigger	Motion Detection, Network Disconnection, etc.
	Event Action	FTP Upload/SMTP Upload/SIP Phone
	System Compatibility	ONVIF Profile S
	Power Supply	PoE

GENERAL	Power Consumption	5.5W MAX, 9.5W MAX (With IR on) <b>{can be removed}</b>
	Weather Proof	Up to IP67 Rating for Weather-resistant
	Certification	CE, FCC, Rohs

NETWORK BULLET IR CAMERA (MOTORIZED)		
<b>KEY FEATURES</b>		
<ul style="list-style-type: none"> <li>- 0.008 Lux</li> <li>- Super WDR up to 140 dB</li> <li>- H.265 High Efficiency Video Coding</li> <li>- Integrated Motorized Varifocal Lens (Auto focus)</li> <li>- Built-in ICR Filter for Day/Night switching</li> <li>- Built-in web server for IE/Firefox/Chrome/Safari preview</li> <li>- 3D-DNR, Privacy Masking and Motion Detection</li> <li>- Built-In efficient IR LEDs, IR distance up to 30m</li> <li>- Weather-proof IP-67 rated housing</li> <li>- Built-in 802.3af Compliant PoE</li> <li>- Support ONVIF Profile S</li> </ul>		
IP VIDEO SURVEILLANCE SOLUTION		
	DESCRIPTION	SPECIFICATIONS
CAMERA	Image Sensor	1/3" Progressive Scan CMOS
	Min. Illumination	Color: <a href="#">0.008Lux@1.2</a> , B/W: 0Lux with IR on
	WDR	Super WDR up to 120dB
	Lens	Motorized 2.8 ~ 12mm
	Field of View	H78.4°~H26.2° (2.8~12mm)
	Shutter Time	1/100000s~1/5s
	IR Distance	Up to 30m
	Day & Night	ICR Filter Auto Switch
	Max Image Resolution	1920x1080
VIDEO	Frame Rate	20fps(2592x1520) 25fps(2304x1296) 25fps(1920x1080)
	Video Compression	H.265(HEVC) / H.264 / MJPEG
	Video Bit Rate	160Kbps~16Mbps(CBR/VBR Adjustable)
	Image Setting	Brightness/Contrast/Saturation/Sharpness
NETWORK	Ethernet	1*RJ45 10M / 100M Ethernet Port
	Network Storage	NAS(Support NFS, SMB/CIFS)
	Protocol	TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPNP, SIP, IPv6, PPPoE, VLAN
AUDIO	Audio Streaming	N/A
	Audio Compression	N/A
	Advanced Function	Motion Detection, Privacy Masking, Backlight Compensation, 3D-

SYSTEM		DNR, ROI
	SIP/VoIP Support	Yes, Voice & Video over IP
	Event Trigger	Motion Detection, Network Disconnection, etc.
	Event Action	FTP Upload/SMTP Upload/SIP Phone
	System Compatibility	ONVIF Profile S
GENERAL	Power Supply	PoE
	Power Consumption	5.5W MAX, 9.5W MAX (With IR on) <b>{can be removed}</b>
	Weather Proof	Up to IP67 Rating for Weather-resistant
	Certification	CE, FCC, Rohs

High Speed full HD PTZ Dome (36X) Camera		
<b>KEY FEATURES</b>		
<ul style="list-style-type: none"> <li>- 2-3 MP Resolution</li> <li>- 36x Optical Zoom</li> <li>- 5-120 mm Focal Length</li> <li>- 255 Preset Position</li> <li>- 360 Consinuous Rotation</li> <li>- 8 Cruise Track</li> <li>- 4 Pattern Track</li> </ul>		
Sl.No	Description	Specification
1.	Signal model	PAL / NTSC
2.	Image Sensor	1/1.8" or better CMOS
3.	Effective pixel	2084(H)* 1536(V)
4.	Horizontal Resolution	2-3 MP
5.	Minimum Illumination	Colour-0.01 lux / B&W - 0.001 Lux
6.	S/N ratio	>60dB
7.	Backlight compensation	On/Off
8.	White balance	Auto
9.	Electronic shutter	PAL:1/25~1/100000s NTSC:1/30~1/100000s
10.	Focus length	5-120mm
11.	Optical focus	36x
12.	Focus system	Auto/Manual
13.	IR distance	150M
14.	IR light control	Intelligent control technology
15.	IR light angle	Infrared zoom matching technology
16.	IR light power	Auto setting
17.	IR on	Day/Night/Auto/Timing
18.	IR Life	30000 hours
19.	Horizontal range	360° Continuous rotation
20.	Vertical range	(-90°~0°)

