
Ministry of Agricultural Development
Building Resiliencé to Climate Related Hazards Project (AMIS)
Agricultural Management Information System (AMIS)
Project Management Unit, Puja Pratisthan Marg, Madhya Baneshwor, Kathmandu

Clarifications on the queries from the prospective bidders


Clarification No-1

This is to notify that Ministry of Agricultural Development, Building Resilience to Climate Related Hazards Project (AMIS), Agricultural Management Information System (AMIS), Project Management Unit, Puja Pratisthan Marga, Madhya Baneshwor, Kathmandu Nepal has issued following clarifications on the queries from the prospective Bidders on the Bidding Documents for the Procurement of Procurement of Supply and Delivery and Installation of AMIS Portal Hardware Requirements for DC, Contract Identification No: PPCR/MoAD/G/NCB-74 published in the daily Kantipur newspaper on January 07, 2018.


Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
1	SAN Switch	86	10		The switch should have USB port for firmware download, support save, and Configuration Upload/download.(Bidders justification: Please remove the point as some OEMs do not support USB port in SAN Switch)	USB port in SAN switch is required and is available.


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2	Network Switches	85	9		Please change to "upto Up to 390 warts of flexible power over Ethernet (POE) pors to meet to the growing Demand of converged network application"(Bidders justification: 400 watt are available with most of the OEM s and 390 watt is the standard for all the leasding OEMs so please So requesting you to please modify the clause .)	Not required to change from 400 to 390 warts
3	Internal Firewall	95	14	Hardware Feature	Firewall throughput of at least 15 Gbps (Request for Firewall Throughput of up to 9 Gbps.)	15 Gbps is required
4	Internal Firewall	95	14	Hardware Feature	IPS + Application Control+ Malware protection enabled Throughput: min. 1 Gbps with real world Traffic / production environment/ Enterprise traffic mix.(Bidders justification: 1 TB throughput is a huge number for Firewall + IPS Service throughput and has not been developed.)	It is 1 Gbps (refer to specification)


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5	ServerLoad Balancer	107	18	Performance and Reliability	Each box must deliver at least 3 Gbps performance(Bidders justification:3 Gbps throughput in both direction" is mentioned in the spec below (No. 8). So there is a confusion between 10Gbps and 3 Gbps.)	It is 3 Gbps
6	ServerLoad Balancer	107	18	Web 2.0 support	Caching rules should be updated by the administrator to adapt to changing internet content & delivery(Bidders justification: Caching is a sensitive matter and is recommended to be controlled by the system administrator rather than the solution provider.)	Caching rules will be controlled by the system administrator(refer to the specification)


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7	ServerLoad Balancer	107	15	General system	Request to Remove: Advance caching of Web2.0 type content, include those that dynamically generate URLs for same object(Bidders justification: It's a proxy feature, load balancer is to handle the server load balancing and more specific to single OEM.)	Not required to remove as not specific to single OEM.
8	ServerLoad Balancer	107	18	General system	Request to Remove: Web base video content caching(Bidders justification: it's a proxy features specific to single OEM)	Not required to remove as not specific to single OEM.
9	ServerLoad Balancer	107	18	General system	Request to Remove: P2P caching(Bidders justification: it's a proxy features specific to single OEM)	Not required to remove as not specific to single OEM.
10	ServerLoad Balancer	107	18	Performance and Reliability	Each box must deliver at least 6Gbps performance for all related to traffic functionalities	It is 3Gpbs


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11	ServerLoad Balancer	107/108	18	URL / Content Filtering	Request to remove(Bidders Justification:Requirement is for pure Server Load Balancer a pure GLSB devices but it's all the security features and more specific to single OEM features included.)	Not required to remove as not specific to single OEM.
12	ServerLoad Balancer	118	18	Manageability, Traffic shaping and compression(Transparent Bridge)	Request to remove(Bidders Justification:Requirement is for pure Server Load Balancer a pure GLSB devices but it's all the security features and more specific to single OEM features included.)	Not required to remove as not specific to single OEM.
13	ServerLoad Balancer	118	18	Manageability, Traffic shaping and compression(Throughput of 3 Gbps in both direction)	Request to remove	Not required to remove.


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
14	Internal Firewall	95	14	Hardware Feature	The proposed solution must be in the Quadrant in latest Gartner's Magic Quadrant for Enterprise Firewall	No need to change as it is kept to maintain quality.
15	Perimeter Firewall	91	13	General Feature(leaders quadrant)	The proposed solution must be in the Quadrant in latest Gartner's Magic Quadrant for Enterprise Firewall	No need to change as it is kept to maintain quality.
16	Perimeter Firewall	91	13	General Feature(8xGE SFP)	The proposed appliance must have 4xGE and 4x10GE SFP or more integrated slots	Not required to change
17	Perimeter Firewall	91	13	General Feature(firewall throughput)	Firewall Throughput of at least 15 Gbps(The proposed appliance should have firewall throughput of 9 Gbps or more)	Not required to change
18	Perimeter Firewall	91	13	General Feature(2 Gbps or more NGFW throughput)	The proposed solution must have 1.5 Gbps or more NGFW throughput (IPS and Application Control enabled in production enable, in Production/Enterprise Mix.	Not required to change


