

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



مَدْرَسَةُ  
الْحَرَامِ

مَدْرَسَةُ الْحَرَامِ: كَلِمَةُ الْحَرَامِ فِي الْحَرَامِ الْحَرَامِ

مَدْرَسَةُ الْحَرَامِ: 22PU-2022-G-18

مَدْرَسَةُ الْحَرَامِ: (IUL)22-PU/22/2022/337

14 مَدْرَسَةُ الْحَرَامِ 2022

مَدْرَسَةُ الْحَرَامِ فِي الْحَرَامِ الْحَرَامِ  
مَدْرَسَةُ الْحَرَامِ



	11:00 تک
مؤسسہ قومی کو جمع شدہ رقمیں کے قریب 6 کروڑ روپے.	24.1
مؤسسہ قومی کی مجموعی آمدنی کے قریب 50,000/- (پانچ لاکھ روپے) ہوئے.	28.1
مؤسسہ قومی کی مجموعی آمدنی کے قریب 60 (سولہ لاکھ) کروڑ روپے.	28.2
مؤسسہ قومی کی مجموعی آمدنی کے قریب 5% (پانچ لاکھ روپے) ہوئے.	30.1















- 20.2. مۆشر ئىشلىتىش مۆشر مەھسۇلاتىنى مەھسۇلاتلىرىنى ئۆز ئىچىگە ئالىدۇ.
- 20.3. مۆشر ئىشلىتىش رەجىستىرىنى مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 21. 21.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 21.2. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 22. 22.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 22.1.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 22.1.2. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 22.1.3. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 23. 23.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 24. 24.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 25. 25.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.
- 26. 26.1. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ. مۆشر مەھسۇلاتىنى ئۆز ئىچىگە ئالىدۇ.











...  
...

38.5 ... 15% ...

39.1 ...

39 ...

39.2 ...

40.1 ...

40 ...

41.1 ...

41 ...

42.1 ...

42 ...

43.1 ...

43 ...

44.1 ...

44 ...











4 - سَوِيَرِ قَوَمِ

سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ

سَوِيَرِ قَوَمِ 3 سَوِيَرِ قَوَمِ		
سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ	سَوِيَرِ قَوَمِ	#
	2019	1
	2020	2
	2021	3
	سَوِيَرِ قَوَمِ	
	سَوِيَرِ قَوَمِ	
سَوِيَرِ قَوَمِ 3 سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ		
سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ	سَوِيَرِ قَوَمِ	#
	2019	1
	2020	2
	2021	3
	سَوِيَرِ قَوَمِ	
	سَوِيَرِ قَوَمِ	

5 - سَوِيَرِ قَوَمِ

سَوِيَرِ قَوَمِ 36 (سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ) سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ (2022 سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ)

سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ				
سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ (سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ)	سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ	سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ	سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ	#
	سَوِيَرِ قَوَمِ			

سَوِيَرِ قَوَمِ: سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ 20 سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ سَوِيَرِ قَوَمِ



### Form of Bid Security (Bank Guarantee)

WHEREAS, .....[name of Bidder] (hereinafter called “the Bidder”) has submitted his Bid for the Tender no.....issued by the Ministry of Education on .....for Supplying/Purchasing of .....[name of Contract] (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that We ..... [name of Bank] of ..... [name of country] having our registered office at ..... (hereinafter called “the Bank”) are bound unto .....[name of Purchaser] (hereinafter called “the Purchaser”) in the sum of \*..... for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents.

SEALED with the Common Seal of the said Bank this .....day of .....20.....

THE CONDITIONS of this obligation are:

- (1) If, after Bid opening, the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of Bid validity:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
  - (c) does not accept the correction of the Bid Price pursuant to Clause 27,

\* The Bidder should insert the amount of the Guarantee in words and figures denominated in Maldivian Rufiyaa. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

we undertake to pay to the Purchaser up to the above amount upon receipt of his first written demand, without the Purchaser’s having to substantiate his demand, provided that in his demand the Purchaser will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date ..... days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

[signature, name, and address]

# Form of Performance Bank Guarantee (Unconditional)

To: .....  
[name & address of Purchaser]  
.....  
.....

WHEREAS ..... [name and address of Supplier] (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. .... dated ..... to execute ..... [name of Contract and brief description of Works] (hereinafter called “the Contract”);

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of \*..... [amount of Guarantee] ..... [amount in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of ..... [amount of Guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

\*An amount is to be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract, in Maldivian Rufiyaa.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall be valid until the date of issue of the Defects Correction Certificate.

SIGNATURE AND SEAL OF THE GUARANTOR .....

Name of Bank .....

Address .....

.....

.....

Date .....



9 - ބޭނުންކުރާ

ފަސަހުތާ ދެއްވާ ފަރާތްތަކުގެ ނަންބަރު

Form of Bank Guarantee for Advance Payment

To: .....  
[name & address of Purchaser]  
.....  
.....

[name of Contract]

Gentlemen:

In accordance with the provisions of the Conditions of Contract, of the above-mentioned Contract, .....  
.....[name and address of Supplier] (hereinafter called "the Supplier") shall deposit with .....  
..... [name of Purchaser] a Bank Guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of .....[amount of Guarantee]  
.....[amount in words].

We, the .....  
[Bank or Financial Institution], as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to ..... [name of Purchaser] on his first demand without whatsoever right of objection on our part and without his first claim to the Supplier, in the amount not exceeding \*..... [amount of Guarantee].....  
..... [amount in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contract documents which may be made between .....[name of Purchaser] and the Supplier, shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

\* An amount is to be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, in Maldivian Rufiyaa.

This Guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until .....[name of Purchaser] receives full repayment of the same amount from the Supplier.

Yours truly,  
SIGNATURE AND SEAL: .....  
NAME & ADDRESS OF BANK/INSTITUTION .....

Bidders are required to fill the Bidder’s specification form and if any information in the specification form are missing or does not meet the requirement specified by the Ministry of Education, the Bidder’s proposed bid document will be disqualified.

LOT 1 Supply, Installation, Configuration, and Training for Computing Expansion And Backup Infrastructure Upgrade			
#	Minimum Requirements	Quantity	Specification of the proposed item and relevant parts number
1.1	<b>Primary Hosting Server and Storage Expansion</b>	<b>01 Bundle</b>	
1.1.1	Brand		
1.1.2	Model		
1.1.3	02 Node x Hyperconverge Appliance in a fully integrated system		
1.1.4	Processor: Dual Intel Xeon-Gold 5220R (2.2GHz/24-core/150W) per node		
1.1.5	Memory: 384GB RDIMM DDR4-2933 Registered Memory per node		
1.1.6	The appliance shall support on Demand Scale-in and Scale-out Architecture		
1.1.7	The appliance shall have always-on deduplication and compression from day one including any appropriate license		
1.1.8	The appliance shall include built-in resiliency, backup, and disaster recovery for enterprise-grade data protection		
1.1.9	Storage: 12 x 1.92TB MU SSD, 2 x 300GB SAS 10K HDD per node		
1.1.10	RAID Controller with 2GB Cache and Battery for Cache Protection per node		
1.1.11	Redundant hot plug 1600W Power Supply per node		
1.1.12	02 x 10/25Gb dual port SFP28 Network Adapter with transceivers		
1.1.13	Embedded 1 x out-of-band management to simplify remote management		
1.1.14	Server bezel kit and rack mount railing kit		
1.1.15	The appliance shall include enterprise server remote management software License		
1.1.16	The system shall be configured as a single cluster		
1.1.17	The cluster shall be configured for N+1 high availability		
1.1.18	The system shall dedupe and compress all data at inception		
1.1.19	Deduplication and compression should be global, meaning data replicated to other future clusters is already deduped and compressed		
1.1.20	The system should be resilient and should be able to tolerate multiple drive and component failures in a single node		
1.1.21	The system shall include individual VM-centric policy-based backup and recovery. All necessary software like backup software licenses shall be included. Backup software shall be licensed for all the sockets in the proposed HCI cluster.		
1.1.22	All backups shall be deduped and compressed natively		
1.1.23	The system shall have global management that is directly integrated with VMware vCenter		

1.1.24	The system shall include integrated cloud based Intelligent management and reporting platform		
1.1.25	The cloud based platform shall be able to provide analytics across multiple systems.		
1.1.26	The cloud based platform shall have high level dashboards showing data efficiency, performance, and backup data efficiency per cluster, per Virtual Machine (VM), and per host		
1.1.27	05 x VMware vSphere 7 Std for 1 processor with 1-Year Basic Support License		
1.1.28	01 x VMware vCenter Server 7 Std (Per Instance) with 1-Year Basic Support License		
1.1.29	144 x Windows Server 2022 Standard - 2 Core License Pack License		
1.1.30	<p>Minimum required certifications:</p> <ul style="list-style-type: none"> <li>• Original Equipment Manufacturer (OEM) Certified Professional for the proposed Hyperconverged Appliance (minimum one certified person)</li> <li>• OEM Certified Professional for the proposed Virtual Backup Appliance (minimum one certified person)</li> <li>• Veeam Certified (minimum one certified person)</li> <li>• VMware Certified (minimum one certified person)</li> </ul>		
1.1.31	<p>Installation, Configuration, Documentation and Training</p> <ul style="list-style-type: none"> <li>- Installation and configuration service shall be by vendor certified persons only</li> <li>- The installation team should consist of minimum one OEM certified person in the proposed HCI solution.</li> <li>- The allocated persons shall be available onsite for the duration of the installation</li> <li>- Installation of the HCI Nodes: unpacking the server, inspecting it for damage and installing it according to product specification</li> <li>- Installation of any additional hardware options</li> <li>- Physical connection of the product to a LAN or WAN</li> <li>- Perform maintenance related tasks such as firmware updates and management interface configuration</li> <li>- Shall be installed and configured as per manufacturer best practice guidelines.</li> <li>- Requires configuring / migrating any relevant existing settings to the new devices installed.</li> <li>- Install and configure hypervisor software on each HCI node</li> <li>- Install and configure HCI software stack</li> <li>- Install and configure VMware vCenter with integrated HCI management software</li> <li>- Configure integrated cloud management platform</li> <li>- Configure the cluster in N+1 HA configuration</li> <li>- Configure all relevant VMware networking stack ensuring high availability and maximum performance</li> <li>- Configure inbuilt backup and recovery for local backup</li> <li>- Plan, design and configure backup policies</li> <li>- Backup policies should be configured per VM and globally per datastore</li> <li>- Migrate selected production workload VMs to new HCI with minimal downtime</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Entire VMware infrastructure brief: (Data Centre (DC) and Disaster Recovery (DR) site with diagrams if any) <ul style="list-style-type: none"> <li>○ Step by step guide on how to extend VM storage and file server storage using existing storage capacity.</li> <li>○ Step by step guide on how to create and managing windows sever VM.</li> <li>○ Step by setup guide on how to create VM by using a template</li> </ul> </li> </ul>		