**CAMERA**

21.	Preset call speed	Max 200°/S	<b>SYSTEM</b>
22.	Manual call speed	0.01°~180°/S	
23.	Presets	255	
24.	Cruise track	8 groups, each group for 16 presets	
25.	Patrol tract	4 groups, each group record 3 mins	
26.	Video compression	H.265 Main Profile encoding ; MJPEG /JPEG Baseline encoding	
27.	Audio compression	G.711, G.726	<b>SYSTEM</b>
28.	Primary stream	2048*1536 25fps	
29.	Secondary stream	720P, VGA 25fps	
30.	Video bit rate	32Kbps-16Mbps continuously adjustable, support CBR / VBR	
31.	Alarm Input / Output	Yes 1/1	
32.	Network protocol	TCP/IP,UDP,RTSP,RTCP,HTTP,DNS,DDNS, DHCP,FTP,NTP,PPPOE,SMTP,UPNP	
33.	ONVIF support	Support	<b>GENERAL</b>
34.	Cooling Structure	Dustproof structure outside the circle	
35.	Protection level	IP66	
36.	Power supply / PoE	DC12V(4A)/PoE Supported	
37.	Certification	CE, FCC, RoHS	

### **Other Technical Specifications**

<b>32 CH NVR (4HDD)</b>		
<b>KEY FEATURES</b>		
<ul style="list-style-type: none"> <li>- P2P cloud service, including cloud connecting, cloud monitoring, cloud transmitting to access IPC and NVR at any time and any place.</li> <li>- Support Onvif protocol, support High profile S, High profile G, compatible with different IP camera that based on Onvif, RTSP standard.</li> <li>- Support for H.264+ encoding format streaming access and decoding output</li> <li>- Support megapixel HD network video preview, storage and playback</li> <li>- Support search, playback and backup by event</li> <li>- Support all channel image display on one screen at same time, support 4 channels' image display by mainstream and 4 channels playback</li> <li>- Support monitor PTZ on preview mode</li> </ul>		
S.No	DESCRIP-TION	SPECIFICATION
1	Operation System	Embedded LINUX system
2.	Dual Stream	Channel can set main stream and sub stream
3.	Video Standard	H.264+/H.264
4.	Monitoring Image	4K / 5MP / 3MP / 2MP / 1.3MP / 1MP



	QualitySupply, Installation, Testing & Commissioning of Surveillance- Optimised storage of 4TB capacity HDD	
5.	Image Motion Image	Each screen can set multiple detection areas and set 6-level sensitivity
6.	Recording Playback Quality	Any 4ch 8MP playback/9ch 5MP playback/16ch 2 MP playback simultaneously
7.	Recording Mode	Support manual, auto, dynamic detection, alarm trigger record mode
8.	Backup Way	Support U disk, USB mobile HDD, USB DVDRW, network storage and backup (Partly needs IPC Support)
9.	Operation Way	Mouse, Keyboard
10.	Local Login	Username and password
11.	Recording Storage	Local HDD, network
12.	Video Input (mode)	1) 32x(3840*2160)+sub[960*576]+4Ref.+4Play H.264+8M/ch 32ch 4K IP Camera 2) 32x(2592*1944)+sub[960*576]+4Ref.+9Play H.264+8M/ch 32ch 5MP IP Camera 3)32x(1920*1080)+sub[960*576]+4Ref.+16Play H.264+4M/ch 32ch 2MP IP Camera
13.	Audio Input	32ch network audio input
14.	Video Output	1ch VGA+1ch HDMI
15.	Audio Port	1ch RCA output
16.	Network Port	1 RJ45, 10M/100M/1000M self-adaptive LAN
17.	RS485 Port	Full duplex standard 485 port
18.	USB Port	1USB 3.0 Port, 2 USB 2.0 ports
19.	Alarm Input / Output	4ch / 4ch
20.	HDD Port	4xSATA+1xE-SATAHDD Port
21.	Max Capacity	Each Port supports MAX 6 TB HDD
22.	Mobile Surveillance	Supported
23.	Certification	CE, FCC, RoHS

**DATA SHEET FOR 16 GE + 2 SFP PORT POE SWITCH**

Sl. No.	DESCRIPTION	SPECIFICATION
1	PoE Port	16*10/100/1000 port support IEEE802.3af/at
2	SFP port	Yes

3	PoE port output power	15.4W/30W IEEE802.3af/at
4	PoE power supply pins	Both 1/2+, 3/6- and 4/5+, 7/8-
5	Transmission distance	100 ~ 150m
6	Protocol standard	IEEE802.3af/IEEE802.3at
7	PoE type	End-span
8	Network standard	IEEE 802.3, IEEE802.3u, 802.3x, 802.3af/at
9	Network medium	10/100/1000Mbps 5 class and above non shielded twisted pair
10	Network Signal Distance	<150m
11	Switch capability	7.2Gbps
12	Forwarding Mode	Store and forward
13	Forwarding Rate	100Mbps:14880pps / 1000Mbps:14800pps
14	MAC Address	MAC address table 8K
15	Port function	Power priority mechanism, fast and forward, MAC IEEE802.3X Full-duplex and mode and backpressure for Half-duplex mode
16	Indicator	Each port occupied 1 LINK/ACT.100Mbps POE Status Indicator, Whole power indicator
17	Working Temperature	-10° ~ 55° C
18	Input power	AC100-240V 50/60HZ
19	Whole power	250W

