

Project Number: 20.2045.1-061.03

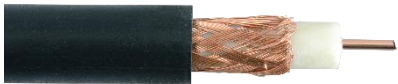
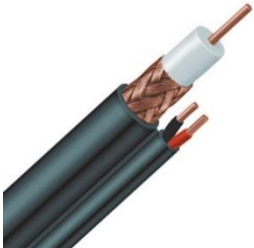
A. TECHNICAL SPECIFICATIONS

ITEM NO.	ITEM NAME	ITEM DESCRIPTIONS	QUANTITY	REFERENCE PICTRUES
1	Analog PTZ Dome Camera	ONE (1) x Analog PTZ 32X dome camera for day and night images Must feature: • Auto iris • Auto focus • 360 degree pan rotation • Optical zoom function • 12V power supply • Wall mount plate	6	
2	Analog PTZ Dome Camera fixings	ONE (1) x Analog PTZ dome camera fixings set for item 1 Must feature: • Ceiling mount plate • Post mount plate with metal straps	6	
3	Analog Waterproof Bullet Camera	ONE (1) x Analog waterproof bullet camera for day and night images Must feature: • High resolution 720TVL • Fixed lens • IR LEDs length 20m • 12V power supply, IP66 rated • Suitable for wall mounting	6	
4	2 MP IR Varifocal Dome Network Camera	ONE (1) x 2 MP IR Varifocal Dome Network Camera Must feature: • High resolution 1920 x 1080L • Auto focus • IR LEDs length 40m • 12V power supply, IP66 rated • Suitable for ceiling mounting	6	
5	2 MP IR Varifocal Dome Network Camera fixings	ONE (1) x 2 MP IR Varifocal Dome Network camera fixings set for item 7 Must feature: • In-ceiling mount plate • Pendant mount • Wall mount plate	6	

6	2 MP IR Fixed Bullet Wi-Fi Network Camera	ONE (1) x 2 MP IR Fixed Bullet Wi-Fi Network camera for day and night images Must feature: • High resolution 1920 x 1080L • Fixed lens • IR LEDs length 30m • Built-in WIFI antenna • 12V power supply, IP66 rated • Suitable for wall mounting	1	
7	2 MP IR Fixed Bullet Wi-Fi Network Camera fixings	ONE (1) x 2 MP IR Fixed Bullet Wi-Fi Network fixings set for item 8 Must feature: • Junction box	1	
8	1 MP WDR Covert (Hidden) Camera	ONE (1) x 1 MP WDR Covert (Hidden) camera for low-light images Must feature: • 1 MP image sensor • Fixed lens • Resolution 1280 x 720 • 12V power supply • Suitable for wall mounting (e.g. for ATM machines)	1	
9	Four Channel IP Intercom Kit	Four Channel IP Intercom Kit ONE (1) x Four channel IP Intercom kit (indoor and outdoor station) Suitable for use in villa or apartment complexes. Must feature: • Video intercom function • Single door or gate lock control • Noise suppression and echo cancellation • Embedded Linux operating System • 7" TFT-LCD display • POE power supply • Access control function	6	
10	CCTV External Microphone	ONE (1) x CCTV External Microphone Must feature: • Can be added to an existing CCTV system. • 30m range • 12V DC power	6	

11	4 Channel 2MP Wi-fi Surveillance Camera Kit	ONE (1) x 4 Channel 2MP Wi-fi Surveillance Camera Kit Must feature: • FOUR (4) waterproof IP66 rated outdoor bullet cameras • 30m distance/range • High quality infra-red LEDS for night time operation • Wi-fi router and batteries (if required) to be included • 12V DC power adaptor to be included • Fixed pedestal mounting version	1	
12	4 Channel Digital Video Recorder	ONE (1) x 4 Channel Digital Video Recorder Must feature: • 4K camera support (8MP U+T) • Support for HD-TVI, analogue and IP cameras	6	
13	8 Channel Network Video Recorder POE	ONE (1) x 8 Channel Network Video Recorder Must feature: • Embedded operating system • Support for PTZ cameras	6	
14	HD LCD Monitor	ONE (1) x HD LCD Monitor, 43" size 4K Must feature: • Built-in speakers • VGA and HDMI connections • Desk stand (can be moved for VESA bracket mounting)	10	
15	2TB External Hard Drive	ONE (1) x 2TB External Hard Drive, USB 3.0 connection Must feature: • HDD • Purple 2020 • Rocker switch (hard button) to switch on and off • USB 3.0 (100% compatible with USB 2.0) • Formatted in FAT32 enabling it to be used on Windows OS and Mac OS systems • AC power adaptor • USB 3.0 cable included	2	

