

## Technical Specifications

Item #	QTY	Details
1	1	Server & Storage Upgrade (Supply and Installation of HCI Infrastructure)

### Supply and Installation of HCI Infrastructure

#### **Hyper Converged System**

- HCI Technology: **HPE SimpliVity**
- Required minimum node quantity: 02 Nos
- If the proposed system requires additional nodes, it should be included
- Required Minimum Configuration for Each Node
  - Shall support up to four individual server nodes in each 2U chassis
  - Hyperconverge Appliance in a Fully Integrated System
  - Intel Xeon-Gold 4214R (2.4GHz/12-core) Processor
  - 08 x 16GB RDIMMs DDR4-2933 Registered Memory Kit
  - Should allow inbox upgrade from 1 to 2 processors
  - Should support latest DDR4-2666 Registered Memory
  - Should allow inbox upgrade of RAM up to 1024GB per node
  - On Demand Scale-in and Scale-out Architecture
  - Deduplication and data compression should be enabled and any required software license should be included
  - Storage: 6 x 1.92TB Enterprise Class Hot-pluggable SSD, 480GB M.2 SSD boot device
  - Integrated storage controller with battery-backed cache
  - Redundant hot plug 1600W Power Supply
  - 04 x fan modules
  - Dual port Ethernet 10Gb SFP+ Adapter including 10G SR Transceiver for uplink
  - Dual port Ethernet 1Gb port Adapter

- Embedded 1 x out-of-band management to simplify remote management
  - Enterprise Remote Server Management License with Dedicated Management Port
  - Bezel Kit and Rail Kit should be included
  - VMware vSphere 7 Enterprise Plus License for each processor with 3 Year Basic Support for all CPUs
  - 01 x VMware vCenter Server 7 Standard License with 3 Year Basic Support
- The system shall be configured as a single cluster
  - The cluster shall be configured for N+1 high availability
  - The system shall dedupe and compress all data at inception
  - Deduplication and compression should be global, meaning data replicated to other future clusters is already deduped and compressed
  - The system should be resilient and should be able to tolerate multiple drive and component failures in a single node
  - The system shall be able to scale compute and storage independently
  - The system shall include individual VM-centric policy-based backup and recovery. All necessary software like backup software licenses should be included. Backup software should be licensed for all the sockets in the proposed HCI cluster.
  - All backups shall be deduped and compressed natively
  - The system shall provide integrated backup to secondary storage or public cloud without third-party software
  - The system shall be an all-in-one system with built-in resiliency, backup and disaster recovery
  - The system shall have global management that is directly integrated with VMware vCenter
  - The system shall include integrated cloud based Intelligent management and reporting platform
  - The cloud based platform shall be able to provide analytics across multiple systems.
  - The cloud based platform shall have high level dashboards showing data efficiency, performance, and backup data efficiency per cluster, per VM, and per host.
  - Installation, configuration and training

- Installation and configuration service shall be deployed by vendor certified engineers only
- The installation team should consist of minimum two OEM certified engineers in the proposed HCI solution
- The allocated engineers shall be available onsite for the duration of the installation
- At minimum the following details of the shall be included with the proposal
  - Service Planning
  - Service Deployment
  - Installation Verification Test
  - Knowledge Transfer and Orientation Session
- Installation of the HCI Nodes: unpacking the server, inspecting it for damage and installing it according to product specification
- Installation of any additional hardware options
- Physical connection of the product to a LAN or WAN
- Perform maintenance related tasks such as firmware updates and management interface configuration
- Shall be installed and configured as per manufacturer best practice guidelines
- Install and configure hypervisor software on each HCI node
- Install and configure HCI software stack
- Install and configure VMware vCenter with integrated HCI management software
- Configure integrated cloud management platform
- Configure the cluster in N+1 HA configuration
- Configure all relevant VMware networking stack ensuring high availability and maximum performance
- Configure backup and recovery
- Plan, design and configure backup policies
- Backup policies should be configured per VM and globally per datastore
- Migrate production workload VMs to new HCI with minimal downtime
- Configuration documentation and on the job training

- Warranty and Support Service
  - Manufacturer Warranty and Support Service: 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response
  - 9x5 business hour availability and a 2-hour response time
  - 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging
  - Local Technical Support: 3-Year local technical support by OEM certified engineers
- Bid submitter must be an **HPE Authorized Distributor** and should provide appropriate documentations (Certificates/Document/Letter from HPE) along with the Bid

## **Long-term Archive Software**

- **Veeam Backup & Replication Universal Subscription License.**
  - Enterprise plus Edition features.
  - 1 Years Subscription Upfront Billing & Production (24/7) Support.
  - 30 instance license
  - Installation and Configuration
  - Should be deployed by vendor certified engineers only
  - The installation team should consist of minimum one OEM certified professional engineer
  - The allocated engineer(s) should be available onsite for the duration of the installation
  - Plan and design external and long term backup and recovery policies as per industry best practices
  - Configure backup and recovery policies for all production workload
  - Configure existing SAN storage for long term archiving
  - Isolate and secure backup infrastructure
  - Configure replication policies on all existing production workloads for continuous data protection
  - Demonstrate and verify backup and recovery
  - Configuration documentation and on the job training
- **Warranty and Support Service**
  - Manufacturer Warranty and Support Service: 1-Year production support
  - Local Technical Support: 1-Year local technical support