भारतीय जीवन बीमा निगम
LIFE INSURANCE CORPORATION OF INDIA

Information Technology – Central Office, 'Yogakshema', Jeevan Bima Marg, P.B.No.19953, Mumbai- 400021,
Tel: (022)22841109, 66598675,Fax : (022)22851915, Email : ed_itbpr@licindia.com

REF: CO/IT-BPR/HW/COCLD-CORR-I **Date: 15/11/2017**

RFP Ref: LIC/CO/IT-BPR/HW/CO-CLOUD/17-18/04 Dated: 23/10/2017
CORRIGENDUM – I

Following clarification is being issued under the above referred RFP. The bidders to note that this clarification shall form an integral part of the above referred RFP and resulting contracts, if any.

RFP Related

SLNO	Clause ref.	Clause (in brief) of RFP requiring clarification(s)	Points of Clarification referred by Bidders	LIC Clarification/modification in clause (highlighted in bold)
1	Eligibility Criteria Pt no 6. Page 24	Bidder/OEM must have implemented HCI/Private Cloud solution of proposed OEM in at least 2 BFSI/PSU/Corporate (Company Turnover of Rs 500 Cr or more, if Corporate) with a total PO of Rs 20 Crores for supply of HCI/Integrated Systems/Cloud Solution in India during the last three financial years (i.e., 2016-17, 2015-16, 2014-2015).	Bidder/OEM must have implemented HCI/Private Cloud solution in at least 1 BFSI/PSU/Corporate (Company Turnover of Rs 50 Cr or more, if Corporate) for supply of HCI/Integrated Systems/Cloud Solution in India during the last three financial years (i.e., 2016-17, 2015-16, 2014-2015).	**Bidder/OEM must have implemented HCI/Cloud solution of OEM in at least 2 BFSI/PSU/Govt./Corporate (Company Turnover of Rs 200 Cr or more, if Corporate), with total PO value of at least Rs 10 Crores (min 2 references; Multiple POs from 2 or more references may be clubbed) for supply/implementationof HCI/Cloud Solution/Integrated Systems in India during the last three financial years,i.e., 2016-17, 2015-16, 2014-2015.**
2	Section - G/ ELIGIBILITY CRITERIA/ Page-24	The Bidder should be in a business of supply, delivery, installation, configuration, maintenance and support of HCI/Virtualization and StorageSolution/Integrated Systems in India for the last three Financial Years, i.e., 2016-17, 2015-16, 2014-15.	The Bidder should be in a business of supply, delivery, installation, configuration, maintenance and support of Private Cloud, HCI/Virtualization and Storage Solution/Integrated Systems in India for the last three Financial Years, i.e., 2016-17, 2015-16, 2014-15.	The Bidder should be in a business of supply, delivery, installation, configuration, maintenance and support of **HCI/Cloud Solution/Integrated Systems/Virtualization/Enterprise StorageSolution** in India for the last three Financial Years, i.e., 2016-17, 2015-16, 2014-15.
3	Section - 14 /Deliverables and Timelines/Table-E/Page-35	Delivery(Hardware and Software): 45 Days Installation(Hardware and Software): 30 Days	For migration of data from local to cloud will need more time hence assumed 30 days only for installation of Hardware & Software.	Table –E

