**Amendment number 1**

**to the RFB**

 **for**

**Supply and installation of IT equipment**

**Purchaser: Africa Union Commission**

**Project: Support for the Capacity Development of the AUC and other AU Organs Project ID: P126848/P166316**

**Contract title: Supply and installation of IT equipment**

**Country: Addis Ababa, Ethiopia**

**Grant No.: IDA-D3550**

**RFB No: ET-AUC-305865-GO-RFB**

**Issued: - On October 4, 2022**

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| **Number**  | **Page Number in the bidding document**  | **Reference section** | **Ref ITB #** | **Clarification requested** | **Existing and amended texts.** |
| **1** |  | **General Information** | **STEP Advert** | The bid closing date on STEP data is stated as 2022/10/07 but in the bidding document it is stated as 22/10/07. Kindly indicate the exact date. | **Amended as:-** *Deadline for Application Submission Date* amended as *2022/10/12* **(October 12, 2022)** |
| **2** | **Page 39** | **Section II ITB** | ***ITB 25.1*** | *Is the bid opening undertaken through Zoom? If ok how can we get the link*  | **Existing text: -**The virtual opening possibility is not indicated**.** **Amended as: -** *Online opening will be undertaken through Zoom. The link for attending the online opening will be shared with potential bidder*one hour before the bid closing. |
| **3** | **76** | Section VII - Schedule of Requirements | *Lot One**Supply and installation of Data Center equipment* | Change in the quantity of Servers without change the technical specification  | **Existing text: -***HCI/vSAN Ready Node DELL or Equivalent Type Hyper-Converged Infrastructure (HCI)- QTY 16***Amended as: -** *HCI/vSAN Ready Node DELL or Equivalent Type Hyper-Converged Infrastructure (HCI)- QTY 22* |
| **4** | **79** | Section VII - Schedule of Requirements | Lot TwoSupply and delivery of Laptops, Docking Stations and Computer Spare Parts & Accessories | Change in the quantity of Laptops 11th Generation Intel Core i5 quad core with a max turbo frequency superior to 4.00 without change the technical specification | **Existing text: -**Laptops 11th Generation Intel Core i5 quad core with a max turbo frequency superior to 4.00= **Quantity 175****Amended as: -**Laptops 11th Generation Intel Core i5 quad core with a max turbo frequency superior to 4.00= **Quantity 244** |
| **5** | **79** | Section VII - Schedule of Requirements | Lot TwoSupply and delivery of Laptops, Docking Stations and Computer Spare Parts & Accessories | USB docking stations for the above laptops  | **Existing text:** USB docking stations for the above laptops = **Quantity 175****Amended as:-**USB docking stations for the above laptops = **Quantity 244** |
| **6** | **79** | Section VII - Schedule of Requirements | Lot TwoSupply and delivery of Laptops, Docking Stations and Computer Spare Parts & Accessories | In the technical requirements for the USB docking stations; it mentions a display of “21.5-inch Full HD LED Backlit LCD Monitor with Integrated Webcam” and “27-inch Full HD LED Backlit LCD Monitor with Integrated Webcam”. Does your organization need a supply of a separate monitor with the above specifications? If yes; what is the quantity of said monitors. | **Existing text:** only the quantity of Docking station was indicated**Amended as: -** Docking Stations are always supplied with Monitors, otherwise they will be of no use 50 Docking Stations +27” Monitors to go with the Core i7, 32GB RAM Laptops; and 244 Docking Stations +21.5” Monitors to go with the Core i5, 16GB RAM Laptops |
| **7** | **76&79** | Section VII - Schedule of Requirements | **List of Goods and Delivery Schedule** | Please specify the Period for delivery. How much days do you give us for the delivery?  | **Existing text:- 120 calendar days** **Amended as:-** *The delivery date for the goods is 120 calendar days after the date of signing of the contract agreement by both parites*. |
| **8** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | How many users (Analysts) do your organization have for the SIEM Solution? | **Existing text:** the *minimum quantity of Analysts was not indicated.***Amended as:** *We shall have a minimum of 4 Analysts initially.* |
| **9** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | How many Active Devices (Network devices, endpoint Security) and servers do your organization have? | **Existing text:** the *quantity of active devices was not indicated***Amended as:** *We do have a total of 250 Active devices which includes end-devices, switches, routers, firewalls, servers, etc* |
| **10** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | For the ACI and SIEM solution do you need local and abroad trainings? For how many staffs and for how m any days? Do we need to include exam voucher? | **Existing text:** the training need was not clearlyindicated.**Amended as:** *We need local official vendor instructed led training with exam vouchers for certification for 4 Staff****.*** |
|  |  |  |  | Please Specify SFP Type and number you need | **Existing text:** the *SFP Type and number was not indicated***Amended as:** *The Provider shall provide at minimum QSFP+and the number shall be sufficient for making initial interconnection* |
