

SPECIFICATION OF CCTV SYSTEM FOR CNS SECRETARIAT

1. **Name:** CCTV System with accessories.
2. **Purpose:** CCTV system shall be used in CNS Secretariat for security and surveillance.
3. **Quantity.** 01 (one) Set
4. **Manufacturing Details.**
 - a. Country of Origin (Camera and NVR) : USA/UK/ EU Countries
 - b. Country of Manufacturer : To be mentioned
 - c. Year of Manufacture : 2022 or later.
5. **Bidder's Identity and Qualification.**
 - a. **Bidder (Full Name and Address):** Name and full address with e-mail of bidder/ local agent to be mentioned.
 - b. **Bidder Qualification:** Bidder shall be an authorized dealer/ distributor/ business partner (appointed by the manufacturer) or a reseller (appointed by an authorized dealer/ distributor/ business partner) of major equipment (Camera and/or NVR) manufacturer. Authorization/authenticity certificate by manufacturer or authorized dealer is to be submitted with the offer. Besides, necessary documentary proofs of authorized dealership/ agency ship/ partnership are to be submitted.
 - c. **Trade License:** Bidder should have valid trade License in related works (renewed up to June 2025).
 - d. **Enlistment:** The bidder shall be an enlisted bidder of NSSD Dhaka.
 - e. **Experience:** The bidder shall have at least 01 (one) major clients in defence/ govt/ corporate sector as proof his/her experience in supply of such system. Such list of clients along with documentary evidence shall be submitted with the offer.
6. **Source of Supply:** Source of supply to be mentioned included port of shipment (if imported).
7. **Scope of Supply:**

- a. **Main Equipment.**

Ser	Item Name	Qty
1.	4 MP Dome IP Camera	02 No
2.	4 Channel NVR With POE Switch	01 No
3.	HDD 1 TB	01 No

- b. **Accessories and Installation Materials.**

Ser	Item Name	Qty
1.	Cable Cat 6	50 Mtr
2.	HDMI Cable 5 Meter	01 No
3.	RJ 45 Connector	10 No
4.	PVC channel	10 No

RESTRICTED

c. **Manual.** 01 sets of manuals (English Language) shall be provided with the system at the time of delivery:

1. Operating Manual.
2. Technical Manual with Parts Catalogue.
3. Installation Manual including system Installation layout and control room layout.

d. **Software Backup.** Bidder shall provide all related software of monitoring system to purchaser in CD/ DVD along with step-by-step installation instructions.

8. **Technical Specification.**

a. **System Features**

- (1) The monitoring system shall be 'Turn Key' project for bidder and user.
- (2) The system shall be a fully scalable system with network video server and hardware devices.
- (3) The devices of monitoring system shall be integrated to run as a complete system using software and hardware interface. NVR shall have extra IP port having feature of sending video from one Geo location to another Geo location through intranet/ internet.
- (4) The monitoring system shall have design feature to run 24/7 in 365 days and shall have video recording facilities in central location to record (Format-1080p, H.264@30fps), store and replay video for at least 30 days.
- (5) Recording system shall be support mass storage (i.e 20 Mb per minute per camera X 60 X 24 X 30x02=approx. 1.65 TB per month).

b. **Specification of Day and Night (with IR) Out Door High Range Dome IP Camera.**

Ser	Description	Requirement
1.	Type of Camera	Day and Night Out Door High Range Dome IP Camera
2.	Brand	To be mentioned
3.	Model	To be mentioned
4.	Country of origin	USA/UK/ EU Countries
5.	Manufacturing Country	To be mentioned
6.	Image Sensor	1/2.7" progressive scan super low lux CMOS or better
7.	Number of pixels	4 MP or more
8.	IR Distance	Minimum 10 mtr
9.	Minimum Illumination (Colour, Black/White)	Color: 0.005lux, Black/White: 0 lux at IR LED ON
10.	Video Compression	H.265, H.264, MJPEG, H.265+
11.	Main Stream	2560 x 1440 (Default), 2048 x 1520, 1920 x 1080 Video Resolution
12.	Frame Rate	30 fps at 2560x1440 (60/50 Hz) or more The frame rate and performance may vary depending on the number of connections and data bitrates (different scenes).
13.	Video Analytics	Motion Detection, Tampering Alarm
14.	Image Setting	Brightness, Contrast, Saturation, Sharpness, Flicker-less, Image Orientation (Flip, Mirror, 0°, 180°)

RESTRICTED

15.	IP	IP67
16.	Resolutions	2592 x 1940 or more
17.	Interface	100/1000 Ethernet
18.	Protocol	ARP, DHCP, DDNS, DNS, Dyn, DNS, FTP, HTTP, HTTPS, ICMP, GMP, IPv4, NTP, QoS, RTCP, RTP, RTSP, SMTP, TCP, UDP, UPnP, ONVIF (Profile S, T)
19.	Ethernet	RJ-45 connector
20.	Humidity	10% ~ 90% (no condensation)
21.	Power Source	12 V DC / PoE (IEEE802.3af)
22.	Live Viewing	Browser (IE, Edge, Chrome, Firefox), Mobile App