<table>
<tr><td></td><td></td><td></td><td></td><td>
<table>
<tr><td colspan="2">Delivery and Installation period</td><td>Penalty for delay in Delivery and Installation beyond 110 days* (per Day of cost of undelivered item)</td><td>Maximum Penalty</td></tr>
<tr><td>Delivery (Hardware and Software):</td><td>50 days</td><td rowspan="2">@ 0.2% for delay up to 15 days and then @ 1.0%</td><td rowspan="2">20% of the Hardware Cost</td></tr>
<tr><td>Installation and Migration (Hardware and Software):</td><td>60 days</td></tr>
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</td></tr>
<tr><td>4</td><td>Page -20</td><td>The Bidder is expected to provide end-to-end solution for the project which willcover, but not limited to, supply, installation, implementation, migration/ integration, testing, training& certification, support and monitoring the solution during the warranty and AMC period.</td><td>Should not consider the certification of candidate in to the Scope of Work. Vendor only held responsible to provide the training on to the proposed solution.</td><td>The Bidder is expected to provide end-to-end solution for the project which will cover, but not limited to, supply, installation, implementation, migration/ integration, testing, training & support for obtaining Certification(if required, for LIC nominated officials), support and monitoring the solution during the warranty and AMC period.</td></tr>
<tr><td>5</td><td>Page-11</td><td>EMD Table
By way of Demand Draft:- Rs. 15,00,000/-
By way of Bank Guarantee:-Rs. 25,00,000/-</td><td>Request you to consider By way of Demand Draft:- Rs. 5,00,000/-
By way of Bank Guarantee:-Rs. 10,00,000/-</td><td>
<table>
<tr><td>By way of Demand Draft</td><td>Rs. 10,00,000/-</td></tr>
<tr><td>By way of Bank Guarantee</td><td>Rs. 15,00,000/-</td></tr>
<tr><td>Total EMD Amount</td><td>Rs. 25,00,000/-</td></tr>
</table>
</td></tr>
<tr><td>6</td><td>Page-32</td><td>A Performance Bank Guarantee (as per Annexure VI-B) to the tune of 15 % of the Grand Total Cost, shall be submitted by the selected Vendor, as Performance Bank Guarantee (PBG) for the equipment(s) supplied/ Services</td><td>A Performance Bank Guarantee (as per Annexure VI-B) to the tune of 5 % of the Grand Total Cost, shall be submitted by the selected Vendor, as Performance Bank Guarantee (PBG) for the equipment(s) supplied/ Services offered against this RFP.</td><td>A Performance Bank Guarantee (as per Annexure VI-B) to the tune of 10 % of the Grand Total Cost, shall be submitted by the selected Vendor, as Performance Bank Guarantee (PBG) for the equipment(s) supplied/ Services offered against this RFP.</td></tr>
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<tr><td></td><td></td><td>offered against this RFP.</td><td></td><td></td></tr>
<tr><td>7</td><td>Page-39</td><td>Critical Level1 Incident-1 hr.-Entire HCI Setup /Environment is not available
Critical Level2 Incident--4 hrs.--Few Nodes are not available, to ensure availability
of Critical VM, some VM had to be shut down.</td><td>Critical Level1 Incident-6 hr.-Entire HCI Setup /Environment is not available
Critical Level2 Incident--8 hrs.--Few Nodes are not available, to ensure availability
of Critical VM, some VM had to be shut down.</td><td><table><tr><th>Level Of Incident</th><th>Time (hrs.)</th><th>Description</th></tr><tr><td>Critical Level 1 Incident</td><td>2 hrs.</td><td>Entire HCI Setup /Environment is not available</td></tr></table>PS : Critical Level 2 and 3 Incidents shall remain same as mentioned in Clause K.1.c</td></tr>
<tr><td>8</td><td>Page-39</td><td>>Six hours up to eight hours-Rs.10000 per hour or part thereof
> Eight hours up to twelve hours-Rs. 20000 per hour or part thereof
> Twelve hours up to twenty four Hours- Rs. 50000 per hour or partthereof
> Twenty four hours-Rs. 100000 per hour or partthereof</td><td>>Six hours up to eight hours-Rs.1000 per hour or part thereof
> Eight hours up to twelve hours-Rs. 2000 per hour or part thereof
> Twelve hours up to twenty four Hours- Rs. 3000 per hour or part thereof
> Twenty four hours-Rs. 4000 per hour or partthereof</td><td><table><tr><th>Sr No</th><th>Period of delay</th><th>Penalty amount</th></tr><tr><td>1</td><td>>Six hours up to eight hours</td><td>Rs.5000 per hour or part thereof</td></tr><tr><td>2</td><td>> Eight hours up to twelve hours</td><td>Rs.10000 per hour or part thereof</td></tr><tr><td>3</td><td>> Twelve hours up to twenty four hours</td><td>Rs. 20000 per hour or part thereof</td></tr><tr><td>4</td><td>> Twenty four hours</td><td>Rs. 30000 per hour or part thereof</td></tr></table></td></tr>
<tr><td>9</td><td>Page-36</td><td>40 %-Delivery, 40 % - Installation, 20 % - after six months</td><td>Consider 70 % against delivery, 30 % against installation</td><td>d) 50% of the payment will be made on delivery of the Hardware and submission of Invoice cum delivery Challan duly printed on the vendor's own letter head, which should contain description of hardware and machine serial numbers invariably and signed by LIC's officials with name, designation, date and stamp and Octroi receipt (if any) or the Delivery Report (DR) which is generated online from LIC's Module and Octroi receipt (if any).
f) Balance 10% after six months from the date of issuance of certificate of successful commissioning and implementation of the project.</td></tr>
<tr><td></td><td>Page-23</td><td>Immediately thereafter the engineer will be called for an interview by LIC and if rejected, vendor will have to provide an alternate candidate within a period of 7 days. If the alternate candidate is not provided</td><td>Penalty need to reduce from 5 to .5%</td><td>Immediately thereafter the engineer will be called for an interview by LIC and if rejected, vendor will have to provide an alternate candidate within a period of 7 days. If the alternate candidate is not provided within 7 days, a penalty of 2% per day of the L2 engineer's monthly rate approved by LIC will become applicable. If the second candidate also fails penalty @ 2% per day of the L2 engineer's monthly rate approved by LIC, will be recovered. The selected engineer has to report to the LIC Central Office, Mumbai within 1 weeks of</td></tr>
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<table>
<tr><td></td><td></td><td>within 7 days, a penalty of 5% per day of the L2 engineer's monthly rate approved by LIC will become applicable. If the second candidate also fails penalty @ 5% per day of the L2 engineer's monthly rate approved by LIC, will be recovered. The selected engineer has to report to the LIC Central Office, Mumbai within 2 weeks of being intimated of the selection.</td><td></td><td>being intimated of the selection.</td></tr>
<tr><td>10</td><td>Page-42</td><td>Table 2 -@ 5% per day of the engineer's monthlyrate approved by LIC</td><td>Penalty need to reduce from 5 to .5%</td><td><u>Table-2</u>:Penalties regarding onsite L2 engineers
<table>
<tr><th>Sl. No</th><th>Description of the item</th><th>Penalty applicable</th></tr>
<tr><td>1</td><td>If the candidate engineer called for interview is not found to be suitable, vendor will have to provide an alternate candidate within a period of 7 days. If not provided then penalty will be imposed till the candidate is provided.

