

Scope of Work for Rental Server Infrastructure

1. Introduction

The **Tamil Nadu Dr. MGR Medical University** requires a rental server for hosting its application on a **Linux-based platform with MySQL Database**.

For this purpose, a **Rental Server Infrastructure** will be provisioned. The server sizing and application architecture have been recommended by the **Application Vendor**. The proposed Capacity Planning are considered/estimated to be adequate for the **first-year operational requirement**. If there's a change in requirement or an unexpected/huge increase in data inputs due to various reasons, accordingly these provisions may need to be revised to cater the new requirements.

2. Infrastructure Provisioning

The rental server has been provisioned and prepared with the following hardware configurations with 24 * 7 support :

Server Make & Model: Dell PowerEdge R720

- **CPU:** 2 × 20 Cores
- **Memory:** 256 GB RAM
- **Storage** 2x480 GB SSD for Operation system
- **Storage:** 6 x 1.92 TB SSD (**9TB Usable in RAID5 for storing the historical data**)
- **Power Supply:** Dual Redundant Power Supply
- **Remote Management:** iDRAC enabled

3. Proposed Approximate Application Sizing (1st Year Requirement)

Module	Server Name	Qty	CPU (vCPU)	RAM (GB)	Storage (GB)
CMS – Application	CMS – API	1	8	12	500
	CMS – UI	1	8	16	500
	CMS – API Gateway	1	2	8	400
CMS – Database	Database-Main (SSD Drive) – CMS	1	16	32	500
	Database-Main (SSD Drive) – CMS (Replica / Additional Instance)	1	16	32	500

Note: Final VM allocation will be aligned to the approved sizing and customer confirmation.

4. Scope of Work

The scope under this engagement includes the following activities:

- 1) The new rental server should be having 5 VM's from the existing Physical Servers.
- 2) In API Server, 4 TB storage should be added.
- 3) In the other two servers (DB) 1 TB each should be added as per the OASIS requirement.
- 4) The existing applications should be migrated to these 5 VM's and the vendor should maintain the system for the next year-from the date of commencement.
- 5) Please provide the monthly rental charges of the servers.
- 6) Deployment of Applications and Hardware Maintenance charges for the new server maintenance charges.
- 7) One-time Installation of VMWare.

4.1 Server Commissioning

- Physical commissioning of the server in the designated rack.
- Configuration and validation of **iDRAC** for secure remote access and management.

4.2 Virtualization Platform

- Installation and configuration of **Proxmox VE** with **Basic Subscription (1 Year)**.
- Host-level validation to ensure readiness for VM provisioning.

4.3 Virtual Machine Provisioning

- Creation of **five (5) Virtual Machines** as per the approved sizing.
- Installation of **Linux Operating System** on each VM (Ubuntu 18.04, as per customer preference).
- Basic OS hardening and network configuration.

4.4 Testing and Handover

- Infrastructure readiness confirmation.
- Support during application deployment and validation.
- Formal **Sign-off** upon successful completion of infrastructure scope.

5. Deliverables

- Commissioned rental server with virtualization platform
- Five (5) operational Linux virtual machines
- Infrastructure readiness sign-off document

6. Acceptance Criteria

- Server and virtualization platform installed as per specifications
- VMs created and accessible
- Handover completed with customer acknowledgment
- 24 * 7 hardware maintenance support