

TECHNICAL SPECIFICATION OF INTEGRATED BUILDING SECURITY MANGEMENT SYSTEM, INTERNAL COMMUNICATION & OFFICE EQUIPMENT FOR NEWLY CONSTRUCTED (2nd FLOOR TO 5TH FLOOR) IFF CENTRE

1. **Name of the Equipment.** Integrated Building Security Management System, Internal Communication & Office Equipment for IFF Centre.
2. **Purpose.** To monitor, communicate, control and to assist office activities inside the IFF Centre at all time.
3. **Supplier.** Name and address with email address is to be mentioned.
4. **Year of Manufacture.** 2018 or later.
5. **Scope of Supply.** The scope of supply (details of all items mentioned in subsequent paragraphs) is to include the followings:
 - a. 1x Internal Communication System with 128 channel capacity and 96 handsets.
 - b. Door Management System for at least 30 Doors.
 - c. Anti-Static Discharge System (2,000 sq. feet).
 - d. 04x Multimedia LCD Projector.
 - e. Intranet backbone for 120 computers system.
 - f. 4x LED Smart Television (60 inch).
 - g. CCTV System (12 PTZ outdoor camera + 36 internal camera).
 - h. Smoke and Heat Detection System.
 - j. 2XConference System.
 - k. Office Equipment(15 Desktop, 4X medium sized Printer,2X multifunction printer and 2x heavy duty Laser photo copier.
6. **Technical Specification.** Detail Technical specifications of the required items are as follows:
 - a. **Internal Communication System.** Provision for 128 channel telephone exchange with 96 telephone sets should be supplied with the following features:
 - 1) Brand: To be mentioned.
 - (2) Country of Origin: EU/UK/JAPAN/WESTERN.
 - (3) Manufacturer: To be mentioned.
 - (4) Manufacturing Country: To be mentioned.
 - (5) Unified message feature: To be available.
 - (6) Analog Trunking Capacity: At least 4.
 - (7) Extension capacity to be provided
 - (8) All sets should be IP based
 - (9) Expandability: Must be expandable in future.
 - (10) Battery Backup: Minimum 2 hour.
 - (11) MDF: Appropriate MDF/IDF as applicable to be provided.
 - (12) Telephone features:
 - (a) Telephone Sets Quantity: Total 96 in nos.
 - (b) Caller ID compatible option to be available.
 - (c) LCD display: Yes
 - (d) Hands free speaker phone
 - (e) Ringer volume control

- (f) Dial lock feature to be available
- (g) At least twenty, 1 touch buttons to be available
- (h) Speaker, Full duplex

b. **Door Management System.** Existing building (Ground and 1st Floor) will have Modern Access Control System with ID card and finger print accessibility. At least 30 doors in 2nd - 5th floor to be integrated with existing system. The number may be vary upto 10-15% based on ground requirement. The door management system should include security system like card entry. There must be central monitoring and recording of entrance in central control. The system should provide record for 30 days. The details are as follows:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Full addresses are to be mentioned.
- (3) Country of Origin: Name of the country to be mentioned.
- (4) Manufacturing Country: To be mentioned.
- (5) Display Type: To be mentioned.
- (6) Record Capacity: To be provided.
- (7) System interface to the master software: Must be available.
- (8) All cabling and conduit must be provided.
- (9) Model: To be mentioned.
- (10) Power supply: 220 V 50 Hz, single phase
- (11) Database system to be mentioned.
- (12) The system should be integrated with the existing building 'Access Control System'.
- (13) Dimension : To be mentioned.
- (14) Door Logging Sensor : Must provide door logging sensor.
- (15) ACI Interface: to be mentioned.
- (16) MLVM: at least 04 layers to be available
- (17) Secure key card of 200 pcs to be provided
- (18) Must interface with central control and monitoring system.

