

ہ 20 0 0 0 0 0 0 0 قر مرجع ماع کہ سرسر	י דער 2000 י י י י י י י י י י י י י י י י י
ס בכו ס ס ס י ס י ד ס י ד ד ד אד ש ש א ש א יוד יוד יוד שיר שיר די	38/2023/W-012
רו מין מין מין ההציע ייתיית שינ:	(IUL)38-AD/38/2023/138
ת הלית האיני	2023 حَدْ بَوَجْمَ 30

ים ברורסיט סיפית רתרציתברית:

<u> </u>	
ת 0 במתי	، ۵ ، ۵ ۵ × ۰ ، ۵ ۶ ، ۲ ، ۵ ۴ ، ۵ × ۵ ۵ ۵ ۵ ۲ ، ۲ ۶ ۶ ۲ ۵ ۵ ۲ . ۲ ۶ ۶ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲
11 0 می موند : 11	13 مرتجر مرفق 2023 (م مرف ترمو)
2.5	10:30

مروم مثومر مو مرد مرد مثومر م روم مثومر مرد م

ים ברוא גאס גרס שו היו באר שיציית תיתרצ ציצים ביצית בתר הציייים בק

- c_{2} , c_{2} , c_{3} , c_{4} , c_{4} , c_{4} , c_{4} , c_{5} , c_{5} , c_{6} , c_{6} , c_{7} ,
- הבן, כ שליע אבער 2 היע אייים 2 ג' אייי 2000 איי 2000 בין 2000 - הבן, כ שליע אבער 2 היע אייים 2 צ'ר שוע עיע צרים צייני שליע הערש - גייי - 2000 צעפע ערפות.

- 3. ھۆگۈر دىرى ھۆگەر دىرى سەۋىرىمىرى كۆرۈمەر كۆرۈكۈر كۆرۈكۈر، كۆرۈكۈ سەۋىرىمور 3. كۆرۈكۈ دىرى ھۆكۈر دىرى ئەرىرى ئەرىرى كۆرۈكۈر 3004461 ئۆر بىرى 3004428 ئىرى 3004429 ئىرى 3004461 ئىرى
- 4.2 ھۆۋىم كىرى تىگە كەمسى:- ج ھۆۋىم مە ئە تىكور رىرىرىرى بورۇر تورۇرىش بېرىسى مەر تەرمى مەرى مەرى مەرى بولۇر.
- 4.3

י מי ג בי ג איר מיני. על על שי ג ג ג ג ג אילי.

- 5.2 <math>3.6 3.
- 5.3 ھَوْسُ مَرْرَخُوْسُ مَسْرِخُرْمُ مَعْرَدُهُ كَنَعْ وَرِجْوَدُوْ مُرْخُرُ مُرْرَعٌ مُدُوْسُ ھُوْدُهُ 5.3 ھُوُرُ سُرَعُرْمُ مَرْجُرُمُ ھُسْرِحُرْمُ ھُسْرِحُرْمُ مَعْرَدُهُ مَعْرَدُهُ مَعْرَدُهُ مَعْرَدُهُ مَعْرَدُهُ مُ مُمَوَسُ مَعْرَدُهُ حَدْمُ مُرْجُرُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مَعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُ مُمَوَسُ مُرْجُرُهُ مَعْرَدُهُ مَعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرُدُهُ مُعْرَدُهُ مُرْدُونُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُوسُ مُورُونُ مُورُدُونُ مُعْرُدُهُ مُورُدُونُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُعْرَدُهُ مُونُ مُعْرَدُهُ مُ مُورُدُونُ مُعْرَدُهُ مُورُدُونُ مُورُدُونُ مُورُونُ مُورُدُونُ مُورُونُ مُورُدُونُ مُورُدُهُ مُورُدُهُ مُورُدُمُ مُورُدُونُ مُورُونُ مُورُونُ مُورُدُونُ مُورُدُونُ مُورُدُونُ مُورُدُونُ مُونُ مُورُونُ مُونُونُ مُورُونُ مُونُ مُونُ مُورُونُ مُورُدُونُ مُورُدُونُ مُونُ مُورُونُ مُونُ مُونُونُ مُونُ مُونُ مُونُونُ مُونُ مُ مُونُ مُونُ مُونُ مُونُ مُ مُونُ مُ مُونُ مُ مُونُ مُونُ مُ مُونُ مُ مُونُ مُ مُ مُونُ مُ مُ مُونُ مُ مُونُ مُ مُ مُونُ مُ مُونُ مُ مُ