	<ul style="list-style-type: none"> <li>○ Step by step guide on how to take backup and restore VMs.</li> <li>○ Step by step guide on how to create new data store and present the storage to VMs</li> <li>○ Step by step guide on how to migrate VMs</li> <li>○ Step by step guide on how to troubleshoot VMs</li> <li>○ Step by step guide on managing ESXi hosts.</li> <li>○ A complete entire network diagram (with IPs and port numbers)</li> <li>○ Step by step guide on Infrastructure bringing up and shutdown procedure: <ul style="list-style-type: none"> <li>▪ Primary site</li> </ul> </li> <li>○ All login credentials should be provided</li> <li>○ Other relevant user guide (if any)</li> </ul>		
1.1.32	<p>Warranty:</p> <ul style="list-style-type: none"> <li>- 3-Year Parts, 3-Year Labor, 3-Year Onsite support with Next Business Day (NBD) response</li> <li>- 9x5 business hour availability and a 2-hour response time</li> <li>- 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging</li> </ul>		
1.1.33	Technical Support: 3-Year local technical support by OEM certified persons		
<b>1.2</b>	<b>Central Management and Backup Server</b>	<b>01 Bundle</b>	
1.2.1	Brand		
1.2.2	Model		
1.2.3	2U Rack mountable server with 4xLFF slots		
1.2.4	01 x Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor		
1.2.5	04 x 32GB (1x32GB) Dual Rank x4 DDR4-3200 Registered Memory		
1.2.6	02 x 480GB NVMe M.2 SSD boot drive with RAID1		
1.2.7	08 x 6TB SATA 6G 7.2K LFF HDD		
1.2.8	01 x HW RAID Controller: 8 Internal Lanes, 2GB Cache, 12G SAS Controller		
1.2.9	01 x Ethernet 10Gb dual port SFP+ Adapter including transceivers		
1.2.10	02 x 800W Hot Plug Low Halogen Power Supply		
1.2.11	01 x Server Remote management license		
1.2.12	01 x Server bezel kit and rack mount railing kit		
1.2.13	Shall include high-performance software defined virtual backup appliance license		
1.2.14	The virtual backup appliance shall be scalable to 500TB of usable capacity		
1.2.15	The virtual backup appliance shall support and include license for data at rest and data in flight encryption		
1.2.16	The virtual backup appliance shall include at minimum 36TB perpetual capacity license		
1.2.17	The virtual backup appliance shall include perpetual deduplication and compression license		
1.2.18	The virtual backup appliance shall have a minimum of 4TB/hr backup performance		
1.2.19	Veeam Backup & Replication Universal License. 1 Year Subscription (40 VM license)		
1.2.20	<p>Minimum required certifications:</p> <ul style="list-style-type: none"> <li>• OEM Certified Professional for the proposed Virtual Backup Appliance (minimum one certified person)</li> <li>• Veeam Certified (minimum one certified person)</li> </ul>		
1.2.21	Installation, Configuration, Documentation and Training		

	<ul style="list-style-type: none"> <li>- Shall be deployed by vendor certified persons only</li> <li>- The installation team should consist of minimum one OEM certified professional person in the proposed virtual backup appliance and one OEM certified person for Veeam Backup.</li> <li>- The allocated person(s) should be available onsite for the duration of the installation</li> <li>- Plan and design external and long term backup and recovery policies as per industry best practices</li> <li>- Configure backup and recovery policies for all production workload</li> <li>- Configure virtual backup appliance for long term archiving</li> <li>- Isolate and secure backup infrastructure</li> <li>- Configure replication policies on all existing production workloads for continuous data protection</li> <li>- Demonstrate and verify backup and recovery</li> <li>- Requires to configure/ migrate any relevant existing settings to the new device installed as per manufacturer best practice guidelines.</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Configuration documentation:             <ul style="list-style-type: none"> <li>o All login credentials should be provided</li> <li>o Veeam backup and recovery user guide</li> <li>o Other relevant user guide (if any)</li> </ul> </li> </ul>		
1.2.22	<p>Warranty:</p> <ul style="list-style-type: none"> <li>- 3-Year Parts, 3-Year Labor, 3-Year Onsite support with NBD response</li> <li>- 9x5 business hour availability and a 2-hour response time</li> <li>- 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging</li> </ul>		
1.2.23	Technical Support: 3-Year local technical support by OEM certified persons		
<b>1.3</b>	<b>Primary Site Next Generation Network Security Appliance</b>	<b>01 Bundle</b>	
1.3.1	Brand		
1.3.2	Model		
1.3.3	<p>The device shall have minimum the following interfaces and modules</p> <ul style="list-style-type: none"> <li>- 8x1 Gig SFP</li> <li>- 16x1 Gig RJ-45 ports</li> <li>- 2x10 Gig SFP+ ports</li> <li>- 1 x Console Port</li> </ul> <p>1 x 480GB SSD on board storage</p>		
1.3.4	The device should support minimum 25Gbps firewall throughput		
1.3.5	The device shall support minimum 5Gbps IPS throughput		
1.3.6	The device shall support minimum 3.2Gbps NGFW throughput		
1.3.7	The device shall support minimum 3Gbps Threat Protection throughput		
1.3.8	The device shall support minimum 2Gbps SSL VPN throughput		
1.3.9	The device shall have support minimum 2.9 Million Concurrent TCP Sessions		
1.3.10	The device shall support active-active or active-passive high availability configuration		
1.3.11	The device shall have redundant power supply unit		
1.3.12	Form factor: 1RU, rack mounting accessories shall be included		
1.3.13	The proposed next generation firewall should be an enterprise grade firewall from a manufacturer listed as Leader in the 2020 or 2021 Gartner Magic Quadrant for Network Firewalls. Should submit relevant Gartner's magic quadrant report		
1.3.14	The appliance shall support intercepting SSL traffic for Security Filtering.		
1.3.15	The appliance shall be able to perform the security functionalities of Web Filter, Application Control, IPS, and Antivirus.		