c. **Anti-static Discharge System.** At least two thousand square feet coverage of antistatic discharge line to be provided. The system should also include ESD, cloths, wrist earthing and chemical agents. Appropriate grounding and canting pit must be contracted outside soldering. Required features are:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and full address are to be mentioned.
- (3) Country of Origin: Name of the country to be mentioned.
- (4) Manufacturing Country: Name of the country to be mentioned.
- (5) Appropriate grounding and earthing pit must be constructed outside building.
- (6) Minimum overlap blocks should be around 1500mm.
- (7) Appropriate covering material to be supplied.
- (8) Material Type: To be mentioned.
- (9) Rig/ Wrist Band: At least 60 set to be provided.
- (10) All civil works are to be done by supplier.
- (11) Power supply: 220 V 50 Hz, single phase.
- (12) Sufficient ESD (Electrostatic Discharge) protection cloth with proper electrical grounding tool to be provided.
- (13) Antistatic agents (Chemicals) are to be provided.
- (14) Mesh Pattern: To be mentioned.
- (15) Minimum over lap Blocks: 800mm

d. **Multimedia LCD Projector.** 04x high quality multimedia LCD projector along with foldable screen with following criteria need to be provided:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and full address are to be mentioned.
- (3) Country of Origin: USA/Japan.
- (4) Manufacturing Country: To be mentioned.
- (5) Life: 20,000 hrs or more.
- (6) Intensity: 5000 Lumens or more.
- (7) Resolution: WUXGA (Widescreen Ultra Extended Graphics Array).
- (8) Screen size: 12 Feet X 8 Feet or more (screen with remote control facility).
- (9) Manufacturing Year: 2018 or latest production

e. **Intranet Backbone for 120 Computers.** Required Backbone for 120 computers with necessary cables, switches, etc to be provided for connecting with existing server system. The supplier should arrange cabling along all the floors and within floors as per uses requirement for connecting 120 computer through establishing LAN with high quality cable/fibre

f. **Television.** 04x high quality smart LED television. Details as fol:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and full address are to be mentioned.
- (3) Country of Origin: EU/UK/JAPAN/KOREAN.
- (4) Manufacturing Country: Name of the country to be mentioned.
- (5) Size: 60 inch or more.
- (6) Resolution: Full HD or more.
- (7) Should be with smart facilities.
- (8) Power supply: 220 V 50 Hz, single phase.
- (9) Wi-Fi connectivity. Should be available
- (10) Refresh rate of at least 60Hz.
- (11) Manufacturing Year: 2018

g. **CCTV System.** The system will be a fully scalable system with 12 in number all weather proof outdoor PTZ cameras and 36 in number indoor cameras with network server, video record facilities. Other control devices to monitor and control from different stations with necessary cabling. The system shall have video recording facilities to record, store and replay for at least 01 month activities. It will consist of the following hardware and software but not limited to:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and address to be mentioned.
- (3) Country of Origin: To be mentioned.
- (4) Manufacturing Country: Name of the country to be mentioned.
- (5) Audio: Audio input/output (full duplex).
- (6) Ingress Protection: IP66 (For PTZ camera)
- (7) Color: True Day/Night.
- (8) Resolution: 1920X1080 or more.
- (9) Low-light Lux: 0 Lux (IR LED ON).
- (10) Lens and zoom: Lens 4.8mm – 153mm providing 32x optical zoom.(For PTZ only)
- (11) Megapixels: 2MP or more.

- (12) FPS: 30 or more.
- (13) Power Consumption: to be mentioned.
- (14) Warranty: 3 years or more.
- (15) Control: 03xPC (Slave Server) with camera controller, licensed and OS and software.
- (16) Monitor/Display: 03x42 inch and 02x32 inch.
- (17) Power Backup: Online UPS (2000VA or more).
- (18) Coverage: 150m or more (For PTZ only).

h. **Smoke and Heat Detection System.** The sensors should be western origin good quality which can detect heat and smoke. The sensors should be addressable i.e. it should be able to show the location in the central monitoring panel. There should be central alarm generation in each floor in case of fire or smoke. The system should be capable to be added with existing system fitted in ground and first floor. The sensors details are as follows:

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and full address are to be mentioned.
- (3) Country of Origin: EU/UK/JAPAN/KOREAN/WESTERN.
- (4) Manufacturing Country: To be mentioned.
- (5) Numbers: 25 sensors in each floor (number may vary upto 10% based on user requirement).
- (6) Manufacturing Year: 2018
- (7) Power Backup: Online UPS (2000VA or more).

j. **Conference System.** There should be 2x conference microphone system for 20 users. The system should be western origin and at least 4 people should be able to talk simultaneously. The microphone and amplifier should be clear in sound. The number of microphone should be 30. The microphone should lit while talking.