## FINANCIAL BID

### Annexure I

#### A. MATRIX FOR FINANCIAL BID

Sl. No.	Product Description	Unit	Qty	Warranty (Months)	Rate per Unit	Total Cost (Rate x Qty) (US\$/ MMK)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	<b>CCTV System</b>					
1	Supply, Installation, Testing & Commissioning of Fixed Dome Indoor, 1080p or better True Day/Night Network Switching IP, 2-4 MP, H.265 Dome Camera with external/internal IR with 1/3" or 1/2.7" or better Progressive Scan. The cameras shall have a minimum illumination of 0.008 Lux @50 IRE in colour mode, 0.001 Lux@50 IRE in Black & White mode and 0 Lux with external IR alongwith weather protected features. <b>(Camera Should be - UL Listed)</b>	1				
2	Supply, Installation, Testing & Commissioning of Fixed Bullet Camera with 1/3" Progressive Scan CMOS Sensor, 0.008 Lux @ F1.2 Illumination with IR, Super WDR up to 120 db, 1920x1080 image resolution, H.265(HEVC)/H.264/MJPEG Video Compression alongwith weather protected features. <b>(Camera Should be - UL Listed)</b>	12				
3	Supply, Installation, Testing & Commissioning of High Speed Full HD PTZ Dome 1/1.8" or better CMOS Sensor, 2-3 MP Resolution, 36 Optical Zoom, 5-120 mm Focal Length, 255 Preset Position, 360 degree continuous Rotation, 8 group Cruise Track, 4 group Pattern Track, 0.01 Lux in Colour/0.001 Lux in B&W mode for minimum Illumination, H.265 Main Profile Encoding; MJMEG/JPEG Baseline Encoding. <b>(Camera Should be - UL Listed)</b>	1				
4	Supply, Installation, Testing & Commissioning of High Speed 32 CH NVR Video Output HDMI (1440x900 to 1920x1080) VGA (1440x900 to 1920x1080) CVBS (1440x900 to 1920x1080), Audio Input & Output supported, H.264 Video Compression, Audio Compression G711U, 4 SATA.	1				
5	Supply, Installation, Testing & Commissioning of Surveillance-Optimised storage of 8TB capacity HDD	2				
6	Supply, Installation, Testing & Commissioning of 43 inches LED Monitor with 350 NITS Brightness.	1				
7	Supply, Installation, Testing & Commissioning of 32 inches LED Monitor with 350 NITS Brightness.	1				

8	Supply, Installation, Testing & Commissioning of 12/17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.	1				
9	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware Mounting Kit.	1				
10	Supply, Installation, Testing & Commissioning of 8/16 GE + 2 SFP Port PoE Switch, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, Protocol Standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps /1000 Mbps:14800pps.	2				
11	Supply, Installation, Testing & Commissioning of fully loaded 8/ 24 Port Patch Panel available in 1U 24 Port Density. Jack should be covered for prevention from dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold Cables with Velcro or Cable Ties. RoHS Compliant.	No.				
12	Supply, Installation, Testing & Commissioning of LC-LC Single Mode, 3 mtr Fiber Patch Cord in L.SOH Jacket, which reduces toxic/corrosive gases emitted during combustion.	No.				
13	Supply, Installation, Testing & Commissioning of 3 mtr Data Patch Cord in.	No.				
14	Supply, Installation, Testing & Commissioning of Category 6A Field Termination Plug designed to support 10 GB Networks that can be easily terminated using parallel Jaw Pliers.	Meter				
15	Supplying and Drawing 3x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in the existing surface/ recessed steel/ PVC Conduit as required.	Meter				
16	Supplying and Fixing of 25 sizes of medium class PVC Conduit alongwith accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	Meter				
17	Supply & Laying of standardized 40 mm HDPE Pipe (Medium) inside the soft soil in depth of approx. 75 cm including Bends, Inspection Box and all other material required to complete.	Meter				
18	Pole 6 meter Galvanized Pole	No.				
19	Trenching	Meter				
20	Junction Box	Nos				
21	Annual Maintenance Contract	3 yrs				
22	<b>Any other Material/Equipment/ accessories and Specification thereof</b>					

- (a)
- (b)
- (c)

(d)

23 Any other Charges

**Total (in figure)**

**Total (in words)**

- Note:
1. The Financial Bid shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.
  2. The total quoted price should include all travel cost, shipping charges and other administrative cost, if any, that may be incurred by the vendor as part of this project.
  3. The total cost for each items should be clearly mention. Price quoted only on rate per unit basis will not be accepted.
  4. Separate sheets may be attached wherever necessary.

**(Seal & Signature of the authorised Company Representative)**

**Name & Address:**