

No. Lis/815/01/2022  
**Embassy of India  
Lisbon**

February 4, 2022

**TENDER NOTICE**

**SUPPLY, INSTALLATION AND COMMISSIONING OF CCTV CAMERAS WITH THREE YEAR ANNUAL MAINTENANCE CONTRACT**

Embassy of India, Lisbon invites Tenders under two-bid system from professionally qualified and registered firms for Supply, Installation, Testing and Commissioning of Closed Circuit Television (CCTV) Camera system with 30 days recording at its following two properties, along with Annual Maintenance Charges (AMC) of the CCTV systems for three years.

- I. Rua Pero da Covilha 16, Restelo, 1400-297 Lisbon
- II. Avenue da Torre de Belem 10, 1400-343 Lisbon

**Tender Documents**

Sl. No.	DETAILS
1	Annexure I - General Instructions / Scope of work
2	Annexure II – Technical Bid Proforma
3	Annexure III – Financial Bid Proforma

2. Interested companies are requested to submit / send sealed tender, addressed to the Head of Chancery, Embassy of India, Rua Pero da Covilha 16, Restelo, Lisbon. The sealed tenders should reach the Embassy before the deadline of 5.00 p.m. on 28 February, 2022.

sd/-  
(J.S. Parmar)  
Head of Chancery  
Embassy of India  
Lisbon

No. Lis/815/01/2022

**Embassy of India**

**Lisbon**

1. **GENERAL**

- a. Bids and all accompanying documents shall be in English only.
  - b. The basic Qualifying Criteria are as follows:
    - i. The bidder should be a company or firm duly registered with the concerned authorities in Portugal. Bidder must be a firm with a past record of providing CCTV security installations in Portugal.
    - ii. At least five years of experience in the field.
    - iii. The Service Provider should be based in Lisbon, Portugal.
  - c. All bidders should submit along with the Tender the following documents:
    - i. Separate bids in the prescribed Technical Bid Document and Financial Bid Document (proformas attached in Annexure II and III).
    - ii. Both the above documents must be signed by authorized signatories of the bidding firm with a seal / stamp.
    - iii. Self-attested photo-copy of registration of the company with the concerned Portuguese authorities.
    - iv. Details of experience in the field of CCTV security installations with Embassies /reputed Companies/Government agencies.
2. If required technical specifications as per Annexure-II cannot be met, the Bidder must mention the nearest specifications that can be provided by the company in clear terms against each column of the Annexure-II (**MATRIX FOR TECHNICAL SPECIFICATIONS.**)
3. The bids will remain valid for 180 days from tender closing, for award of contract after obtaining approval of competent Indian authorities. No price escalation would be allowed.
4. Price quoted should be on an all-inclusive basis and shall include the cost of all equipments, personnel, transportation, rentals, taxes, consumables, VAT, warranty, etc. No extra cost beyond the quoted amount shall be payable on any account.
5. At any time prior to the deadline for submission of bids, Embassy of India, Lisbon may, for any reason, whether on its own initiative or in response to the clarification requested by a prospective bidder, modify the tender document.
6. The company would be responsible for its workers in terms of their antecedents and conduct, service performance and behaviour as also the payment of salaries, compensation etc. 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 site prior to placing its bids for satisfying himself for supply of requisite items essential for smooth functioning of the system.

## **7. SCOPE OF WORK**

- a. The scope of work includes supply, installation, testing and commissioning of CCTV System at Embassy of India, Lisbon in accordance with specifications given in "Annexure II - Technical Bid. The bidder should also include the Annual Maintenance Charges (AMC) of the CCTV system for three years beyond warranty period in the Financial Bid. The cost of AMC will also be taken into consideration for evaluation of the Tender.
- b. Packaging, forwarding, transport, insurance, loading, unloading, precaution against damage during transit etc. is responsibility of the vendor.
- c. It is to be noted 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. TIME FOR COMPLETION**

- a. The vendor shall complete supply, installation and commissioning of the system within 2 months of placing the Purchase Order or the timeline specified by the Embassy.
- b. The winning bidder would be required to dedicate one supervisor/manager who can be contacted for all queries/requirements.