Additionally, if the second candidate is not found suitable, and fails then penalty will be imposed till the selection and deputation of the subsequent L2 engineer.</td><td>@ 2% per day of the engineer's monthly rate approved by LIC</td></tr>
</table></td></tr>
</table>

				2	The on-site Engineer should be present in LIC's premises as per the RFP conditions. In case of a person going on leave, suitable replacement shall be provided for that period. If not provided then, penalty will be imposed	@ **2%** per day of the engineer's monthly rate approved by LIC
				3	**No Change In Rate of Penalty**	
				4	In case the engineer is to be changed by the Vendor, minimum of one month (30 days) advance notice shall be given by the vendor to LIC. Additionally, an overlapping period of at least 21 days has to be there between the new and old engineer. If not done, penalty will be imposed.	@ **2%** per day of the engineer's monthly rate approved by LIC
11	H.2. Page 26	Criteria For Technical Evaluation		**<u>Modified as Per Table –A Below</u>**		
12	Pg-9,10 Bid Submission/ Eligibility Bid opening	Bid Submission Date & Time Eligibility Bid Opening date/time/venue	Bid Submission to be extended by few days	**On 12/12/2017 latest by 3.30 p.m.** The Eligibility Bids will be opened by the Tender opening committee of LIC in the presence of the bidders' representatives who choose to attend, at the above mentioned address, on **12/12/2017 at 4.00 p.m.**		