1.3.16	The appliance shall support OSPF, BGP, static, IGMP v1/v2, PIM, VRRP, BFD protocol		
1.3.17	The appliance should support 802.1Q, sub interface, bridge domains, Inter VLAN routing.		
1.3.18	The appliance should support policy based routing, Application aware routing, performance based routing.		
1.3.19	The appliance shall support various traffic load balancing mechanism between multiple transport.		
1.3.20	The appliance should support QoS based on layer-7 application		
1.3.21	The appliance should support NAT/PAT for direct internet access or cloud access		
1.3.22	The appliance architecture should have dedicated CPU for security processing apart from the main central processing units (CPUs).		
1.3.23	The appliance should identify thousands of applications inside network traffic for deep inspection and granular policy enforcement		
1.3.24	The appliance should protect against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic		
1.3.25	The appliance should prevent and detect against known and unknown attacks using continuous threat intelligence backed by dedicated global security services		
1.3.26	The appliance shall support automatically blocking threats on decrypted traffic using the Industry's standard SSL inspection		
1.3.27	The appliance shall support blocking and controlling web access based on user or user groups across URL's and domains		
1.3.28	The appliance shall support Block DNS requests against malicious domains		
1.3.29	The appliance shall support Multi-layered advanced protection against zero-day malware threats delivered over the web		
1.3.30	The appliance shall include a management console that is effective, simple to use, and provides comprehensive network automation and visibility		
1.3.31	The appliance shall provide converged networking and security into a secure, simple to manage architecture with a single focal point for management and configuration for LAN devices such as Network Switches and Wireless Access Points.		
1.3.32	Security Subscription: <ul style="list-style-type: none"> <li>- 1-Year Security Subscription - Web Filtering, Malware Protection, IPS, Antispam, Antivirus, Botnet, Virus Outbreak Protection, Application Control, Sandbox</li> <li>- 1-Year Support Subscription: 24x7 Support, Hardware Replacement, Firmware Upgrades</li> </ul>		
1.3.33	Minimum required certifications: <ul style="list-style-type: none"> <li>• Cisco CCNA Certified for Routing and Switching Certified (minimum one certified person)</li> <li>• Cisco CCNA and CCNP Certified for Security Certified (minimum one certified person)</li> <li>• OEM Certified Professional for the proposed Network Security Appliance (minimum one certified person)</li> </ul>		
1.3.34	Installation, Configuration, Documentation and Training <ul style="list-style-type: none"> <li>- Shall be deployed by vendor certified persons only</li> <li>- The installation team should consist of minimum <ul style="list-style-type: none"> <li>o 01 x OEM certified person for the proposed network security appliance and</li> <li>o 01 x Cisco CCNA and CCNP Certified person</li> </ul> </li> <li>- The allocated person(s) should be available onsite for the duration of the installation</li> <li>- Design appropriate LAN, WAN, and DMZ security policies.</li> <li>- Configure application control policies</li> <li>- Configure AV and Web filtering policies</li> <li>- Configure antispam filtering</li> <li>- Configure malware protection policies</li> <li>- Configure IPS policies</li> </ul>		

	<ul style="list-style-type: none"> <li>- Configure traffic shaping and ISP WAN load balancing</li> <li>- Network segmentation and configure appropriate security policy per segment</li> <li>- Configure remote access connectivity policies</li> <li>- Configure DNS filtering policies</li> <li>- Configure wireless network segmentation and appropriate security polices per segment</li> <li>- Configure wireless network bandwidth management policies</li> <li>- Configure security event logging and monitoring</li> <li>- Configure security event alert notification</li> <li>- Configure scheduled industry standard security reporting policies</li> <li>- Requires to configure/ migrate any relevant existing policies and settings to the new device installed as per manufacturer best practice guidelines.</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Configuration documentation:             <ul style="list-style-type: none"> <li>- All login credentials should be provided</li> <li>- User guide of the security policies configured</li> <li>- Other relevant user guide (if any)</li> </ul> </li> </ul>		
1.3.35	Warranty: 1-Year Parts and Service with 24x7 comprehensive support, Hardware Replacement, Firmware Upgrades		
1.3.36	Technical Support: 1-Year 24x7 on-site technical support services and labor		
<b>1.4</b>	<b>Moving of existing MSA at Primary Site to Disaster Recovery Site</b>		
1.4.1	Move the existing SAN storage from Primary Site to DR site: <ul style="list-style-type: none"> <li>- Install and configure the storage at DR Site with latest firmware upgrades.</li> <li>- Requires to configure/ migrate any relevant existing settings at DR Site to the moved storage as per manufacturer best practice guidelines.</li> </ul>		
1.4.2	Installation, Configuration, Documentation and Training <ul style="list-style-type: none"> <li>- Move the existing SAN storage from Primary Site to DR site:               <ul style="list-style-type: none"> <li>o Install and configure the storage at DR Site with latest firmware upgrades.</li> <li>o Requires to configure/ migrate any relevant existing settings at DR Site to the moved storage as per manufacturer best practice guidelines.</li> </ul> </li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Entire VMware infrastructure brief of DR Site:               <ul style="list-style-type: none"> <li>o Step by step guide on how to extend VM storage and file server storage using existing storage capacity.</li> <li>o Step by step guide on managing ESXi hosts.</li> <li>o A complete entire network diagram (with IPs and port numbers)</li> <li>o DR site details (Step by step guide)</li> <li>o Step by step guide of Infrastructure bringing up and shutdown procedure:                   <ul style="list-style-type: none"> <li>▪ Disaster recovery site</li> </ul> </li> <li>o Other relevant user guide (if any)</li> </ul> </li> </ul>		