## **9. INSTALLATION & COMMISSIONING**

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. 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. WARRANTY**

- a. The supplier will provide the warranty of at least 12 months. 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.
- b. The time period for product warranty will be the same as the service warranty.
- c. The vendor shall also provide an Annual Maintenance Contract (AMC) for a period of 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. NON-DISCLOSURE AGREEMENT**

The selected vendor will be required to sign a Non-Disclosure Agreement for non-sharing of confidential information with any third party.

## **12. PAYMENT TERMS**

No advance payment will be made. The payment will be released in full only after receipt, satisfactory installation/ commissioning of the equipment in question and in good condition.

13. **TRAINING**

After the testing and commissioning, the Vendor shall provide necessary on-site training at the Embassy to the personnel who are selected to operate the System operation and monitor the feed.

14. **QUOTATION**

Technical and Financial Bids must be submitted in two separate sealed covers (**Envelop A** – superscribed with “**TECHNICAL BID DOCUMENTS**” & **Envelop B** - superscribed with “**FINANCIAL BID DOCUMENTS**” along with all relevant documents. The two sealed envelopes must be put in another sealed envelop superscribed with the title “**PROPOSAL FOR CCTV SYSTEM AT PROPERTIES OF EMBASSY OF INDIA.**” **Two separate Financial Bids shall be submitted for the two properties in Envelop B.** The tender shall be addressed to the Head of Chancery, Embassy of India, Rua Pero da Covilha 16, Restelo, 1400-297, Lisbon. Bids may be hand-delivered or sent by post/courier at the aforementioned address so as to reach us before the deadline of 1700 hrs on 28 February 2022. Embassy will not be responsible for any postal delay. Financial Bid of a company disqualified at technical evaluation stage shall not be opened. Envelopes should indicate the name and address of the Bidder to identify the bid and to enable the bid to be returned unopened in case it is declared ‘late’ or ‘rejected.’

15. **SITE VISIT**

Site inspection can be done between 10 AM to 5 PM on working days with prior appointment. For site visit, the vendor may contact the Embassy by e-mail [acct.lisbon@mea.gov.in](mailto:acct.lisbon@mea.gov.in) and Tel: +351 913 052 635.

16. The important schedules and dates are given below:

<b>Key Event</b>	<b>Dates</b>
Date of publishing	4 February, 2022
Date of receiving bids (start)	4 February, 2022
Bid submission closing date	28 February, 2022
Bid opening date	2 March, 2022

17. All bidders are requested to read and understand the terms and conditions of the contract before submitting their bids. No change or violation of aforementioned terms and conditions is permissible once the quotation is accepted by the Embassy.

18. The Embassy reserves the right to amend any of the terms and conditions contained in the Tender document or reject any or all applications/offers without giving any notice or assigning any reason thereof. The decision of Embassy in this regard will be final and binding upon the bidders.

19. In case of any ambiguity/dispute in the interpretation of any of the clauses in the tender documents, Embassy of India, Lisbon’s interpretation of the clauses shall be final and binding on all parties.

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**SPECIFICATIONS FOR CCTV CAMERAS WITH 30 DAYS RECORDING  
AT RUA PERO DA COVILHA 16, RESTELO, LISBON**

<b>S.No.</b>	<b>Item</b>	<b>Quantity</b>
1.	2 to 4 MP Dome Varifocal / Bullet Varifocal	11
2.	NVR 16 Channel with 2 SATA supported	1
3.	4 TB HDD for storage of cameras	2
4.	PoE Switch 16/24 port Giga	1
5.	Single Port 10/100 Media Convertor (Pair) – <b>Optional</b>	As per actual
6.	UPS	One Unit
7.	Fibre Cable – <b>Optional</b>	As per actual
8.	Cat 6 Cable	As per actual
9.	Other accessories as required for installation	As per actual