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Table-A

Criteria for Technical Evaluation –

a) The Technical evaluation of bids will be done as per clause **H.1 and H.2(as per the technical scoring model tabulated below in the RFP and the subsequent corrigenda).** The bidder should enclose relevant documents as per the requirement of technical evaluation. The bidders getting **70% or more points** shall be declared successful to be eligible for conducting POC. If less than 3 bidders score more than or equal to 70%, LIC may, at its sole discretion, relax the score to allow more participation of bidders in the next stage of Evaluation, ie, POC.

TABLE – Technical Scoring Model Criteria

SLNO	Criterion	Points	
		Item	Value
1	Whether proposed hypervisor is present in latest available Gartner's magic quadrant for x86 virtualization infrastructure.	Leaders	10
		Challengers	5
		Others	0
2	Whether proposed Hyper converged infrastructure solution is present in latest available Gartner's magic quadrant for Integrated Systems.	Leaders	10
		Challengers	5
3	Whether proposed Hyper converged infrastructure solution supports multiple hypervisors.	If yes	5
4	Whether proposed de-duplication and disk to disk backup hardware/software solution is present in the Leader/ Challenger quadrant of latest and respective Gartner magic quadrant. In case bidder is quoting Netvault backup solution, only hardware part of the solution should be present in the Leader/ Challenger quadrant of latest and respective Gartner magic quadrant.(The bidder proposing Netvault backup solution will get 5 points for backup software)	Leader(backup hardware)	5
		Challenger(backup hardware)	3
		Leader(backup software)	5
		Challenger(backup software)	3
5	Average Turnover for the last 3 Financial Years(Eligibility Criteria(EC) Rs 50 Cr ; **EC - G.2**)	Turnover(>200 Cr)	10
		Turnover(50-200 Cr)	5
6	Partnership with OEM(Minimum 1 Year ; **EC – G.5**)	>1 Yr	5
		1 Yr	3
7	Whether proposed tape library is present in latest and respective Gartner's magic quadrant for tape library.	Leader	5
		Challenger	3

8	Whether proposed top of rack switch and 16 port 10G SFP switch is present in the latest and respective Gartner's magic quadrant for ToR switch and 10G SFP switch.	Leader(TOR switch)	5
		Challenger(TOR switch)	3
		Leader(10g SFP switch)	5
		Challenger(10g SFP switch)	3
9	The proposed solution should be able to scale up by adding more capacity in terms of memory and disk, similarly the solution should be able to scale out by adding more nodes for increasing compute power and storage capacity.	Scale up **and** scale out capacity	10
		Scale up **or** scale out capacity	5
10	References of proposed Solution implementation in India(Minimum 2 References required ; **EC** – **G.6**)	>2 Ref	5
		2 Ref	3
11	Total Purchase Order(Rs 10 Cr from minimum 2 implementations ; **EC - G.6**)	>20 Cr	5
		10-20 Cr	3
12	Ratings given by the reference companies, where similar HCI based Virtualization/ Cloud Solution was implemented successfully by the bidder, such Virtualized/Cloud setup needs to be currently being maintained by the bidder. The references of only BFSI/Government departments/PSU companies will be considered, where at least, three nodes are configured at two different sites working as DC-DR. There should be at least three such references. The average of all the three references will be taken for consideration.	Very Good Rating	15
		Good Rating	10
		Average Rating	5
		Below Average Rating	-10

b) All eligible and technically qualified bidders(after clause **H.1 and H.2.a**) will be allowed to conduct POC at the LIC premises. The details will be informed to the eligible bidders at appropriate time before POC. There are ten objectives of the POC**(tabulated below)**. All the objectives should be successfully achieved and demonstrated before the technical team from LIC to become eligible for Commercial Evaluation.

