# Djibouti Tender for PK51 supported under the 11 EDF TFP

1. **Questions and answers for supplies:**

**Question 1:** We find that there are 3 LOTS. Does a bidder have to bid for the entire 3 or can bid for 2 or 1 LOT Only?

Response: Kindly refer to Instructions to tenderers, article 7.1 on page 14 of 92.

**Question 2**: Do you have a preferred brand of hardware (E.g DELL, LENOVO, HPE etc)?

Response: Kindly refer to the technical specifications and Technical Offer provided in the tender dossier.

## Two (02) Servers for Virtualization with VMWARE Software

CPU REQUIREMENTS

* 6 CPU modules, each with one Intel® processor
* Cores (One processor): 20
* Threads (One processor): UP to 40
* Cache Memory (Level 3): 25 Mb
* Supported memory 2 TB

## Question 3: Is it that you want a single server to have 6 processors and each processor to have 20 cores, or just 1 processor and the remaining slots left blank for later expansion? Is our understanding correct?

**RESPONSE:**

In each server we must provide 6 processors.

MEMORY REQUIREMENTS

* 40 DIMM Slots –2 TB of DDR4 ECC DIMM memory

## Question4 -Is it that you want a single server to have 2TB or you want the 1TB for each server.

**RESPONSE:**

Each single server must have 40 DIMM Slots and total memory 2TB (Free number of DIMMs but total capacity for each server mast be 2TB)

## Two (02) Database Servers

CPU REQUIREMENTS

* 4 CPU modules, each with one Intel® processor
* Cores (One processor): 20
* Threads (One processor): UP to 40
* Cache Memory (Level 3): 25 Mb
* Supported Memory: 2 TB

## Question 5 - Is it that you want a single server to have 4 processors and each processor to have 20 cores, or just 1 processor and the remaining slots left blank for later expansion? Is our understanding correct?

**RESPONSE:**

Like mentioned a single server must have 4 processors and each processor must have 20 cores.

**Question 6:** when is the submission?

RESPONSE: Kindly refer to the timetable provided in the addendum published on 5th April, 2024.

## Two (02) Storage Array

**Question 7**: How much usable storage capacity is required?

## RESPONSE:

We requested that the total size of all disks before formatting must be 55 TB

**Question 8:** What is the split of the capacity based on SSDs and HDD?

## RESPONSE:

We requested that the total size of all disks before formatting must be 55 TB so you are free to propose disk sizes that the configuration complies with the minimum technical criteria required in tender :

* + Number of disks: Minimum 50 units (30 SSD et 20 HDD))
  + Maximum number of units supported in the proposed configuration: 58 units
  + Rotations per minute (hard drives): 15 000 rpm
  + Total size before formatting: 55 To
  + Fibre Channel : Yes
  + Hotswap: Yes

**Question 9:** What is the estimate of the performance required interms of IOPs?

## RESPONSE:

It wasn’t mentioned in tender so there’s no minimal requirement.

**Question 10:** Can bidder proposal All flash system?

## RESPONSE:

In tender was mentioned minimum 30 SSD and 20 HDD.

* + Number of disks: Minimum 50 units (30 SSD et 20 HDD))

**Question 11:** Do you expect to configure storage level replication between the two- storage array? If Yes, what is the link between two sites?

## RESPONSE:

It wasn’t mentioned in tender so there’s no minimal requirement.

**Question 12**: 4 X ST-ST is not common as standard 1G server connectivity, Can bidder propose 1GbE based on RJ45?

## RESPONSE:

In the section “Port”, we requested to provide 2 FC ports by controller and 4 transceivers SFP+ with 16Gbps to install on ports.

The line “4 X ST-ST” we specified the length so it’s related to FC cables and not the port. Either the SFP don’t use ST-ST cables you have to provide the needed cables to connect controllers to FC Switch (SAN).

* + 2 FC ports per controller
  + 4 X transceivers SFP+ (16Gb) ;
  + 4 X ST-ST, Multimode OM2, Duplex, 50/125**, length 3m.**

## Two (02) Fibre Channel Switches

**Question 13**: Should bidder propose LC/LC cables as well? If yes, what length?

## RESPONSE:

All needed cables and accessories to install the storage array and connect to servers must be provided. In case the purposed equipments need LC/LC cables to connect controllers to FC Switch so it must be provided.

The length was not specified in the Tender but you can provide sufficient length to connect the storage array to SAN in the rack.

* + All power cables, network cables, and accessories required for installing the storage array on the rack, booting, and mapping to the hosts via the FC switch must be provided by the vendor.

**Question 14**:16Gbps is approaching end of life, can we propose 32Gbps SAN switches?

## RESPONSE:

Yes of course, the 16Gbps is minimal requirement.

## Two (02) Servers for Virtualization with VMWARE Software

**Question 15:**6 CPU module/Socket server is not common in the market, Can bidder propose 2 socket servers Or a 4-socket server and adhere to the total number of cores of 120 per server?

## RESPONSE:

The requested number of CPU module/socket is 6 and in tender was specified the spec of each CPU.

**Question 16:**4 X ST-ST is not common as standard 1G server connectivity, Can bidder propose 1GbE based on RJ45?

## RESPONSE:

In section « Support de stockage externe » we requested 4 ports HBA and 4 SFP+ transceivers to connect the server to SAN.

The line “4 X ST-ST”, we specified the length so it’s related to FC cables and not the port. Either the SFP don’t use ST-ST cables you have to provide the needed cables to connect controllers to FC Switch (SAN).

* + 4 ports HBA Fibre Channel
  + 4 X transceivers SFP+ (16Gb) ;
  + 4 X ST-ST, Multimode OM2, Duplex, 50/125**, length 3 m**.

**Question 17:** We understood this server will be virtualized using VMware, Under Operating System section requirement is RedHat Enterprise, Please confirm if this is for the guest OS, If yes, How many RHEL VMs will be deployed on each server?

## RESPONSE:

Like mentioned in the Tender section virtualization software:

* + VMware vSphere (ESXi et vCenter)

RedHat is for guest OS because we mentioned « ESXI ».

The number of RHEL VMs was not specified in the tender, the requested number is a minimum 35 VMs.

## It is important to provide the request in the section:

Virtualization software license: 3 years (support and use)

## Two (02) Database Servers

**Question 18**: 4 X ST-ST is not common as standard 1G server connectivity, Can bidder propose 1GbE based on RJ45?

## RESPONSE:

In the section « Support de stockage externe » we requested 4 ports HBA and 4 SFP+ transceivers to connect the server to SAN.

The line “4 X ST-ST” we specified the length so it’s related to FC cables and not the port. Either the SFP don’t use ST-ST cables you have to provide the needed cables to connect controllers to FC Switch (SAN).

* + 4 ports HBA Fibre Channel
  + 4 X transceivers SFP+ (16Gb) ;
  + 4 X ST-ST, Multimode OM2, Duplex, 50/125, **length 3 m**.