**SPECIFICATIONS FOR CCTV CAMERAS WITH 30 DAYS RECORDING  
AT AVENUE DA TORRE DE BELEM 10, LISBON**

<b>S.No.</b>	<b>Item</b>	<b>Quantity</b>
1.	2 to 4 MP Dome Varifocal / Bullet Varifocal	9
2.	NVR 16 Channel with 2 SATA supported	1
3.	4 TB HDD for storage of cameras	2
4.	PoE Switch 16/24 port Giga	1
5.	Single Port 10/100 Media Convertor (Pair) – <b>Optional</b>	As per actual
6.	UPS	One Unit
7.	Fibre Cable – <b>Optional</b>	As per actual
8.	Cat 6 Cable	As per actual
9.	Other accessories as required for installation	As per actual

**DETAILS OF TECHNICAL SPECIFICATIONS:**

<b>2-4 Megapixel H.265 Vandal Proof Network Dome IR Camera</b>
<p><b>KEY FEATURES</b></p> <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> </ul>

- Built-in web server for IE/Firefox/Chrome/Safari preview
- 3D-DNR, Privacy Masking and Motion Detection
- Built-In efficient IR LEDs, IR distance up to 30m
- Weather-proof IP-67 rated housing
- Built-in 802.3af Compliant PoE
- Support ONVIF Profile S

### IP VIDEO SURVEILLANCE SOLUTION

	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 @ F.16
	Field of View	H67.2° (3.6mm)
	Shutter Time	1/100000s~1/5s
	IR Distance	Up to 30m or more
	Day & Night	ICR Filter Auto Switch
	Max Image Resolution	2592x1520
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	Built-in Microphone
	Audio Compression	G.711 and AAC
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	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: 0.008Lux@F1.2, 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
	Power Consumption	5.5W MAX, 9.5W MAX (With IR on) <b>{ can be removed }</b>

GENERAL	Weather Proof	Up to IP67 Rating for Weather-resistant
	Certification	CE,FCC,Rohs

<b>16 CH NVR (2HDD)</b>		
	<b>Description</b>	<b>Specifications</b>
<b>Audio Video</b>	Video Input	16 CH
	Video Output	HDMI (1920x1080/1440x900/1280x1024/1280x800/1024x768) VGA(1920x1080/1440x900/1280x1024/1280x800/1024x768) CVBS(1920x1080/1440x900/1280x1024/1280x800/1024x768)
	Audio Input	Supported
	Audio Output	Supported
	Video Compression	H.264
	Video Capacity	16CH 5 MP/3MP/2MP/1.3MP/1MP
	Audio Compression	G 711U
<b>Storage</b>	Interface & Capacity	2 SATA (Max 6TB/pcs)
	File Format	Log: *.txt/Picture: *.JPG/Video: *.mp4
	Maximum Log	2000
	USB	USB flash disk recovery should be permanently disabled
<b>Recording</b>	Type	Manual/Scheduled/Motion/Alarm
	HDD full	Overwrite/Stop recording
	Playback	4CH 2MP/3CH 3 MP/3CH 4MP/2CH 5MP
	Playback control	Last Hr. / Next Hr., Last Frame / Next Frame Backward (8X 16X) Pause/Play Slow (x1/2x1/4x1/8x1/16) Fast Forward (x2x4x8x16)
	Search Mode	By CH/Type/Date (Single or combined)
<b>Network</b>	Ethernet	10M/100M/1000M
	Max Remote Channels	32CH
	Protocols Supported	TCP/IP, DHCP, UDP, SMTP, NTP
	Compatibility	ONVIF
	Remote Connection	CMS Client/WebCC/APP
	DDNS	Support
<b>Interfaces</b>	Network	1xRJ-45
	USB	1xUSB2.0
	PTZ	RS485
	Control Device	Mouse



<b>Features</b>	Screen Layout	1/2/4/8/9/16
	Alarm Actions	Buzzer/Send to Client/Alarm email (optional)
	Magnification	Support
	USB Recovery	To be disabled permanently
	Privacy Mask	Support
	Video Lost Alarm	Support
	Snapshot on Alarm	Support
<b>General</b>	Working Temperature	-10° ~ +55°
	Working Humidity	10% ~ 90%
	Power Supply	DC12V
	Power Consumption	≤15W (without HDD)

