



सत्यमेव जयते

HIGH COMMISSION OF INDIA

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TENDER NOTICE

Bids are invited towards the supply and secured installation of a CCTV system having a capacity of 13 cameras at the Chancery building, 167, Av. Kenneth Kaunda, Maputo, and 13 cameras at India House, 101, Av. do Arcebispado, Maputo, as per the tender document.

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Chapter I - Instructions to Bidders

Bids containing **Technical Bid** and **Financial Bid** for contract valid for next one year from experienced & registered firms, complete in all respects should be submitted addressed to the Head of Chancery, High Commission of India, Mozambique by hand / courier to reach before the deadline of 1700 hrs. **on 20th May 2023**. The submitted Bids should clearly carry the subject line “**Bid Submission towards purchase and installation of CCTV system and Cameras for the High Commission of India, Maputo**”. All tenders received after the deadline will be summarily rejected.

2. 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 chapter II and VII).
 - 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 / firm proprietorship with the concerned Govt authorities of Mozambique .
 - iv. Annual Report (where statutorily required to be filled) and Financial Reports for the last 3 years.
 - v. Details of experience in the field of CCTV security installations with Embassies /reputed Companies/Government agencies.

Chapter II - TECHNICAL BID PROFORMA

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

Sl.No.	Requirements	Reply / Remarks
1.	<ul style="list-style-type: none">• Brief introduction of the company• Previous experience in the field(minimum of three years)• Registration Certificate & license for the services	
2.	Plan of action and methodology proposed to install the CCTV secure system as per technical specification in this Tender document.	
3.	<ol style="list-style-type: none">a. Details of Current contracts of security services undertaken by the firmb. Details of the past contracts security services undertaken by the firmc. Testimonials [Clients' letters /certificates, etc]	
4.	Origin of equipment	
5.	Number of days require to complete and hand over the system.	

List of approved camera brands

S No	Brands
1	Axis Communication
2	Mobotix
3	Arecont Vision
4	Wavesys Global
5	Wiska

4 MP Fixed Bullet Camera for viewing distance upto 40 meters

Requirement: 08 for Chancery and 09 for India House.

S No	Parameter	Specification	Compliance and Specification
1	Image Sensor	1/3" Progressive CMOS or better	
2	Day / Night Operation	Automatic switch	
3	Minimum Illumination	Colour : 0.2 lux BW: 0.05 lux or better	
4	Image Resolution	4 Mega Pixel or better	
5	Video Compression	H.264 / H.265	
6	Frame Rate	25 fps or better	
7	Stream	Dual or Above	
8	Motion Detection	Built-in or IP integrated	
9	Wide Dynamic Range	120 dB or better	
10	IR	20 Mts or better	
11	Interface	RJ45 10BASE-T/100BASE-TX PoE	
12	Protocols	IPv4, IPv6, HTTP, HTTPS, SSL/TLS, DHCPv4/v6 and additional	
13	Security	User Authentication, IP Filtering and user access log	
14	Event Trigger	Motion detection and tamper detection	
15	Operating Temperature	Location specific	

16	Operating Humidity	Location specific	
17	Onvif	Should be compliant	
18	NDAA Compliant	The proposed camera should be NDAA Compliant	
19	Warranty	5 Years OEM warranty or better	

2 MP Dome Camera for corridors for viewing distance upto 15 meters and no public access.

Requirement: 01 for Chancery

S No	Parameter	Specification	Compliance and Specification
1	Image Sensor	1/3" Progressive CMOS or better	
2	Day / Night Operation	Automatic switch	
3	Minimum Illumination	Colour : 0.2 lux BW: 0.04 lux or better	
4	Image Resolution	1920X1080 or better	
5	Video Compression	H.264 / H.265	
6	Frame Rate	30 fps or better	
7	Stream	Dual or Above	
8	Motion Detection	Built-in or IP integrated	
9	Wide Dynamic Range	120 dB or better	
10	IR	20 Mts or better	
11	Interface	RJ45 10BASE-T/100BASE-TX PoE	
12	Protocols	IPv4, IPv6, HTTP, HTTPS, SSL/TLS, DHCPv4/v6 and additional	
13	Security	User Authentication, IP Filtering and user access log	
14	Event Trigger	Motion Detection and Tamper Detection	

15	Operating Temperature	Location specific	
16	Operating Humidity	Location specific	
17	Onvif	Should be compliant	
18	NDAA Compliant	The proposed camera should be NDAA Compliant	
19	Warranty	5 Years OEM warranty or better	

PTZ Camera

Requirement: 04 for Chancery and 04 for India House.