٥ - مذكرات

مذكرات	
مذكرات	مذكرات
مذكرات	33.1
مذكرات	33.2
مذكرات	33.3
مذكرات	33.4
مذكرات	37





7 - شروط

شروط تقديم العروض/التوريدات/الخدمات/التدريب

حسب ما ورد في وثيقة شروط التعاقد رقم 14/2022

LOT 1	Supply, Installation, Configuration, and Training for Computing Expansion And Backup Infrastructure Upgrade	
#	Minimum Requirements	Quantity
1.1	<b>Primary Hosting Server and Storage Expansion</b>	<b>01 Bundle</b>
1.1.1	Brand	
1.1.2	Model	
1.1.3	02 Node x Hyperconverge Appliance in a fully integrated system	
1.1.4	Processor: Dual Intel Xeon-Gold 5220R (2.2GHz/24-core/150W) per node	
1.1.5	Memory: 384GB RDIMM DDR4-2933 Registered Memory per node	
1.1.6	The appliance shall support on Demand Scale-in and Scale-out Architecture	
1.1.7	The appliance shall have always-on deduplication and compression from day one including any appropriate license	
1.1.8	The appliance shall include built-in resiliency, backup, and disaster recovery for enterprise-grade data protection	
1.1.9	Storage: 12 x 1.92TB MU SSD, 2 x 300GB SAS 10K HDD per node	
1.1.10	RAID Controller with 2GB Cache and Battery for Cache Protection per node	
1.1.11	Redundant hot plug 1600W Power Supply per node	
1.1.12	02 x 10/25Gb dual port SFP28 Network Adapter with transceivers	
1.1.13	Embedded 1 x out-of-band management to simplify remote management	
1.1.14	Server bezel kit and rack mount railing kit	
1.1.15	The appliance shall include enterprise server remote management software License	
1.1.16	The system shall be configured as a single cluster	
1.1.17	The cluster shall be configured for N+1 high availability	
1.1.18	The system shall dedupe and compress all data at inception	
1.1.19	Deduplication and compression should be global, meaning data replicated to other future clusters is already deduped and compressed	
1.1.20	The system should be resilient and should be able to tolerate multiple drive and component failures in a single node	
1.1.21	The system shall include individual VM-centric policy-based backup and recovery. All necessary software like backup software licenses shall be included. Backup software shall be licensed for all the sockets in the proposed HCI cluster.	
1.1.22	All backups shall be deduped and compressed natively	
1.1.23	The system shall have global management that is directly integrated with VMware vCenter	
1.1.24	The system shall include integrated cloud based Intelligent management and reporting platform	
1.1.25	The cloud based platform shall be able to provide analytics across multiple systems.	
1.1.26	The cloud based platform shall have high level dashboards showing data efficiency, performance, and backup data efficiency per cluster, per Virtual Machine (VM), and per host	
1.1.27	05 x VMware vSphere 7 Std for 1 processor with 1-Year Basic Support License	
1.1.28	01 x VMware vCenter Server 7 Std (Per Instance) with 1-Year Basic Support License	
1.1.29	144 x Windows Server 2022 Standard - 2 Core License Pack License	
1.1.30	Minimum required certifications: <ul style="list-style-type: none"> <li>• Original Equipment Manufacturer (OEM) Certified Professional for the proposed Hyperconverged Appliance (minimum one certified person)</li> <li>• OEM Certified Professional for the proposed Virtual Backup Appliance (minimum one certified person)</li> <li>• Veeam Certified (minimum one certified person)</li> <li>• VMware Certified (minimum one certified person)</li> </ul>	
1.1.31	Installation, Configuration, Documentation and Training <ul style="list-style-type: none"> <li>- Installation and configuration service shall be by vendor certified persons only</li> <li>- The installation team should consist of minimum one OEM certified person in the</li> </ul>	