<b>1 PORT 10/100/1000 MEDIA CONVERTER</b>		
<b>S.No.</b>	<b>DESCRIPTION</b>	<b>SPECIFICATION</b>
1	Standard	IEEE802.3u, 10/100/1000Base-T,1000 Base-SX/LX, IEEE802.3ah, IEEE802.3z/ab
2	Flow control	IEEE8.2.3x port flow control and backpressure control
3	Transmission speed	10M/100/1000M auto-negotiation
4.	Transmission mode	Full-duplex/semiduplex (auto-negotiation)
5	Conversion mode	Storage transmission
6	MAC address	VLAN 4K
7	Buffer space	128KB
8.	Packet length	Storage transmission: 9728 Bytes, straight-through, infinite
9	Time-delay	9.6us
10	Bit error rate	<1/1000000000
11	MTBF	100,000 hours
12	Power supply	AC100~265V 50/60Hz / DC5V 1A
13	Power dissipation	<2.5W
14	Interface	Electric port:RJ45, Fiberport:SC/FC or SFP
15	Twisted-pair	Cat.5, Cat.6
16	Single mode fiber	8/125, 8.3/125, 9/125um
17	Wavelength	850nm/1310nm/1550nm
18	Transmission distance	20/40/60/80 Km
19	Cat.5 twisted-pair	100m
20	Operating temperature	0~50° C

21	Storage temperature	-20~70° C
22	Humidity	5%~90% (no condensation)
23	Size	118* 87* 28mm (L*W*H) (metal box)

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

<b>S.No.</b>	<b>DESCRIPTION</b>	<b>SPECIFICATION</b>
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 ½+, 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

**A. TECHNICAL BID PROFORMA**

<b>S.No.</b>	<b>Requirements</b>	<b>Reply/Remarks</b>
1	Name of Firm	
2	Address of the Registered Office	
3	Correspondence Address	
4	Telephone/ Mobile No.	
5	E-mail	
6	Brief introduction of the Company	
7	Self-attested copies of company registration and licensing certificate	
8	Previous experience in the field (minimum five years)	
9	Plan of action and methodology proposed to install the CCTV system as per technical specification in this Tender document.	
10	Period of Bid validity (not less than 180 days)	
11	Number of days required to complete and hand over the system	
12	(a) Details of Current contracts of similar nature undertaken by the firm	
	(b) Details of the past contracts security services undertaken by the firm	
	(c) Testimonials (Clients' letters/ certificates, etc)	

**Note: Separate sheets may be attached wherever necessary.**

Date:

Signature & Seal of the Authorised Company Representative

**B. MATRIX FOR TECHNICAL SPECIFICATIONS**

(To be submitted by the company and attached with Annexure II -Technical Bid Proforma)

S.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 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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	2	Yes/No		
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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	11	Yes/No		
3	Supply, Installation, Testing & Commissioning of Motorized Bullet Camera with 1/3” Progressive Scan CMOS Sensor, 2.8 to 12 mm Motorized Lens, 0.008 Lux @ F1.2 illumination	Numbers	0			

	with IR, Super WDR up to 120 db, 1920x1080 image resolution, H.265(HEVC)/H.264/MJPEG Video Compression along with weather protected features. <b>Camera Should be – UL Listed</b>					
4	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; MJPEG/JPEG Baseline Encoding. <b>Camera Should be – UL Listed</b>	Numbers	0			
5	Supply, Installation, Testing & Commissioning of High speed 16 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, 2 SATA	Numbers	1	Yes/No		
6	Supply, Installation, Testing & Commissioning of 42 inches LED Monitor with 350 NITS brightness	Numbers	1	Yes/No		
7	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers	1	Yes/No		
8	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers	1	Yes/No		
9	Supply, Installation, Testing & Commissioning of Work Station of latest Intel i7 8 <sup>th</sup> Generation or latest model, Processor, Intel chipset Motherboard, 16 GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with	Numbers	1	Yes/No		