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
19	Perimeter Firewall	91	13	General Feature(2 Gbps or more NGFW throughput)	The proposed solution must have 1.5 Gbps or more NGFW throughput (IPS and Application Control enabled in production enable, in Production/Enterprise Mix.	Not required to change
20	Perimeter Firewall	91	13	General Feature(concurrent connections)	The proposed appliance should have 2,000,000 or more concurrent connections. (should be 150,000 or more connections per second)	Not required to change
21	Perimeter Firewall	91	13	General Feature(connections per second)	The proposed appliance should have 50,000 or more connections per second.	Not required to change
22	Perimeter Firewall	92	13	General Feature(Token Server with no added cost.)	Request to remove it: Specific to one OEM	Not specific to one OEM ,Not required to change

Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
23	Perimeter Firewall	92	13	VPN Features(VPN throughput of 10Gbps)	The proposed appliance must have VPN throughput of 4Gbps or more	Not required to change
24	Perimeter Firewall	92	13	VPN Features(400 or more SSL VPN users)	It's a license base feature do AMIS really required the same of that number 400	It is required
25	Perimeter Firewall	93	13	IPS Requirements(IPS throughput of 5 Gbps or more)	The proposed appliance should have IPS throughput of 3 Gbps or more	Not required to change


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
26	Perimeter Firewall	93	13	Other Security Requirements (network vulnerability scanning feature)	Request to remove it: Specific to one OEM	Not specific to single OEM.
27	Perimeter Firewall	94	13	Industry Certification(I CSA Labs Certified Firewall/IPS/A ntivirus)	ICSA Labs Certified/FCC/RoHS Compliance	ICSA is required
28	Raid Controller	where applicable			most of RAID Controller comes with 4 GB cache, look like vender specific(Bidders justification: 8 GB cache seems very high)	8 GB Battery Backup Cache is available.
29	Bus slots	where applicable			Totally Vender specific, most of server comes with upto 7 PCI slots.	Eight PCI-Express slots are available.

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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
30	Industry Standard Compliance	where applicable		ACPI 2.0b Compliant, PCI 2.2 Compliant, Microsoft Logo Certifications, SMBIOS 2.6.1, ISO 9001 Certified	Totally Vendor specific standard compliance.	Not vendor specific.
31	Host Ports and back-end ports	where applicable		At least 2 number of 10Gbps Network port per enclosure upgradeable to 10Gbps iSCSI port.	Please explain what does it mean, and what is the uses of these ports.	Provided information is enough.


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32	Host Ports and back-end ports	where applicable		Simultaneous multi-protocol (FC, SAS, iSCSI) support available with optional upgrade or by default.	Vendor specific.	Not vendor specific.
33	Host Ports and back-end ports	where applicable		2 x SAS port per controller for expansion offered	2 x SAS ports for expansion is offered by limited OEM, most OEM offered 1 x SAS port. Partially vendor specific.	Not vendor specific.
34	Host Ports and back-end ports	where applicable		Offered storage array shall have minimum of 4 device port or 8 SAS lane for server and disk connectivity.	Are you talking about internal drive connectivity. If not please explain what does it mean.	Provided information is enough.


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
35	SAN Storage	where applicable		Cache	Offered storage array shall be given with Minimum of 16 GB cache per controller(Why reduced to 16 GB as it was 64 GB in the previous bid documents)	Provided cache value is enough for our system.
36	Perimeter Firewall, Internal firewall	91,95	13,14	General features	The proposed solution must be in the 'Leaders' Quadrant in latest Gartner's Magic Quadrant for Enterprise Firewall or UTM.(UTM should not be included here)	Its either UTM or Enterprise firewall for our purpose
37	Servers	where applicable		Bays	Minimum 8 internal HDD bays scalable to 24 bays(Scalable to 16 bays should be enough)	Scalable to 24 bays is our requirement.
38	Perimeter Firewall	93	13	Other Security Requirements	The Proposed Appliance should have sandboxing feature for threat emulation to protect against zero day attacks. (Seems vendor specific)	It is our requirement.


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
39	Internal firewall	95	14	Hardware feature	The Firewalls should be Hardware based, Reliable, purpose-built security appliance with multicore CPU Architecture with hardened 64 bit operating system that eliminates the security risks associated with generalpurpose operating systems with 12 No's of GE RJ45 Interfaces and 2 No's of GE SFP Slots (It should be 8 No's of GE RJ45 Interfaces and 4 No's of GE SFP Slots)	12 GE RJ45 and 2 GE SFP is our requirement.
40	Internal firewall	95	14	Hardware features	Firewall throughput of at least 15 Gbps(It should be 20 Gbps)	15 Gbps is enough for our requirement.
41	Internal firewall	95	14	Hardware features	VPN Throughput of Up to 800 Mbps or Higher(VPN Throughput of Up to 2 Gbps or Higher)	No need to change.
42	Internal firewall	95	14	Hardware features	Concurrent Sessions of at least 400,000 (Concurrent Sessions of at least 3 million and upgradable to 12 million)	No need to change.