5.6 הַהְּשָׁתְעַתָּעָרָהַ עָבָרָסָן אָרָטָסָ אָבָרָסָן בָרָרָטָ בָרָבָרָטָ בָרָבָרָעָ בָרָבָרָעָר בַרָרָבָרָעָ הערקערעין שַבָּעַקסאר שַפָּעַקאר גער בַרְבָלָערע בָשַרָערע בָשַרָערע הערקערעין שַבָּערסאר שַקָּערט בַרָרָבָר בָרָבָרָער בַרָּבָרָערע בַרַבּסָע שַבָּערסאר שַקָּערט בַרָרָבָערע בַערערע הַרְבָערע בַרַפַּערע בַרַפָּר

- 6.1 ج جَرُمَّرُدُ 6.1.1، 6.1.2، 6.1.4، 6.1.4 مَعِرِ 6.1.5 دَمِ عَمَّرُسْرَسْرَ وَمِحْرَدُمُ 6.1
- 6·1·2 مَدْرَبْرَبْعُ مَدْمُوْسُ (مُسْرَعُسُ 3)، فَحْرَضُ مُدْ مُعْرِ وَمُعْرَضُ سُوْمَعْنُ مُسْرَعُدُمُوْسُ مُدْمَرْهُ.
- ק פר געל גער גערים 4 גע שייע געל ב געריי 6.1.3 געריע בר געל גער געריים 4 גע

6. ھۆسر

11 0 C C C O ספג א מצית

- 6.1.4 h°
- 6·1·5 ھۆۋى ۋە تەرىمە ئرۇڭ ئەيونۇر، ھۆرىر ئرىدۇ ئەيونۇش ئوبرىش 120 تىرى سەتورۇرىشرەش.
- 7.2 مَحْقَمِوْهُ رَّمِرِ جِنْرُمَهُ رَّحَمَّهُوْدُ خَمْسُ جَمَّرُ مَحْتَمُ مَعْتَرَحِرَهُ مَعْدَمَعُسْ مِرْسُ رُبَرَرَعُهِ مَدْ جِ جَرْمَةُ 10.27، 20.27، 20.27، 20.27، 70.20 دَر هَبَرُسْرَنْرُوَهُ مَّرَدُةُ نُوْبِرَرَةُ مُنْفَحْدُهُ.
- 7.2.1 פפרעת 2 היצע בעצרעענרע כשרעטנט אתרהערבר 2.1
- 7.2.2 ב ההפיתה צעצית שעתשל בישהעשת צעריע נרכהעבר בעצית
- 7·2·4 ئۇسۇرىمۇ ئىرى ئەرىمى ئەرىمۇ، ئەسەرىمە بىرى ئۇرۇ ئەرۇرى ئەرى ئەرى بورۇدىمۇ ئەرىمى
- 7.2.5 בְצָהָת רָעְרָשׁ בְקָתָעַקֿעַצַת כִּשְׁקָעָזָ גָרָ כִּשְּׁקָעָזָ בָּבָרָ גָצָי בָּרַצְקָנָי בַּשְׁקָעָזָ בְּקָעָעַקָּעַי בָּרָבָי בָּרָבָעָ בָּרַצְקָנָי בַּשִּׁקָנָי גַעַנָרָ גַעַרָע בַעָר בַּעָרָ בַּעָרָ בַּעָרָ בַּעָרָ בַּעָרָ בַּרָבָי בַ

