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Appendix no.2

CLARIFICATIONS FOR TENDER DOCUMENTS

Based on the tender documents for the procurement procedure: Bid 1: “Equipment for data centre and network and installation”, we clarify that:

Clarification 1: Referring to page 148 pdf tender documents “Functional requirements” point a, we want to clarify that:

- a: Yes, approximately 300 meter cable;*
- b: Yes, approximately 58 connectors;*
- c: Yes, approximately 58 sockets;*
- d: Yes, approximately 300 meters of new cabling and installation;*
- e: For security purposes, INSTAT’s detailed building scheme can be given only to the winning bid company;*

Clarification 2: Referring to page 134 pdf tender documents “Functional requirements” point c, we want to clarify that:

- a: The existing switches capacity support 1Gbps;*
- b: Yes, existing cable infrastructure is Cat 5e;*
- c: Yes, all network card of each user support 1Gbps capacity.*

Clarification 3: Referring to page 148 pdf tender documents, “Functional requirements” point E, we want to clarify that:

- Cluster Communication Network will be on 10Gb network. The new servers will be connected on this network.*

Clarification 4: Referring to page 148, “Functional requirements” point G, we want to clarify that:

- Systems such as CCTV and telephony which will be integrated in the future will be connected to vlans.*

Clarification 5: Regarding “If there is free space and racks disponible and UPS equipment”, clarify that:



REPUBLIKA E SHQIPËRISË
INSTITUTI I STATISTIKAVE

- *There is free rack space and available space on existing racks; also the environment where the equipment will be installed is connected to a central UPS system.*

Clarification 6: Referring to page 150 pdf tender documents “Central switches in Data Center”, we want to clarify that:

- *The technical specifications have been previously checked, in order to ensure the opening up for market and brands. Equivalences can be explained in the “Technical compliance form”*

Clarification 7: Referring tender documents, regarding the existing switches, connection needed and capacity, we want to clarify that:

- *There will be 2 connections per switch, 10 Gb capacity.*

Clarification 8: Referring tender documents, “List of Goods and Delivery Schedule”, we want to clarify that:

- *The environment where the equipment will be installed is connected to a central UPS system.*
- *There are 3 racks to which cables connection will be restructured.*

Clarification 9: Referring tender documents, “List of Goods and Delivery Schedule”, we want to clarify that:

- *The server room is fiber connected to floor switches, there are 3 rack rooms where terminal switches are situated, terminal switches distribute the network to every work position. The average length from the work position to the racks rooms is 60 meters for each floor. In every floor there are approximately 65 work places.*

Clarification 10: Referring tender documents, “List of Related Services and Completion Schedule”, we want to clarify that:

- *The repair will be performed according to the technical specifications, and described infrastructure, which permits repair, cabling, etc.*

Clarification 11: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- *The estimated capacity will be a minimum of 68 TB, with expansion possibilities in the future.*



REPUBLIKA E SHQIPËRISË
INSTITUTI I STATISTIKAVE

Clarification 12: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

-VTL emulator software must have the ability to transfer from time to time to another remote storage using NFS, SMB / CIFS, ISCSI etc. In the case of ISCSI protocol the traffic generated will be separated from other kind of traffic in a dedicated port and VLAN.

Clarification 13: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- Active directory server will be a virtual server and an existing server will be used as a mirror.

Clarification 14: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- MS System Center Virtual Machine Manager 2016 will be a virtual server.

Clarification 15: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- Microsoft System Center Datacenter 2016 will be used.

Clarification 16: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- Minimum operation system for the mentioned servers is Windows Storage Server 2008

Clarification 17, 18 and 19: Referring tender documents, “Intervention on Servers, Storage, Backup and migration”, we want to clarify that:

- Most servers use Windows Server2008 R2 Operating System, and two domain controllers use Windows Server 2012. All the existing servers will be migrated (22 pcs).

- All applications to be migrated to new servers with upgraded versions of Windows in 2016 are compatible. For some servers using older versions, only the server's identical migration will be made, not upgrade to windows server 2016.