

**TECHNICAL SPECIFICATIONS FOR THE CONTRACTING OF THE SUPPLY AND  
INSTALLATION OF COMPUTER AND TELECOMMUNICATIONS EQUIPMENT ON  
FOUR POLICE STATION BUILDINGS, IMPLEMENTING COMMUNITY POLICING IN  
LEBANON, THROUGH A SIMPLIFIED OPEN PROCEDURE.**

**Ref. TSA0078221**

1. Object.....	1
2. Work description.....	2
3. Delivery time.....	6
4. Invoices and Payments.....	6
5. Enviromental, Health and safety CONDITIONS.....	7

## **1. OBJECT**

The object of this contract is the supply and installation of Computer and telecommunications equipment on four Police Station building in Lebanon: Gemmayzeh, Tripoli, New Saida and Dekwaneh.

These specifications, together with the Specific Administrative Terms and Conditions, govern the tender process, its content and effects, in accordance with the provisions of Law 9/2017 of 9 November, transposing into Spanish law the Directives of the European Parliament and of the Council 2014/23/EU and 2014/24/EU of 26 February 2014 (hereinafter LCSP), which shall apply to all of these works and shall be supervised and evaluated by Tragsa Lebanon technical personnel.

The presentation of the proposal by the bidder shall imply unconditional acceptance of all the clauses of these specifications, without any exception.

The language of the tender, the documents and the works shall be English.

The object of the contract corresponds to CPV code: 30200000-3 Computer equipment and hardware, of the Common Procurement Vocabulary (CPV), and is part of the action of Tragsa order no. EMP-SPD-2021-001 in which Tragsa was commissioned to carry out the rehabilitation

works of the buildings, including all the necessary actions for the execution of the civil works and the equipment of the building for its operation.

## **2. WORK DESCRIPTION**

The objective of this contract is the supply and installation of Computer and telecommunications equipment at the Internal Security Forces Police Stations in Tripoli, Gemmayzeh, Dekwaneh and New Saida, implementing Community Policing in Lebanon.

The technical characteristics, as well as the estimated quantities and unit prices are included in the corresponding annex.

### **2.1. General Requirements**

All equipment shall be of a reputable brand and designed for frequent use with the expectation that it will be used professionally on a continuous basis, and will therefore be used intensively.

#### **2.1.1. Compatibility of equipment**

The supplier shall ensure and certify that all equipment supplied is compatible with each other and with the software supplied, as well as:

- with the equipment already installed in the buildings
- with the telecommunications companies providing the service.
- with the equipment, specifications and requirements of the ISF.

#### **2.1.2. Standards and CE marking:**

Where applicable, products must be marked with the CE label or equivalent.

The equipment supplied must comply, at the time of delivery, with the standards in force in the European Union and Lebanon as regards quality, ergonomics, environment, energy saving, electromagnetic compatibility, reduction of emitted radiation and safety, as well as with design, manufacturing, packaging and labelling regulations.

Equipment must comply with the specifications of the Lebanese Internal Security Forces (ISF).

#### **2.1.3. Conditions of acceptance**

Instructions in English will be delivered with the goods supplied to enable the user to understand their usefulness, handling and maintenance.

The equipment supplied of each type shall be of the same brand, model and technical and aesthetic characteristics.

Equipment is understood to be the complete set of devices with all the essential accessories for its operation, including the software and operating system. The equipment offered will be supplied with all the inter-connection devices or elements, anchoring or fixing elements necessary for total and correct operation and for obtaining the corresponding permits and authorizations required by current legislation and, if applicable, duly integrated with the IT and telecommunications systems of each building.

Computers must have the Operating System COA (Certificate of Authentication). The factory equipment must have at least the Genuine Windows 11 Pro COA sticker affixed to the equipment.

The delivery of the equipment will be rejected if its physical or technical characteristics do not correspond to the requirements of the bidding document or are not those offered, or if the equipment belongs to a brand or model other than the one offered.