16	AnyCast Dongle	ONE (1) x AnyCast Dongle for screen mirroring Must feature: • Screen mirroring to TV or projector • Wireless operation • 128Mb flash	2	
17	Flash Memory USB Stick – 16G	ONE (1) x Flash Memory USB Stick – 16G Must feature: • USB 3.0 backwards compatibility • Upto 5 Gbps • Password protection	2	
18	Wireless Access Point - Internal	Wireless Access Point - Internal ONE (1) x Wireless Access Point for Internal fitting Must feature: • Dual-radio (2x2) design with 802.11ac support • Up to 1.167 Gbps data-rate • Up to 27 dBm radio output power • 3 dBi integrated omni-directional antennas • 3 Gigabit Ethernet ports (802.3af/at) • Compact design (15mm only) • Flexible wall and ceiling mounting bracket • Available with PoE adapter	2	
19	Wireless Repeater/Range Extender	ONE (1) x Wireless repeater/range extender Must feature: • 4 high gain external antenna • Small, compact design • Frequency Range (GHz): 2.4GHz • Wireless Link Rate : Up to 300Mbps • Standards: IEEE 802.11b/g/n • Port: 1 x WAN 1 x LAN Port	7	
20	BNC to BNC Cable	ONE (1) x BNC to BNC pre-terminated cable Must feature: • RG59 solid strand coaxial cable • Pre-terminated with BNC plugs and strain relief boots • 75 Ohms cable • Length: 1m	7	

21	RG59 Coaxial CCTV Cable	ONE (1) x RG59 Coaxial CCTV Cable Reel Must feature: • RG59 professional grade cable • CCS centre conductor • 75 Ohms cable • Length: 100m	1	
22	RG59 Coaxial + Power CCTV Cable	ONE (1) x RG59 Coaxial + Power CCTV Cable Reel Must feature: • RG6 professional grade cable that includes a two core power cable alongside • CCS centre conductor • 75 Ohms cable • 0.5mm DC power cable (suitable for DC jack termination) • Length: 100m	1	
23	CAT6 Ethernet Cable	ONE (1) x CAT7 Ethernet Cable – 4 pair UTP outdoor grade Must feature: • 6mm diameter • 0.5mm solid bare copper conductor • Length: 50m	1	
24	Electrical Power Cable (Indoor Use)	ONE (1) x Electrical Power Cable (Indoor Use) Must feature: • Two core BLACK and RED power cable • PVC sheathing • 2.8A rating • Length: 150m reel	1	
25	4-Way HDMI Splitter	ONE (1) x 4-Way HDMI Splitter that allows distribution of 1x HDMI signal to 4x HDMI outputs simultaneously Must feature: • 3D and 4K resolution • 1080p HDMI output • 5V power supply/adaptor	1	
26	4-Port HDMI Switch Box	ONE (1) x 4-Port HDMI Switch Box that allows access to 4x HDMI computers from a single display Must feature: • Console connection: 1 x HDMI, 3 x USB, 2 x 3.5mm jacks • Host connection: 4 x HDMI, 4 x USB • 5V power supply/adaptor	1	

27	4K HDMI Repeater	ONE (1) x 4K HDMI Repeater to connect cables up to 40m length for HD resolution, or 15m for 4K signal Must feature: • Plastic moulded outer casing • HDMI version v1.4b • Video resolution max 4096 x 2160P • 3.4Gbps transfer rate	6	
28	4K HDMI Cable – 1m	ONE (1) x 4K HDMI Cable for high speed data transmission, 18Gbps Must feature: • Gold plated connectors • HDMI version v2.0 • Copper conductor • Cable diameter 6mm approx. • 1 metre length	6	
29	4K HDMI Cable – 3m	ONE (1) x 4K HDMI Cable for high speed data transmission, 18Gbps Must feature: • Gold plated connectors • HDMI version v2.0 • Copper conductor • Cable diameter 6mm approx. • 3 metre length	6	
30	4K HDMI Cable – 5m	ONE (1) x 4K HDMI Cable for high speed data transmission, 18Gbps Must feature: • Gold plated connectors • HDMI version v2.0 • Copper conductor • Cable diameter 6mm approx. • 5 metre length	6	
31	4K HDMI Cable – 10m	ONE (1) x 4K HDMI Cable for high speed data transmission, 18Gbps Must feature: • Gold plated connectors • HDMI version v2.0 • Copper conductor • Cable diameter 6mm approx. • 10 metre length	6	

