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10/05/2024

RFP for Supply, Installation, Commissioning and Maintenance of Hardware for CO Private Cloud
(RFP Ref: LIC/CO/IT-BPR/HW/CO-CLOUD/23-24/01 Dated: 14/03/2024)

CORRIGENDUM-II

This is with reference to the RFP released by the Life Insurance Corporation of India as per reference captioned above. The following conditions stand modified as given herein under:

Sl. No	Clause of RFP	Existing condition	Revised Condition
		RFP related	
1	Page 10, Section C, 6 Eligibility Criteria	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 20 Crores** (Minimum 2 references; Multiple POs from 2 or more references may be clubbed) for supply/implementation of HCI/Cloud Solution/ Integrated Systems in India during the **last five financial years**, i.e., 2022-2023, 2021-2022, 2020-2021 , 2019-2020, 2018-2019.	**Bidder** 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 20 Crores (Minimum 2 references; Multiple POs from 2 or more references may be clubbed) for supply/implementation of HCI/Cloud Solution/Integrated Systems/**Virtualization** in India during the last five financial years, i.e., 2022-2023, 2021-2022, 2020-2021 , 2019-2020, 2018-2019.
2	Page 14, Activity Schedule, 8	Bid Submission Date & Time: 24/05/2024 latest by 3.30 p.m.	Last date for bid submission is extended to **31/05/2024 latest by 3:30pm**
3	Page 14, Activity Schedule, 9	Bid opening date & time (Eligibility & Technical): 24/05/2024 at 4.00 p.m.	Bid opening date & time (Eligibility & Technical): **31/05/2024 at 4.00 p.m.**
4	Page 69, Annexure-IV, 12	**Details of Projects/PO's executed for supply of HCI/Integrated Systems**	Details of Projects/PO's executed for supply of HCI/**Cloud Solution**/Integrated Systems /**Virtualization.**
5	Page 31, Section E, 10 Broad Scope of Work	Post installation support of the systems supplied and installed till the hardware is given as buy-back. The support should be provided by the Vendor directly or through the OEM. No Service Partner can be appointed for servicing of the hardware.	Post installation support of the systems supplied and installed **till 7 years from the date of installation**. The support should be provided by the Vendor directly or through the OEM. No Service Partner can be appointed for servicing of the hardware.
6	Page 31, Section E, 12 Training	12. Training: Vendor/OEM shall train and certify designated officials for the items in scope for configuration, operation/ functionalities, maintenance, support & administration, architecture and components, installation, troubleshooting	12. Training: Vendor/OEM shall train **10** designated officials for the items in scope for configuration, operation/ functionalities, maintenance, support & administration, architecture and components, installation, troubleshooting