They will also be rejected if they present defects when examined, including but not limited to:

- If the supplied material is not in new condition and in its original packaging
- If any part is broken, deformed, with cracks or scratches.
- If the requested software has not been installed on the devices.
- If the equipment presents any anomaly in its operation

#### ***2.1.4. Guarantee of products and availability of spare parts***

Once reception or compliance has been made according to the contract, the guarantee period for the goods will begin, which is set at 12 months, unless the contractor has offered a longer period in the proposal submitted to the bidding for the agreement framework or to the bidding of a contract based on it, in which case the guarantee period will be the one offered.

The warranty shall include:

- The replacement of the equipment or components, accessories and any other element that forms part of the equipment and is necessary for its correct operation, that contain defects, faults or that suffer a malfunction or deterioration attributable to a deficiency of origin (materials and operation). In the event of "sudden death" of the equipment, the complete replacement shall be carried out, regardless of the component affected.
- All operations necessary for the repair of breakdowns and defects of the equipment not attributable to misuse, including all spare parts, during the warranty period. This includes all equipment components, auxiliary elements, installations and spare parts, as well as labour and travel expenses of the service personnel and other costs that may arise from the fulfilment of the guarantee, with four (4) hours response time in case of incident.

The repair or replacement of parts during the warranty period shall be at the manufacturer's expense (material, labour and transport), whether these actions are carried out "on site" or on the premises of the technical service.

The elements of the equipment to be replaced must be supplied in the shortest possible time, counting from the date on which the incident is reported.

The replaced elements must be the same or equivalent to the elements that the equipment originally had. If they cannot be the same, Tragsa or the beneficiary will have to explicitly accept the installation of an element equivalent to an original.

The company awarded the contract will have to provide the beneficiary technical team with a technical report of the revisions, specifying the parts replaced with their references and detailing the interventions carried out, with the references of the new parts.

### ***2.1.5. Specifications of the products to be supplied***

The characteristics and specifications of the equipment to be supplied are detailed in the corresponding annex.

## **2.2. Delivery conditions**

### ***2.2.1. Quantities to be supplied***

Tragsa will request independently for each of the buildings the quantities to be supplied, according to its needs, without any obligation to request a minimum quantity or amount for each of them. These orders will be made in writing and sent by e-mail to the awarded bidder.

Tragsa reserves the right to increase or decrease the number of units ordered of each item, which shall be supplied under the same conditions of price and time as the rest.

### ***2.2.2. Supply locations***

The delivery of the goods will be carried out in the premises determined in the bidding document. Tragsa will inform the successful bidder in due course of the quantity and type of goods to be supplied in each of the buildings.

The delivery and installation of the goods will be carried out in these four buildings:

- Gemmayzeh Police Station Building, located in Gouraud street in Beirut, VGW6+2WG
- Old Justice Palace in Tripoli, located in DrHachem El Husseini street in Tripoli, coord. [34.432878,35.834095]
- Dekwaneh Police Station Building, located in Dekwaneh, Matn, Mount Lebanon, VHM3+C2R Sabtiyeh
- New Saida Police Station Building, located in Saida G9RC+J7P, Sidon

Tragsa shall provide a plan showing the location of the equipment in each of the buildings in which it is to be installed.

The supply will include all the actions that are necessary for the total installation of the elements, that is, transportation, access to the place, parking permits, unpacking, assembly, fixation and removal of packaging and remains of materials.

Installation of material on site expenses is on the awarded company. Contractor has to provide all needed materials for the installation, including but not limited to: labours, electricity, cranes, cleaning tools, screws and all installation tools.

The awarded companies assume the risks derived from the transportation and delivery of the goods to be supplied without having the right to any compensation due to losses, breakdowns or damages caused to the goods before their delivery and installation. Custody of all equipment and materials available at site during the installation period.

### ***2.2.3. Liability for damage to the building***

The Contractor shall take the utmost care to avoid any damage to the building and its finishes, and shall be responsible and liable for any damage caused. The Contractor shall contract the company that has previously rehabilitated each of the buildings to carry out the repairs, Tragsa reserving the right to repair any damage caused at its own expense and deduct the cost of the repairs from the settlement.

### ***2.2.4. Material means***

The entire supply of materials will be at the Contractor's expense, and as they shall be installed on site, their deliverance shall be previously communicated to Tragsa's Project Manager, in order to organise the schedule for unloading and loading the lorries with the Contractor's auxiliary site installations.