3. Commercial Bid Evaluation: Commercial Bid Opening and ORA:

a) The Commercial opening will be done for the successful bidders after the Technical Bid Evaluation (**H.1** and **H.2** above). The rules of the ORA will be shared with the eligible bidders subsequently after the opening of the Commercial Bid for the Online Reverse Auction process.

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TABLE – POC Criteria

SLNO	POC Criterion to be demonstrated by the bidder	Pass / Fail
1	Setting up the two nodes of Cloud as DC and two nodes as DR in same LIC premises. The network bandwidth needs to be throttled to simulate the DC-DR setup.	
2	Migration of sample physical workload(remote and local) to virtual and demonstrate successful working of the original workload on the virtual setup.	
3	Deploy Cloud management portal and demonstrate provisioning of resources.	
4	Testing high availability of running database VM by removing network cable, Demonstrate VM motion from one node to other without any data loss.	
5	Testing Disaster recovery management by stopping DC set of VM's and transferring user load from DC to DR set of VM's.	
6	Testing full database backup using D2D appliance and tape library.	
7	Demonstrate active monitoring of VM's by single management interface.	
8	Addition/deletion of CPU, memory and disk to running VM.	
9	Demonstrate patch deployment of web and app VM's without taking downtime.	
10	Demonstrate role-based workflow creation from requisition of resource to disposal.	

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Technical

SL No.	Query Related to	Existing Specification	Suggestion for Modification	Corrigendum
1	pt. 5	Per Node/Server specifications - Minimum of 2 x 18 core CPUs of latest generation Intel Xeon E5 family or higher Minimum of 256 GB RAM or higher Minimum of 2*1 Gbps NICs Minimum of 2*10 Gbps SFP Ports	Per Node/Server specifications - Minimum of 2 x 18 core CPUs of latest generation Intel Skylake Minimum of 256 GB RAM or higher Minimum of 2*1 Gbps NICs Minimum of 2*10 Gbps SFP Ports The above CPU and memory are for the functioning of LIC applications. Bidder is expected to quote a higher CPU and higher memory for the overheads of the HCI software.	Per Node/Server**(Enterprise Class)** specifications - Minimum of 2 x 18 core CPUs of latest generation **Intel Skylake based processor** Minimum of 256 GB RAM**(DDR4)** or higher Minimum of 2 x 1 Gbps NICs Minimum of 2 x 10 Gbps SFP Ports **[Overheads of management and system setup to be taken care of separately]**
2	pt. 6	The usable resource requirement in each site, at least, 1) 180 physical cores, 2) 2 TB RAM, 3) 60 TB Usable Space with All Flash storage (Enterprise Class) , 4) Minimum IOPS required for Application is 1,00,000 (expected Read Write Ratio of 60:40)	The usable resource requirement in each site, at least, 1) 180 physical cores, 2) 2 TB RAM, 3) 60 TB Usable Space with All Flash storage (without taking into account dedup and compression) 4) Minimum IOPS required for Application is 1,00,000 (expected Read Write Ratio of 60:40) with a sub 5ms storage latency	The usable resource requirement**(exclusive of management and system overheads)** in each site, at least, 1) 180 physical cores, 2) 2 TB RAM, 3) 60 TB Usable Space with All Flash storage (Enterprise Class **; without de-duplication and compression**), 4) Minimum IOPS required for Application is 1,00,000 (expected Read Write Ratio of 60:40)

