**أ. مواد الشبكات:**

|  |  |  |  |
| --- | --- | --- | --- |
| **QTY** | **Description** | **item** | **#** |
| 20 | Switch small business (4-port 10/100 Max PoE+ Managed Switch) +( 1 Gigabit copper/SFP combo) | Switch 4port  |  |
| 30 | Switch small business (8-port 10/100 Max PoE+ Managed Switch) +(2 Gigabit copper/SFP combo) | Switch8 port  |  |
| 15 | Switch small business (16-port 10/100 Max PoE+ Managed Switch) +( 2 Gigabit copper/SFP combo) | Switch 16 port  |  |
| 15 | Switch small business (24-port 10/100 Max PoE+ Managed Switch) +( 4 Gigabit copper/SFP combo) | Switch 24 |  |
| 10 | 8 SFP Gigabit slots, 2 Gigabit copper/SFP combo | Switch  |  |
| 40 | 1000BASE-LH SFP transceiver, for multi-mode fiber, 850 nm wavelength, support up to 550 MCompatibility for cisco switches | SFP MM |  |
| 40 | 1000BASE-LH SFP transceiver, for single-mode fiber, 1310 nm wavelength, support up to 40 kmCompatibility for cisco switches | SFP SM |  |
| 10 | Fiber optic SM 10/100 to 10/100base-Tcopper UTP - POE | Media converter SM (fiber to ethernet) |  |
| 10 | Fiber optic MM 10/100 to 10/100base-Tcopper UTP - POE | Media converter MM (fiber to ethernet) |  |
| 30 | Fiber optic SM 10/100/1000 to 10/100/1000base-Tcopper UTP - POE | Media converter SM (fiber to ethernet) |  |
| 30 | Fiber optic MM 10/100/1000 to 10/100/1000base-Tcopper UTP - POE | Media converter MM (fiber to ethernet) |  |
| 50 | Patch cord fiber 2sc-2sc SM (1m) | Patch cord fiber |  |
| 50 | Patch cord fiber 2sc-2sc MM (1m) | Patch cord fiber |  |
| 50 | Patch cord fiber 2sc-2lc SM (1m) | Patch cord fiber |  |
| 50 | Patch cord fiber 2sc-2lc MM (1m) | Patch cord fiber |  |
| 100 | Fiber box 4 core SM fully loaded with pigtails and adapter SC; rack mounted | Optical distribution frames (ODF) |  |
| 50 | Fiber box 8 core SM fully loaded with pigtails and adapter SC, SM, rack mounted | Optical distribution frames (ODF) |  |
| 25 | Fiber box 12 core SM fully loaded with pigtails and adapter SC; rack mounted | Optical distribution frames (ODF) |  |
| 15 | Fiber box 24 core SM fully loaded with pigtails and adapter SC; rack mounted | Optical distribution frames (ODF) |  |
| 200 | Fiber Pigtails SC SM 9/125 | Fiber Pigtails |  |
| 100 | Fiber Pigtails LC SM 9/125 | Fiber Pigtails |  |
| 200 | Fiber Pigtails SC MM 50/125 | Fiber Pigtails |  |
| 100 | Fiber Pigtails LC MM 50/125 | Fiber Pigtails |  |
| 250 | Adapter SC SM Simplex | Fiber optic adapter  |  |
| 250 | Adapter SC SM Duplex | Fiber optic adapter |  |
| 150 | Adapter LC SM Simplex | Fiber optic adapter |  |
| 150 | Adapter LC SM Duplex | Fiber optic adapter |  |
| 250 | Adapter SC MM Simplex | Fiber optic adapter |  |
| 250 | Adapter SC MM Duplex | Fiber optic adapter |  |
| 150 | Adapter LC MM Simplex | Fiber optic adapter |  |
| 150 | Adapter LC MM Duplex | Fiber optic adapter |  |
| 50 | Communication cabinet 4U with PDU and FAN | Cabinet  |  |
| 50 | Communication cabinet 6U with PDU and FAN | Cabinet |  |
| 10 | Communication cabinet 9U with PDU and FAN | Cabinet |  |
| 350 | Water proof box (10\*10) | Box  |  |
| 25 | Water proof box (20\*20) | Box  |  |
| 25 | Water proof box (40\*40) | Box  |  |
| 100 | FTP cat 6 cable (305 M) (per box) | FTP cable |  |
| 5 |  8 core, SM 9/125 Areal, two steel –wire strength member (drum 2000 m) | Fiber cable |  |
| 2 |  8 core, MM, OM2 50/125 Areal, two steel –wire strength member (drum 2000 m) | Fiber cable |  |
| 5 | 12 core, SM 9/125 Areal, two steel –wire strength member (drum 2000 m) | Fiber cable |  |
| 2 | 12 core, MM, OM2 50/125 Areal, two steel –wire strength member (drum 2000 m) | Fiber cable |  |
| 20 | Capacity 12 core, used for Arial installation, entries for 2cable, shall be made of plastic, gasket steel, chemical –resistant material | Fiber optic joint  |  |
| 500 | Fiber protection sleeve 40mm | Fiber protection sleeve |  |
| 300 M | Plastic trunk 2.5x3.8 (per m) | Plastic trunk |  |
| 300 M | 16 mm, white color, hardened, (per m) | PVC Flexible pipe |  |
| 300 M | 20mm fixable white color flexible pipe per m | Flexible pipe |  |
| 300 M | 30mm fixable white color flexible pipe per m | flexible pipe |  |
| 4 Persons | technical training for Implementing, configuration and Operating all network devices. | TRAINING |  |