The site shall not act as a warehouse for the Contractor; therefore, TRAGSA shall not be responsible for any damage of the equipment stored on site

### ***2.2.5. Human resources***

The bidder will provide a supply manager to organize, monitor, supervise and control the supply and installation of the goods, who will work in tight collaboration with Tragsa's Project Manager in Beirut.

Only qualified and experienced personnel will carry out the works

## **2.3. Technical documentation**

After the signing of the contract, the successful bidder has a maximum of seven days to submit the technical documentation of the goods to be supplied and the delivery schedule, which must be approved by Tragsa prior to supply.

### **2.3.1. Delivery planning**

The contractor will submit the planning of supplies and the duration of their installation.

### **2.3.2. Products data**

Data sheets, certifications, photographs, drawings or any other document defining the goods shall be submitted. If requested, a sample of the product will be submitted.

## **3. DELIVERY TIME**

### **3.1. Execution period**

The maximum time to start the supply will be 15 days from the moment of the communication in each building. The maximum time for installation will be 1 week in each building.

The maximum date to have executed the supply and installation will be:

<b>Police Station</b>	<b>Maximum execution date</b>
Gemmayzeh	09/08/2024
Tripoli	16/08/2024
New Saida	16/08/2024
Dekwaneh	09/08/2024

## **4. INVOICES AND PAYMENTS**

### **4.1. Invoices**

For the supply and installation, a monthly certification according to the units of the project, shall serve as the basis for the issuing an invoice, detailing the invoicing period, the corresponding concepts accepted by TRAGSA, and the quantity and amount of each of these.

## **4.2. Payments**

Bank transfer by TRAGSA-SPAIN shall pay fees invoice in euros (€), within 30 days after approval of the invoice by TRAGSA-LEBANON. Tragsa will be responsible for the bank charges generated in Spain, those expenses or any commissions generated in Lebanon will be borne by the contractor.

## **4.3. Taxes**

On 29<sup>th</sup> March 2023, the Ministry of Finances of Lebanon granted TRAGSA with the VAT exemption for local supply of goods and services under this project. The invoices sent by the CONTRACTOR will be stamped by TRAGSA with the stamp number associated with this exemption.

# **5. ENVIROMENTAL, HEALTH AND SAFETY CONDITIONS**

## **5.1. Environmental conditions**

The Contractor declares to be aware of Lebanon's legislative obligations regarding the environment that may result from the implementation of the activities of this contract and undertakes to comply with all applicable legal requirements regarding the environment.

Likewise, the successful tenderer shall be responsible for the proper storage of materials, mechanical equipment and tools used during the execution of the work units under contract, taking care to avoid spills, leachates, wind dispersion or any other type of contamination of the soil, water or atmosphere.

The successful tenderer will be responsible for the correct separation of waste, and for its proper storage until it is eliminated, paying special attention to:

- The waste generated in its activities will be delivered to an Authorised Waste Manager.
- Comply with the separation requirements that regulate the production and management of construction and demolition waste.
- Comply with the requirements of the Construction Waste Management Plan.
- Provide the specific containers necessary for the waste.
- Avoid putting hazardous waste in contact with non-hazardous waste.

Once the execution of the works in question has been completed, the successful bidder will remove the personnel, machinery and equipment, as well as any surplus materials and waste that may have been produced, providing Tragsa with the Waste Manager's certificates, accrediting the quantities of waste that have been delivered, indicating the worksite of origin and place of destination.

The successful bidder, in accordance with the regulations relating to the activity to be carried out, declares its intention to reduce to the strict minimum the consumption of raw materials that compromise the sustainability of the natural ecosystems from which they originate.

## **5.2. Health and safety obligations**

Employees shall be obliged to:

- Apply the principles of preventive action set out in the applicable Occupational Risk Prevention Legislation with regard to the establishment of minimum health and safety provisions.
- Comply with the regulations on the prevention of occupational risks, taking into account, where appropriate, the obligations on the coordination of business activities.
- Inform and provide appropriate instructions to workers on all measures to be taken with regard to their health and safety on the site.