3	pt. 10	The proposed solution should be based on virtualization of physical hardware and distribution of workload over different virtual machines. The solution should not insist on specific type of hardware or hypervisor and, if required, LIC should be able to use the core part of solution on any virtualization technology on suitable hardware.	The proposed solution should be based on virtualization of physical hardware and distribution of workload over different virtual machines. The solution should have a single point of support for both hardware and software from the same OEM"	The proposed solution should be based on virtualization of physical hardware and distribution of workload over different virtual machines. LIC should be able to use the core part of solution on any virtualization technology on suitable hardware, **if required.**
4	pt. 17	The solution shall provide zero-downtime, zero-data loss continuous availability against physical host failures. This fault tolerance should be offered without any dependency on the guest operating system.	The solution shall provide zero-downtime, zero-data loss continuous availability against physical host failures. This fault tolerance should be offered without any dependency on the guest operating system. The HCI solution should also store a redundant copy of the data which is accessible immediately by the Hypervisor and application.	The solution shall provide zero-downtime, zero-data loss continuous availability against physical host failures. This fault tolerance should be offered without any dependency on the guest operating system. **The HCI solution should also store a redundant copy of the data which is accessible immediatelyby the Hypervisor and application.**

5	pt. 19	The proposed solution should be able to inter-operate with other existing ecosystem in the data-center.	The proposed solution should be able to inter-operate with other existing ecosystem in the data-center. The solution should also be able to integrate with existing storages via protocols like FC,NFS, iSCSI etc.	The proposed solution should be able to inter-operate with other existing ecosystem in the data-center. **The solution should also be able to integrate with existing storages via protocols like FC,NFS, iSCSI etc., if required.**
6	pt. 21	The solution should support encryption of data at rest and in-transit.	The solution should support encryption of data at rest or in-transit.	The solution should support encryption of data at rest **or** in-transit.
7	pt. 33	The solution shall provide granular VM-Centric controls for managing storage service levels.	Removal of this clause.	**Clause removed.**
8	pt. 34	The solution shall provide the ability to scale-up (by adding more disks to existing nodes) or scale-out (by adding more nodes to the cluster).	The solution shall provide the ability to scale-up (by adding more disks to existing nodes) or scale-out (by adding more nodes to the cluster). The solution shall also support compute only node in case only compute resources needs augmentation. Any licenses are required to add compute only node should be provided on day one.	The solution shall provide the ability to scale-up (by adding more disks to existing nodes) or scale-out (by adding more nodes to the cluster) **in terms of storage and compute.**
9	pt. 35	The solution shall provide distributed RAID and cache mirroring for intelligent placement of VM objects across	The solution shall provide intelligent data distribution across the cluster, Intelligent placement of VM's and associated objects/files across disks AND hosts for enhanced application availability. Zero data loss with near zero downtime in case of disk, host, network and near-site failure should be a design consideration. The solution should also be able to maintain dual redundant copies of the data.	The solution shall provide intelligent data distribution across the cluster, Intelligent placement of VM's and associated objects/files across disks AND hosts for enhanced application availability. Zero data loss

		disks AND hosts for enhanced application availability. Zero data loss with near zero downtime in case of disk, host, network and near-site failure should be a design consideration.		with near zero downtime in case of disk, host, network and near-site failure should be a design consideration. **The solution should also be able to maintain dual redundant copies of the data.**
10	pt. 47	The proposed solution should have built-in replication capability which will enable efficient array-agnostic replication of virtual machine data over the LAN or WAN with an RPO as less as 10 min.	The proposed solution should have built-in replication capability which will enable efficient replication of virtual machine data over the LAN or WAN with an RPO as less as 15 min.	The proposed solution should have built-in replication capability which will enable efficient array-agnostic replication of virtual machine data over the LAN or WAN with an RPO as less as **15 min. The replication mechanism should be optimized without additional overheads (for e,g. de-duplicated and compressed data need not be rehydrated before transfer to the other locations) to ensure maximum efficiency and lower bandwidth consumption for replication.**
11	pt. 49	Proposed Backup solution should be based on 'Disk-To-Disk Technology and the proposed	Elaborate on the backup specification in terms on TB, days, full partial etc.	Proposed Backup solution should be based on **'Disk-To-Disk-TO-Tapes'** Technology and the proposed backup **software/appliance** should