مركزه

- $[1] \quad \sum_{a} \sum_{a} \sum_{b} \sum_{b} \sum_{a} \sum_{b} \sum_{b} \sum_{a} \sum_{b} \sum_{a} \sum_{b} \sum_{b} \sum_{a} \sum_{b} \sum_{b} \sum_{a} \sum_{b} \sum_{b} \sum_{b} \sum_{a} \sum_{b} \sum_{b$

ر تر م 0 م 2 م 0 15 مرک محد

۲۵ ۵۵ ۵۰ ۲۵ ۲۵ ۲۵ ۲۵ بر سرح کروکو کو کو کو کو پر	08 1 1 08	ис 00 × 5,5 че 5,5 ,50 жа
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	60	י ג ג ג
$\frac{2}{2} \frac{2}{2} \frac{2}$	25	د ۵ ر د د برمی د برمی
$ \frac{5.3}{c_{1}} \sum_{k=1}^{n} \sum$	15	ر ره رد ۲ در ۹۸ مود موج مره موج بره

	1 11	1
×00) / / / / / 000 / 00 / 200	1. بر مردم مردم المردم المردم	.1
38/2023/W-	1. <u>محدة مرضية مرضية المرسم مرد</u> : 012	·2
(IUL)38-AD/38/2023/	1. بەبۇرىكى ئىرىكرىغىم: 138	.3
قَرَّ بِرَجْمَةِ 2023	1. روب مربوش مربوش: 30	.4
	مره دررا راد در دون دودور موجر رجرری وتره د ورور ه	2
	2. פת ציג יתיית:	2.1
	2. تربي سوھ بر سور سرو کر ز	2.2
	2. ترم موجر مرد مرد مرد:	2.3
	<i>.</i>	2.4
	0 C O C :	
	2. يوسر سرسر فري:	2.5
	2.	2.6
	2. 2. פת גיג שפים:	2.7
	י סי יכרסט יוי ארכאתי ציציקיית צירוצית	
	د ۵ د سامتر توسر	
	بر ع سر بر مشو بر	
	0 4 - C 4 7 7 9 8 7 9 8	
כ (כככסס כי כי אייני כי גייני ג'יי ג'יי ג'יי ג'יי ג'יי ג'יי ייס (מת גרש המכ י הראש באמת כר הפרסי גשות אייי גרמת גשות אייני	100 1 00 1 00 1 00 1 00 1 00 0 00 00 00	2
ת אין האיר אין איר אין	-	3
2 × 2	# سرّ سرّ	<u> </u>
ר הייייא אייייי. הייייייייייייייייייייייייייייייי	۲۵۴ ۲۵۴ ۲۵ ۲۰۱۵ ۲۰۱۶ ۲۰۱۶ ۲۰۱۶ ۲۰۱۶ ۲۰۰۶ ۲ مرورسه رسوه ریزری وکرمو	4
אר אי אר אי אר גער אי	ג די גיא גאין ג'יי ג'י' ג בי-ארא איצע גערעציגע גערע גערייי	11
جرور تربر مرد .	: ^ •	×,
		-
ד ד ה אין ד אין די ד ד ד ד ד ד ד ד ד ד ד ד ד ד ד ד ד ד	00, 00, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	ניקם ניקפ

Request for Proposal

Hyper Converged Infrastructure & Licensing Project

Introduction

Election Commission of Maldives (herein referred as ECM) invites vendors to submit proposal for "Hyper Converged Infrastructure & Licensing Project". ECM requires implementation services to complete all components of this project including consultancy in the process of implementation, configuration, etc.

Purpose

The purpose behind issuing this RFP is to provide information for technical and commercial bids from the eligible bidders for the above purpose.