	<p>proposed HCI solution.</p> <ul style="list-style-type: none"> <li>- The allocated persons shall be available onsite for the duration of the installation</li> <li>- Installation of the HCI Nodes: unpacking the server, inspecting it for damage and installing it according to product specification</li> <li>- Installation of any additional hardware options</li> <li>- Physical connection of the product to a LAN or WAN</li> <li>- Perform maintenance related tasks such as firmware updates and management interface configuration</li> <li>- Shall be installed and configured as per manufacturer best practice guidelines.</li> <li>- Requires configuring / migrating any relevant existing settings to the new devices installed.</li> <li>- Install and configure hypervisor software on each HCI node</li> <li>- Install and configure HCI software stack</li> <li>- Install and configure VMware vCenter with integrated HCI management software</li> <li>- Configure integrated cloud management platform</li> <li>- Configure the cluster in N+1 HA configuration</li> <li>- Configure all relevant VMware networking stack ensuring high availability and maximum performance</li> <li>- Configure inbuilt backup and recovery for local backup</li> <li>- Plan, design and configure backup policies</li> <li>- Backup policies should be configured per VM and globally per datastore</li> <li>- Migrate selected production workload VMs to new HCI with minimal downtime</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Entire VMware infrastructure brief: (Data Centre (DC) and Disaster Recovery (DR) site with diagrams if any) <ul style="list-style-type: none"> <li>o Step by step guide on how to extend VM storage and file server storage using existing storage capacity.</li> <li>o Step by step guide on how to create and managing windows sever VM.</li> <li>o Step by setup guide on how to create VM by using a template</li> <li>o Step by step guide on how to take backup and restore VMs.</li> <li>o Step by step guide on how to create new data store and present the storage to VMs</li> <li>o Step by step guide on how to migrate VMs</li> <li>o Step by step guide on how to troubleshoot VMs</li> <li>o Step by step guide on managing ESXi hosts.</li> <li>o A complete entire network diagram (with IPs and port numbers)</li> <li>o Step by step guide on Infrastructure bringing up and shutdown procedure: <ul style="list-style-type: none"> <li>▪ Primary site</li> </ul> </li> <li>o All login credentials should be provided</li> <li>o Other relevant user guide (if any)</li> </ul> </li> </ul>	
1.1.32	<p>Warranty:</p> <ul style="list-style-type: none"> <li>- 3-Year Parts, 3-Year Labor, 3-Year Onsite support with Next Business Day (NBD) response</li> <li>- 9x5 business hour availability and a 2-hour response time</li> <li>- 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging</li> </ul>	
1.1.33	<p>Technical Support: 3-Year local technical support by OEM certified persons</p>	
<b>1.2</b>	<b>Central Management and Backup Server</b>	<b>01 Bundle</b>
1.2.1	Brand	
1.2.2	Model	
1.2.3	2U Rack mountable server with 4xLFF slots	
1.2.4	01 x Intel Xeon-Silver 4310 2.1GHz 12-core 120W Processor	
1.2.5	04 x 32GB (1x32GB) Dual Rank x4 DDR4-3200 Registered Memory	
1.2.6	02 x 480GB NVMe M.2 SSD boot drive with RAID1	
1.2.7	08 x 6TB SATA 6G 7.2K LFF HDD	
1.2.8	01 x HW RAID Controller: 8 Internal Lanes, 2GB Cache, 12G SAS Controller	
1.2.9	01 x Ethernet 10Gb dual port SFP+ Adapter including transceivers	
1.2.10	02 x 800W Hot Plug Low Halogen Power Supply	
1.2.11	01 x Server Remote management license	

1.2.12	01 x Server bezel kit and rack mount railing kit	
1.2.13	Shall include high-performance software defined virtual backup appliance license	
1.2.14	The virtual backup appliance shall be scalable to 500TB of usable capacity	
1.2.15	The virtual backup appliance shall support and include license for data at rest and data in flight encryption	
1.2.16	The virtual backup appliance shall include at minimum 36TB perpetual capacity license	
1.2.17	The virtual backup appliance shall include perpetual deduplication and compression license	
1.2.18	The virtual backup appliance shall have a minimum of 4TB/hr backup performance	
1.2.19	Veeam Backup & Replication Universal License. 1 Year Subscription (40 VM license)	
1.2.20	Minimum required certifications: <ul style="list-style-type: none"> <li>• OEM Certified Professional for the proposed Virtual Backup Appliance (minimum one certified person)</li> <li>• Veeam Certified (minimum one certified person)</li> </ul>	
1.2.21	Installation, Configuration, Documentation and Training <ul style="list-style-type: none"> <li>- Shall be deployed by vendor certified persons only</li> <li>- The installation team should consist of minimum one OEM certified professional person in the proposed virtual backup appliance and one OEM certified person for Veeam Backup.</li> <li>- The allocated person(s) should be available onsite for the duration of the installation</li> <li>- Plan and design external and long term backup and recovery policies as per industry best practices</li> <li>- Configure backup and recovery policies for all production workload</li> <li>- Configure virtual backup appliance for long term archiving</li> <li>- Isolate and secure backup infrastructure</li> <li>- Configure replication policies on all existing production workloads for continuous data protection</li> <li>- Demonstrate and verify backup and recovery</li> <li>- Requires to configure/ migrate any relevant existing settings to the new device installed as per manufacturer best practice guidelines.</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Configuration documentation: <ul style="list-style-type: none"> <li>o All login credentials should be provided</li> <li>o Veeam backup and recovery user guide</li> <li>o Other relevant user guide (if any)</li> </ul> </li> </ul>	
1.2.22	Warranty: <ul style="list-style-type: none"> <li>- 3-Year Parts, 3-Year Labor, 3-Year Onsite support with NBD response</li> <li>- 9x5 business hour availability and a 2-hour response time</li> <li>- 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging</li> </ul>	
1.2.23	Technical Support: 3-Year local technical support by OEM certified persons	
<b>1.3</b>	<b>Primary Site Next Generation Network Security Appliance</b>	<b>01 Bundle</b>
1.3.1	Brand	
1.3.2	Model	
1.3.3	The device shall have minimum the following interfaces and modules <ul style="list-style-type: none"> <li>- 8x1 Gig SFP</li> <li>- 16x1 Gig RJ-45 ports</li> <li>- 2x10 Gig SFP+ ports</li> <li>- 1 x Console Port</li> </ul> 1 x 480GB SSD on board storage	
1.3.4	The device should support minimum 25Gbps firewall throughput	
1.3.5	The device shall support minimum 5Gbps IPS throughput	
1.3.6	The device shall support minimum 3.2Gbps NGFW throughput	
1.3.7	The device shall support minimum 3Gbps Threat Protection throughput	
1.3.8	The device shall support minimum 2Gbps SSL VPN throughput	
1.3.9	The device shall have support minimum 2.9 Million Concurrent TCP Sessions	
1.3.10	The device shall support active-active or active-passive high availability configuration	