- (1) Brand: To be mentioned.
- (2) Manufacturer: Name and full address are to be mentioned.
- (3) Country of Origin: EU/UK/JAPAN/KOREAN/WESTERN.
- (4) Manufacturing Country: To be mentioned.
- (5) Numbers: 30 microphones for each set
- (6) Manufacturing Year: 2018
- (7) Simultaneous users: 04
- (8) Amplifier output power: To be mentioned
- (9) Microphone sensitivity: To be mentioned
- (10) Back up time for UPS: 2 hrs minimum

k. **Office Equipment.** The supplier will supply fol office equipment for the new IFF centre. All office equipment should be from original dealer and the preferred model is HP

(1) **15 Desktop Computers** (Intel core i7 8th Gen 3.70 GHz, 16 GB RAM, 256 SSD, 2 TB HDD, 21 Inch Full HD Monitor with refresh rate 60-100 Hz. The CPU should be original windows key pre-loaded or activated. All the computers should be fitted with UPS.

(2) **4x Medium Sized Monochrome Laser Printer.** with printing capacity 10,000 pages per cartridge. Paper size A3, A4. Printing speed 30 ppm

(3) **2x Multifunction Heavy Duty Laser Printer.** These printers should have all 4 printing. copying, imaging capability. The printer should be Wi-Fi network capable so that any one give printout from any position. Also Following specification must be fulfilled:

- a. **Function:** Print, Copy, Scan, Fax
- b. **Dpi:** (1200x1200) For Both color & Black print.
- c. **Duplex Printing:** Automatic
- d. **Digital Sending Standard Features:** Send to Internet fax, LAN Fax, Scan to email, Scan to SharePoint.
- e. **Paper Size:** A3, A4, A5, A6, envelope (DL ISO, C5 ISO, C6 ISO, B5 ISO)
- f. **Scan Speed:** Up to 70 ppm (b&w), Up to 68 ppm (Color)

(4) **2x Heavy Duty Laser Photocopier.** With printing capacity 50,000 pages per cartridge. Also Following specification must be fulfilled:

- a. **Print Resolution:** 600x600 dpi
- b. **Durability Rating:** Monthly page Volume 5000 to 10000 pages
- c. **Paper:** A3, A4, A5
- d. **Duplex Print:** Automatic
- e. **Copy Speed:** At least 30 Cpm
- f. **Connectivity:** Gigabit LAN, USB

7. **Standard Accessories.** Standard accessories and assemblies will include all items accessories, which are essential to operate the equipment whether those are mentioned in the specification or not. A list of such items/accessories/assemblies is to be included in the quotation.

8. **Documents.**

a. One set of following documents in English language are to be provided free of cost at the time of delivery.

- (1) Operation and maintenance manual including drawings.
- (2) Parts catalogue/identification list.
- (3) Installation drawing/diagram.
- (4) Maintenance schedule manual.
- (5) Workshop level repair manual.
- (6) Factory test/Performance test certificate.

b. One set of following documents in English language are to be provided along with the quotation/tender offer:

- (1) Brochure/Catalogue.
- (2) Operating procedure.
- (3) Manufacturer's/Distributor's/ Agent's/Dealer's certificate mentioning that the supplier (enlisted bidder) is being authorized for this quotation/offer and will be liable to fulfill all contractual obligation if his firm awarded contract.

9. **Spare Parts.** List of spare parts are to be provided as per the maintenance schedule of the equipment at least for 05 years. The list should have the indication of item wise price and the required quantity is to be mentioned.

10. **Special Tools.** One set of special tools (if required) for operation, maintenance and repair of the item is to be included with the scope of supply. List of special tools is to be provided with the quotation indicating price of each item.

