

عطاء رقم 22/ل ر/2021 توريد وتركيب وتشغيل أجهزة حاسوب وتوابعها/ كلية الهندسة

معلومات عامة:

- جميع البنود في هذا العطاء سيتم توريدها وتركيبها وتشغيلها في حرم جامعة مؤتة الرئيسي.
- أجزاء هذا العطاء قابلة للتجزئة بحيث تكون جميع البنود في الجزء الواحد جزء واحد لا يتجزأ.
- جميع المتقدمين للعطاء مرحب بهم لعمل زيارة ميدانية للاطلاع على واقع الحال، على أنه وفي حال تعارض أي معلومة وردت في هذا العطاء مع ما قد يحصل عليها من الزيارة الميدانية بشكل مباشر أو غير مباشر؛ فتعتبر المعلومة الواردة في هذا العطاء هي المعلومة المرجعية والمقبولة بشكل رسمي.

الجزء الأول/ نظام الاتصال المرئي (Video Conference System):

البند #1: جهاز حاسوب محمول (Laptop): عدد (1)

- Business Edition (OS is not required)
- 10th Gen Intel, Core i7 Processor
- 16GB Memory, at least DDR4 1600MHz, upgradable
- At least 1 TB SSD or (500GB SSD & 1 TB STAT HDD)
- FHD 1920x1200 Anti-glare, 15.6" display or larger
- Touch screen.
- NVIDIA GeForce GTX 1650 Ti, 8GB VRAM
- Finger print reader is required
- Support Wi-Fi
- Ethernet Gigabit RJ45
- Minimum 2 x USB 3.0, 1 x USB 2.0, HDMI
- Genuine carry case.

البند #2: كاميرا USB: عدد (1)

- Microsoft LifeCam Studio FHD.
- Digital video capture speed: 30 fps.
- Maximum resolution: 1920 x 1080 pixels.
- Maximum resolution (still pictures): 2560 x 2048.
- Face tracking.
- Digital zoom: 3 x.
- Wide-Angle Lens.

البند #3: شاشة سمارت 75": عدد (1)

- Wall-Mount, with wall bracket and all required mount kit.
- Resolution ULTRA HD TV 3840 X 2160.
- Viewing Angle 178H / 178V.
- Smart TV –Licensed Linux.
- App Store.
- Quad Core.
- HDR 10.
- Any View Screen Mirroring.
- Dolby digital.
- Response time 8ms.
- DVB-T.
- Wi-Fi Bands 2.4GHz.
- HDMI Input x 4
- HDMI Input No. 1,2,3,4 –4K@60Hz with HDCP version 2.2
- HDMI Input 1,2,3,4 version 2.0
- HDMI ARC on HDMI 1.
- USB Port 2.0 x 2
- Digital Media Player FAT/FAT32/NTFS.
- USB Media Player MPEG4/H.264/H.265.
- AV Input x 1
- RF –Radio Frequency Input T1/T2 x 1.
- Earphone Jack x 1
- Optical SPDIF Output x 1
- Ethernet Port RJ-45 x 1.
- Speaker Built-in.
- AC Power Cord Included.
- User Manual included.
- IR Remote Control Included.

البند #4: جهاز حاسوب مصغرة (Mini Computer): عدد (1)

CPU	Intel Core i7 10th Generation
Cache	Min. 8 MB Smart Cache
RAM	Min. 8 GB DDR4
Hard Disk	At least 512GB SSD Hard Drive
Video Memory	At least 2 GB
Interfaces	At least 2 x USB 3.0 and 2 x USB 2.0
Communications	Ethernet (RJ-45) 10/100/1000
DVD	DVD+RW
Expansion Slots	Two empty Slots.
Keyboard	Wireless Arabic/English (Same Brand preferred)
Mouse	Wireless Optical Mouse (Same Brand preferred)

الجزء الثاني/ خوادم رئيسية (Servers):

البند #1: خادم رئيسي (Server): عدد (2)

Processors	Intel Xeon Silver with Min. (2.1Ghz/16 Cores/11M Cache). Single and Dual CPU are acceptable.
Installed memory	- 256 GB (DDR4) Registered RAM,
Storage	- 3 x 600GB (Minimum) Hot-plug 15K RPM SAS 12Gbps HDD.
HW RAID	PERC H730P+ RAID Controller, 2Gb NV Cache.
Optical Drive	DVD+/-RW SATA.
Networking	- Dual port (1Gb) Ethernet Card. - Dual port (16Gb) Fiber HBA Card, Loaded with 2 SFPs.
Form Factor chassis	2U Rack Mount, or less. With all required mount kit, tools and components.
Power Supply & Cooling	Dual, Hot-plug and Redundant Power Supply.
I/O Ports	- Min. 1 USB 2.0 on front panel. - Min. 1 USB 3.0 on front panel. - Min. 2 USB 3.0 on rear panel. - VGA video card.
Management	Embedded management included, with remote management Ethernet (1Gb) dedicated port.
Warranty	Min. 3 Years.
OS Support	- OS is not required, but Server must Support the following: - Ubuntu, Red Hat (Enterprise) and SUSE (Enterprise) Linux. - Microsoft Windows Server with Hyper-V. - VMware ESXi.