The immediate cause for termination of the contract will be the non-fulfilment by the Employee of his obligations in terms of health and safety at work, towards his dependent personnel, as well as the lack of adaptation to the safety regulations in force, of the machines and equipment involved in the action that is the object of the contract.

Variations are not permitted

DESCRIPTION

**CHAPTER 1 IT Equipment**

IT01	u Computer, Desktop, i5, 16gb of RAM	<p>Supply and install computer desktop type brand Lenovo, HP, DELL or similar, including:</p> <ul style="list-style-type: none"> <li>- Core I5 13Th generation 10cores,4.6 GHZ . 20MB cache</li> <li>- 16GB RAM DDR4 -3200 MHz upgradable to 32GB</li> <li>- 512 GB NVME harddisk drive.</li> <li>- Graphics card : built in Intel UHD graphics</li> <li>- DVD-REWRITER 16X DL</li> <li>- Network interface: Integrated 10/100/1000 GbE LAN , WIFI, bluetooth.</li> <li>- Memory card reader : 5 in 1 internal</li> <li>- Ports: 1x USB-C® 3.2 Gen 1 (support data transfer and 5V@3A charging)2x USB 3.2 Gen 1x USB 3.2 Gen 21x headphone / microphone combo jack (3.5mm)1x microphone (3.5mm)4x USB 2.0 (one supports Smart Power On)1x HDMI® 1.4b1x DisplayPort™ 1.41x VGA1x Ethernet (RJ-45)1x headphone (3.5mm)1x serial (9-pin)</li> <li>- Audio: High Definition Audio</li> <li>- Windows 11 professional (64bit) licenced</li> <li>- Microsoft office professional 2021 Life Time licenced: word, excel, powerpoint, outlook, access.</li> <li>- Wireless Keyboard (with arabic letters) and mouse - including batteries.</li> <li>- All types of cables connection to the sockets and connectors.</li> <li>- Fully installed, connected and ready for commissioning</li> </ul>
IT01-A	u Monitor 24" FHD	<p>Supply and install Monitor 24" 4K UHD, HDMI, DISPLAY, USB, with built in speaker brand Samsung or similar. Fully installed connected and ready for commissioning.</p>
IT01-B	u Computer, AIO, i5, 16gb of RAM	<p>Supply and install brand new - All In One computer similar to HP AIO 24-CB1025NH, including:</p> <ul style="list-style-type: none"> <li>- Intel Core I5 12Th generation or more 10cores, 4.4 GHZ . 12MB cache</li> <li>- 16GB RAM -3200 MHz DDR4 upgradable to 32GB</li> <li>- 512 GB NVME for internal storage</li> <li>- Display: 60.5 cm (23.8") diagonal, FHD (1920 x 1080), VA, three-sided micro-edge, anti-glare, 250 nits, 72% NTSC</li> <li>- Graphics card : built in Intel UHD graphics 770, or Intel® Iris® X Graphics</li> <li>- Network interface: Integrated 10/100/1000 GbE LAN</li> <li>- Wireless: Realtek RTL8852BE Wi-Fi 6 (2x2) and Bluetooth 5.3 wireless card (supporting gigabit data rate)</li> <li>- Camera: HP True Vision 720p HD tilt privacy camera with temporal noise reduction and integrated dual array digital microphones</li> <li>- Audio: Dual 2 W speakers</li> <li>- Side Ports: 2 USB Type-A 5Gbps signaling rate (Battery Charging 1.2); 1 headphone/microphone combo, 2 USB 2.0 Type-A; 1 RJ-45, 1 HDMI-out 1.4</li> <li>- Power Supply: 65 W Smart AC power adapter</li> <li>- Windows 11 professional (64bit) licenced</li> <li>- Microsoft office professional 2021 Life Time licenced: word, excel, powerpoint, outlook, access.</li> <li>- Keyboard (with arabic letters) and mouse same brand</li> <li>- All types of cables, adapters, connection to the sockets and connectors.</li> <li>- Delivered on site in their original boxes.</li> <li>- Fully installed with the initial setup, connected and ready for commissioning</li> </ul>

