



التاريخ: .....

تنويه صادر عن اللوازم العامة لمناقصة رقم ( MOE-GSD/AMF/2020/129 )  
شراء وتوريد أجهزة حاسوب وتوابعها لمختبرات التكنولوجيا/المحافظات الجنوبية

إشارة إلى الموضوع المذكور أعلاه يرجى العلم انه تقرر اجراء تعديل على جدول التسعير والمجموعات للمناقصة اعلاه بناء على المتطلبات والشروط الخاصة بالمانح على ان تتم الاحالة للمجموعة كوحدة واحدة لتكون كما يلي:

**Group -1 Technical Networking Specification**

Infrastructure Network in School

| #   | 6 Items  | QTY | U.Price | Total price |
|---|--|-----|---------|-------------|
| 1   | Tested and Certified Brand Name Complete Network Point with the applicable standards | 9   |         |             |
|   | Shielded Cat 6A Network Cable from wall socket to patch panel                        |     |         |             |
|   | Cat6A Wall socket outlet with RJ45 shielded female connector                         |     |         |             |
|   | Patch Panel ( 1/School)  |     |         |             |
|   | Air patch panel ( 1/School)  |     |         |             |
|   | Wall Frame and cover where applicable  |     |         |             |
|   | 4-Pair connection testing (Standard A )  |     |         |             |
|   | Numbering and labeling ( see Conditions )  |     |         |             |
|   | Cat 6A 3m Patch cord   |     |         |             |
|   | Cat 6A 0.5m Patch cord   |     |         |             |
| 2   | Distribution Cabinet   | 3   |         |             |
|   | 10 U Size  |     |         |             |
|   | From metal with lockable-glass door  |     |         |             |
|   | Removable side panels  |     |         |             |
|   | Adjustable square rails  |     |         |             |
|   | Cable knock-outs and mounting slots where needed                                     |     |         |             |
|   | Cable slots in top and bottom  |     |         |             |
| Includes Rack Mount Power Strip PDU (built in) Must be a brandname,4 Outlet as Min                        |  |     |         |             |
| Includes one, roof-mounted fan  |  |     |         |             |
| Depth 550 mm as Min   |  |     |         |             |
| 3   | Switch POE   | 3   |         |             |
|   | Fully Managed  |     |         |             |
|   | IEEE 802.3at,IEEE 802.3af power on up to 24 ports                                    |     |         |             |
|   | 24 x PoE+ 10/100/1000 Mbps Ports, 2X SFP Modular Empty                               |     |         |             |
|   | Supports PoE + power up to 15.4W for each PoE+ port                                  |     |         |             |
|   | Latency: 4μs   |     |         |             |
|   | Switching Capacity : 52Gbps as Min   |     |         |             |
|   | VLANs Supported : 4000 As Min  |     |         |             |
|   | Total PoE+ Power Budget 370 W as Min   |     |         |             |
|   | Rack Mount   |     |         |             |
| Support: Jumbo Frames, Auto-negotiation for Port Speed and Duplex, Multiple Spanning Tree Protocol (MSTP) |  |     |         |             |





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|   |  |                                       |   |  |
|---|--|---------------------------------------|---|--|
|   | Unicast/Multicast traffic balance over trunking port<br>Warranty : 3 Years       |                                       |   |  |
| 4   | Enterprise Access Points (Business level)  | 21                                    |   |  |
|   | One 10/100/100 Mbps Ethernet Port(RJ45) autosensing                              |                                       |   |  |
|   | PoE Power Requirements 802.3af   |                                       |   |  |
|   | Data Rates Supported: aggregate throughput of 1 Gbps As Min                      |                                       |   |  |
|   | Bands: (2.4 GHz+ 5 GHz) AC (simultaneous dual band)                              |                                       |   |  |
|   | Antenna: Internal integrated Wave 2 3X3 MU- MIMO as Min , 2dBi Gain Level as Min |                                       |   |  |
|   | Recommended user support :Not less than 50 Active Clients Per Radio              |                                       |   |  |
|   | Remote Management Protocol: HTTP, HTTPS  |                                       |   |  |
|   | Data Encryption WPA / WPA2 With AES support                                      |                                       |   |  |
|   | Status Indicators: Power, LAN, wireless  |                                       |   |  |
|   | Wall and Ceiling Mount Kit   |                                       |   |  |
|   | Cloud Managements and administration Profiles Support.                           |                                       |   |  |
|   | Warranty :3 years includes after sale support                                    |                                       |   |  |
|   | Data Link Protocol: IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11AC      |                                       |   |  |
| Network / Transport Protocol: DHCP, Bonjour Client Support  |  |                                       |   |  |
| Authentication Method: Support RADIUS,EAP   |  |                                       |   |  |
| Features: DHCP support, load balancing, VLAN support, Syslog support, E-mail alert, IPv6 support, , firmware upgradable, wall mountable, Quality of Service (QoS), RADIUS support, Multiple SSID support, |  |                                       |   |  |
| 5   | Plastic Box  | 21                                    |   |  |
|   | Suitable size to enclose the Access Point  |                                       |   |  |
|   | Theft and tamper proof box   |                                       |   |  |
|   | Made of hard plastic (PVC)   |                                       |   |  |
|   | Clear and lockable cover/door  |                                       |   |  |
| 6   | Small Business Brand Name Router   | Mikrotik RB 1100 AHx4 or Equivalent   | 3 |  |
|   | CPU  | AL21400, 4 cores, 1.4 GHz each as Min |   |  |
|   | Size of RAM  | 1 GB                                  |   |  |
|   | Memory   | 128 MB                                |   |  |
|   | Storage size   | 60 GB m.2 SATA 3 drive included       |   |  |
|   | 10/100/1000 Ethernet ports   | 13                                    |   |  |
|   | Power jack   | 2x IEC. 100 V - 240 V                 |   |  |
|   | PoE input  | Passive, 802.3at. 20 V - 57 V         |   |  |
|   | Redundant power supply   | 2 installed                           |   |  |
|   | microSD  | 1                                     |   |  |
|   | Communication Ports  | RS232, 2x SATA 3                      |   |  |
|   | License  | Lifetime                              |   |  |
|   | Warranty   | 1 year as Min                         |   |  |
| Form Factor   | Rack mount   |                                       |   |  |