		backup appliance should be in the Leaders/Challengers quadrant in the latest available Gartner Magic Quadrant for Deduplication Backup Target appliance.		be in the Leaders/Challengers quadrant in the latest available Gartner Magic Quadrant for **Backup and Recovery Solutions.**
12	pt. 13	The solution should make optimal use of VM hosts, power, cooling requirements ensuring high availability.	Please elaborate on this.	**Clause removed.**
13	pt. 50	Switch with 16 SFP ports of 10 G Make: OEM/ Brocade/ CISCO/ Qlogic	Indicate if out of band management switch is required for 1 Gbps.	**24 SFP** Ports of 10G
14	pt. 41	The solution should propose migration strategy of existing data into the Primary Site/DR Site/Far DR site(if proposed) with zero downtime and disturbance at the production centres (Stand Alone Servers)	The solution should propose migration strategy of existing data into the Primary Site/DR Site/Far DR site(if proposed) with near zero downtime and disturbance at the production centres (Stand Alone Servers)	The solution should propose migration strategy of existing data into the Primary Site/DR Site/Far DR site(if proposed) with **near** zero downtime and disturbance at the production centres (Stand Alone Servers)

15	RFP Document > Criteria for Technical Evaluation > Point no.6, Page - 26	Partnership with OEM(Minimum 1 Year ; EC – G.5)	Partnership with OEM for HCI solution should be considered and give weightage accordingly.	Change. "for proposed technology"[Evidence to be supported by Certificate from Authorized Signatory and also copies of POs].
16			Backup Software must support GUI with centralized management / Single interface for management of all backup activities across the entire storage capacity supplied. The backup software must have firewall support	Additional Specifications
17			Backup Software Must support de-duplication and based on policy backup software should be able to move data to a disk target and subsequently move it to a tape library automatically. Restoration of data should happen directly to the production server, without any intermediate destination.	Additional Specifications
18			Backup software should be able to replicate Backup data to another site for compliance / Disaster Recovery purposes, with or without the need of external replication tools on Backup array. All necessary hardware and licenses for achieving consistent replication of backup data should be quoted.	Additional Specifications
19			Backup software should be supplied with licenses based on the entire storage capacity supplied, irrespective of No. of backup clients, configuration of backup clients, Tape drives, Tape libraries, etc. Should be able to perform SAN based / LAN Based backups	Additional Specifications
20			Backup software should be able to schedule backup and restoration operations on the same host or any other host.	Additional Specifications
21	Pt 4	The proposed Hyper converged Infrastructure (HCI) Hardware should be placed in the Leaders/Challengers Quadrant in the latest available Gartner Magic Quadrant for Integrated Systems.	"We request you to amend the mentioned clause as:- The proposed HCI hardware should be placed in the Leaders/Challengers quadrant in atleast one of the two latest reports of Gartner's Magic Quadrant for Integrated systems (i.e. 2015, 2016)"	The proposed Hyper converged Infrastructure (HCI) **Solution** should be placed in the Leaders/Challengers Quadrant in the latest available Gartner Magic Quadrant for Integrated Systems.

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22			**Tape Library**		Additional Specifications
			LTO7 Drives(2 Full Height) **with FC/SAS/10G Network Interface**		
			Web based Management should be available		
			Barcode Reader		
			Tape Loading Through Removable Magazine for all tapes		
			3 Mail Slots Capability		
			Digital Speed Matching/ Data Rate Matching		
			Tape Library should support encryption		
			Rack Mountable Form Factor. Vendor to specify the Rack Units		
			Redundant Power Supply		
			MTBF of 1,00,000 Hours or more & MSBF of 2,000,000 Cycles or more		
			Backward Read Compatible for LTO6 & LTO5		
			Backward Write Compatible for LTO6		
			Tapes		
			LTO7 Tapes Cartridge physical capacity: 6TB (15 TB with compression) Bar code label Brands: HP/ IBM/ Tandberg/ Quantum/ Sony/ Imation/ Fujitsu/ TDK		
			LTO7 Cleaning Tapes Brands: HP/ IBM/ Tandberg/ Quantum/ Sony/ Imation/ Fujitsu/ TDK		

EXECUTIVE DIRECTOR (IT/BPR)