Integral Part of Bidding Document

Leveraging ICT for Growth, Employment & Governance Project
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Information and Communication Technology Division
Ministry of Posts, Telecommunications and Information Technology
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RFB No 56.109.007.0000.87.2018-1047   Date: 14 October 2018

1ˢᵗ Addendum of Bidding Document

This is for the information of all concerned bidders that the following amendments have been made of the bidding document in pursuant to ITB clause 8 of bidding document for "Supply, Installation and Commissioning of Cloud Computing Platform in National Data Center (Package # AF-G8)":

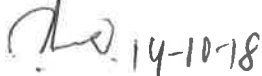| Bid Document Reference	As in Bid Document	As Amended
Page-125, Manageability -Rack Server for Manage Node	Touch-screen LCD	Deleted (Not Required).
Page 128, Rack Server for Managed Node (Brand)	Must be an internationally reputed brand to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.
Page131, Rack Server for Network Node (Brand)	Must be an internationally reputed brand to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.
Page-131, Rack Server for Manage Node (PCIe)	The server supports minimum 10 PCIe Slots	The server supports minimum 8 PCIe Slots
Page-131, Rack Server for Manage Node (Integrated video card)	Integrated video card for standard configuration 32 MB display memory with the resolution 1920 x 1200	Integrated video card for standard configuration 16 MB display memory with the resolution 1920 x 1200
Page-131, Rack Server for Manage Node (Operating temperature)	Long-term operating temperature: 5°C to 45°C (41°F to 113°F)	Long-term operating temperature: Such as 5°C to 45°C (41°F to 113°F).
Page-132, Manageability - Rack Server for Network Node	Touch-screen LCD	Deleted (Not Required).
Page 134, Rack Server for Backup Node (Brand)	Must be internationally reputed brand to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.

Bid Document Reference	As in Bid Document	As Amended
Page-134, Rack Server for Backup Node (PCIe)	The server supports minimum 10 PCIe Slots	The server supports minimum 8 PCIe Slots
Page-134, Rack Server for Backup Node (Integrated video card)	Integrated video card for standard configuration 32 MB display memory with the resolution 1920 x 1200	Integrated video card for standard configuration 16 MB display memory with the resolution 1920 x 1200
Page-134, Rack Server for Backup Node (Operating temperature)	Long-term operating temperature: 5°C to 45°C (41°F to 113°F)	Long-term operating temperature: Such as 5°C to 45°C (41°F to 113°F).
Page-134, Manageability - Rack Server for Backup Node	Touch-screen LCD	Deleted (Not Required).
Page 137, Blade Server for Computing Node (2 socket) (Brand)	Must be an internationally reputed brand and to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.
Page-137, Blade Server for Computing Node (2 socket) (Operating temperature 4.13)	5°C to 40°C	Such as 5°C to 40°C
Page-137, Blade Server for Computing Node (4 socket) (Operating temperature 5.13)	5°C to 40°C	Such as 5°C to 40°C
Page 139, Blade Server for Computing Node (4 socket) (Brand)	Must be an internationally reputed brand and to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.
Page- 139, Blade Server for Computing Node (4 socket) 5.10 RAID Support	RAID Card, RAID 0,1,1E,10,12Gb/s	Deleted (Not Required).
Page 140, Blade Server Chassis (Brand)	Must be an internationally reputed brand and to be mentioned by the tender	Replaced the text as: Must be an internationally reputed brand and recognized as in Gartner's Magic Quadrant.
Page- 140, Blade Server Chassis. 6.7 Processor	Chassis should support multi-generation Intel processors simultaneously. Include Romley, Grantley, Brickley and Purley.	Chassis should support multi-generation Intel processors simultaneously.
Page- 141, Blade Server Chassis. 6.16 PSU	Provide no less than 6 (six) hot-swappable, redundant AC PSUs with a	Provide no less than 6 (six) hot-swappable, redundant AC PSUs with N+N & N+1 Redundancy

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	rated power of 3000 W or higher in full configuration N+N Redundancy 80 Plus Platinum PSU Power efficiency	80 Plus Platinum PSU Power efficiency
Page- 141, Blade Server Chassis. 6.18 Environment	Operating temperature 5°C to 40°C, energy saving and environment friendliness	Operating temperature such as 5°C to 40°C, energy saving and environment friendliness
Page- 143, Production storage at DC 7.12 RAID	Offered storage system shall support RAID 1, RAID 3, RAID 10, RAID 50, RAID 5 and RAID 6.	Offered storage system shall support RAID 1, RAID 10, RAID 5 and RAID 6
Page- 144, Production storage at DC 7.21 Replication	Provide remote replication function with full capacity software license, provides Fibre Channel– and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer (the interval must not be longer than 5 seconds).	Provide remote replication function with full capacity software license, provides Fibre Channel- and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer
Page- 144, Production storage at DC 7.22 Compatibility	The new storage should integrate the existing storage.	The new storage should integrate existing storage through heterogeneous virtualization function
Page- 146, Production storage at Disaster Recovery Site at Jessore 8.12 RAID	Offered storage system shall support RAID 1, RAID 3, RAID 10, RAID 50, RAID 5 and RAID 6.	Offered storage system shall support RAID 1, RAID 10, RAID 5 and RAID 6
Page- 147, Production storage at Disaster Recovery Site at Jessore 8.21 Replication	Provide remote replication function with full capacity software license, provides Fibre Channel– and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer (the interval must not be longer than 5 seconds).	Provide remote replication function with full capacity software license, provides Fibre Channel- and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer
Page- 147, Production storage at Disaster Recovery Site at Jessore 8.22 Compatibilit	The new storage should integrate the existing storage.	The new storage should integrate with existing storage through heterogeneous virtualization function
Page-148, Backup Storage , 9.10 Raid	The Storage array should support Controller based RAID Levels: RAID 1, RAID 3, RAID 10, RAID 50, RAID 5, and RAID 6	Offered storage system shall support RAID 1, RAID 10, RAID 5 and RAID 6
Page-149, Backup Storage , 9.15 Data Reconstruction	The storage array should support hot spare space to remove the special spare disks that was reconstruction bottleneck. The data reconstruction speed should no less than 1TB/hour.	Deleted (Not Required).
Page-149, Backup	The storage device should support	The storage device should support