Requirement

- 1. Hyper Converged Infrastructure Solution (Technical Specifications in Annex)
- 2. Microsoft SQL Server License (Technical Specifications in Annex)
- 3. Sophos XG Firewall License (Technical Specifications in Annex)
- 4. Sophos Central Endpoint License (Technical Specifications in Annex)

Scope of Work

- 1. Installation & Provisioning
 - a. The entire system shall be installed as per manufacturer's recommendations and instructions.
 - b. Installation and provisioning should be provided by the manufacturer certified engineers.
- 2. Warranty & Maintenance
 - a. The bidder should provide Warranty for respective requirements included in the proposed solution.
 - b. A comprehensive SLA must be provided with the proposal.
- 3. Post Deployment
 - a. Hardware specific deployment guidelines from the manufacturer should be provided.
 - b. Detailed deployment diagrams along with the manufacturer standards should be produced on completion of the project.
 - c. All equipment in the project should be registered in the name of Elections Commission in the relevant Manufacturer portals.

Expectations from Bidders

- 1. As bid will be awarded to only one party after evaluation, each bidder is required to submit only one single proposal inclusive of the mentioned items.
- 2. The bid should be precise, complete and in the prescribed format as per the requirement of this RFP. Every item proposed must have related technical documents attached along with the proposals.
- 3. The supplier must have minimum 2 (Two) project experience of Hyperconverged Infrastructure Solutions delivered locally (Letter from the client confirming the completion of the project).
- 4. Technical Proposal should include solution design diagrams and specifications.

Delivery and Installation Schedules

- 1. The Bidder should deliver the goods within 45 Days (Maximum) from the date of purchase order.
- 2. The Bidder shall install the license and integrate with existing LAN within 1 week from the date of delivery of the equipment at respective locations.
- 3. After completion of installation the bidder should obtain sign-off on the Installationcum-Acceptance certificate from the ECM official. ECM will carry out acceptance of hardware as per acceptance test plan.
 - a. Installation will be treated as incomplete in one/all of the following situations:
 - i. Non-delivery of any software or other components, accessories, documentation, drivers, media mentioned in the order.
 - ii. Non-delivery of supporting documentation.
 - iii. Delivery, but no installation of the components and/or software.
 - iv. System operational, but unsatisfactory to ECM.

Technical Specifications (ANNEX)

1. Hyper Converged Infrastructure Solution

This section covers specification for supply and installation of a Hyperconverged Infrastructure (HCI) Elections Commission. This will include Supply, install, configuration and testing of Hyperconverged Infrastructure (HCI) Solution essentially includes 4 appliance Nodes and Software Stack for HCI.

SPECIFICATION	S HCI SOLUTION HARDWARE WITH VMWARE
	-Proposed HCI (Hyper Converged Infrastructure) solution
	should be from a single vendor and should be supported as
	single all in one appliance.
	-HCI Solution should be based on true software defined
Туре	architecture which does not use any proprietary hardware
- 71	adaptors for acceleration and data compression.
	-HCI Solution should be based on a software defined storage
	technology which does not require hardware-based Raid
	controllers to provide data protection and integrity.
	-Full Flash Solution
	-Detailed Technical Proposal, Design of Solution and Other
	Support Documents must be submitted with this tender.
Other	-Proposed HCI Solution should be aligned to a single product
	roadmap from a single vender. -Adding of Nodes should be non-disrupting and should not
	have any impact to production
	-2U Form Factor Nodes
	Processor
	- Intel® Xeon® Gold 6314U 2.30GHz, 32C/64T, 48M Cache,
	DDR4-3200 x 2
	Memory
	-512 GB DDR4 Per Node (64GB RDIMM, 3200MT/s, Dual Rank,
	16Gb) x 8
	<u>Storage</u>
HCI Hardware Node Details	-2.4TB 10K RPM SAS ISE 12Gbps 512e 2.5in Hot-plug Hard
	Drive (Capacity) x 8
	-800GB SSD SAS ISE Write Intensive 12Gbps 512e 2.5in Hot-
	plug AG Drive, 10 DWPD (Cache) x 2
	-Enterprise Storage Adapter with 2 x NVMe/SSD M.2 480GB cards (RAID1) or Equivalent.
	Network
	-Intel Ethernet X710 Quad Port 10GbE SFP+ (4x 10Gb/s SFP +
	Connector with 10Gb/s Transceivers)
	VMware vSphere Enterprise Plus License per Sockets should
Software Stack	be included with proposed solution, separately with 36

