

Tender No.: 1/2022
Oracle License & Servers

Oracle license		
Product	Metric	Qty
Oracle Forms and Reports	Processor	3
Oracle Business Intelligence Standard Edition One	User	5

Item # 1: Intel based server (Virtualization environment)		QTY 4
High quality brand name with the following minimum specification:		
Processor	2 x Intel® Xeon® Gold (2.4GHz 24-Core Processor) Minimum specification	
Memory	192GB DDR4-3200 Registered Smart Memory	
Storages	2 x SSD SATA, 6 Gb/s, 480 GB, Read-Intensive. RAID controller support RAID (0,1,10 and5) (hardware RAID) with 2GB cache Internal R/W DVD drive	
Controllers	2 x Dual port 1GbE, one x 2 port 10GbEbase T 2x 16Gb/sec single port Fiber channel controller	
Expansion & I/O	Min 4USB ports, VGA or console with DVI converter PCI-E Slots	
Power	Fully used & redundant Hot-pluggable power supplies, 220-250 VAC/50Hz redundant cooling fans Enough cooling dissipation designed to enable working continuously 24/7 without overheating	
Form factor	Rack mount with all accessories to install the servers in the cabinet should be provided	
others	All drivers that support the system must be provided by manufacturer Original server management software, for installation and configuration	
OS	Support windows server 2016,2019, Enterprise R2 and above, Linux, VMWAR ESXi, Red Hat Enterprise Linux ,Oracle Linux .	
Additional Services	<ul style="list-style-type: none"> • Installation for Oracle Linux Kernel-based Virtual Machine (KVM) Hypervisors (Oracle Linux Virtualization) + Oracle Linux virtualization manager. • Create needed virtual machines of Microsoft windows /Oracle Linux . (University will be responsible for all Operating system licenses).	
Warranty	3 years warranty parts and labor on site	

Item # 2 : SAN storage Array		QTY 1
High quality brand name with the following minimum specification		
Features	Required specification	
Host interface	4 x16Gb/s FC port Total	
Storage architecture	Dual Redundant RAID Controllers (Active / Active) Main components are redundant and hot-pluggable, such as controllers, power supply units, and hard disk drives with redundant cooling fans	
System Cache	128GB distributed over 2 controllers	
Operating system	Microsoft windows RED hat Linux, Oracle Linux, VMware ESXi, Solaris and AIX	
Support Drive	SAS, NL-SAS and SSD	
Required RAW capacity (min)	20TB SSD SAS usable capacity Disk size should not exceed 2TB for SSD to get best performance and reliability	
RAID supported	Support RAID level at least 5 or 6	
cables	All required cables should be provided	
Manageability	Management software using web or GUI support local and remote administration	
Features	<ul style="list-style-type: none"> - storage capacity is ready to support adding additional shelves for future expansion -The Storage is ready to support the maximum number of HDD & Capacity without a need of additional license in case of adding HDD and shelves in the future -it should be ready to connect to the maximum number of hosts supported by the storage -the following license included and priced with the offer: Snapshot, compression, thin provisioning Support Only: Auto tiering, remote copy (for future expansion) 	
Warranty	3 years warranty parts and labor on site	

Item # 3 : NAS Storage		QTY 1
Notes	<ul style="list-style-type: none"> - 2 x 1Gbps - 4 x 8TB HDD - Support Hot Swap drives - Status indicator - System Fans - USB port - Min 2 core CPU - Support RAID levels 1,5. 	

Item # 4 SAN Switch		QTY 2
High quality brand name with the following minimum specification		
Feature	Description	
From factor	Rack mount	
ports	Each switch with min 16 port active auto-sensing 8 and 16Gb/s universal, fiber channel ports	
SFP	8 x16Gb/s short range SFP should be added per switch	
Cables	8 x5m FC cables per switch	
Platform support	Support heterogeneous server environment on a storage area network (SAN) and enables connection support for at least the following operation system: MS windows20XX and Linux, Unix, VMware, Hyper-V,Citrix	
Management	-one Ethernet port for management (RJ45) -supported management software: SSH and web tools	
Warranty	3 years warranty	

Item #5 Rack Cabinet QTY 1	
42U rack cabinets	Rack cabinets for servers to accommodate all item same brand name as servers
Rack cabinet doors	Front and back doors and side panels with keys
PDU s	Equipped with redundant PDU per cabinet
KVM	KVM switch 8 ports with 8 cables same brand name as server
console	17" integrated TFT console with integrated keyboard and mouse per cabinet the console same brand name as server
Warranty	3 years