IT Equipment Furniture - Promoting Community Police in Lebanon

CODE	DESCRIPTION
IT02	<p>u A4 3in1 color laser printer</p> <p>Supply, install and connect a Colour Laser All in one device similar to Canon i-sensys MF752Cdw , as per the following specifications:</p> <ul style="list-style-type: none"><li>- Technology: Colour Laser All-In-One</li><li>- Function: Print, Copy and Scan</li><li>- Resolution: 600*600 dpi</li><li>- Speed: 33ppm A4</li><li>- Duty cycle: 50000 pages/month</li><li>- Memory: 1 GB</li><li>- Input capacity: 250 sheets</li><li>- Output capacity: 150 sheets</li><li>- Paper size: A4, B5, A5, A5R, A6</li><li>- Paper type: plain</li><li>- Connectivity: USB + Network 10/100mbs + WIFI</li><li>- Print languages: pc16, POSTSCRIPT</li><li>- Driver: WIN 10 or Above</li><li>- Fonts: 50 True types</li><li>- Secure print</li><li>- Including all cartridges inside the printer and one original black cartridge for 2100 pages as a spare part.</li><li>- All types of cables connection to the sockets and connectors.</li><li>- Warranty: 1 year including labor and parts at least</li></ul>
IT02-A	<p>u A4 3in1 monochrome laser printer</p> <p>Supply and install 3 in 1 A4 Laser printer similar to Canon i-SENSYS LBP230laser , as per the following specifications:</p> <ul style="list-style-type: none"><li>- Technology: A4 Monochrome Laser printer</li><li>- Function: Print, scan and copy</li><li>- Resolution: 1200dpi</li><li>- Speed: 33ppm A4</li><li>- Duty cycle: 80000 pages</li><li>- Recommended Monthly Print Volume: 750 - 4,000 pages per month</li><li>- Duplex Built in.</li><li>- Memory: 1GB</li><li>- Input capacity: 250-sheet cassette / 100-sheet multi-purpose tray</li><li>- Output capacity: 150 sheets</li><li>- Paper size: A4, A5, A5R, B5, envelope</li><li>- Paper type: plain</li><li>- Connectivity: USB 2.0 Hi-Speed, 10BASE-T/100BASE-TX/1000Base-T, Wireless 802.11b/g/n, Wireless Direct Connection</li><li>- Driver: WIN 10 or Above</li><li>- Printer Languages: UFR II, PCL 5e3, PCL6</li><li>- Fonts: 45 PCL fonts</li><li>- All types of cables connection to the sockets and connectors.</li><li>- Including two Black Original Laser Toner Cartridge (one included and one spare for 3100 pages)</li><li>- Warranty: 1 year including labor and parts at least</li></ul>