البند #1: خادم رئيسي (Server): عدد (1)

Processors	Intel Xeon Silver with Min. (2.1Ghz/16 Cores/11M Cache). Single and Dual CPU are acceptable.
Installed memory	- 256 GB (DDR4) Registered RAM,
Storage	- 6 x 2.4TB (Minimum) Hot-plug 10K RPM SAS 12Gbps HDD.
HW RAID	PERC H730P+ RAID Controller, 2Gb NV Cache.
Optical Drive	DVD+/-RW SATA.
Networking	- Dual port (1Gb) Ethernet Card. - Dual port (16Gb) Fiber HBA Card, Loaded with 2 SFPs.
Form Factor chassis	2U Rack Mount, or less. With all required mount kit, tools and components.
Power Supply & Cooling	Dual, Hot-plug and Redundant Power Supply.
I/O Ports	- Min. 1 USB 2.0 on front panel. - Min. 1 USB 3.0 on front panel. - Min. 2 USB 3.0 on rear panel. - VGA video card.
Management	Embedded management included, with remote management Ethernet (1Gb) dedicated port.
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الجزء الثالث/ شبكة مختبر حاسوب (Infrastructure):

Item #1: Access Switch: Qty (1)

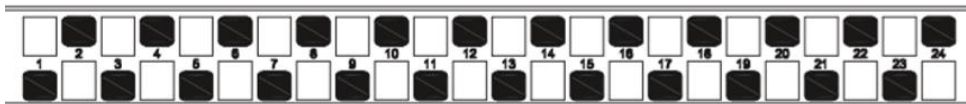
- 24 RJ-45, Support PoE+ (Min. 370 Watt power budget).
- Switch Capacity: not less than 125Gbps
- Throughput: not less than 95 Mbps
- MAC Addresses: not less than 16000
- AC Input
- Support both IPv4 & IPv6.
- Layer 3 switch (Static route & RIP) and support OSPF in the future.
- Support QoS and SSH.
- Support Web GUI Management.
- All required licenses during warranty time must be included.

Item #2: UTP Cable: Qty (3 Boxes)

- U/UTP 4 pairs Cat 6, LSZH.
- 250 MHz Frequency or above.
- Comply with ISO 11801 or TIA/EIA-568
- Flame Retardant Sheath (FR)
- The cable must support 1G.

Item #3: UTP Patch panel: Qty (1)

- 24 x RJ45 female Cat 6 (**fully loaded**), unshielded.
- Comply with ISO 11801 or TIA/EIA-568 Cat6.
- Staggered-port design to provide more space between ports.
- Straight (**V-Shape is not acceptable**).
- Below image is for design clarification only.



Item #4: Cable Organizer (Cord Guide): Qty (1)

- 1U, Metal, Box type
- Strong Material.

Item #5: Patch cord “3 Meter”: Qty (24)

- U/UTP 4 pairs Cat 6, LSZH.
- 250 MHz Frequency.
- Comply with ISO 11801 or TIA/EIA-568
- Molded boots, Provide flexibility.

Item #6: Patch cord “1 Meter”: Qty (24)

- U/UTP 4 pairs Cat 6, LSZH.
- 250 MHz Frequency.
- Comply with ISO 11801 or TIA/EIA-568
- Molded boots, Provide flexibility.

Item #7: Single Data Outlet: Qty (22)

- Shall include Two Cat6 RJ-45 unshielded Jack.
- One faceplate with Two holes for Module Jack.
- 2 x RJ45 Module Female.
- Category 6 connector shall comply with ISO 11801 or EIA/TIA 568.
- 45 flour boxes must be included.

Item #8: UTP Cabling (Installation and Configuration): Qty (22)

- Cables Installation for 22 end-points and 1 uplink (all UTP).
- All connectors' termination on two ends.
- Cables organization and Labeling on both sides.

الجزء الرابع/ أجهزة مختبر حاسوب (Lab):

البند #1: جهاز حاسوب مكتبي (Desktop): عدد (22)

CPU	Intel Core i7 10th Generation
Cache	Min. 12 MB Smart Cache
RAM	Min. 16 GB DDR4
Hard Disk	At least 256GB SSD (NVMe) HDD At least 1TB SATA HDD Or One SSD (NVMe) with 1TB is acceptable instead of the two previous HDD.
Video Memory	At least 4 GB GDDR5
Interfaces	- At least 2 x USB 3.0 and 2 x USB 2.0 - At least HDMI or DVI port.
Communications	Ethernet (RJ-45) 10/100/1000
DVD	DVD+RW
Expansion Slots	Two empty Slots.
Keyboard	USB Arabic/English (Same Brand)
Mouse	USB Optical Mouse (Same Brand)
Monitor	- At least 24" wide LCD Monitor - At least QHD.
Other	HDMI and DP Cables (Required to connect second Monitor)

البند #2: كاميرا USB: عدد (22)

- Microsoft LifeCam Studio.
- 720p HD Video, 30 fps.
- 16:9 Widescreen
- TrueColor Technology, 24-bit Color Depth.
- Compatible with Windows 7, 8, 8.1 & 10.

البند #3: سماعات (Headset): عدد (22)

- High Quality Headset.
- Microphone included.
- Wired, Compatible with PCs in Item #1 in this part.
- Leather Earplug/earmuff material.

البند #4: مايكروفون (Microphone) عدد (1)

- 1. 3.5 stereo plug fit for all kinds of PC with noise cancellation Special design for chatting over MSN, Skype and singing over internet
- 2. Conveniently set with the help of stand and clip
- High quality mic, perfect voice recorder
- 3. Desktop Mic stand, Mic Tripod stand
- 4. High performance microphone accurately reproduces sound With the tripod, set up easily and quickly.
- 5. Plug in, and start recording-no extra gear needed
- 6. USB plug works with any USB-equipped computer
- 7. High-quality microphone, high-fidelity audio systems.