c. **Specification of 4 Channel Network Video Recorder (NVR) With POE Switch**

Ser	Description	Requirement
1.	Brand	To be mentioned
2.	Model	To be mentioned
3.	Country of Origin	USA/UK/ EU Countries
4.	Country of Manufacturing	To be mentioned
5.	Number of IP Channel	4 Channel
6.	Decoding format	H.265/H.264/H.264/H.265+
7.	Supported Resolution	5MP, 1080p, 720p, 4CIF, 2CIF, CIF
8.	Storage rate	30 fps or more
9.	HDD Interface	8 Bay or more
10.	Video Recording Res.	8 MP, 6MP, 5MP, 4MP, 1080P, UXGA, 720P, VGA
11.	Live View/ Playback Resolution	Up to 12MP high-definition live view
12.	Network protocol	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, IP Filter, PPPoE, FTP, Alarm Server, IP Search.
13.	Network interface	RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces
14.	Capacity	Minimum 1 TB capacity for each bay
15.	USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
16.	Power supply	100 to 240 VAC, 50 to 60Hz
17.	Software management	1. ONVIF support different platform software. 2. Support for live view and control from browser (IE, Edge, Chrome, Firefox), Mobile App

d. **Specification of Hard Disk 1 TB.**

Ser	Description	Requirement
1.	Brand	To be mentioned
2.	Model	To be mentioned
3.	Country of Origin	To be mentioned
4.	Country of Manufacture	To be mentioned
5.	RPM	7200
6.	Buffer Memory	256 MB
7.	Interface (Built –in)	Bay 6 GB/S or better
8.	Surveillance purple HDD	Yes

A.

RESTRICTED

e. **Specification of HDMI Cable**

(1)	Brand	:	To be Mentioned.
(2)	Model	:	To be Mentioned.
(3)	Country of Origin	:	To be Mentioned..
(4)	Manufacturing country	:	To be Mentioned..
(5)	Data Transfer Rate	:	18.0 Gbps.
(6)	Color	:	Black.
(7)	Size	:	5 Meter

f. **Specification of Cable Cat- 6**

(1)	Brand	:	To be Mentioned..
(2)	Model	:	To be Mentioned..
(3)	Country of Origin	:	To be Mentioned..
(4)	Manufacturing country	:	To be Mentioned.
(5)	Conductor	:	Standard Bare Copper.
(6)	Type	:	Network Cable.
(7)	Cable Shielding	:	UTP (Unshielded Twisted Pair).

g. **Specification of RJ 45 connector**

(1)	Brand	:	To be Mentioned..
(2)	Model	:	To be Mentioned..
(3)	Country of Origin	:	To be Mentioned..
(4)	Manufacturing country	:	To be Mentioned..
(5)	Type	:	RJ 45.

h. **Specification of PVC Chanel**

(1)	Brand	:	To be Mentioned...
(2)	Model	:	To be Mentioned..
(3)	Size (inch)	:	1".
(4)	Thickness	:	25mm.
(5)	Color	:	White.
(6)		:	

9. **Installation and Supervision.**

a. The CCTV Systems shall be installed at CNS Secretariat, Naval Headquarters, Banani, Dhaka-1213 Bangladesh.

b. A qualified manufacturer's/ bidder representative is to supervise the installation works along with purchaser's staff.

10. **Acceptance.**

a. **Test and Trial.** System test/ trail shall be completed within the delivery period mentioned in the contract. A standard test procedure shall be developed by the bidder in consultation with user and test report shall be submitted to ACINS with a copy to DTS (NHQ).

b. **Final Acceptance.** Final acceptance shall be given by ACINS after satisfactory test/ trial of the complete systems by user.

Ar

11. **Warranty.**

- a. A warranty certificate is to be submitted for at least 12 months from the date of acceptance of the items after satisfactory test/trial and acceptance by the ACINS.
- b. If any defect/discrepancy arises within warranty period, then the respective item is to be replaced at free of cost provided including freight within 15 (fifteen) days from the date of notification of the same to the bidder.
- c. The warranty services shall include the followings:
 - (1) To ensure the CCTV System free from bugs and errors and remains fully functional.
 - (2) To ensure necessary trouble shooting as and when required.
 - (3) To assess the system performance in quarterly basis.
 - (4) To provide technical support assistance (on call/ online/ on site) as required.
 - (5) To update the items software subscription (if needed) during the warranty period.

12. **Price Quotation.** The bidder should quote price (in BDT) for individual items according to scope of supply and requirement as stated in the tender documents confirming to the technical specifications. The quoted price should include all government taxes (VAT, AIT etc).

13. **Terms of Payment.** Payment will be made in local currency as per the following:

- a. 95% of the cost will be made after acceptance by purchaser.
- b. 5% of the cost will be made on completion of warranty period.

14. **Delivery of Item.**

- a. Delivery Time: 45 days from the date of purchase order
- b. Delivery Point: NSSD, Dhaka.
- c. Consignee for air shipment:

Officer in Charge
Naval Stores Sub Depot, Dhaka
Naval Unit, Khilkhhet
Namapara, Dhaka-1229

Or

- d. Consignee for shipment by Sea:

Commanding Officer
Naval Store Depot Chattogram
New Mooring, Chattogram.


MUSTASIM BIN NASIR
Commander BN
Asst Secretary to CNS
Naval Headquarters