S No	Parameter	Specification	Compliance and Specification
1	Image Sensor	1/2.8 " Progressive Scan CMOS or better	
2	Day / Night Operation	Automatic with IR Cut Filter	
3	Minimum Illumination	Colour : 0.07 Lux BW: 0.01 Lux or better	
4	Optical Zoom	30 Minimum & 12x Digital Zoom or better	
5	Lens	5-120mm or better	
6	Image Resolution	1920X1080 or better	
7	Video Compression	H.264 / H.265	
8	Frame Rate and Bit Rate	Full HD 1080p 30 fps or better	
9	Motion Detection	Built-in or IP integrated	
10	Electronic Shutter	1/10000s to 1s or better	
11	Wide Dynamic Range	120 dB or better	
12	Image Freeze on PTZ	Required	
13	Event Triggers	Motion Detection and Temper Detection	
14	Pre-set Positions	100 or better	

15	Protocols	IPv4, IPv6, HTTP, HTTPS, SSL/TLS, DHCPv4/v6 and additional	
16	Security	User Authentication, IP Filtering and user access log	
17	Logs	The camera shall provide logs of latest connections, access attempts, users connected, changes in the cameras etc.	
18	Interface	RJ 45, 100 Base TX	
19	Enclosure	IP66- and NEMA 4X-rate	
20	Operating Temperature	Location Specific	
21	Operating Humidity	Location Specific	
22	NDAA Compliant	The proposed camera should be NDAA Compliant	
23	Onvif	Compliant	
24	Warranty	5 years OEM warranty	

SFP POE Switch- As per requirement

S N o	Descripti on	Specification			Compliance
1	POE Port	8±10/100/ 1000 port support IEEE802. 3 af/at	16*10/10 0/1000 port support IEEE802 .3 af/at	24*10/100 /1000 port support IEEE802. 3 af/at	
2	Switch capacity	5 Gbps or better	7 Gbps or better	8 Gbps or better	
3	Transmissi on Distance	100 - 150m			
4	Protocol standards	IEEE802.3 af / IEEE802.3 at			
5	PoE Type	End-span			
6	Network standard	IEEE 802.3, IEEE 02.3u, 802.3x, 802.3af/at			
7	Network Medium	10/100/1000 mbps 5 class and above non shielded twisted pair			
8	SFP port	Yes			
9	Forwardin g Rate	100 Mbps :14880pps/1000 Mbps: 1480pps			
10	MAC address	MAC Address table 8K			
11	Port function	Power priority mechanism, fast and forward, MAC IEEE802.3X Full-duplex and mode and back pressure for half -duplex mode.			
12	Indicators	Each port occupied 1 Link/Act 100 Mbps POE status Indicator, Whole power indicator.			
13	Working Temperatu re	Location specific. Location with sub zero temperature should use Industrial grade switches.			

**Server for minimum 45 days back up
Number of unit: II**

S No	Description	Specification				Compliance
1	CPU	16 Cameras	32 Cameras	64 Cameras	100 Cameras	
		64-bit high performance. Minimum one Processor of 8 Core or higher Intel/AMD CPU operating at 2.1 GHz or more with a minimum of 11 MB L3 cache or higher	64-bit high performance, Minimum Two Processor Of 8 Core each or higher Intel/AMD CPU operating at 2.1 GHz or more with a minimum of 11 MB L3 cache or higher	64-bit high performance, Minimum Two Processor of 8 Core each or higher Intel/AMD CPU operating at 2.1 GHz or more with a minimum of 11 MB L3 cache or higher	64-bit high performance, Minimum Two Processor of 16Core each or higher Intel/AMD CPU operating at 2.1 GHz or more with a minimum of 11 MB L3 cache or higher	
2	Memory	32 GB DDR RAM Upgradable to 512 GB	64 GB DDR RAM Upgradable to 1 TB	64 GB DDR RAM Upgradable to 1 TB	256 GB DDR RAM Upgradable to 1 TB	
3	Hard Drive	SAS 10k rpm or higher hot swappable Hard disk in raid 5 or 6	SAS 10k rpm or higher hot swappable Hard disk in raid 5 or 6	SAS 10k rpm or higher hot swappable Hard disk in raid 5 or 6	SAS 10k rpm or higher hot swappable Hard disk in raid 5 or 6	