11. **Training.** The supplier is to send one engineer for providing operation and maintenance training in Chittagong to train BN personal for duration of 07 days. Cost of the training has to be quoted separately.

12. **Software and Civil Works.** Appropriate software must be supplied along with the equipment. All civil works, including conduit/ concealing, as required must be carried out by supplier.
13. **Site Survey.** Supplier can survey the location at BN dockyard before preparing the offer. In this regard necessary permission has to be taken.
14. **Test, Trial, Commissioning and Acceptance.**
- a. The equipments will be installed by the supplier's engineer. Installation material such as cables, pipes, etc will be supplied by the supplier. Installation drawing provide by the supplier has to be approved by BN before shipment.
 - b. After satisfactory acceptance by BN an acceptance certificate will be signed jointly by the supplier's representative and the representative of buyer.
15. **Warranty.** Warranty for trouble free operation is to be given by the principal/ manufacturer for all the supplied items for a period of at least 12 months from the date of acceptance of the equipments. During the warranty period, if the item/equipment remains non-operational for any action pending by the supplier, the warranty period will be extended for the same period. The warranty covers all parts and labor (including service engineers cost) throughout the warranty period.
16. **Guarantee of Spares.** The manufacturer should provide guarantee of continuous supply of spares for a minimum period of 10 (ten) years 'for the whole item including all machinery, sensors, equipment, etc, with yearly price escalation not exceeding 5%.
17. **Quality Assurance Certificate.** Quality assurance certificate in respect of the associated equipment in regards to its manufacturing and performance is to be provided at the time of delivery of the items.
18. **Shipment.**
- a. The items must be supplied within 03 months from the date of issue of work order. The supplier will arrange shipment if not available in local stock of all items by air/ sea to Chittagong, Bangladesh.
 - b. All packages are to have packing notes showing their contents in details and all packages shall be marked with the name and address of the consignee and gross weight.
 - c. The supplier will arrange transportation of all supplied items to the Naval Stores Depot, Chittagong.
 - d. **Port of Shipment:** To be mentioned.
 - e. **Port of Delivery:** Chittagong port (Bangladesh).
 - f. **Time of Delivery:** Within 03 months.

19. **Consignee.** The supplier will arrange shipment of all items to the following consignee.

The Commanding Officer
Naval Stores Depot Chittagong
New Mooring, Chittagong
Bangladesh

20. **Condition for Acceptance of Quotation.** Quotation has to have supporting documents (booklets, leaflet, catalogue, brochure, drawing etc) having detailed particulars of the offered items. If detailed information regarding specifications, maker's books and catalogue about the same model of the quoted items, spare parts, accessories, scope of supply, etc are not provided, the quotation will not be accepted. Since the offered items will be used in 2nd floor to 5th floor some systems has to be integrated with the system installed in the ground floor and 1st floor. Supplier/bidder must ensure proper integration of the system with the existing one. Again the IFF centre are expected to be inaugurated very soon , time for supplying all those items to be as short as possible and only complete(scope of supply all together items) package bidder will be considered.

21. **Compliance Statement.** A compliance statement fulfilling all the requirement of the tender is to be submitted for evaluation of the quotations stating mere 'Yes' or 'No' will not suffice and detailed description/ information as required is to be given. An incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered item, the deviation has to be spelt out clearly.

General Terms:

22. **Country of Origin & Country of Manufacturer.** To be Mentioned


23. **Validity of Offer.** Tender offer must be valid for 120 days from the date of opening tender.

24. **Payment Terms.** Payment will be made in local currency on completion of delivery and acceptance by BN.

25. **Inspection.** All Items are to be inspected and tested by CINS/ACINS as per contract specification. On completion Acceptance Certificate will be issued by CINS/ ACINS.

26. **Liquidated Damage (LD).** LD for late delivery will apply as per existing rules.

27. **Price Quotation.** Price is to be quoted in local currency.



M SAAD HAIDAR
Lt Commander BN
Staff Officer (NS-I)
Naval Headquarters
Banani, Dhaka-1213