	4 GB dedicated RAM with Quad Display Ports/DVI/HDMI Port, DVD writer, Giga LAN Card, Keyboard, Optical Mouse etc., complete as required for any complete Operating System.					
10	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 base-T, 1000 base - SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow Control IEEE8.2.3 x Port Flow Control and Backpressure Control, buffer space 128KB, Single mode fiber 8/125, 8.3/125, 9/125um and Wavelength of 850 nm/1310 nm/1550 nm.	Numbers	As required	Yes/No		
11	Supply, Installation, Testing & Commissioning of 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.	Numbers	2	Yes/No		
12	Supply, Installation, Testing & Commissioning of 24 Port PoE Switch + 2 SFP Port, PoE Port Output Power 15.4w/30w/IEEE802.3af/at, protocol standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000 Mbps: 14800pps.	Numbers	As required	Yes/No		
13	Supply, Installation, Testing & Commissioning of Single Mode one 1G SFP Module. Switch and SFP module should be from the same OEM only.	Numbers	As required	Yes/No		
14	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtails, Couplers, Splice Trays and other Mounting accessories.	Numbers	As required	Yes/No		
15	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	Numbers	As required	Yes/No		

	dust and other contaminants. Flat type metal with perforated Rear Cable Manager to hold cables with Velcro or cable ties. RoHS compliant.					
16	Supply, Installation, Testing & Commissioning of LC-LC Single mode, 3 meter Fiber Patch cord in L.SOH jacket, which reduces toxic/corrosive gases emitted during combustion.	Numbers	As required	Yes/No		
17	Supply, Installation, Testing & Commissioning of 3 meter Data patch cord in.	Numbers	As required	Yes/No		
18	Supply, Installation, Testing & Commissioning of 12 core multi mode fiber cable. Optical Fibers in water blocked loose tube, taped, corrugated Steel Tape Armoured (STA) polyethylene (preferably HDPE) outer sheathed embedded with two steel wires on the periphery. The cables should be with UV stabilized PE jacket and protected from Rodent attacks.	Meter	As required	Yes/No		
19	Supply, Installation, Testing & Commissioning of Category 6A Field Termination Plugde signed to support 10 GB Networks that can be easily terminated using parallel Jaw Pliers.	Meter	As required	Yes/No		
20	Supplying and Drawing 3 x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in the existing surface/recessed steel/PVC conduit as required.	Meter	As required	Yes/No		
21	Supplying and fixing of 25 sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.	Meter	As required	Yes/No		
22	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	As required	Yes/No		
23	Pole 5/9 meter Galvanized Pole	Numbers	As	Yes/No		

			required			
24	Trenching	Meter	As required	Yes/No		
25	Junction box	Numbers	As required	Yes/No		
26	Annual Maintenance Contract (for a period of three years)			Yes/No		
27	<b>Any other material/equipment/accessories and specification thereof</b>					
(a)						
(b)						
(c)						

### **UNDERTAKING**

It is hereby certified that M/s \_\_\_\_\_ (name of Company) is capable of providing and undertakes to provide above 'Specifications & Quantity' at the time of supply, installation, testing and commissioning of the CCTV System.

**Date:** \_\_\_\_\_ **(Seal & Signature of the authorized Company Representative)**  
**Name & Address**



### Annexure – III

#### A. FINANCIAL BID PROFORMA

1. Name of the firm:
2. Address of the Registered Office:
3. Correspondence address:
4. Contact details:

Mobile:

E-mail:

Sl. No.	Items	Charges (Including VAT or other taxes)	Remarks, if any
<b>UNIT I: Rua Pero do Covilha 16, Restelo, Lisbon</b>			
1	Towards supply, installation, and commissioning of CCTV system having 12 No. of Bullet Cameras and 02 No. of Dome cameras (Fixed) with 30 days recording at <b>Rua Pero do Covilha 16, Restelo, Lisbon.</b>	<b>Note:</b> Price quoted should be on an all-inclusive basis and shall include the cost of all equipments, personnel, transportation, rentals, taxes, consumables, VAT, warranty, etc.	
2	Annual Maintenance Contract (for a period of three years)		
3	<b>Total =</b>		
<b>UNIT II: Ave. da Torre de Belem 10, Lisbon</b>			
1	Towards supply, installation, and commissioning of CCTV system having 12 No. of Bullet Cameras and 02 No. of Dome cameras (Fixed) with 30 days recording at <b>Ave. da Torre de Belem 10, Lisbon.</b>	<b>Note:</b> Price quoted should be on an all-inclusive basis and shall include the cost of all equipments, personnel, transportation, rentals, taxes, consumables, VAT, warranty, etc.	
2	Annual Maintenance Contract (for a period of three years)		
3	<b>Total =</b>		

## **UNDERTAKING**

This is to certify that before signing this tender, I have read and fully understood all the terms and conditions contained herein and undertake myself to abide by them. We do hereby confirm that our bid price is inclusive of all and that the rates quoted for the above items are as per specifications, terms & conditions mentioned in the Tender document.