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43	Internal firewall	100	14	Flexibility Management Services	Support for Built-in Management Software for simple, secure remote management of the security appliances through integrated, Web-based GUI (should be Web-based/GUI application through management appliance.)	No need to change.
44	Internal firewall	100	14	Flexibility Management Services	Should provide a wide range of informative, real-time, and historical reports that give critical insight into usage trends, performance baselines and events. (through management appliance.)	No need to change.
45	DMZ Switch	104	16	Hardware Architecture	4 x GE SFP+ slots (should be 8 x GE SFP+ slots)	No need to upgrade
46	server load balancer	107	18	Performance and Reliability	Each box must deliver at least 3 Gbps performance for all related to traffic functionalities (should be 4.5 Gbps)	No need to upgrade
47	server load balancer	108	18	Network functionality	4x10/100/1000 interface support (should be 8x10/100/1000 interface support)	No need to upgrade


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
48	HSM	106	17	Signing speed	Signing speed : 2000 S/S (should be changed to 1700 s/s or higher)	It is our requirement. No need to change.
49	SAN Storage	101	15	Capacity & Scalability	The storage array shall be offered with 30 x 600 GB 15K RPM SAS / FC Drives. Storage shall be scalable to minimum of 190 numbers of drives.(minimum 24 x 600 GB 10K RPM SAS / FC Drives. Storage shall be scalable to minimum of 180 numbers of drives.)	It is our requirement. No need to change.


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Sr No	Description of Goods	Page No.	Item No.	Particulars	Bidders query	Response from the purchaser
50	SAN Storage	103	15	Performance and Other Management Software	Vendor shall also offer the performance management software for Storage Array. Storage subsystem shall be offered with Thin Provisioning software and License for the completed offered capacity. Storage subsystem shall support non-distructive online volume migration from one tier to another tier and from one raid set to another raid-set without any interruption into host operations.(All the software should be bundled for entire future capacity of the storage. No software procurement for this storage in future for all upgrades)	It is our requirement. No need to change.
51	NAS Storage	89	12	System Processor	Intel octa Core E5 V4 @1.7 GHz with 20MB L3 Cache or higher(should be Broadwell-DE 2 x 64-bit hexa-core , 1.9GHz)	No need to change
52	NAS Storage	89	12	Memory	16 GB DDR4 RAM upgradeable up to 256 GB or higher(should be 64 GB DDR4 RAM or higher)	No need to change

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53	NAS Storage	89	12	Expansion Units	Should support expansion unit scalable upto 200TB with SAS/SASNL drives(should be Scalable to 1 PB in scale out mode)	No need to change
54	NAS Storage	89	12	Max Storage Capacity	96 TB or higher(Storage in HA config should scale to 144 drives)	No need to change
55	NAS Storage	89	12	protocols	TCP/IP, ISCSI, FTP, FTPS, CIFS/SMB 3.1.1, HTTP, HTTPS, NFS 4.1 etc.(should be Storage Protocols Supported FC; FCoE; iSCSI; NFS; pNFS; CIFS/SMB)	No need to change
56	NAS Storage	89	12	system features	Cool / Quiet System Fan Mode Should support Schedule power ON/OFF feature Wake Up on LAN/WAN Feature(redundant hot-swappable controllers, cooling fans, and power supplies)	No need to change


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57	perimeter firewall	91	13	General features	The proposed solution must have 2 Gbps or more Threat Prevention throughput (IPS , Application Control and Malware protection enabled, in Production/ Enterprise Mix) (should be 1.7 Gbps)	2Gbps is our requirement
58	perimeter firewall	92	13	vpn features	The Proposed Appliance must have VPN throughput of 3 Gbps or more (should be 2 Gbps)	No need to change
59	perimeter firewall	93	13	IPS Requirements	The Proposed Appliance should have IPS throughput of 2 Gbps or more (should be 3.5Gbps)	No need to change
60	All servers			Bus slots	Up to eight PCI-Express slots or Better(request to change to six PCI-Express slots or Better)	It is our requirement. No need to change.
61	All servers			Bays	Minimum 8 internal HOD bays scalable to 24 bays(change it to 16 bays as it is a standard no. of bays)	It is our requirement. No need to change.



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62	All servers			Hard Disk Drives	4 x 480GB SSD SAS 12Gbps 512n 2.5in Hot-plug Drive or higher, Maximum Storage should su I2Qort uQt 0 99 TB(it should be Maximum Storage to 64 TB)	It is our requirement. No need to change.



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Project Director
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