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CODE	DESCRIPTION
IT03	<p>u Multifunction printing device</p> <p>Supply, install and connect a multifunctional printing device similar to Canon IR-1643i- ImageRUNNER, as per the following specifications:</p> <ul style="list-style-type: none"><li>- Technology: A4 Monochrome Laser Multifunctional</li><li>- Function: Print, copy, scan, automatic revering feeder,</li><li>- 12.7cm/5" Colour Touch panel</li><li>- Resolution: 600*600 dpi</li><li>- Speed: 43ppm A4</li><li>- Duplex Built in.</li><li>- Toner cycle: 20500 pages at 5% coverage.</li><li>- Memory: 1 GB</li><li>- Paper input: 1 tray, 650 sheets paper capacity .</li><li>- Output capacity: 150 sheets</li><li>- Bypass: 100 sheets paper capacity</li><li>- Auto Feeder for 50 sheets</li><li>- Paper size: A4, B5, A5, A5R, A6</li><li>- Paper type: plain</li><li>- Connectivity: USB + Network 10/100mbs + WIFI</li><li>- Print languages: pc16, POSTSCRIT</li><li>- Driver: Win10, WIN 11 pro...</li><li>- Fonts: 50 True types</li><li>- Secure print</li><li>- All types of cables connection to the sockets and connectors.</li><li>- Including two original toners (one installed inside the printer and the second delivered as a spare part for 20500 pages)</li><li>- Warranty: 1 year including labor and parts at least</li></ul>
IT04	<p>u Fax</p> <p>Supply and install install fax machine with the following connections:</p> <ul style="list-style-type: none"><li>- Technology: Electrophotographic monochrome laser printer</li><li>- Memory 16MB</li><li>- Display 2 lines x 16 characters</li><li>- Modem Speed: 33.6Kbps (Super G3)</li><li>- One Touch Dials: 22 (11 x 2)</li><li>- Speed Dials: 200</li><li>- Group Dials: 8</li><li>- Fax Forward &amp; Retrieval Forward or retrieve faxes to or from another location</li><li>- Transmit / Receive Memory Up to 400 pages3</li><li>- Error Correction Mode (ECM) Resending of failed documents where sending fax shares ECM</li><li>- Copy Speed A4: Up to 20cpm (copies per minute)</li><li>- Paper Input: 250 sheet standard paper tray</li><li>- 30 sheet Automatic Document Feeder (ADF)4</li><li>- Paper Output : 100 sheets face down</li><li>- Media size: A4, A5, B6, A6, (between 60 - 105 g/m2)</li><li>- Duty cycle: 10000 pages per month.</li><li>- Including one original toner for 1000 pages and additional original toner for 2600 pages as spare part.</li><li>- Connection should be throught RJ45 data sockets while including all the connection and converters from Rj11 (machine) to RJ45 (data socket) and for RJ45 connectors to RJ11 connectors.</li><li>- Fully installed and connected</li></ul>

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CODE	DESCRIPTION
IT05	<p>u Vandalproof Intercom</p> <p>Supply and install fixed on the wall, Anti-vandalism and weather resistant IP/SIP intercom, as per the following specs:</p> <ul style="list-style-type: none"><li>- Cold-roll steel body, vandal &amp; tamper-resistant hardware.</li><li>- Waterproof rating IP55 dust proof.</li><li>- Without keypad, support hotline calling.</li><li>- Magnetic reed hook-switch.</li><li>- Lightening protection to ITU-T recommendation K.21.</li><li>- Heavy Duty handset with hearing Aid compatible receiver, noise canceling microphone.</li><li>- Handset with industrial strong metal cord.</li><li>- POE power supply or DC 12V.</li><li>- Temperature range from -40 degree to +70 degree.</li><li>- Support echo cancellation.</li><li>- Remote software upgrade, configuration and monitoring.</li><li>- Powder coated in UV stabilized poly ester finish.</li><li>- CE certified</li></ul> <p>Fully installed and connected to work properly.</p>
IT06	<p>u IP Telephone</p> <p>Supply and install IP telephone Similar to GXP 1628, with following specifications:</p> <ul style="list-style-type: none"><li>- Call forwarding.</li><li>- Voice-to-email transcription.</li><li>- Call recording, auto-attendant.</li><li>- Intercom features.</li><li>- Password-Protected security .</li><li>- Network security and priority .</li><li>- Dual-switched Gigabit ports integrated PoE.</li><li>- Stand with 2 adjustable angles of 45 and 50 degrees.</li><li>- 8 programming Keys.</li><li>- Up to 1000 contacts, call history up to 200 records,</li><li>- Warranty: one year at least, unless it is mentioned differently.</li><li>- Compatible with the existing platform systems on the police station.</li></ul> <p>Fully installed and connected including cabling.</p>