| **11** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | Please advise the number of shares, concurrent users/connections and current effective capacity of NFS shares and CIFS shares. Is the use case for the NAS transactional (like Oracle dNFS or Hyper-v VHD datastores over SMB 3.0) or standard client access (like home directories for Windows users)? What is this expected to grow to in three years | **Existing text:** the number of shares, concurrent users/connections and current effective capacity of NFS was not indicated.**Amended as**: *The main purpose of the storage is not for file or directory share and access, rather for hosting servers and applications initially. It is requested mandatory feature of support for native block & file access mainly to avoid any feature constraints for future needs. That shall enable us to accommodate feature demands with an increase in capacity when the need arises. Hence currently not concerned on number of connections or shares to clients. We expect 20 to 25% overall yearly growth of storage needs.* |
| **12** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | should the system support at least four controllers at point of sale or be scalable to at least four controllers?  | **Existing text:-** The system support detail was not clearly indicated**Amended as:-** *The storage system must have at least 2 controllers at point of sale and shall be scalable at best.* |
| **13** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | Please confirm that host data is not pre-encrypted, pre-compressed and pre-deduplicated. Also, when you say capacity should be 500 TiB (base2) Effective – does it mean after compression, deduplication …etc ? And not the raw storage capacity without any overhead? | **Existing text:** the host data information was not given.**Amended as*:*** *The available storage capacity shall be 500 TiB. This RAW capacity shall be made available on the device. This means before Deduplication or compression of any sort.* |
| **14** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | Enterprise grade storage manufacturers differ in their design, and implementations with some being more cache efficient than others. Some vendors require a Cache Memory of 1 TB, to attain a specific performance (example DELL). However, other vendors do provide much better performance with less than 1 TB Cache Memory, as they do not require this much cache memory to provide the best performance in the industry. To argue more on the need for bigger cache memory, what is the value of installing 1 TB Cache Memory for a Storage System which provide 250,000 IOPS only but a latency of 100 micros second, while some vendors which provide a performance of 1 Million IOPS, and 60 microseconds with lesser cache memory? Again, some vendors, may even require a Cache memory of 2 TB to be installed and that makes them poor by design, and this number is not by any means showing high performance or efficiency. Thus, as almost all vendors have different cache memory requirement to attain a certain IOPS, can this requirement be changed to non-mandatory? Since the Cache memory and other hardware parts within the storage system are required to provide a certain capacity with needed performance (great number of IOPS and less latency), is it possible to replace this requirement with the performance indicators? If required, your esteemed organization can specify the real performance indicators like number of IOPS supported and expected latency | **Existing text: -** Enterprise grade storage manufacturers information was not clearly stipulated.**Amended as*: -****The Size of the cache is important for superior performance of the storage device. Any device proposed by a supplier will have an advantage if it provides a superior performance with regard to latency and IOPs with requested minimum size of cache.* |
| **15** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | RFP Section ‘3.3 Data Protection Infrastructure’ gives the data protection solution usable capacity requirement as 300TB but item No. 5 (Storage Capacity) of the Specifications requirement table named ‘Storage Capacity’ gives the usable capacity requirement as 192TB. Please clarify on the actual required usable capacity of appliance to be proposed? So as to size the backup software component of solution appropriately, please advise on the total capacity of data required to be backed up (i.e. total amount of data or used space for/in all the systems to be backed up in TBs)? | **Existing text:** Data Protection Infrastructure was not clearly indicated.**Amended as*:*** *The Usable Capacity shall be taken as 288TB. Data to be protected is much larger than 288TB. Expected backup size is estimated 1000TB (Backup system shall accommodate this after deduplication and compression).* |
| **16** | **83 up to 119** | Section VII - Schedule of Requirements | Technical Specifications for Lot One  | Please fill out the quantities that is needed for SIEM solution. | **Existing text:** quantities that is needed for SIEM solutionwas not clearly indicated**Amended as*:*** quantities that is needed for SIEM solution are as follows.

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| Event Sources | Device Type | Quantity |
| Windows Active Directory Server | 4 |
| Windows IIS and Exchange Servers | 10 |
| Windows General Purpose Servers | 50 |
| UNIX and Linux Servers | 20 |
| DNS/DHCP Servers | 8 |
| Antivirus Servers | 4 |
| Database Servers | 4 |
| Proxy Servers | 0 |
| Large Firewalls | 12 |
| Small Firewalls | 30 |
| IDS,IPS and DAM | 2 |
| VPN | 2 |
| Routers and Switches | 50 |
| zOS RACF | 0 |
| zOS CICS | 0 |
| zOS DB2 | 0 |
| Application server | 50 |
| RADIUS /LDAP | 2 |
| Load Balancers | 0 |
| Email Content/Spam Filtering | 2 |
| Flow Sources | Total Workstations on the network |  3000 |
| Total Servers on the network | 250 |

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 Regards,