

KCAA/CONF/1010/3/VOL. 49 (289)

26TH NOVEMBER, 2021

TO ALL INTERESTED BIDDERS

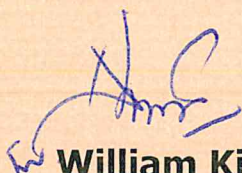
ADDENDUM NO 2: FINAL CLARIFICATIONS & RESPONSES ISSUED FOR TENDER FOR THE SUPPLY, INSTALLATION, CONFIGURATION, TRAINING AND COMMISSIONING OF INTEGRATED ENTERPRISE BACK UP AND DISASTER RECOVERY SOLUTION: TENDER NO. KCAA/018/2021-2022:

Further to the clarifications sent to all interested bidders and uploaded on KCAA website on Thursday, 25th November, 2021 on the various clarifications sought by bidders and those made by Kenya Civil Aviation Authority during the pre-bid/site visit meeting held on Tuesday, 23rd November, 2021; we hereby issue a final documentation on clarifications sought by various bidders who attended the pre-bid meeting.

The purpose of this letter is to forward to you the clarifications for your perusal and information as you prepare your bid.

Kindly note these clarifications will form part of the tender document.

Note that the Tender closing date remains on or before **Tuesday 30th November, 2021 at 11Am** local time.



William Kitum
FOR: DIRECTOR GENERAL

Encl.

KENYA CIVIL AVIATION AUTHORITY

ADDENDUM 2: FURTHER CLARIFICATIONS FOR SUPPLY, INSTALLATION, CONFIGURATION, TRAINING AND COMMISSIONING OF INTEGRATED ENTERPRISE BACK UP AND DISASTER RECOVERY SOLUTION. TENDER NUMBER: KCAA/018/2021-2022

Table 1: Further Clarifications sought by bidders and requisite clarifications

No.	Clarifications Sought	KCAA'S Response
1.	The tender requests for 96X2 TB for front end capacity. Please could we get confirmation on what the capacity is? If the 96TB is for the DR site, then we do not need 2 x 96TB. This excludes the VM capacity	KCAA requires 96TB x 2 of useable capacity. This capacity should be on both the primary site and the Remote Disaster Recovery Site (RDRS). This capacity does not include any storage requirements for the VMs.
2.	Is KCAA is looking for all flash storage for backup target, as it is mentioned 1.2M IOPS required. Same time as per the tender we need to provide 12TB disks, Using NL SAS disks 1.2M IOPS can't be achieved. Kindly clarify is KCAA is looking for a storage with 96 TB usable capacity storage, without looking for IOPS , Even as this is not a production storage, Backup storage needs high IOPS system?	KCAA requires 96TB useable storage on both sites. The required storage types is NOT flash. Therefore, the number of IOPs that can be achieved using the 12TB SAS disks will be acceptable to us.
3.	Mentioned Requirement is a proprietary technology of one vendor (namely IBM All Flash 5035 storage). Kindly confirm wherever proprietary or Vendor specific feature/technology are mentioned in the tender document, can bidder propose equivalent or better one? As KCAA is asking for 12TB NL-SAS disks, this will not able to provide 30:1 deduplication ration. Only flash system provides deduplication features? Kindly clarify?	The required device is IBM FlashSystem 5035 or equivalent. Kindly note that this is different from the "IBM All Flash 5035 storage" mentioned in the clarification request. KCAA shall accept any other appliance that meets or exceed the technical specifications in the tender documents. However, as seen during the site visit, the Authority has IBM servers and IBM is recommended for compatibility purposes. KCAA is NOT looking for an all-flash storage device. Therefore, the level of deduplication that can be achieved using 12 TB SAS disks in an IBM FlashSystem 5035 or equivalent shall be acceptable.

4.	<p>Is KCAA is looking for Media Agent servers for communication for the backup target storages? Is KCAA has SAN fabric switches with enough active port ports with transceivers or KCAA has LAN switches with 10G SFP+ with transceivers? Kindly clarify?</p> <p>Normally Commvault will perform deduplication features, For that best practices is needed physical media agent servers with SSD disks for dedup pool? Minimum requirement is 5.6 TB flash with 20K IOPs usable capacity locally needed on both PR and DR site? Kindly clarify?</p>	<p>KCAA has both SAN fabric switches in HQ and the RDRS. The bidder shall be required to provide all the necessary 10G SFP+ transceivers required to fully operationalize the backup and recovery solution.</p> <p>KCAA is NOT looking for an all-flash storage device. Therefore, the level of deduplication that can be achieved using 12 TB SAS disks in an IBM FlashSystem 5035 or equivalent shall be acceptable.</p>
5.	<p>Mentioned Requirement is a proprietary technology of one vendor (namely IBM All Flash 5035 storage). Kindly confirm wherever proprietary or Vendor specific feature/technology are mentioned in the tender document, can bidder propose equivalent or better one?</p> <p>The requirement for backup target storage, why backup target storage need virtualization features? Is KCAA is using any backup solution with existing infra, which need to migrate to new proposed appliances? Normally and best practices for backup solution is native backup software level replication from HQ to DR site, instead of backup target replication, So remote mirroring between HQ & DR site mandatory or KCAA is looking for backup storage replication from HQ to DR site? Kindly clarify?</p>	<p>The required device is IBM FlashSystem 5035 or equivalent. Kindly note that this is different from the "IBM All Flash 5035 storage" mentioned in the request for clarification. KCAA shall accept any other appliance that meets or exceed the technical specifications in the tender documents.</p> <p>KCAA has a fully virtualized environment in both HQ and the RDRS. What the Authority needs is the ability to backup its data in the primary site and the RDRS as well. The backup configuration should achieve the required levels of recovery in the event of a disaster. With this knowledge, it is upon the bidder to design the best solution that meets or exceeds KCAA's requirements.</p> <p>The vendor must attach a comprehensive technical design document detailing the architecture of the solution proposed and any required prerequisites, dependencies and consideration. The design diagram should capture the following where applicable: -</p> <ul style="list-style-type: none"> ▪ Data sources to be backed up i.e. Cloud (O365), Servers, Native DBs, User Files etc ▪ Backup Software ▪ Backup Management Servers

		<ul style="list-style-type: none"> ▪ Backup Media Servers - MUST be LINUX/UNIX based ▪ Backup Storage Appliances ▪ Connectivity between different devices and datacentres ▪ Integrations i.e., vCenter, Hypervisors, Storage Arrays ▪ Recovery Methodology indicating media servers in both primary and remote sites ▪ Achievement of RPO and RTO of less than 30 minutes.
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For Director General
 Kenya Civil Aviation Authority
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