Date:

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

**Annexure – III**

**B. MATRIX FOR TECHNICAL SPECIFICATIONS FOR UNIT: I**

(To be submitted and attached with Annexure III - Financial Bid Proforma)

S.No.	Product description	Unit	Qty	Rate per unit	Total cost (Rate x Qty) (4) x (5)
[1]	[2]	[3]	[4]	[5]	[6]
	<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 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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	2		
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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	9		
3	Supply, Installation, Testing & Commissioning of Motorized Bullet Camera with 1/3” progressive scan CMOS sensor, 2.8 to 12 mm motorized Lens, 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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	0		
4	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	Numbers	0		

	encoding; MJPEG/JPEG Baseline encoding. <b>Camera Should be – UL Listed</b>				
5	Supply, Installation, Testing & Commissioning of High speed 16 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, 2 SATA.	Numbers	1		
6	Supply, Installation, Testing & Commissioning of 42 inches LED Monitor with 350 NITS brightness.	Numbers	1		
7	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers			
8	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers			
9	Supply, Installation, Testing & Commissioning of Work Station of latest Intel i7 8 <sup>th</sup> Generation or latest model, Processor, Intel chipset Motherboard, 16 GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with 4 GB dedicated RAM with Quad Display ports/DVI/HDMI port, DVD writer, Giga LAN Card, Keyboard, Optical Mouse etc., complete as required for any complete Operating System.	Numbers	1		
10	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 base-T, 1000 base-SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow control IEEE8.2.3 x port flow control and backpressure control, buffer space 128KB, Single mode fiber 8/125, 8.3/125, 9/125um and Wavelength of 850nm/1310nm/1550nm.	Numbers			
11	Supply, Installation, Testing & Commissioning of 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.	Numbers			
12	Supply, Installation, Testing & Commissioning of 24 Port PoE switch + 2	Numbers			

	SFP port, PoE port output power 15.4w/30w/IEEE802.3af/at, protocol standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000 Mbps: 14800pps.				
13	Supply, Installation, Testing & Commissioning of Single Mode one 1G SFP Module, Switch and SFP module should be from the same OEM only.	Numbers			
14	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtails, Couplers, Splice Trays and other Mounting accessories.	Numbers			
15	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.	Numbers			
16	Supply, Installation, Testing & Commissioning of LC-LC Single mode, 3 meter Fiber Patch cord in L.SOH jacket, which reduces toxic/corrosive gases emitted during combustion.	Numbers			
17	Supply, Installation, Testing & Commissioning of 3 meter Data patch cord in.	Numbers			
18	Supply, Installation, Testing & Commissioning of 12 core multi-mode fiber cable. Optical Fibers in water blocked loose tube, taped, corrugated Steel Tape Armoured (STA) polyethylene (preferably HDPE) outer sheathed embedded with two steel wires on the periphery. The cables should be with UV Stabilized PE jacket and protected from Rodent attacks.	Meter			
19	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			
20	Supplying and Drawing 3 x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in existing surface/recessed steel/PVC conduit as required.	Meter			
21	Supplying and fixing of 25 sizes of	Meter			

	medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
22	Supply & laying of standardized 40mm 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			
23	Pole 5/9 meter Galvanized Pole	Numbers			
24	Trenching	Meter			
25	Junction box	Numbers			
26	<b>Any other material/equipment/accessories and specification thereof</b>				
(a)					
(b)					
(c)					
(d)					

27. Any other charges (**Annual Maintenance Contract for 3 years**)

**Total**

29. **Taxes**

30. **Gross Total**

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

### Annexure-III

#### C. MATRIX FOR TECHNICAL SPECIFICATIONS FOR UNIT: II

(To be submitted along with Financial Bid Proforma)