		configuration having usable space of 45 TB or more	configuration having usable space of 75 TB or more	configuration having usable space of 125 TB or more	configuration having usable space of 180 TB or more	
4	Recording Server	Rack Mountable				
5	Fans	Normal with Redundant FANS.				
6	Network Adapter (NIC)	Dual 10/100/1000 Mbps ports.				
7	Keyboard	USB Keyboard				
8	Mouse	Optical Mouse with scroll				
9	Operating System	Licensed MS Windows Server or Linux Latest version				
10	Anti-Virus Software	Compatible with Windows/ Linux with offline update provision.				

VMS- As per requirement

Sno	Specification	Compliance
1	The software should have inbuilt facility to store configuration of cameras.	
2	The software shall Support flexible 114/9/16/25 user defined Windows Split screen display mode or scroll mode on the PC/Workstation monitor or on review monitor as per site requirement.	
3	The software shall be able to control all cameras features such as PTZ control, auto/manual focus, and colour balance of camera, Selection of presets, Video tour selection etc.	
4	The software is required to generate reports of stored device configuration. The control software is required to provide alarm and alarm log. The log shall be able to be archived, printed and displayed using a device filter, a device group filter and/or a time window.	
5	The software shall have user access authority configurable on per device or per device group basis. The authorized user shall have the facility to request the access of any camera and can control the camera for a reservation period. Control of camera is released after the reservation period.	
6	The system software shall provide User activity log (audit trail)with user id, time stamp, and action performed, etc.	
7	The administrator shall be able to add, edit & delete users with rights. It shall be possible to view ability/rights of each user or the cameras which can be viewed &controlled as per the permission assigned by the administrator.	
8	The system software should provide Analytic features such as Intrusion, Motion detection and Security device Alarm etc as per site	
9	The system software shall have recording modes viz. continuous, manual, or programmed modes on date,	

	time and camera-wise. All modes shall be disabled and enabled using scheduled configuration. It shall also be possible to search and replay the recorded images on date, time and camera wise. It shall provide on-screen controls for remote operation.	
10	PTZ cameras. It shall have the facility for scheduled recording. Different recording speeds (fps) and resolution for each recording mode for each camera shall be possible.	
11	It shall provide programmable motion detection and recording, to be defined, area -wise.	
12	The settings shall be individually configurable for each alarm and each camera, pre -record duration. This shall allow the Camera Server to capture video prior to the alarm/event, as well as after the alarm/ event. Shall be selectable from a list of values ranging between 0 seconds and 5 minutes.	
13	Data storage should be at a secure location, with strictly controlled access. The Capacity of storage should be for the period of continuous 45days or more. For every 30disks one spare disk needs to be configured over and above required capacity. The system should follow FIFO on recording.	
14	The software shall support a built-in Hardware or Software Watchdog module. Watchdog shall monitor operation of all services and automatically restart them if the are malfunctioning.	
15	The software should be able to receive alarm signal of the camera and should be able to send relay out signal through the camera.	
16	The software should provide a reporting utility for tracking but not limited to the following options. Video and images shall be stored with reports for documenting events.	
Alarms, Incidents, Operator logs, Service requests		
17	It shall be possible to get reports on past events by querying the audit databases. It shall allow the search	