Sl. No	Clause of RFP	Existing condition	Revised Condition
		processes, backup etc. The duration and venue of the training will be decided by LIC.	processes, backup etc. **The period of training will be spread over 1 month and the training will be conducted at LIC premises.**
7	Page 35, Section G, 2, h)	The bidders scoring **at least 70** marks in the Technical Scoring Model will be eligible for **Commercial evaluation**.	The **Top 5** bidders scoring at least 70 marks in the Technical Scoring Model will be eligible for Commercial evaluation.
8	Page 35, Technical Scoring Model Criteria Sr.No. 3	References of proposed Solution implementation by bidder in India (As specified in Eligibility Criteria)	References of **Cloud** Solution implementation by bidder in India (As specified in Eligibility Criteria)
9	Page 35, Technical Scoring Model Criteria Sr.No. 4	References of proposed Solution implementation by bidder in India in BFSI/Govt./PSU (As specified in Eligibility Criteria)	References of **Cloud** Solution implementation by bidder in India in BFSI/Govt./PSU (As specified in Eligibility Criteria)
10	Page 36, Section G, 3, f)	f) ORA will be on TCO basis hence successful bidder needs to give item wise price bifurcation within a period of five working days. Format for the same will be decided by LIC based on components of the proposed solution.	f) ORA will be on TCO basis hence successful bidder needs to give item wise price bifurcation within a period of five working days. Format for the same will be decided by LIC based on components of the proposed solution. **The bidders are expected to broadly maintain the proportion of prices for the various components of the proposed solution during submission of TCO price breakup, after Online Reverse Auction.**
11	Page 42, Section J, 9, a) Performance Bank Guarantee	a) A Performance Bank Guarantee, unconditional and irrevocable from scheduled/ nationalized Bank payable at Mumbai (as per Annexure-XIII) to the tune of 5% of the Grand Total Cost, shall be submitted by the selected bidder, as Performance Bank Guarantee (PBG) for the equipment(s) supplied/ Services offered against this RFP. The Performance Bank Guarantee should be valid for the period of 68 months from the date of submission and thereafter shall be renewed for AMC (10% of the AMC cost) and submitted to LIC every year one month before the expiry of the PBG for the maintenance of the supplied Hardware, till the hardware is given away as buyback.	a) A Performance Bank Guarantee, unconditional and irrevocable from scheduled/ nationalized Bank payable at Mumbai (as per Annexure-XIII) to the tune of 5% of the Grand Total Cost, shall be submitted by the selected bidder, as Performance Bank Guarantee (PBG) for the equipment(s) supplied/ Services offered against this RFP. The Performance Bank Guarantee should be valid for the period of 68 months from the date of submission and thereafter shall be renewed for AMC (10% of the AMC cost) and submitted to LIC every year one month before the expiry of the PBG for the maintenance of the supplied Hardware.

Sl. No	Clause of RFP	Existing condition	Revised Condition
12	Page 44, Section J, 14 Pre-Dispatch Inspection	The Vendor shall conduct a Pre-Dispatch Factory Inspection for all Hardware items **before delivery and submit document on letter head certifying that all listed components are inspected and are in order.**	The Vendor shall conduct a **Pre-Installation Inspection** for all Hardware items before **installation** and submit document on letter head certifying that all listed components are inspected and are in order.
13	Page 45, Section J, 16, Table E	Penalty as a % of the total Purchase Order value of the respective item @ 0.2% per day of delay	Penalty as a % of the total Purchase Order value of the respective item @ **0.1%** per day of delay
14	Page 46, Section J, 18, d) & e) Payment Terms	d) **35%** of the payment will be made on delivery of the Hardware & software 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. e) **45%** payment will be made on installation, acceptance Test and Go Live (completion of entire scope of work activity to make the Infrastructure ready for use).	d) **50%** of the payment will be made on delivery of the Hardware & software 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. e) **30%** payment will be made on installation, acceptance Test and Go Live (completion of entire scope of work activity to make the Infrastructure ready for use).
15	Page 46, Section J, 18 Payment Terms	**Addition**	**i) 50% One Time Implementation payment will be made on issuance of certificate of successful commissioning and implementation of the DC setup.** **j) 50% One Time Implementation payment will be made on issuance of certificate of successful commissioning and implementation of the DR setup.** **k) 100% Migration payment will be made on successful migration as per scope mentioned in Technical Annexure.**
16	Page 47, Section J, 19, d), e) & f)	d) If the damage to the hardware is due to the power fluctuations or physical damage due to mishandling by LIC personnel or the damage by external factors, LIC would bear the cost of the parts damaged but the onus of proving this will be on the Vendor. However, the vendor will be required to provide immediate	**These clauses stand deleted.**