Special Conditions & Scope of Work

- The project is to build new virtualization solution based on Oracle Linux KVM and Create needed virtual machines of Microsoft windows /Oracle Linux
- The company should provide full installation and configuration for all the newly proposed components.
- Test and insure that all the services are up and running and work without any issues is the company responsibility.
- The company must be Official Partner and Authorized service center for the proposed HW Products (Documents must be included in the company proposal).
- The company must have at least 3 Certified Technical persons in the proposed HW Products (Documents must be included in company proposal).
- The company must provide onsite training & Onsite Knowledge transfer for Hardware and software configuration for AUM support staff Team
- The design must grantee highest levels of availability and responsiveness for all applications and services through:
 - Failover protection against hardware and operating system failures.
 - Minimizing Downtime from server and Operating system Failures.
 - Protect Applications Regardless of operating system or underlying hardware.
- The company must provide AUM with detailed implementation plan for the solution.
- The company must provide AUM with a complete testing plan for the cluster and failover of servers.
- It is the company responsibility to provide AUM with any missing hardware components and software license required for the solution.

Terms & Conditions

1. Warranty for Hardware & SW Component:

The company shall warrant that the supplies are new, unused, of the most recent models and incorporate all recent improvements in design and materials. The vendors shall further warrant that none of the supplies have any defect arising from design, materials or workmanship. This warranty starts from date of provisional acceptance and shall remain valid for **3 Years**.

2. Support and Maintenance Services:

- The company must guarantee local **on-site** support for their products.

3. Company Profile:

- The company must have an excellent experience in such environment, a complete Company profile.
- The company should have at least 5 similar references for similar project or Equivalent in Virtualization environment.
- The company should have at least 3 technical certified Engineers for each of the proposed items.

4. Project Management:

The company shall provide the following information in their proposal:

- Description of their methodology and approach for the overall Project.
- High-Level implementation plan containing sufficient detail to show work breakdown structure, sequencing, and time frame for every activity.
- Detailed project plan that shall address clearly the following main subjects:
 - **Tasks, duration, milestones, dependencies and resources**
 - **Delivery and installation of items**
 - **Transition and implementation**
 - **Testing**
 - **Training**
- The company shall provide complete knowledge transfer and documentation that covers all aspects of the project. The company is required to describe their methodology/approach in conducting the knowledge transfer. All

related material for the products should be included; i.e. user manuals, operations manual, configuration.

- The company is responsible of the configuration for all devices based on AUM Needs. The company must grantee a high-standards configuration.
- The specifications required are the minimum requirement and Suppliers are reminded that they shall comply with the enclosed tendering requirements
- Suppliers' proposed equipment and Software (which may be indicated as required in this specification document) shall be fully supported by the supplier and must have been formally announced for marketing purposes on or before the quotation due date (up-to-date), and should be equal to or better than the indicated requirements
- Suppliers shall propose only one complete solution that will meet all the requirements indicated in this specifications document.
- Suppliers shall provide a complete offer as indicated by the specifications
- Suppliers have to accept that AUM reserves the right to exclude any offer that does not satisfy any or all of the TENDER requirements without giving any reason for such decision.
- Suppliers should provide an implementation time table for the bid: delivery, installation, operation ...etc.
- The company should have min. of 3 Engineers experienced in the solution proposed.
- Suppliers should be fully responsible for supply, delivery, the complete installation, initial alignment, operation, commissioning, and generally putting the equipment and software into operation (On-site tests to prove the ability of the equipment to operate satisfactory in accordance with the technical specifications and requirements).
- All equipment shall be delivered properly packed so as to be protected from damage or deterioration during transit, each packing case shall be marked and labeled in such a manner that it may be readily checked against the packing list
- Supplier, without extra charge, shall provide any fittings, apparatus, or accessories that are not specified in the TENDER Document but necessary for the supply, delivery, installation, assembly, operation, and commissioning of the equipment
- Suppliers shall provide not less than 36 months free manufacturer warranty (accompanied by document to prove it from manufacturer) for the proposed hardware; supplier must have service facility in order to carry the support. The free support period shall begin from the date of acceptance.
- Suppliers shall specify the Time for delivery from the date of the acceptance of the award by the supplier.