1.3.11	The device shall have redundant power supply unit	
1.3.12	Form factor: 1RU, rack mounting accessories shall be included	
1.3.13	The proposed next generation firewall should be an enterprise grade firewall from a manufacturer listed as Leader in the 2020 or 2021 Gartner Magic Quadrant for Network Firewalls. Should submit relevant Gartner's magic quadrant report	
1.3.14	The appliance shall support intercepting SSL traffic for Security Filtering.	
1.3.15	The appliance shall be able to perform the security functionalities of Web Filter, Application Control, IPS, and Antivirus.	
1.3.16	The appliance shall support OSPF, BGP, static, IGMP v1/v2, PIM, VRRP, BFD protocol	
1.3.17	The appliance should support 802.1Q, sub interface, bridge domains, Inter VLAN routing.	
1.3.18	The appliance should support policy based routing, Application aware routing, performance based routing.	
1.3.19	The appliance shall support various traffic load balancing mechanism between multiple transport.	
1.3.20	The appliance should support QoS based on layer-7 application	
1.3.21	The appliance should support NAT/PAT for direct internet access or cloud access	
1.3.22	The appliance architecture should have dedicated CPU for security processing apart from the main central processing units (CPUs).	
1.3.23	The appliance should identify thousands of applications inside network traffic for deep inspection and granular policy enforcement	
1.3.24	The appliance should protect against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic	
1.3.25	The appliance should prevent and detect against known and unknown attacks using continuous threat intelligence backed by dedicated global security services	
1.3.26	The appliance shall support automatically blocking threats on decrypted traffic using the Industry's standard SSL inspection	
1.3.27	The appliance shall support blocking and controlling web access based on user or user groups across URL's and domains	
1.3.28	The appliance shall support Block DNS requests against malicious domains	
1.3.29	The appliance shall support Multi-layered advanced protection against zero-day malware threats delivered over the web	
1.3.30	The appliance shall include a management console that is effective, simple to use, and provides comprehensive network automation and visibility	
1.3.31	The appliance shall provide converged networking and security into a secure, simple to manage architecture with a single focal point for management and configuration for LAN devices such as Network Switches and Wireless Access Points.	
1.3.32	Security Subscription: <ul style="list-style-type: none"> <li>- 1-Year Security Subscription - Web Filtering, Malware Protection, IPS, Antispam, Antivirus, Botnet, Virus Outbreak Protection, Application Control, Sandbox</li> <li>- 1-Year Support Subscription: 24x7 Support, Hardware Replacement, Firmware Upgrades</li> </ul>	
1.3.33	Minimum required certifications: <ul style="list-style-type: none"> <li>• Cisco CCNA Certified for Routing and Switching Certified (minimum one certified person)</li> <li>• Cisco CCNA and CCNP Certified for Security Certified (minimum one certified person)</li> <li>• OEM Certified Professional for the proposed Network Security Appliance (minimum one certified person)</li> </ul>	
1.3.34	Installation, Configuration, Documentation and Training <ul style="list-style-type: none"> <li>- Shall be deployed by vendor certified persons only</li> <li>- The installation team should consist of minimum <ul style="list-style-type: none"> <li>o 01 x OEM certified person for the proposed network security appliance and</li> <li>o 01 x Cisco CCNA and CCNP Certified person</li> </ul> </li> <li>- The allocated person(s) should be available onsite for the duration of the installation</li> <li>- Design appropriate LAN,WAN, and DMZ security policies.</li> <li>- Configure application control policies</li> <li>- Configure AV and Web filtering policies</li> <li>- Configure antispam filtering</li> <li>- Configure malware protection policies</li> <li>- Configure IPS policies</li> </ul>	