32	Box of BNC Plug Connectors (RG59)	ONE (1) x Box of BNC Plug Connectors for RG59 cables Must feature: • Three-piece straight design • Gold pin, connector and sleeve • 50 Ohm	4	
33	Power Supply - 12V, 20A	• Input Voltage: 85-265VAC • Input Line Frequency: 50/60 Hz • Output Voltage: 12V DC (adjustable to +/- 10%) • Max Output Current: 20A • Max Output Power: 250W • Cooling: 60mm Temperature Controlled Fan	6	
34	HD-TVI and Analog CCTV Tester	ONE (1) x HD-TVI and Analog CCTV Tester designed to aid installation and maintenance of CCTV systems Must feature: • BNC input and output • Analog camera test and PTZ control • UTP cable test • 3.5" screen • Audio input testing • 12V power output • HDMI output • HDMI input	3	
35	4-in-1 Remote Network Cable Tester	ONE (1) x 4-in-1 Remote Network Cable Tester designed to determine continuity and wire/pin related faults in network, telephone, USB and coaxial cables before and after installation Must feature: • Tests for RJ45 (UTP/STP), RJ11, USB and BNC • LED indication for short/open circuit, crossover and no connection • Single-button test and audible alert • Remote unit stores conveniently within the main unit • Battery powered with status indicator	6	

36	IP Camera CCTV Tester	ONE (1) x IP Camera CCTV Tester designed to aid installation and maintenance of CCTV systems Must feature: • BNC input and output • IP camera test and PTZ control • UTP cable test • 7" screen • Audio input testing • 12V power output • HDMI output • HDMI input	2	
37	12v Mini-battery and charger	ONE (1) x 12v Mini-battery back and battery charger Must feature: • NiMH batteries (5x2xAAA) 0.8 Ah • Safety-protected with a 1.6A polyswitch and features a 2.1 mm x 5.5 mm female barrel connector. • Battery charger, 12v, 600mA with connector.	3	
38	75A car/leisure battery	ONE (1) x 75A car/leisure battery Must feature: • 12V car / leisure battery • 75 Amp hours • With terminal protectors • Approx 22kgs weight	2	
39	Router Power Bank	ONE (1) x Router Power Bank Must feature: • Multifunction DC uninterruptible power bank for routers • Input 100-240v AC • Output 9 or 12V • LAN, POE and 15v or 24V selector	2	
40	Inverter 120A	ONE (1) x Inverter with 120A capacity Must feature: • Single phase 50Hz square wave inverter • Input voltage 90-290V • Output voltage 220V	2	

41	Analog Mini IR Dome Camera	ONE (1) x Analog Mini IR dome camera for day and night images Must feature: • High resolution 720TVL • Fixed lens • IR LEDs length 20m • 12V power supply • Suitable for ceiling mounting	6	
42	Analog Indoor Colour Box Camera	ONE (1) x Analog indoor colour camera for day and night images Must feature: • High resolution 700TVL • Auto and manual focus • Privacy masking • Picture adjustment • 12V power supply	6	
43	Analog Indoor Colour Box Camera fixings	ONE (1) x Analog indoor colour camera fixings set for item 3 Must feature: • Wall mount plate with adjustable hinge (up/down) • Post mount plate with metal straps	1	
44	Analog Waterproof IR Dome Camera	ONE (1) x Analog waterproof IR dome camera for day and night images Must feature: • High resolution 600TVL • Fixed lens • IR LEDs length 20m • 12V power supply, IP66 rated • Suitable for ceiling mounting	6	
45	Analog Indoor IR Turret Camera	ONE (1) x Analog Indoor IR turret camera for day and night images Must feature: • High resolution 720TVL • 1.3MP or higher CMOS • IR LEDs length 20m • 12V power supply • Suitable for ceiling mounting	6	

46	Analog Indoor IR Turret Camera fixings	ONE (1) x Analog indoor IR turret camera fixings set for item 6 Must feature: • Wall mount plate • Post mount plate with metal straps • Corner mounting plate	6	
47	Analog Video Intercom Kit	ONE (1) x Analog Video Intercom Kit Must feature: • Color CMOS night vision camera • Built-in microphone and speakers • Keypad or single button operation • 4.3" TFT-LCD display • Cat5e cabled installation • Visitor calling, video communication, unlock, monitor • Alarm integration • 24V power supply	6	
48	Single Channel Intercom Kit	ONE (1) x Single channel Intercom Kit (indoor and outdoor station) Must feature: • Resident-to-resident video/audio call • Live view of HD video • Noise suppression and echo cancellation • Embedded Linux operating System • 7" TFT-LCD display • Cat5e cabled installation • Visitor calling, video communication, unlock, monitor • Alarm integration • 24V power supply	6	
49	CCTV Internal Microphone	ONE (1) x CCTV Internal Microphone Must feature: • Omnidirectional microphone. • 70m2 pickup range • 12V DC power adaptor to be included • Fixed pedestal mounting version	6	