Sl. No	Clause of RFP	Existing condition	Revised Condition
		system/solution as standby with same configuration or higher and with all services restored as if it is a normal breakdown.	
		e) In case of partial/full damage or loss of the equipment due to reasons beyond the control of LIC, such as theft, fire, floods etc., the vendor should supply working standby equipment with same configuration or higher with all services restored, as if it is a normal breakdown.	
		f) In both the cases mentioned above, fresh order will be placed by LIC with the vendor concerned for the supply of the new hardware against the lost/damaged equipment/ component. Monthly rental of 5% of basic Hardware cost will be payable to the vendor for the equipment supplied as standby. If the vendor does not provide standby equipment, the penalties as per Sr.As defined below will be imposed.	
17	Page 51, Section J, 26, b)	b) Granting or restricting access to all the application and data, auditing security events, auditing security configurations and changes, generating security reports, and monitoring the application for vulnerabilities and intrusions.	**This clause stands deleted.**
18	Page 57, Section K, 4	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.	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 **15** days. If not provided then penalty will be imposed till the candidate is provided.
19	Page 57, Section K, 5, b) SERVICE LEVEL AGREEMENT	b) The overall accrued penalty (other than the above) shall not exceed 20% of the Total Contract Value during the warranty period. Similarly during the AMC period the overall accrued penalty shall not exceed 20% of the total AMC Value.	b) The overall accrued penalty (other than the above) shall not exceed **10%** of the Total Contract Value during the warranty period. Similarly during the AMC period the overall accrued penalty shall not exceed **10%** of the total AMC Value.

Sl. No	Clause of RFP	Existing condition	Revised Condition
20	Page 68 - MAF Annexure VII	Addition	M/s_____ is an authorized partner since _____.
21	Page 77, Annexure VIII PRE CONTRACT INTEGRITY PACT, 6	✸ Shri Rajni Kant Mishra , IPS(Retd.) , Ex Director General in BSF , B-1801 , Amrapali Sapphire, Sector-45 , NOIDA ,UP, PIN-201303 Email Address: rkm592002@yahoo.co.in ; rkmishra84@gmail.com Contact: 97173-28500 ✸ Shri Arun Chandra Verma , IPS(Retd.), Flat No. C – 1204, Amrapali Platinum Complex, Sector - 119, NOIDA, Uttar Pradesh Email address: acverma1@gmail.com Mobile No. – (+91) 8130386387	✸ Shri Arun Chandra Verma , IPS(Retd.), Flat No. C – 1204, Amrapali Platinum Complex, Sector - 119, NOIDA, Uttar Pradesh Email address: acverma1@gmail.com Mobile No. – (+91) 8130386387
22	Page 96, Annexure-XV, G, 5	The successful Bidder is bound to supply/ execute the deliverables as per the scope of work defined in the RFP at their final lowest bid price of Online Reverse Auction. In case of backing out from the reverse auction process or not agreeing to supply as per the rates quoted, LIC will take appropriate action against such bidder and may blacklist/ debar him from participating in any tenders in future.	The successful Bidder is bound to supply/ execute the deliverables as per the scope of work defined in the RFP at their final lowest bid price of Online Reverse Auction. In case of backing out from the reverse auction process or not agreeing to supply as per the rates quoted, LIC will take appropriate action against such bidder **as it deems fit and the same shall be binding on the bidder.**
		Technical	
23	Technical Annexure-I, Sr. No 23	The solution shall provide a data caching tier that supports SSD/PCIe/UltraDIMM/NVMe.	**If data caching layer is required in proposed solution,** the solution shall provide a data caching tier that supports SSD/PCIe/UltraDIMM/NVMe.
24	Technical Annexure-I, Sr. No 29	Proposed solution should be able to integrate Internal Network at speed of 10/25G and External Network at speed of 40/100G. Internal and External network connectivity will be provided through SDN solution already available with LIC.	Proposed solution should be able to integrate Internal Network at speed of 10/25G and External Network at speed of 40/100G.

Internal and External network connectivity will be provided through SDN solution already available with LIC.