	months 24x7 Production Support Subscription
Hypervisor License	VMware vSphere Enterprise Plus License per Sockets should be included with proposed solution, separately with 36 months 24x7 Production Support Subscription
VMware vCenter License	VMware vCenter Standard License per Sockets should be included with 36 months 24x7 Production Support Subscription
Software Defined Storage	 -vSAN Advanced License per Sockets should be included with 36 months 24x7 Production Support Subscription -Software define storage technology should seamlessly integrate with the vSphere hypervisor without having to pass IO through a dedicated storage virtual controller module -Software defined storage should present a VMFS datastore instead of NFS datastore
Management Software	 -Comprehensive HCI Management Tool to Configure, Manage and Troubleshoot the whole Infrastructure including Hardware and Software Components. -Backup Software for Virtual Machine with synchronized application and rollback capability must be included.
Remote Replication	-Solution must come with Replication Technology which should support both Synchronous/Asynchronous Replication -All required licenses should be included; Synchronous Replication of VMs and Asynchronous Replication of VMs
Data Protection	 -Continuous Data Protection with Roll-Back for VM's; Should have the ability to provide CDP (Continuous Data Protection) to selected VM's. -Required RPO (1 seconds or less). -Should have the ability to roll back and forth to minimize the data loss and to provide operational recovery from any malicious attack or human error. -VM level Asynchronous replication should support near zero RPO (less than 5 seconds). -Should support both Synchronous and Asynchronous replication of VM's -Should include data compression capability to reduce bandwidth consumption.
Firmware Code and Patch Management	 Should have the ability to provide automated, intelligent lifecycle management functionality automatically updates cluster with revalidated, pre-tested software and firmware components, ensuring the HCI stack (Full Software Hardware) is in a Continuously Validated State Single validated and tested patch level must be available at all time for hardware and software components in the cluster. All patches for the complete hardware and software solution

	must come from a single validated source.	
-Manufactures Authorization letter should be pro Documents that project is backed by the manufacturer for the -2 Engineers Certificates must be attached.		
Warranty	3 Years Manufacturer Warranty	
License Period	3 Years Term License	
Quantity	4 Nodes	

SPECIFICATIONS DATA CENTER NETWORK SWITCHES		
Product Name	1U Form Factor Switches	
Base	Enterprise Switch, 1U, PHY-less 28 x 10GbE SFP+ 2 x QSFP28 IO to PSU Airflow	
Ethernet Optics	2 PSU Networking Transceiver SFP+, 10GbE, SR, 850nm Wavelength, 300m Reach x 16	
25/40/100G Cables with Embedded Optics	100GbE, QSFP28 to QSFP28, Passive Copper Direct Attach, 0.5 Meter x 2	
PSU & Power Cords	Dual Redundant PSU with Jumper Cord - C13/C14, 2M, 250V, 10A	
Warranty	3 Years Manufacturer Warranty	
Quantity	2	

2. Microsoft SQL Server License

SPECIFICATIONS MICROSOFT SQL SERVER		
Product Name Microsoft SQL Server 2019 Standard		
License Type	Perpetual	
Quantity	3	

3. Sophos XG Firewall License

SPECIFICATIONS SOPHOS XG FIREWALL LICENSE		
	Sophos XG Firewall Xstream Appliance License Bundle	
	Base Firewall	
Product Name	Network Protection	
	Web Protection	
	Zero-Day Protection	
	Central Orchestration	
	Enhanced Support	