	by User Logon, Entity Configuration, Incident, Alarm, Application Failure, and Equipment Failure.	
18	It shall allow passage of specific alarms to specified users rather than sending all alarms to eve user	
User Facilities Covered In Application Software		
19	<p>The client shall perform the following applications simultaneously without interfering with any of the Archive Server operations (Recording, Alarms, etc.)</p> <ul style="list-style-type: none"> a. Live display of cameras b. Control of PTZ cameras c. Playback of archived video d. Retrieval of archived video e. Instant replay of live video f. Configuration of system settings 	
20	The user applications shall provide an authentication mechanism, which verifies the validity of the user.	
21	The user shall be able to define bookmarks, the amount of time he wishes to go back from a predefined list or through a custom setup period.	
22	The user shall be allowed to add bookmarks to record clips of video.	
23	<p>The user shall be able to choose and trigger an action from a list of available actions included but are not limited to:</p> <ul style="list-style-type: none"> i. View camera in a video tile ii. View map or procedure in video tile iii, Starting/stopping PTZ pattern iv. Go to PTZ preset v. Sending alert messages 	
24	The user shall be capable to display all camera sequences created in the system.	
25	The user shall be allowed for unlimited camera sequences, which can be run independently of each other on either of the monitor tiles.	

26	The user shall be able to drag and drop a camera from a tree of available cameras into any video tile for live viewing.	
27	Support digital zoom on a fixed/PTZ camera's live and recorded video streams.	
28	The user shall be allowed to access the PTZ configuration with no need of additional hardware.	

Work Station- 2 each for both the location (India House and Chancery)

	TECHNICAL SPECIFICATIONS	Compliance
1	Core i9 Processor 3.0GHz or better,	
2	Memory: 32 GB DDR RAM or better	
3	Form factor : Tower	
4	Hard Drives: 450 GB SSD and 2 TB SATA or better.	
5	Graphic Card 2 x 4Gb Graphics card with HDMI port	
6	Network Adapter (NIC): Dual Integrated 10/100/1000 Mbps ports	
7	Keyboard: USB Keyboard	
8	Mouse: Optical Mouse with scroll	
9	Operating System. Licensed M S windows/ Linux	
10	Anti-Virus Software compatible with Windows/ Linux with offline update provision.	

CCTV Passive items (as per actuals)

S No	NETWORKING, CABLING, ETC.	Compliance
1	CABLES	
a	General Features:	
i	All cables used for the project shall be supplied as under: a) ISO certified reputed cable manufacturer. b) Ensure high bandwidth, low attenuation and low losses in signal quality.	
ii	Backbone Network upto Switches (L3 Switches tpo L2 Switches): OFC	
iii	From Switches to each Node (L2 Switch to Servers, Workstation, Cameras, Displays, etc.): UTP Cat6	
iv	Laying of cable inside the building shall be in conduit and for outdoor a. Through HDPE Pipe in sift soil. b. In concrete/read cutting area, it shall be laid in GI Pipe.	
v	Cable and Spools shall be of flame retardant type.	
vi		
b	Optical Fibre Cable	
i	Optical Fibre 6 core, SMF, 9/125 micron, 1000 Mbps	
ii	Core Diameter @ 1310 nm : 9+-0.6 micro meter Cladding Diameter : 125 +-1.0 micro meter	
iii	Max. Attenuation (Cables with fibres) @ 1310 nm : 0.36 dB/km 1550 nm : 0.25 dB/km	
iv	Secondary Buffer Material : Gel filled Loose Tube	
v	Min. Bend Radius : 20x Outer Diameter	
vi	Fibre Core : Should be Silica Glass or equivalent	
c	CAT6 UTP Cable	
i	Suitable for high speed data applications, Gigabit Ethernet.	
ii	4 Pairs, easily identifiable colour-stripped Outlet.	
iii	Termination of 4 Pair balanced twisted pair copper cable.	
iv	Shall be wired straight through.	
v	Rear protective strain relief cap.	
2	PATCH CORDS	
a	Push & Pull design with latch.	
b	Shall be wired straight through.	
c	Bend relief compliant boots to ensure proper CAT6 performance.	

