**Technical Requirements**

**Main site**

**VSAN Cluster**

* Hyper-converged Infrastructure (HCI) for a virtual machine virtualization solution with shared storage (datastore) based on Flash devices (SSD Technology).
* Solution should be based on a clustered architecture.
* The solution should be based on x86 architecture. Requirements –

**CPU** – Intel Gold 6300 series or better. Total physical cores – 366 (2:1). Minimum number of nodes – 6. This number is not taking into consideration the number of nodes required for FTT.

**RAM** – 2.3 TB total.

**Network** – 2 x 2-port 10/25Gb SFP28 NIC per node.

**Power** – Redundant power supplies.

**Boot device** – 2 x 480 M.2 SSD.

**Shared disk space** – All Flash SAS SSD at least 20 TB usable after RAID 6, upgradeable to at least 80 TB without adding new nodes. Storage layer should be based on VMware vSAN technology. No data reduction technologies to be used.

**Storage performance** – IOPS at least 70000, <60% utilization with latency less than 1 ms. Usage pattern – 60% read/40% write, 8K block random.

**Licensing** – All required licenses (vSphere Enterprise Plus, etc.) to be included. No vCenter license required. Licensing should be based on perpetual model. No subscription licensing model to be used.

**Hypervisor** – VMware vSphere.

**FTT** – 2

**Data reduction feature** – Optional.

**Network** – 2 x Switch 24 x 25 Gb/s ports each interconnected by two 100 Gb/s links.

**Cabling** – All required components (transceivers, DAC cables) to be included. Two 25 Gb/s 10 meters AOC cables per node should be included for public connection.

**Reliability** – Running services should be protected by hardware and software high availability features.

**Maintenance** – preferably non-disruptive upgrades of firmware and software.

**Support** – 3 years 24/7, 4 hours response time. Local spares stock from vendor.

**Remote monitoring** – Automatic reporting of hardware failures to manufacturer’s support center.

**Installation** - Physical installation, cabling, labeling, initial startup, configuration and firmware update.

**Disaster Recovery site**

**VSAN Cluster**

* Hyper-converged Infrastructure (HCI) for a virtual machine virtualization solution with shared storage (datastore) based on Flash devices (All Flash).
* Solution should be based on a clustered architecture.
* The solution should be based on x86 architecture. Requirements –

**CPU** – Intel Gold 6300 series or better. Total physical cores – 140. Minimum number of nodes – 3. This number is not taking into consideration the number of nodes required for FTT.

**RAM** – 512 GB total.

**Network** – 2 x 2-port 10/25Gb SFP28 NIC per node.

**Power** – Redundant power supplies.

**Boot device** – 2 x 480 M.2 SSD.

**Shared disk space** – All Flash SSD at least 6 TB usable after RAID 6, upgradeable to at least 80 TB without adding new nodes. Storage layer should be based on VMware vSAN technology. No data reduction technologies to be used.

**Storage performance** – IOPS at least 50000, <60% utilization with latency less than 1 ms. Usage pattern – 60% read/40% write, 8K random.

**Licensing** – All required licenses (vSphere Enterprise Plus, etc.) to be included. No vCenter license required. Licensing should be based on perpetual model. No subscription licensing model to be used.

**Hypervisor** – VMware vSphere.

**FTT** – 1

**Data reduction feature** – Optional.

**Network** – 2 x Switch 24 x 25 Gb/s ports each interconnected by two 100 Gb/s links.

**Cabling** – all required components (transceivers, DAC cables) to be included. Two 25 Gb/s 10 meters AOC cables per node should be included for public connection.

**Reliability** – Running services should be protected by hardware and software high availability features.

**Maintenance** – preferably non-disruptive upgrades of firmware and software.

**Support** – 3 years 24/7, 4 hours response time. Local spares stock from vendor.

**Remote monitoring** – Automatic reporting of hardware failures to manufacturer’s support center.

**Installation** - Physical installation, cabling, labeling, initial startup, configuration and firmware update.

**General Requirements**

· İştirakçı bu layihə üçün təqdim etdiyi məhsullar üzrə İstehsalçının Avtorizasiya Formasını (MAF) təqdim etməlidir;

· İştirakçı Azərbaycan Respublikasında qeydiyyatdan keçmiş hüquqi şəxs və ya fərdi sahibkar olmalıdır;

· İştirakçı Xidmət üzrə ən azı 3 (üç) il təcrübəyə malik olmalı və təklif olunan həll və xidmət üzrə ən azı 3 (üç) müştərisi və/və ya layihəsi olmalıdır;

· İştirakçı tələbləri özü icra etməli və üçüncü şəxslərə həvalə etməməlidir;

· İştirakçı Tender Şərtləri toplusunda olan, forma, şərtlər, spesifikasiyalar və digər bütün məlumatlarla ətraflı tanış olmalıdır. Qeyri-dəqiq və ya tamam olmayan tender təklifi vermək İştirakçının öz məsuliyyətindədir və bu təklifin qəbul edilməməsinə səbəb ola bilər;

· İştirakçı elan olunmuş istiqamətdə təsdiq edici sertifikatlara malik olmalıdır.

. Iştirakçı avadanlığın perfomans göstəriciləri haqqında, vendor/istehsalçı tərəfindən təmin edilmiş rəsmi zəmanət məktubu (sənədi) təqdim etməlidir.

. Iştirakçı, vendor tərəfindən təsdiqlənmiş 3 illik TCO (ümumi mülkiyyət dəyəri) sənədini təqdim etməlidir.