Vendor needs to provide required cables. Management Switches needs to be provided by vendor. |

Sl. No	Clause of RFP	Existing condition	Revised Condition
25	Technical Annexure-I, Sr. no 41	The usable resource requirement (exclusive of management and system overheads as mentioned in Sl. No. 6) in each site (DC and DR) is as follows: Cluster-1: 1) 1024 physical cores 2) 12 TB RAM 3) 200 TB Usable Space before de-duplication, compression and eraser coding, with All Flash NVME storage (Enterprise Class), Note: This cluster can be used to host Windows VMs. Cost of licensing cluster for hosting Windows VMs with Windows Server 2022 Data Centre Edition should be quoted in commercial bid. LIC will decide at the time of placing order based on actual requirement. Cluster-2: 1) 1024 physical cores 2) 12 TB RAM 3) 400 TB Usable Space before de-duplication, compression and eraser coding, with All Flash NVME storage (Enterprise Class) Cluster-3: 1) 1024 physical cores 2) 12 TB RAM 3) 400 TB Usable Space before de-duplication, compression and eraser coding, with All Flash NVME storage (Enterprise Class), *Minimum IOPS required is 1,00,000 (expected Read Write Ratio of 60:40) for a mix work load. Physical to virtual cpu ratio considered is 1:4 Above usable resources are required even after one Node and one drive failure in a cluster.	The usable resource requirement (exclusive of management and system overheads as mentioned in Sl. No. 6) in each site (DC and DR) is as follows: **Cluster-1:** 1) 1024 physical cores 2) **16** TB RAM 3) 200 TB Usable Space before de-duplication, compression and erasure coding, with All Flash NVME storage (Enterprise Class), Note: This cluster can be used to host Windows VMs. Cost of licensing cluster for hosting Windows VMs with Windows Server 2022 Data Centre Edition should be quoted in commercial bid. LIC will decide at the time of placing order based on actual requirement. **Cluster-2:** 1) 1024 physical cores 2) **16** TB RAM 3) 400 TB Usable Space before de-duplication, compression and erasure coding, with All Flash NVME storage (Enterprise Class) **Cluster-3:** 1) 1024 physical cores 2) **16** TB RAM 3) 400 TB Usable Space before de-duplication, compression and erasure coding, with All Flash NVME storage (Enterprise Class), *Minimum IOPS required is 1,00,000 (expected Read Write Ratio of 60:40) for a mix work load. Physical to virtual CPU ratio considered is 1:4 Above usable resources are required even after one Node and one drive failure in a cluster.

Sl. No	Clause of RFP	Existing condition	Revised Condition
26	Technical Annexure-I, Sr. No 42	Per Node/Server(Enterprise Class) specifications - For Cluster-1: Latest Generation (Certified by Proposed Virtualization software OEM) x86 64 Bit architecture-based, 2x32 core Intel Platinum Processor with minimum 2.5 GHz Clock speed or higher and 60 MB Cache or higher For Cluster-2 and Cluster-3: Latest Generation (Certified by Proposed Virtualization software OEM) x86 64 Bit architecture-based, 2x32 core Intel/AMD Processor with 2.4 GHz Clock speed or higher and 60 MB Cache or higher For Cluster-1, Cluster-2 and Cluster-3: Minimum of 768 GB RAM, DDR5 4800 MHz or higher , expandable upto 2 TB Two number of quad port 10/25GbE Cards populated with 8 quantity of 25G SFP connectivity to the existing Leaf Switch from day one. All SFP provided in the solution should be OEM make. Cables required for network connectivity should be provided. At least 6 drive slots should be free after populating required drives. N+1 hot swappable Power Supply. [Overheads of management and system setup to be taken care of separately]	Per Node/Server(Enterprise Class) specifications - **For Cluster-1:** Latest Generation (Certified by Proposed Virtualization software OEM) x86 64 Bit architecture-based, 2x32 core Intel Platinum Processor with minimum 2.5 GHz Clock speed or higher and 60 MB Cache or higher **For Cluster-2 and Cluster-3:** Latest Generation (Certified by Proposed Virtualization software OEM) x86 64 Bit architecture-based, 2x32 core Intel/AMD Processor with 2.4 GHz Clock speed or higher and 60 MB Cache or higher **For Cluster-1, Cluster-2 and Cluster-3: Processor with more than 32 cores can be provided subject to maximum of 64 cores i.e. maximum 128 cores per node.** Minimum of **1 TB DDR5 RAM with true runtime memory speed of 4800 MHz** or higher , expandable upto 2 TB Two number of quad port **(Or Four number of Dual port)** 10/25GbE Cards populated with 8 quantity of 25G SFP for connectivity to the existing Leaf Switch from day one. All SFP provided in the solution should be OEM make. Cables required for network connectivity should be provided. N+1 hot swappable Power Supply. [Overheads of management and system setup to be taken care of separately]
27	Technical Annexure-I, Sr. No 71	The solution must have De-duplication and Compression features licensed and implemented from day one (Should not have dependency on any proprietary hardware device). Storage Efficiency Features should be available across any type of nodes	The solution must have De-duplication and Compression features licensed and **Compression** implemented from day one (Should not have dependency on any proprietary hardware device). Storage Efficiency Features should be available across any type of nodes.

