No. BRU/861/1/19   18th November 2022

Notice for invitation of Bids

Embassy of India, Brussels invites bids from established, reputed and experienced firms for supply and installation of CCTV system having 2 CCTV cameras with 45 days recording.

2.   The last date for submission of the bid in a sealed envelope is on or before 9th December 2022 (1700 Hrs). Tender document is available on our websites www.indianembassybrussels.gov.in and www.eprocure.gov.in. Interested companies may contact Mr. Pradeep Kulhari, ASO(Estt) on telephone No. 02-6451850 or email id admn.brussels@mea.gov.in for more details and site visit.

3.   Any future clarification and / or corrigendum(s) shall be communicated through 'Tender' section of the Embassy website www.indianembassybrussels.gov.in

4.   The Embassy of India reserves the right to reject / cancel any or all bids without assigning any reason.

Sd/-
(Dr. Sivaguru M.)
Head of Chancery

Instructions to Bidders

All bidders should submit along with the Tender the following documents:

(i) Separate Technical Bid Document and Financial Bid Document in a sealed envelope.

(ii) Both the above documents must be signed by authorized signatories of the bidding firm with seal / stamp.

(iii) Self-attested photocopy of registration of the company / firm proprietorship with the concerned Belgian authorities.

(iv) Details of experience in the field of CCTV security installation with Embassies / reputed companies / government agencies.

Specifications for a set of 2 CCTV cameras with 45 days recording

4 MP fixed bullet camera

S.No.	Parameter	Specification
1.	Image Sensor	1/3" Progressive CMOS or better
2.	Day / Night Operation	Automatic switch
3.	Minimum Illumination	Colour : 0.2lux BW : 0.05lux 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	As per location
16.	Operating Humidity	As per location
17.	Onvif	Should be compliant
18.	NDAA Complaint	The camera should be NOAA Compliant
19.	Warranty	5 Years OEM warranty or better

SFP POE Switch

S.No.	Description	Specification
1	PoE Port	8*10/100/1000 port support IEEE802.3 af/at
2	Switch capacity	5 Gbps or better
3	Transmission Distance	100-150m
4	Protocol standards	IEEE802.3 af/lEEE802.3 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 mbps5 class and above non shielded twisted pair
8	SFP Port	Yes
9	Forwarding Rate	100 Mbps:14880pps/10O0Mbps
10	MAC address	MAC Address table 8K
11	Port function	Power priority mechanism, fast and forward, MAC IEEE802.3X Full-duplex and mode and backpressure for half -duplex mode.
12	Indicators	Each port occupied 1 Link/Act 100 Mbps POE status Indicator, Whole power indicator.

Server for minimum 45 days back up

S.No.	Description	Specification
1	CPU	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
2	Memory	32GB DDR RAM upgradable to 512GB
3	Hard Drive	SAS 10k rpm or higher hot swappable Hard disk in raid 5 or 6 configuration having usable space of 45TB 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.

Video Management Software (VMS)

S.No.	Specification
1.	The software should have inbuilt facility to store configuration of cameras.
2.	The software shall support flexible 1/4/9/16/25 user deefined Windows Split screen display mode or scroll mode on the PC/Workstation monitor or on preview monitor as per site requirement.
3.	The software shall be able to control all cameras features such as auto/manual focus, and color 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 requirement.
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.
	Alarms, Incidents, Operator logs, Service requests
10.	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.
11.	It shall allow passage of specific alarms to specified users rather than sending all alarms to every user
	User Facilities Covered In Application Software
12.	The client shall perform the following applications simultaneously without interfering with any of the Archive Server operations (Recording, alarm etc.) a. Live display of cameras b. Control of cameras c. Playback of archived video d. Retrieval of archived video e. Instant Replay of live video f. Configuration of system settings
13.	The user applications shall provide an authentication mechanism which verifies the validity of the user.
14.	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.
15.	The user shall be allowed to add bookmarks to recorded clips of video.
16.	The user shall be able to choose and trigger an action from a list of available actions included but are not limited to: a. View camera in a video tile b. View map or procedure in video tile c. Sending alert messages
17.	The user shall be capable to display all camera sequences created in the system
18.	The user shall be allowed for unlimited cameras sequences, which can be run independently of each other on either of the monitor tiles.
19.	The user shall be able to drag and drop a camera from a tree of available cameras into any video tile for live viewing.
20.	Support digital zoom on a fixed live and recorded video streams.

Work Station

S.No.	Technical Specifications
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 SATA or better
5.	Graphic Card : 2 x 4Gb Graphic card with HDMI Port
6.	Network Adapter (NIC): Dual Integrated 10/100/1000
7.	Keyboard: USB Keyboard
8.	Mouse: Optical Mouse with scroll
9.	Operating System: Licensed MS windows/Linux
10.	Anti-Virus Software compatible with Windows/Linux with offline update provision

CCTV Passive items

S.No.	Networking, Cables etc.
1.	CABLES
a	General Features:
i	All cables used for the project should be supplied at under: a) ISO certified reputed cable manufacturer b) High bandwidth, low attenuation and low losses in signal quality
ii.	Backbone Network up to Switches (L3 Switches to L2 Switches) : OFC
iii.	From Switches to each node (L2Switch to Servers, Workstation, Cameras, Displays etc.) : UTP Cat 6
iv.	Laying of cable inside the building should be in conduit and for outdoor a. Through HDPE pipe in sift soil. b. In concrete/read cutting area, in GI pipe
v.	Cables and spools shall be of flame retardant type
b.	Optical Fibre Cable
i.	Optic Fibre 6 core, SMF, 9/125micron, 1000 Mbos
ii.	Core Diameter@ 1310 nm : 9± micro meter Cladding Diameter : 125±1.0 micro meter
iii.	Max. Attenuation (Cables with At 1310 nm: 0.36 dB/km at 1550 nm : 0.25 d
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.	4 pairs, easily identifiable colour – striped outlet
ii.	Termination of 4 pair balanced twisted pair copper cable
iii.	Should be wired straight through
iv.	Rear protection strain relief cap
2	PATCH CORDS
a	Push & pull design with latch

b	Should be wired straight through
c	Bend relief compliant boots to ensure proper CAT6 performance
3	OFC PATCH CORDS – 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 : Should be with snap/latch mechanism and in compliance with latest industrial standard
6	Light Guide Interconnect Unit (LIU) : Rack mount type LIU fully populated with required modules, connectors etc. should be supplied and installed as required
7	9U Wall Mount Rack : Portable 9U Wall mount rack having front transparent toughened glass door. The rear door material should be CRCA steel. 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, meaning 60kg load bearing capacity
8	Outdoor Junction Box : Protection Class : IP – 55 Size : Junction Box must be of appropriate size to house different components as per CCTV system design Power & Earthing : The junction box should be provided with external earthing lugs 5 socket power termination with MCB or more
9	Poles : GI Poles Erection : Proper sturdy fixing, including civil / ground work

Bill of Quantity (BoQ)

S.No.	Equipment	Specification	Number
1.	Bullet Cameras	As per Annexure A	2
2.	Switches	As per Annexure B	As per actuals
3.	Server	As per Annexure C	One
4.	Video Management Software	As per Annexure D	One
5.	Work Station	As per Annexure E	
6.	Passive Items	As per Annexure F	As per actuals
7.	Display	42" LED display	