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| **Description**: **External CCTV system** * Replacing the External CCTV system with new Analogue NVR with HD Quality using the same current Coax cabling network, which will include the following:
* 34 Replacing the current Cameras with new HD Quality Cameras.
* NVR with Capacity of 48 HD Cameras.
* High Storage capacity based on our needs. (Also is preferred if capable to upload the to the Cloud Google drive).
* 2TB-8TB storage.
* Capability to be monitored through the internet (by public IP Address).(Applications for laptops and Mobiles) with NAT protocol Feature .
* Procure Cisco 2600 Series (2 Gigabit Ethernet,2 Gigabit Serial) expandable for more Cards.
* Introduce One Fiber optic dedicated for the NRV with Public IP Address.
* Procure Public IP address from Yemen Net
* 10 60-inch Screen TV.
* Site Visit is required

**Security Entrance room**1. **X-ray machine**

Supply and Install Standard X-ray luggage scanner with the following features:The x-ray screening security system is intended to inspect residents’ baggage, and visitors hand-carried items and shall be compliant with USFDA, Center for Devices and Radiation Health Standards for cabinet X-Ray Systems (21-CFR 1020.4) with typical Radiation Leakage of less than 0.1 mR/hr and the following Standard Features and minimum specification: * Tunnel Opening (WxH): Not less than 55 cm x 35 cm
* Conveyor Speed: Not less 0.2m/s Forward or Reverse
* Conveyor Capacity: Not less than 165 kg
* Film Safety Guaranteed up to ISO 1600 (33DIN)
* X-Ray Generator Voltage: >=150kV
* X-Ray Generator Duty Cycle: l00%, No Warm-Up Procedure Required
* Internal Backup: UPS Computer Operation Not less than 20 Minute
* Display Type: 19" LCD Color Monitor
* High resolution
* Operating Power: 220VAC ±l0%, 50/60Hz
* Operating Temperature: -10°C - 50°C or higher
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| * Storage Temperature: 0-60°C
* Humidity: Up to 95% Non-Condensing
* Operator Control Panel
* Site Visit is required

Additional Required Features* Computer-Based Training (CBT)
* Density Alert
* Screener Assist Software
* Threat Image Protection (TIP) Software
* Entry/ Exit Roller Tables (50 cm Increments)
* Test Case
* Radiation Meter
1. **Walk-Through Metal Detector**

Supply and Install Walk-Through Metal Detector Walk-Through Metal Detector (Standard Unit)1. *Functions*
* Display panel: Big LCD panel, English available
* Detection area: at least eight detection boards equally distributed in both sides, super-bright LED lights
* Recognition function: Size of the detected metal can be recognized
* Self-diagnosis: Automatically start-up and self-diagnose when power is on, any breakdown will be displayed on the screen
* One key restores
* Remote control: Equipped with the dedicated remote-control unit, easy for function adjustment and start-up/down
* Alarm: Sound and light alarm simultaneously, 1-25s, adjustable 255 volume level, and 11 tone levels
* Detection zone: Adjustable single or multi- zones' alarm (6 zones in the factory)
1. *Vibration protection*
* Anti-interference ability: Advanced interactive emission and absorption technology, eight adjustable working frequencies, well prevented from the mutual interference for the closed ones
* Passing speed: Detection speed can be self-defined; The highest is 100-person/min.
* Counting function: Intelligent passenger and alarm counting, up to 20000 counting times, automatically storage
* Management encryption: Prevent from illegally data modification, or miss operation
* Safety: No harm to the pacemaker, deaf-aid, pregnant woman, CD, etc.
* Calendar: Year, month, day, hour and minute
* Water-proof design: High quality waterproof synthetic fiber materials are used, precision processing technic
* Networking: Can be connected to computer, remote parameter setting/searching available (optional)
* Backup power supply: 2-8 hours’ power supply (optional)"

**FIRE ALARM SYSTEM**Supply, install, test and commission a fully operational addressable fire alarm system; include all accessories, i.e. cable, duct, PVC conduits and connection to EDB power panel, where buried in slab or wall, conduits, where surface-mounted, above false ceiling, provide and install junction boxes and all necessary connections complete as shown on drawings.1. *Addressable Fire Alarm Panel*

Supply and install fully featured single loop addressable fire alarm panel The panel should be housed in an attractive, flame retardant ABS enclosure, utilizing a switch mode power supply and has a fully removable front cover which improves ease of access for cable installations, should be networked with no additional network cards.* Loop Capacity up to 200 devices.
* Remote monitoring via a desktop PC or smartphone via the cloud
* Easy to use configuration software
* Full cause & effect programming via front panel or PC
* Meets all requirements of latest EN54 parts 2 & 4
* Extensive Day/Night mode programming
* Built-in network facility
* Training of 1 administrator and 2 system operator, with guideline to use this system.
1. *Addressable Smoke Detector*

Supply and install Optical Smoke Detector(Addressable) including all required fire resistant cable Smoke and Heat with additional Specs as following:* The detector is to detect optically dense smoke and Heat, involving materials such as soft furnishings, PVC, plastic, foam and all similar materials
* Small Sensor is preferred for visible particles approx. (0.5 to 10μm)
* Color touch screen display
* Should be meet EN54 parts 5, 7 & 17requirements.
* Remote LED output
* 8 LEDs for improved, 360° visibility
* Addressed with dip switches
* re -UP to +50°C and Minimum Continuous Temp. 0°C
* Coverage 100m²
* IP Rating IP43

Item includes (, Turnkeys, Pipes, all accessories for (above devices as layout) ...etc.), and all the works to finish this item as fully operational.1. *Addressable manual call point break glass type*
* Should be red colored
* Visible warning flag confirms activation
* In compliance with EN54-11
* Simple key to reset operating element (no broken glass)
* IP Rating at least IP32
* Item includes Turkeys, pipes, all accessories for (above devices as layout) etc.), and all the works to finish this item as fully operational.
1. *Addressable Sounder with Flasher*

Supply and install Addressable Sounder with Flasher with additional Specs. as following:* Sounder and Flasher in one device
* Should be red colored
* pattern of Flasher W 3.0 - 8.9 and the sounder has 17 selective tones minimally
* Complies with EN54 Pt 3 Type A & EN54 Pt 23
* Housed in UL V0 flame retardant ABS
* Flashing Rate 0.5Hz
* IP Rating IP 21 C
* Item includes Turnkeys, Pipes, all accessories for (above devices as layout) ...etc., and all the wors to finish this item according to the specification, and instruction of the Project Manager.
1. *Stand-alone smoke detector for annex building*
2. *Stand-alone heat detector for annex building*
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