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CODE	DESCRIPTION
IT07	<p data-bbox="268 174 376 192">u PABX#8</p> <p data-bbox="624 212 1481 264">Supply, install and connect hybrid PaBX similar to GrandStream UCM 6308 IP PBX with the following specifications:</p> <ul style="list-style-type: none"> <li data-bbox="624 271 927 297">- Analog Telephone FXS ports: 8 Rj11</li> <li data-bbox="624 304 871 331">- PSTN Line FXO ports: 8Rj11</li> <li data-bbox="624 338 1481 389">- All ports have lifeline capability in case of power outage and can be expanded by peering with an FXS gateway .</li> <li data-bbox="624 396 1394 423">- Network interfaces: Three self adaptice Gigabit ports (switched, routed or dual mode) with PoE+</li> <li data-bbox="624 430 1481 481">- Voice and Fax codecs: Opus, G711 A-law/U-law, G.722.1, G.722.1C, G.723.1.5.3K, G.726-32, G.729A/B, iLBC, GSM; T.38.</li> <li data-bbox="624 488 791 515">- Support NAT router</li> <li data-bbox="624 521 735 548">- LCD display</li> <li data-bbox="624 555 1481 607">- Maximum call capacity: up to 3000 users, up to 25 simultaneous video conference rooms, up to 300 simultaneous participants in all rooms combined, up to 9 video feeds in all conference rooms</li> <li data-bbox="624 613 1118 640">- Zero configuration provisioning of Grandstream SIP endpoints</li> <li data-bbox="624 647 1353 674">- Built-in conferencing &amp; meetings platform; supports desktop, Wave app, and SIP endpoints</li> <li data-bbox="624 680 1481 732">- Wave for Android, iOS, Chrome and Firefox browsers allows communication with all UCM6300 users &amp; solutions</li> <li data-bbox="624 739 1238 766">- API available for third-party integrations, including CRM and PMS platforms</li> <li data-bbox="624 772 1481 824">- Advanced security protection with secure boot, unique certificate and random default password to protect calls and accounts</li> <li data-bbox="624 831 1481 882">- Call center: Multiple configurable call queues, automatic call distribution based on agent skills/availability. Work-load, in-queue announcement.</li> <li data-bbox="624 889 1238 916">- Auto Attendant up to 5 layers of IVR in multiple language (Arabic, English...)</li> <li data-bbox="624 922 1262 949">- Automated NAT firewall traversal service facilitates secure remote connections</li> <li data-bbox="624 956 1481 1008">- Supports Full-Band Opus voice codec and H.264/H.263/ H.263+/H.265/VP8 video codec, jitter resilience up to 50% packet loss</li> <li data-bbox="624 1014 1182 1041">- Compatible with GDMS for cloud setup, management and monitoring</li> <li data-bbox="624 1048 1206 1075">- Based on Asterisk* version 16 open source telephony operating system</li> <li data-bbox="624 1081 1166 1108">- Compatible with the existing platform systems on the police station.</li> <li data-bbox="624 1115 751 1142">- Rack mounted</li> <li data-bbox="624 1149 1050 1176">- Fully installed and connected to the existing network.</li> </ul>