3	OFC PATCH CORDS	
	Suitable for single mode SC type fibre cable connectors with plastic moulded plug type connectors. Standard ceramic ferrules.	
4	OFC CONNECTORS	
	Single mode SC/LC type with push-pull mechanism, fully in compliance, with latest industry standards.	
5	OFC ADAPTORS	
	Suitable for single mode SC/LC type fibre cable connectors which shall be fully in compliance with latest industrial standard. It shall be with snap/latch mechanism.	
6	Light Guide Interconnect Unit (LIU)	
	Rack Mount Type LIU fully populated with required modules, connectors, etc. Shall be supplied and installed as required.	
7	9U WALL MOUNT RACK	
a	Portable 9U WALL Mount Rack having front Transparent Toughened glass door. The Rear door material shall be CRCA Steel.	
B	It should consist of secure locks, keyboard tray sliding & rotary, shelf For CRT/TFT Display, Support cable entry from top or bottom, vertical & horizontal managers, fan for heat dissipation, dust or water resistant and PDU power strips.	
c	Minimum 60 Kgs Load Bearing capacity.	
8	OUTDOOR JUNCTION BOX	
a	Protection Class : IP - 55	
b	Size : Junction Box must be of appropriate size to house different components as per CCTV System design confirming to tender specifications.	
c	Power & Earthing : The Junction Box shall be provided with external earthing lugs 5 socket power termination with MCB or More.	
9	Poles	
a	GI Poles	
b	Erection : Proper sturdy fixing, including civil / ground work.	

Bill of Quantity(BoQ)

S No	Equipment	Specification	Number
1	Bullet Cameras	As per Annexure A	08 for Chancery 09 for India House
2	2 MP Dome Camera	As per Annexure B	01 for Chancery
3	PTZ Camera	As per Annexure C	04 for Chancery 04 for India House
4	Switches- 8 port, 16 port and 24 port	As per Annexure D	As per actuals
6	Server As per	As per Annexure E	One
7	VMS- for 16 Channel, 32 Channel, 64 Channel and 100 Channel servers.	As per Annexure F	As per actual
8	Work Station	As per Annexure G	02 each for both locations
9	Passive Items	As per Annexure H	As per actuals
10	Display	42" LED display caters to 16 camera feeds. May also select Plasma displays for viewing 4K feeds	One for each station (LED) preference: Samsung
11	UPS	As per power requirement.	As per actuals

4. The bidder should be a company or firm duly registered with the concerned authorities in Mozambique. Bidder must be a firm with a past record of providing CCTV security installations in Mozambique. The High Commission of India reserves the right to reject bids from firms who are blacklisted by Governments of Mozambique or India for poor performance in the past, or those who do not have adequate experience in the field of security services.

5. 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.

6. The successful bidder has to sign a contract with the High Commission of India in an appropriate form for execution of the contract.

7. First the Technical bid will be opened and the pre-qualification of the bidder will be assessed and then financial document of only those bidder [s] who meet the technical criterion will be opened.

8. The winning bidder would be required to dedicate one supervisor /manager who can be contacted for all queries / requirements.

EVALUATION CRITERIA: The Tender Evaluation Committee [TEC] will evaluate the Technical information individually using the following criteria:

- (a) The Organization's relevant experience for the Assignment.
- (b) Quality of SERVICE plan and methodology for undertaking the job.
- (c) Past track record.
- (d) Origin of equipment

Bids may be submitted to:

Head of Chancery
High Commission of India,
Avenida Kenneth Kaunda, No. 167, PO Box 4751, Maputo, Mozambique

11. For clarifications / queries, if any, prior to submission of bid, prospective bidders may contact Sujit Biswas, Head of Chancery or Mr. Dharmin Deepak Bhatt, during 10.00 a.m. to 5.00 p.m. on working days or email their queries to hoc.maputo@mea.gov.in

Chapter VII- Financial Bid Proforma

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

S. No.	Items	Charges (Including VAT or other taxes)	Remarks, if any
UNIT : I- CHANCERY, HIGH COMMISSION OF INDIA, MAPTUAO			
1	Details of equipment needs to be mentioned at Chapter: IV & V	Note: Price quoted should be on an all-inclusive basis and shall include the cost of all equipment, personnel, transportation, rentals, taxes, consumables, VAT, warranty, etc.	Unit price along with Brand name
UNIT: II – INDIA HOUSE, HIGH COMMISSION OF INDIA, MAPUTO			
1	Details of equipment needs to be mentioned at Chapter: IV & V	Note: Price quoted should be on an all-inclusive basis and shall include the cost of all equipment, personnel, transportation, rentals, taxes, consumables, VAT, warranty, etc.	Unit price along with Brand name

While submitting the financial bids, please make sure to mention brand and details of specifications of each equipment. Extra weightage will be given to Bidders who are cable to quote equipment made in India.