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Storage , 9.16 LUN Support	minimum 2048 LUN.	minimum 2048 LUN/Initiators
Page-149, Backup Storage , 9.20 Multipathing Driver	Multipathing driver developed by the storage vendor should be provided along with the storage device for the maximum nos. of supported host connectivity. It should optimize access path, provides fault switchover and load balancing.	Multipathing driver is developed by the storage vendor. Native Tool that comes with Host Operating system should be provided along with the storage device for the maximum numbers of supported host connectivities. It should optimize access path, and provide fault switchover and load balancing
Page-149, Backup Storage , 9.21 Snapshot	1. Should provide with point in time snapshots function with full capacity software license. Support up to 4000 such snapshots should be possible.	1. Should provide with point in time snapshots function with full capacity software license. Support up to 1000 such snapshots should be possible.
Page-150, Backup Storage , 9.24 Remote Replication	Provide remote replication function with full capacity software license, provides Fibre Channel and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer (the interval must not be longer than 5 seconds).	Provide remote replication function with full capacity software license that provides Fibre Channel and IP-based replication, and offers a GUI-based management page to allow users to customize intervals for remote, asynchronous data transfer.
Page-150, Backup Storage , 9.27 Compatibility and Certification	CCC, CE, CB, UL, and FCC certificates are needed.	CCC, CE, CB, UL, and FCC or similar standard certificates are needed.
Page-151, FC SAN Switch for DC , 10.13 Scalability	Full fabric architecture with a maximum of 239 switches	Full Fabric architecture
Page -152, FC SAN Switch for DR Disaster Recovery Site at Jessore 11.12-Frame Buffer	8,1102 frames dynamically assigned	8192 frames dynamically assigned.
Page -153, Virtualization Software (120 CPU) 12.5 Qualification	Bidders must be mainstream VM vendors and members of Gartner's Magic Quadrant for x86 server virtualization.	Deleted (Not Required).
Page -159, Cloud Management Software, 11.17	Automating cloud resource consumption tracking and spend is a critical Cloud Management software capability. Accurate, real-time analysis and reporting along with predictive analytics is required to contain cost. Financial capability includes Metering (which is covered in the bid document), cost allocation, chargeback, invoicing and forecasting.	Replaced the text as: The solution must have option for the purchaser to connect 3rd party solution for invoicing.

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Page -159, Cloud Management Software, 11.17a	On cost allocation - Allocation of cost to specific departments or organizations is a key requirement. Cost allocation definition should be configurable to meet an organization's cost center structure.	On cost allocation - Allocation cost to specific departments or organizations is a key requirement. Cost allocation definition should be configurable to meet and organization's cost center structure. The platform should provide the following resources usage analysis of each organization: 1. Random Access Memory 2. Production Storage 3. CPU utilization 4. Internet Bandwidth 5. Backup Storage 6. Backup Service 7. Security Service 8. Network Service
Page -159, Cloud Management Software, 11.17b	On Chargeback – The software must present chargeback reports to internal stakeholders. These reports should provide aggregate spend along with detailed drill-down of consumption and rates by resource group and elements. The chargeback process includes receiving and reviewing the invoice.	Replaced the text as: The solution must have option for the purchaser to connect 3rd party solution for invoicing.
Page -160, Cloud Management Software, 11.17c	On Invoicing – Invoicing extends chargeback functionality to create customer invoices. This capability is needed for service providers but also applies to IT organizations that must invoice internal customers. Multi-currency support and integration with billing system is a consideration for invoicing.	Replaced the text as: The solution must have API to configure invoicing module by the purchaser.
Page-160, Cloud Management Software: 11.17d	Forecasting – The software should enable forecasting spend associated with currently deployed cloud resources and services. This includes performing "what-if" analysis to determine the financial impact of scaling up/down as demand changes.	Deleted (Not Required).
Page-162: Backup Software	Not in bidding document	To be added in bidding document: 14.4.1: The bidder should provide one additional rack server for backup software. The minimum specification requirement is as follows: CPU: 2 x Intel Xeon Gold 5120

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		Memory: 128GB DDR4 Disk: 2 x 1.2 TB SAS HDD and 4 x 800G SAS SSD Port: 4 x 10GE , 4 x 16GbFC OS: As per solution requirement
Page-166, (15. Civil and Interior work for Reception and Lounge)	Sl. No. 15.18 - Bag Scanner	Deleted. (Not required).
Page-179, Steel Truss structure and Air conditioned enclosure for Battery installation 20.4 Electrical	Sufficient lighting and few socket outlet	Sufficient lighting and few socket outlet for the area 8'-0"x40'-0"

14-10-18

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