Sl. No	Clause of RFP	Existing condition	Revised Condition
28	Technical Annexure-I, Sr. No 76	HCI solution should support for hosting their SDS (Software Defined Storage) component with choice of servers hardware available from leading OEM's. LIC should be able to run SDS solution on any compatible x86 hardware of choice and Licenses proposed for Software Defined Storage (SDS) Platform should be perpetual in nature (end user License name must be in the name of LIC). Bidder/OEM need to provide the Hardware Validation on the proposed HCI Solution. The SDS license should not be tied with any specific hardware and must be transferable to any supported x86 hardware, in case LIC wants to deploy it on new supported x86 hardware.	HCI solution should support for hosting their SDS (Software Defined Storage) component with choice of servers hardware available from leading OEM's. LIC should be able to run SDS solution on any compatible x86 hardware of choice and Licenses proposed for Software Defined Storage (SDS) Platform should be perpetual**/ subscription based** in nature (end user License name must be in the name of LIC). Bidder/OEM need to provide the Hardware Validation on the proposed HCI Solution. The SDS license should not be tied with any specific hardware and must be transferable to any supported x86 hardware, in case LIC wants to deploy it on new supported x86 hardware.
29	Technical Annexure-I, Sr. No 82	Central administrator must be able to manage/control the self-service portal view for the tenants and enable multi tenancy. Any authorized user must be able to deploy the application using the published blueprint in his self-service portal. Services provided in self-service portal should cut across existing and upcoming infrastructure components.	Central administrator must be able to manage/control the self-service portal view for the tenants and enable multi tenancy. Any authorized user must be able to deploy the application using the published blueprint in his self-service portal.
30	Technical Annexure-I, Sr. No 94	The solution must allow management of existing/already provisioned VMs and perform automation task.	**This clause stands deleted.**
31	Technical Annexure-I, Sr. No 158	For License calculation, 2500 VM license should be quoted for this functionality.	**For License calculation, 1000 VM license should be quoted for this functionality.**
32	Technical Annexure-I, Sr. No 160	Backup solution at DR site should have usable capacity of 2 PB before deduplication, compression (Capacity to be considered for license calculation is 1 PB) Backup solution at DC site should be sized considering backup schedule and retention policy.	**Proposed Backup solution at DC and DR should be offered with minimum 1 PB of usable storage capacity before Compression, Deduplication and Erasure Coding and it should be upgradable up to 2 PB.**