S.No.	Product description	Unit	Qty	Rate per unit	Total cost (Rate x Qty) (4) x (5)
[1]	[2]	[3]	[4]	[5]	[6]
	<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 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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	0		
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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	8		
3	Supply, Installation, Testing & Commissioning of Motorized Bullet Camera with 1/3" progressive scan CMOS sensor, 2.8 to 12 mm motorized Lens, 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 along with weather protected features. <b>Camera Should be – UL Listed</b>	Numbers	0		
4	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	Numbers	0		

	encoding; MJPEG/JPEG Baseline encoding. <b>Camera Should be – UL Listed</b>				
5	Supply, Installation, Testing & Commissioning of High speed 16 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, 2 SATA.	Numbers	1		
6	Supply, Installation, Testing & Commissioning of 42 inches LED Monitor with 350 NITS brightness.	Numbers	1		
7	Supply, Installation, Testing & Commissioning of 17/42U Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers			
8	Supply, Installation, Testing & Commissioning of 6U Outdoor Industrial Rack for Switch Mounting with Fan and Power Strip, PoU, Hardware mounting kit.	Numbers			
9	Supply, Installation, Testing & Commissioning of Work Station of latest Intel i7 8 <sup>th</sup> Generation or latest model, Processor, Intel chipset Motherboard, 16 GB DDR4 RAM, 1TB SATA HOD at 7200 rpm, 4K Graphic Card with 4 GB dedicated RAM with Quad Display ports/DVI/HDMI port, DVD writer, Giga LAN Card, Keyboard, Optical Mouse etc., complete as required for any complete Operating System.	Numbers	1		
10	Supply, Installation, Testing & Commissioning of Media Converter Standard IEEE802.33u, 10/100/1000 base-T, 1000 base-SX/LX IEEE802.3ah, IEEE802.3z/ab, Flow control IEEE8.2.3 x port flow control and backpressure control, buffer space 128KB, Single mode fiber 8/125, 8.3/125, 9/125um and Wavelength of 850nm/1310nm/1550nm.	Numbers			
11	Supply, Installation, Testing & Commissioning of 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.	Numbers			
12	Supply, Installation, Testing & Commissioning of 24 Port PoE switch + 2	Numbers			



	SFP port, PoE port output power 15.4w/30w/IEEE802.3af/at, protocol standard IEEE802.3af/IEEE802.3at, Forwarding Rate 100Mbps: 14880pps/1000 Mbps: 14800pps.				
13	Supply, Installation, Testing & Commissioning of Single Mode one 1G SFP Module, Switch and SFP module should be from the same OEM only.	Numbers			
14	Supply, Installation, Testing & Commissioning of 12/24 Port Fiber Panels (LIU) fully loaded with Pigtails, Couplers, Splice Trays and other Mounting accessories.	Numbers			
15	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.	Numbers			
16	Supply, Installation, Testing & Commissioning of LC-LC Single mode, 3 meter Fiber Patch cord in L.SOH jacket, which reduces toxic/corrosive gases emitted during combustion.	Numbers			
17	Supply, Installation, Testing & Commissioning of 3 meter Data patch cord in.	Numbers			
18	Supply, Installation, Testing & Commissioning of 12 core multi-mode fiber cable. Optical Fibers in water blocked loose tube, taped, corrugated Steel Tape Armoured (STA) polyethylene (preferably HDPE) outer sheathed embedded with two steel wires on the periphery. The cables should be with UV Stabilized PE jacket and protected from Rodent attacks.	Meter			
19	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			
20	Supplying and Drawing 3 x 1.5 sq mm sizes of PVC insulated Copper Conductor, Single Core Cable in existing surface/recessed steel/PVC conduit as required.	Meter			
21	Supplying and fixing of 25 sizes of	Meter			

	medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
22	Supply & laying of standardized 40mm 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			
23	Pole 5/9 meter Galvanized Pole	Numbers			
24	Trenching	Meter			
25	Junction box	Numbers			
26	<b>Any other material/equipment/accessories and specification thereof</b>				
(a)					
(b)					
(c)					
(d)					

27. Any other charges (**Annual Maintenance Contract for 3 years**)

**Total**

29. **Taxes**

30. **Gross Total**

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