**Technical Requirements**

**Main site**

**Virtualization Cluster**

* Virtualization solution should be based on VMware vSphere.
* 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 servers is 4.

**RAM** – 2.3 TB total.

**Network** – 1 x 2-port 10/25Gb SFP28 NIC per node.

**FC** – 1 x 2-port 32 Gb/s adapter per node.

**Power** – Redundant power supplies.

**Boot device** – 2 x 480 M.2 SSD.

**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.

**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** - 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.

**Shared Disk Array**

* Disk array should be based on SSD (All Flash) technology. Requirements –

**Architecture** – Active/Active Controllers.

**Space** – SAS SSD at least 20 TB usable after RAID 6, upgradeable to at least 80 TB (without adding enclousers or additional storage). 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 random.

**External ports** – 4, 16 Gb/s speed minimum.

**Redundancy** – Dedicated or distributed hot spare.

**Reliability** – Redundant hardware components.

**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**

**Virtualization Cluster**

* Virtualization solution should be based on VMware vSphere.
* 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 servers is 3.

**RAM** – 512 GB total.

**Network** – 1 x 2-port 10/25Gb SFP28 NIC per node.

**FC** – 1 x 2-port 32 Gb/s adapter per node.

**Power** – Redundant power supplies.

**Boot device** – 2 x 480 M.2 SSD.

**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.

**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** - 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.

**Shared Disk Array**

* Disk array should be based on SSD (All Flash) technology. Requirements –

**Space** – SAS SSD at least 6 TB usable after RAID 6, upgradeable to at least 80 TB (without adding enclousers or additional storage). 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.

**External ports** – 4, 16 Gb/s speed minimum.

**Redundancy** – Dedicated or distributed hot spare.

**Reliability** – Redundant hardware components.

**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.

. İştirakçı təqdim etdiyi avadanlığın perfomans göstəriciləri haqqında zəmanət məktubu (sənədi) təqdim etməlidir.

. 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.