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|                            |  |  |  |
|----------------------------|--|--|--|
| Training                   | Full Training for 8 Engineers from MOE and Directorates on its functionality and configuration |  |  |
| Total price \$ - group - 1 |  |  |  |

**Group – 2 Brand Name Desktop Computers & Printers**

| No. | Item 1             | Brand Name Desktop Computer Spec.   | QNTY | U.Price\$ | Total \$ |
|-----|--------------------|---|------|-----------|----------|
| 1   | CPU                | Intel CoreI5 Processor 9th generation<br>6 cores / 6 threads  | 60   |           |          |
| 2   | Form Factor        | Tower \ Mini Tower  |      |           |          |
| 3   | External Cache     | 9 MB L2 cache as Min  |      |           |          |
| 4   | Memory             | 8 GB DDR4 2666 DIMM Memory (1PC Installed)  |      |           |          |
| 5   | Main board         | Intel Q370  |      |           |          |
| 6   | Video Card         | Built in  |      |           |          |
| 7   | Hard Drive         | 512GB Solid State Drive   |      |           |          |
| 8   | Monitor            | 20" FHD LED Monitor as Min with all cables needed for PC GraPhic port interface<br>PC & Monitor should be the same brand / integrated speaker is acceptable |      |           |          |
| 9   | Optical Disk Drive | No Included ODD   |      |           |          |
| 10  | Network Card       | Integrated 10 base-T /100base-TX /1000 LAN Interface Network Connection   |      |           |          |
| 11  | Sound Card         | Integrated 3D Audio , with line in , line out , Mic ports .   |      |           |          |
| 12  | Inputs             | Optical Wheel Mouse , Keyboard Enhanced /A/E  |      |           |          |
| 13  | OS                 | Free DOS<br>Installed Software beneficiary Needs  |      |           |          |
| 14  | Manuals            | All manuals and software related to previous parts should be included .   |      |           |          |
| 15  | warranty           | 3 years ( Full Warranty:3.3.3 )   |      |           |          |
| No. | Item 1.1           | External DVD+RW   | 3    |           |          |
| 1   | External DVD+RW    | USB 2.0 powered as Min  |      |           |          |
| 2   |                    | 8X DVD  |      |           |          |
| 3   |                    | 24X CD  |      |           |          |
| 4   |                    | Same Brand of the PC  |      |           |          |



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| No.                               | Item 2                    | Network MF Laser Printer                               | 3 |  |  |
|-----------------------------------|---------------------------|--|---|--|--|
|                                   | Functions                 | printing, scanning, copying, faxing                    |   |  |  |
|                                   | Automatic Document Feeder | standard 30 minimum sheets                             |   |  |  |
|                                   | Input Capacity, Std.      | Up to 250 sheets (min)                                 |   |  |  |
|                                   | Connectivity              | Ethernet 10Base-T/100Base-TX/1000Base-T                |   |  |  |
| 1                                 | The Printer               | 512 MB standard as Min                                 |   |  |  |
| 2                                 | Print Speed               | 30 ppm min to 40 ppm Max                               |   |  |  |
| 3                                 | Print Quality             | 600 dpi  |   |  |  |
| 4                                 | The Scanner               |  |   |  |  |
| 5                                 | Type                      | Flatbed  |   |  |  |
| 6                                 | Resolution                | 600 dpi  |   |  |  |
| 7                                 | The Fax                   |  |   |  |  |
| 8                                 | Transmission Speed        | 3 sec per page   |   |  |  |
|                                   | Fax Memory                | 200 pages  |   |  |  |
|                                   | The Copier                |  |   |  |  |
|                                   | Copy Speed                | 20 PPM as Min  |   |  |  |
| 9                                 | Warranty                  | One year as min. including parts and labor.            |   |  |  |
| No.                               | Item 2.1                  | Standard Toner Cartridge                               | 3 |  |  |
| 10                                | Printer price             | should include consumables (4500) pages starting+extra |   |  |  |
| <b>Total price \$ – group – 2</b> |                           |  |   |  |  |

اجمالي العطاء المقدم بالدولار غير شامل ضريبة القيمة المضافة

ويعتبر هذا التنويه جزء لا يتجزء من وثائق المناقصة وسيتم اعتماده عند تقييم للمناقصة.

ناصر الخطيب  
مكلف بمهام مدير عام اللوازم العامة  
رئيس لجنة العطاءات المركزية



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