	<ul style="list-style-type: none"> <li>- Configure traffic shaping and ISP WAN load balancing</li> <li>- Network segmentation and configure appropriate security policy per segment</li> <li>- Configure remote access connectivity policies</li> <li>- Configure DNS filtering policies</li> <li>- Configure wireless network segmentation and appropriate security policies per segment</li> <li>- Configure wireless network bandwidth management policies</li> <li>- Configure security event logging and monitoring</li> <li>- Configure security event alert notification</li> <li>- Configure scheduled industry standard security reporting policies</li> <li>- Requires to configure/ migrate any relevant existing policies and settings to the new device installed as per manufacturer best practice guidelines.</li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Configuration documentation: <ul style="list-style-type: none"> <li>- All login credentials should be provided</li> <li>- User guide of the security policies configured</li> <li>- Other relevant user guide (if any)</li> </ul> </li> </ul>	
1.3.35	Warranty: 1-Year Parts and Service with 24x7 comprehensive support, Hardware Replacement, Firmware Upgrades	
1.3.36	Technical Support: 1-Year 24x7 on-site technical support services and labor	
<b>1.4</b>	<b>Moving of existing MSA at Primary Site to Disaster Recovery Site</b>	
1.4.1	<p>Move the existing SAN storage from Primary Site to DR site:</p> <ul style="list-style-type: none"> <li>- Install and configure the storage at DR Site with latest firmware upgrades.</li> <li>- Requires to configure/ migrate any relevant existing settings at DR Site to the moved storage as per manufacturer best practice guidelines.</li> </ul>	
1.4.2	<p>Installation, Configuration, Documentation and Training</p> <ul style="list-style-type: none"> <li>- Move the existing SAN storage from Primary Site to DR site: <ul style="list-style-type: none"> <li>o Install and configure the storage at DR Site with latest firmware upgrades.</li> <li>o Requires to configure/ migrate any relevant existing settings at DR Site to the moved storage as per manufacturer best practice guidelines.</li> </ul> </li> <li>- On the job training (Minimum 3 IT staff of MoE)</li> <li>- Entire VMware infrastructure brief of DR Site: <ul style="list-style-type: none"> <li>o Step by step guide on how to extend VM storage and file server storage using existing storage capacity.</li> <li>o Step by step guide on managing ESXi hosts.</li> <li>o A complete entire network diagram (with IPs and port numbers)</li> <li>o DR site details (Step by step guide)</li> <li>o Step by step guide of Infrastructure bringing up and shutdown procedure: <ul style="list-style-type: none"> <li>▪ Disaster recovery site</li> </ul> </li> <li>o Other relevant user guide (if any)</li> </ul> </li> </ul>	

#	General Technical Requirements
1	<p><b>Minimum Service Level requirements:</b></p> <ol style="list-style-type: none"> <li>a) The support service vendor should provide the contact number of a single point of contact to facilitate immediate contact by client's representative and he or she shall be responsible to liaise with all vendors for rectification of faults within the Next Business Day.</li> <li>b) Defective equipment shall be replaced by the bidder at his own cost including the cost of transport if any;</li> <li>c) The support service vendor shall provide all normal toolkit and test equipment needed for the maintenance of the hardware to their engineers.</li> <li>d) System maintenance and support services will include the following activities. <ul style="list-style-type: none"> <li>✓ 24 x 7 on-line Support.</li> <li>✓ Patch updating and major / minor software version upgrading support.</li> <li>✓ Phone/ Email TAC support must be provided during support period</li> <li>✓ Issue resolution / Onsite Visits within 1 hour of hardware failures reported</li> <li>✓ Local TAC support plan must be maintained by the Bidder for the maintenance period.</li> </ul> </li> <li>e) After installation and deployment of each component, the support service vendor is required to provide written confirmation to the Ministry that the part/ component installation and configuration have been</li> </ol>



	completed.
2	<p><b>Maintenance Support Services including on-site Technical Support:</b></p> <ul style="list-style-type: none"> <li>On-site hardware repair/replace and maintenance support service should be delivered by experienced OEM Certified person</li> <li>On-site diagnostics and repair service should be delivered by experienced OEM Certified person</li> <li>Service summary report shall be provided after each work performed including recommendations for optimal performance</li> <li>Maintenance Support Person should check and ensure the systems are with the most recent firmware version.</li> <li>During each maintenance visit, field service professionals should run tests to verify our systems are functioning correctly in all operational modes</li> <li>Replacements of parts; labour; travels &amp; accommodation and components should be included as per applicable warranty of the relevant system</li> <li>The support service vendor shall maintain critical parts locally in Male' to provide after sale support.</li> <li>It is mandatory that the support service vendor should maintain the required support technical team as deemed as suited based on the requirements and milestones. The support service vendor MUST have full time Certified Professional(s)/ Person(s) under its payroll.</li> </ul> <p><u>Primary required certificates of the professional(s):</u></p> <ul style="list-style-type: none"> <li>Cisco CCNA Certified for Routing and Switching Certified</li> <li>Cisco CCNA and CCNP Certified for Security Certified</li> <li>OEM Certified Professional for the proposed Network Security Appliance</li> <li>OEM Certified Professional for the proposed Hyperconverged Appliance</li> <li>OEM Certified Professional for the proposed Virtual Backup Appliance</li> <li>Veeam Certified</li> <li>VMware Certified</li> </ul> <p><u>The vendor shall submit the following documents:</u></p> <ul style="list-style-type: none"> <li>Certifications copy of the relevant training</li> <li>ID card OR Passport Copy of the certified person/ personnel</li> </ul>

رہی ڈیٹا سروسز کے لیے:

LOT 1: Supply, Installation, Configuration, and Training for Computing Expansion And Backup Infrastructure Upgrade				
#	Item Description	Quantity	Unit Price (MVR)	Extended Price (MVR)
1.1	Primary Hosting Server and Storage Expansion	1 Bundle		
1.2	Central Management and Backup Server	1 Bundle		
1.3	Primary Site Next Generation Network Security Appliance	1 Bundle		
			<b>Sub Total</b>	
			<b>GST 6%</b>	
			<b>Net Total</b>	