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CODE	DESCRIPTION
IT08	<p>u PABX#4</p> <p>Supply and install hybrid PaBX ports similar to GrandStream UCM 6304 IP PBX with the following specifications:</p> <ul style="list-style-type: none"> <li>- Analog Telephone FXS ports: 4 Rj11</li> <li>- PSTN Line FXO ports: 4 Rj11</li> <li>- All ports have lifeline capability in case of power outage and can be expanded by peering with an FXS gateway .</li> <li>- Network interfaces: Three self adaptice Gigabit ports (switched, routed or dual mode) with PoE+</li> <li>- Voice and Fax codecs: Opus, G711 A-law/U-law, G.722.1, G.722.1C, G.723.1.5.3K, G.726-32, G.729A/B, iLBC, GSM; T.38.</li> <li>- Support NAT router</li> <li>- LCD display</li> <li>- Maximum call capacity: up to 2000 users, up to 15 simultaneous video conference rooms, up to 200 simultaneous participants in all rooms combined, up to 9 video feeds in all conference rooms</li> <li>- Zero configuration provisioning of Grandstream SIP endpoints</li> <li>- Built-in conferencing &amp; meetings platform; supports desktop, Wave app, and SIP endpoints</li> <li>- Wave for Android, iOS, Chrome and Firefox browsers allows communication with all UCM6300 users &amp; solutions</li> <li>- API available for third-party integrations, including CRM and PMS platforms</li> <li>- Advanced security protection with secure boot, unique certificate and random default password to protect calls and accounts</li> <li>- Call center: Multiple configurable call queues, automatic call distribution based on agent skills/availability. Work-load, in-queue announcement.</li> <li>- Auto Attendant up to 5 layers of IVR in multiple language (Arabic, English...)</li> <li>- Automated NAT firewall traversal service facilitates secure remote connections</li> <li>- Supports Full-Band Opus voice codec and H.264/H.263/ H.263+/H.265/VP8 video codec, jitter resilience up to 50% packet loss</li> <li>- Compatible with GDMS for cloud setup, management and monitoring</li> <li>- Based on Asterisk* version 16 open source telephony operating system</li> <li>- Compatible with the existing platform systems on the police station.</li> <li>- Including the installation of one rack shelve inside the existing data cabinet rack</li> </ul>
IT09	<p>u TV 50" with receiver</p> <p>Supply install and connect UHD 4K TV 50 Inch similar to LG UQ7500 Series including:</p> <ul style="list-style-type: none"> <li>- Smart Tv - Gen5 AI Processor 4k</li> <li>- Real 4K UHD picture, colour and depth</li> <li>- HDMI cable</li> <li>- Receiver for the parabolic antenna (included in the TV or a separate item)</li> <li>- TV cable and adapters from wall socket to the receiver</li> <li>- Conqueror articulating stand.</li> </ul> <p>Fully installed and connected. Ready for commissioning.</p>
IT10	<p>u TV 65" with receiver</p> <p>Supply install and connect UHD 4K TV 65 Inch similar to LG UQ7500 Series including:</p> <ul style="list-style-type: none"> <li>- Smart Tv - Gen5 AI Processor 4k</li> <li>- Real 4K UHD picture, colour and depth</li> <li>- HDMI cable 3 to 5m at least</li> <li>- Receiver for the parabolic antenna (included in the TV or a separate item)</li> <li>- TV cable and adapters from sockets to the receiver</li> <li>- Conqueror articulating stand.</li> </ul> <p>Fully installed and connected. Ready for commissioning.</p>

IT Equipment Furniture - Promoting Community Police in Lebanon

CODE	DESCRIPTION
IT11	<p><b>u 16 channel NVR</b></p> <p>Supply and install 16 channel NVR as per the following specifications:</p> <ul style="list-style-type: none"><li>- Inputs: 16 channels</li><li>- Recording Resolution: up to 6MP</li><li>- Throughput: 160Mbps minimum</li><li>- Compression: H.265</li><li>- Raid 5 Redundant storage 4 bays</li><li>- Usable Storage included: up to 10TB HDD</li><li>- 2×USB ports</li><li>- Video monitor output: 2× HDMI, 1×VGA</li><li>- Network interface: RJ-45 10/100/1000 Mbps</li></ul> <p>Installed in the investigation rooms data cabinet, connected to the Cameras and working properly with the system of the control room.</p> <p>Programmed to be managed through the computers of the control rooms.</p>
IT12	<p><b>u Wall / ceiling Mounted Microphone</b></p> <p>Supply and install Wall or ceiling mounted Microphone as per the following specs:</p> <ul style="list-style-type: none"><li>- Frequency Response: 50Hz to 8kHz</li><li>- Condenser microphone with built-in preamplifier and automatic gain control</li><li>- Microphone sensitivity: - 45dB</li><li>- Shall pick up normal sounds at least four meters away</li><li>- Flush or Surface mount to wall or ceiling</li><li>- Omni-directional</li></ul> <p>Fully installed and connected to the AUDIO and VIDEO recorder.</p> <p>Including testing.</p>
IT13	<p><b>u Dome Camera 4 Megapixels</b></p> <p>Supply and install Dome Camera 4 Megapixels</p> <ul style="list-style-type: none"><li>- Frame Rate: 15fps@4MP</li><li>- Lens: Varifocal 4 ~ 12 mm</li><li>- Integrated microphone</li><li>- Power: 12VDC or 24VAC, PoE</li><li>- Compression: H.264, H.265</li></ul> <p>Fully installed and connected to the NVR.</p> <p>Including testing.</p>
IT14	<p><b>u Connection and Control for CCTV</b></p> <p>Supply and install CCTV connection and control from RJ45 socket or data cabinet to HDMI TV monitor, including cabling, converters, mouse, connection and set up with IP system of the project.</p> <p>Ready for commissioning with the CCTV system.</p>