 **ب. مواد الكاميرات:**

|  |  |  |  |
| --- | --- | --- | --- |
| **QTY** |  **Min. specification** | **item** | **#** |
| 5 | * 30 Mbps / 30 Mbps Bit Rate Input.
* 4-ch IP video.
* 4k resolution.
* Recording Resolution 4MP or more.
* Video Compression H.265+ / H.265(HEVC) / H.264+ / H.264.
* Capacity Up To 10TB Capacity for Each HDD.
* Protocol IPv4 / IPv6 / TCP / UDP / RIP / RISP / RTCP / HTTP / HTTPS / DNS / DDNS / DHCP / NTP / SNTP / SMTP / SNMP / UPNP / NFS.
* Network interface RJ 45 10M/100M.
* Supported Standard /IEEE 802.3af / at.
* HDD (2TB).
* Rack mounted 19".
* ONVIF.
 | NVR 4 channel | 1 |
| 20 | * 60 Mbps / 60 Mbps Bit Rate Input.
* 8-ch IP video.
* 4k resolution.
* Recording Resolution 4MP or more.
* Video Compression H.265+ / H.265(HEVC) / H.264+ / H.264.
* Capacity Up To 10TB Capacity for Each HDD.
* Protocol IPv4 / IPv6 / TCP / UDP / RIP / RISP / RTCP / HTTP / HTTPS / DNS / DDNS / DHCP / NTP / SNTP / SMTP / SNMP / UPNP / NFS.
* Network interface RJ 45 10M/100M.
* Supported Standard /IEEE 802.3af / at.
* HDD (4TB).
* Rack mounted 19".
* ONVIF.
 | NVR 8 channel | 2 |
| 30 | * 90 Mbps / 90 Mbps Bit Rate Input.
* 16-ch IP video.
* 4k resolution.
* Recording Resolution 4MP or more.
* Video Compression H.265+ / H.265(HEVC) / H.264+ / H.264.
* Capacity Up To 10TB Capacity for Each HDD.
* Protocol IPv4 / IPv6 / TCP / UDP / RIP / RISP / RTCP / HTTP / HTTPS / DNS / DDNS / DHCP / NTP / SNTP / SMTP / SNMP / UPNP / NFS.
* Network interface RJ 45 10M/100M.
* Supported Standard /IEEE 802.3af / at.
* HDD (4TB).
* Rack mounted 19".
* ONVIF.
 | NVR 16 channel | 3 |
| 30 | * LED 48".
* Wall bracket.
* HDMI cable 5m.
 | Monitor | 4 |
| 200 | * 5MP.
* LUX with IR ON.
* Motorized Lens 3.6 mm@ F1.6.
* P-Iris.
* IR Distance Up to 40M and above.
* ICR Filter Auto Switch.
* Video (H265+ / H265 / H264+ / H264).
* Ethernet RJ45 10M / 100M.
* Protocol (Ipv4/Ipv6, TCP, UDP, RTP,RTSP,HTTP,DNS,DDNS,FTP,NTP,SMTP,SNTP,UPnP,SIP,PPPoE,ICMP)
* Housing (IP67).
* Event Trigger (smart Motion Detection, Network Disconnection, Audio Alarm).
* WDR 140dB super WDR.
* Junction box or box to save the connector.
* With reset button.
* ONVIF.
 | IP Outdoor Fixed camera | 5 |
| 100 | * 5MP.
* LUX with IR ON.
* Motorized Lens3.6 mm@ F1.6.
* P-Iris (Optional).
* IR Distance Up to 40M and above.
* ICR Filter Auto Switch.
* Video (H265+ / H265 / H264+ / H264).
* Ethernet RJ45 10M / 100M.
* Protocol (Ipv4/Ipv6, TCP, UDP, RTP,RTSP,HTTP,DNS,DDNS,FTP,NTP,SMTP,SNTP,UPnP,SIP,PPPoE,ICMP).
* Housing (IP67 / IK10).
* Event Trigger (smart Motion Detection, Network Disconnection, Audio Alarm).
* WDR 140dB super WDR.
* With reset button.
* ONVIF.
 | IP Indoor Fixed camera | 6 |
| 20 | * 4MP.
* LUX with IR ON.
* Lens 5 mm to 12 mm.
* optical zoom 25x to 35x.
* IR Distance Up to 200 M.
* ICR Filter Auto Switch.
* Video (H265+ / H265 / H264+ / H264).
* Ethernet RJ45 10M / 100M.
* Protocol (Ipv4/Ipv6, TCP, UDP, RTP,RTSP,HTTP,DNS,DDNS,FTP,NTP,SMTP,SNTP,UPnP,SIP,PPPoE,ICMP)
* Housing (IP67).
* Event Trigger (smart Motion Detection, Network Disconnection, Audio Alarm).
* Pan Range 360 endless.
* Tilt Range 0 – 90 auto Flip manual speed 0.5 – 120 / S.
* Preset Quantity 255.
* With reset button.
* ONVIF.
 | IP PTZ camera | 7 |
| 4Persons | * technical training for security systems include cameras, NVR and, (VMS) video management system
 | **TRAINING** | 8 |