50	URM70 Coaxial CCTV Cable	ONE (1) x URM70 Coaxial CCTV Cable Reel – 5.8mm diameter Must feature: • URM70 twisted strand coaxial cable for short run, flexible design • PE insulation • 75 Ohms cable • Length: 100m	1	
51	CT125 Coaxial CCTV Cable	ONE (1) x CT125 Coaxial CCTV Cable Reel – 7.8mm diameter Must feature: • CT125 coaxial cable for medium run, upto 500m distance • Foam PE insulation • 75 Ohms cable • Length: 100m	1	
52	Electrical Power Cable (Indoor Use)	ONE (1) x Electrical Power Cable (Indoor Use) Must feature: • Two core BLACK and RED power cable • PVC sheathing • 3A rating • Length: 150m reel	1	
53	Electrical Power Cable (Indoor Use)	ONE (1) x Electrical Power Cable (Indoor Use) Must feature: • Two core BLACK and RED power cable • PVC sheathing • 5A rating • Length: 150m reel	1	
54	Electrical Power Cable (Indoor Use)	ONE (1) x Electrical Power Cable (Indoor Use) Must feature: • Two core BLACK and RED power cable • PVC sheathing • 8A rating • Length: 150m reel	1	

55	RG6 Satellite Cable	ONE (1) x RG6 Satellite Cable Reel – 6.5mm diameter Must feature: • RG59 professional grade cable • CCS centre conductor • 75 Ohms cable • Length: 100m	1	
56	CAT6 Through Coupler	ONE (1) x CAT6 Through Coupler for linking two RJ45 patch leads Must feature: • RJ45 female sockets • Plastic housing	6	
57	CAT6 Inline IDC Coupler	ONE (1) x CAT6 Inline IDC Coupler for linking two RJ45 patch leads Must feature: • IDC punchdown termination housing (4 pair CAT 6)	6	
58	Box of BNC Bulkhead Connectors (RG59)	ONE (1) x Box of BNC Bulkhead Connectors for RG59 cables Must feature: • Two-piece straight design • Gold pin and sleeve • 50 Ohm	6	
59	Box of BNC T-Split Connectors (RG59)	ONE (1) x Box of BNC T-Split Connectors for RG59 cables Must feature: • T-design for splitting video signal in to two • BNC plug to BNC socket x2 • 50 Ohm	6	
60	Camera junction box	ONE (1) x Camera junction box, waterproof Must feature: • Aluminum camera junction box • 90mm diameter x 34mm depth • White colour	12	

61	15mm diameter plastic conduit pipe	ONE (1) x 15mm diameter plastic conduit pipe Must feature: • White plastic pipe • 15mm diameter • 2m length	16	
62	15mm diameter plastic 90 deg bend	ONE (1) x 15mm diameter plastic 90 deg bend Must feature: • White plastic pipe bend • 15mm diameter • 90 degree bend	24	
63	15mm conduit pipe clips	ONE (1) x Pack of 15mm conduit pipe clips Must feature: • Snap click design or push fit design • Pack contains 100 clips	4	
64	Rack	Rack with 9 units	6	
65	PU	PDU for Rack	1	
66	Mouse Extender	Mouse extender 10m	7	
67	Fiber Optic Cable	Fiber optic Cable 100m (2 cores) 2 core Fiber optic cable SC to SC single mode	1	

Remarks:

- 1- The winner of the tender should provide all the items given above!
- 2- All standard accessories for all offered items should be provided
- 3- The supplier shall provide the items with all standard technical features and specifications and in full working conditions.
- 4- Catalogues/picture and datasheets with details and specifications must be provided with the tender submission by bidder for the needed items
- 5- Reference pictures are only to recognize and understand the items, not an indication for any model or brand

B. DELIVERY LOCATIONS, PACKING AND TERMS:

The bidder who is proposed to be awarded is obliged to deliver the items to the location as stated below:

Swedish Academy for Training, Ronkai Quarter, Ronaki Street, Erbil, Iraq

DELIVERY TERMS:

- The supplier is responsible for the unloading at the final place of destination
- The supplier shall provide all necessary tools for unloading

PACKAGING:

As per International Medical Transportation Standards.