	Email Protection	
	Web Server Protection	
License Type	For HA Active-Active Cluster	
Quantity	1	
License Period	1 Year	

4. Sophos Central Endpoint

SPECIFICATIONS SOPHOS CENTRAL ENDPOINT - RENEWAL		
Intercept X Advanced - RENEWAL	Usage - 270	
Intercept X Advanced for Server - RENEWAL	Usage - 35	
Contract Duration	3 Years	

مریر مربوبی مردور مربوبی مردور ه (مردور مربوبی مردور مربوبی مردور مربوبی مردور مربوبی مردور مربوبی مردور مربوب

خ خ بر مرد بخ بر مرد بر خ مرم ع شرع بر خ مکر مرد ع شر)	- ۵ موقر سسوم س
	Hyper Converged Infrastructure Solution
	Data Center Network Switches
	Microsoft SQL Server License
	Sophos XG Firewall License
	Sophos Central Endpoint License
	ר הם הבט בם ה הב בישתמים שכת הש

ק קסקם הקסקם בקקם בסקם: בשרעם עקורכות הערצ בקים בחבקם:	
د رو رو مرد رود رود دستورم موج بره د فرور (رسر مرکز مرد):	
יני ג נסינ סקב צ פתג ש בריצקים: ערין	

 	C///032 C0/0	ר אין אינט אין גים גים אין אין גים גים געור אין געור אין געור אין געור אין געור אין געור געור געור געור געור גע גער גער גער גער גער גער גער גער גער גער	#
	~	ד הגיו המיכה 2000 ב התות קמפי המקות אייניייייייייייייייייייייייייייייייייי	1
	~	רירים גם שום לש יים, בי הי	2
	~	ר ה ג ג ג ג ג ג ג ג ג ג ג ג ג ג ג ג ג ג	3
	~	ר ג ג גר גר א גר א גר א גר א גר א גר א	4
	•		5
	~	22 0 0 2 2 0 סיק ע 2 אקיית ש ק	6
	~	مین و ا در به در به دید دون رود و ۵ ه سرس ا در و کرد و کرمود در ورد و ۵ (صور در بر و در و در و کروه و در و ۲ و ۲ و ۲ و ۲ و ۲ و ۲ و ۲ و ۲ و ۲ و	7

~	גיינים 3 געלי גיין גיין אינים איניים 3 גרפי הבריניל עוצפים
---	---

و مرر کر مرور و سرد و مرر کر مرور و سرد و کر کر مح	ר ק ק 20 22 22 20 20 20 צעק ד ר פער ש ד ר ק איני איני געק ד ר פער ש איני איני איני
	ראש המינת 20 2 כחיב הבין 120 בין 20 ביל 20 אות הסיית אין
	- די די א 20 אין
	הכרידי הבים (היתיאיים-3)» ביבי הב בקרים הבירידי איצותים (היתיאיים-3)» ביכי הב בקרים

	/			
<pre></pre>	יז יי יים יים יים כבים 0 סציים/כייים ציציית ביי	مور مو/وسور مرمو	20 י יי י י 0 י 0 0 2 20 0 מת צהפ די די הי איז אציד מת דקית	#
	3// ×/Л	2 ב א מי א מי א מי א מי א מי ג א מי א מי א מי ג א א מי	ر، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ،	

r		

(مەرى 6 (200)) (200) (2

Bank Guarantee

Beneficiary:	
Date:	
Bid Security No.:	

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we name of Bank.... hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of amount in words (...amount in figures) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letter of Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or

¹ All italicized text is for use in preparing this form and shall be deleted from the final document.

(c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.²

..... Authorized signature(s) and bank's seal (where appropriate)

-- Note -

In case of a joint venture, the bid security must be in the name of all partners to the joint venture that submits the bid.