**ج. الشروط الخاصة**

1. **العطاء قابل للتجزئة كبند ( أ و ب) فقط و غير قابل للتجزئه ضمن البند .**
2. **مدة التسليم (16) أسبوع كحد أقصى.**
3. **العطاء غير شامل التركيب والتشغيل.**
4. **العطاء شامل التسليم في مديرية الأمن السيبراني و تكنولوجيا المعلومات.**
5. **الدورات شاملة كافة التكاليف من اقامة وتذاكر وتنقل ورسوم الدورة والتاشيرات وكل ما يلزم.**
6. **الدورات يجب أن تعقد من خلال مركز ومدرب معتمدين من الشركة الصانعه .**
7. **تقوم الشركة بالصاق (label) على جميع ألاجهزة يحتوي على اسم الشركة ورقم قرار الاحالة وتاريخ التوريد.**
8. **تقوم الشركة بتزويد مديرية الأمن السيبراني وتكنولوجيا المعلومات بكشف بالارقام المتسلسة (Serial numbers) لجميع الأجهزة عند تسليم الفاتورة.**
9. **يجب الالتزام بكافة محتويات المواصفات والشروط.**
10. **العرض يجب ان يشمل ورقة مطابقة على شكل جدول يحتوي المواصفات المطلوبة والمواصفات المقدمة من الشركة وبالاشارة الى الكاتلوج الفني، عدم تقديم هذه الورقة يعطي الحق للجنة الشراء برفض العرض وتكون الشركة مسؤولة عن جميع المعلومات داخلها.**
11. **الموزع الشبكي (Switch) هو (Telecom Grade Device).**
12. **مدة الدورة التدريبية (5) أيام عمل.**