Sl. No	Clause of RFP	Existing condition	Revised Condition
33	Technical Annexure-I, Sr. No 161	Proposed Backup solution should be based on 'Disk-To-Disk-To-Disk' Technology and the proposed backup software/appliance should be in the Leaders quadrant in the latest available Gartner Magic Quadrant for Backup and Recovery Solutions.	Proposed Backup solution should be based on 'Disk-To-Disk-To-Disk' Technology and the proposed backup **software** should be in the Leaders quadrant in the latest available Gartner Magic Quadrant for Backup and Recovery Solutions.
34	Technical Annexure-I, Sr.. No 162	Backup schedule to be supported by offered product: Daily, Weekly, Monthly, Yearly. Backup retention policy for DC: Daily Backup-6 copies, Weekly Backup-1 copy Backup retention Policy for DR: Daily Backup-24 copies, Weekly Backup-4 copies, Monthly Backup-12 copies, Yearly Backup-3 copies.	Backup schedule to be supported by offered product: Daily, Weekly, Monthly, Yearly. **Backup retention policy for DC and DR: Daily Backup-24 copies, Weekly Full Backup-4 copies, Monthly Full Backup-12 copies, Yearly Full Backup-3 copies.**
35	Technical Annexure-I, Sr.. No 165	Proposed backup hardware should support throughput of 2TB/hour.	Proposed backup hardware should support throughput of **25 TB/hour.**
36	Technical Annexure-I, Sr. No 167	The proposed Backup software must offer capacity or instance based licenses with no restrictions on type of arrays (protecting heterogeneous storage technologies), front end production capacity or backup to disk target capacity restrictions. Licenses and associated hardware should be supplied for both primary and DR site. if bidder is quoting capacity based licenses , bidder should quote per 1 PB capacity based licenses. if bidder is quoting instance based licenses , bidder to quote licenses for 2500 VMs.	The proposed Backup software must offer capacity**, socket** or instance based licenses with no restrictions on type of arrays (protecting heterogeneous storage technologies), front end production capacity or backup to disk target capacity restrictions. Licenses and associated hardware should be supplied for both primary and DR site. If bidder is quoting capacity based licenses, bidder should quote for **800 TB** capacity. if bidder is quoting instance based licenses , bidder to quote licenses for 2500 VMs.
37	Technical Annexure-I, Sr. No 175	The backup software must Pinpoint identified ransomware strains and prevent reintroduction of malware into your environment using YARA content analysis.	The backup software must Pinpoint identified ransomware strains and prevent reintroduction of malware into your environment using YARA **(or equivalent)** content analysis.
38	Technical Annexure-I, Sr. No 179	The backup software must Allow cyber threat tool to report infections directly into the backup tool Incident API, marking existing restore points as infected or triggering a backup.	**Proposed backup solution must be offered to protect the backup from any malware & ransomware attacks and provide guaranteed recovery.**

Sl. No	Clause of RFP	Existing condition	Revised Condition
39	Technical Annexure-I, Sr. No 181	The backup software must prevent the accidental or malicious deletion or encryption of backups by employing a zero trust architecture, "Four eyes" admin protection and immutable backups.	The backup software must prevent the accidental or malicious deletion or encryption of backups by employing a zero trust architecture, "Four eyes" **(or equivalent)** admin protection and immutable backups.
40	Technical Annexure-I, Sr. No 187	Backup software should support instant database recoveries of MySQL, MS SQL from the backup files.	This a duplicate specification entry hence this specification line stands deleted.
41	Technical Annexure-I, Sr. No 197	Proposed object storage at DC and DR should be offered with minimum 500 TB of usable storage capacity before Compression, Deduplication and Erasure Coding and it should be upgradable up to 1 PB.	Proposed object storage at DC and DR should be offered with minimum 500 TB of usable storage capacity before Compression, Deduplication and Erasure Coding and it should be upgradable up to 1 PB **Proposed Object Storage should give minimum throughput of 1500 MB / second considering below minimum parameters,** **Get / Read Throughput - 10%** **Put / Write Throughput - 90%** **Object Size - 7 MB** **Note: This Object storage will be used primarily for storing video KYC files and it will not be used as a backup storage. Backup of these video files is not required.**
42	Technical Annexure-I, Sr. No 199	Erasure coding algorithm provided must support data protection against 1 drive failure across same storage node or failure of 1 storage node.	Erasure coding algorithm provided must support data protection against **2 drive** failure across same storage node or failure of 1 storage node.
		Commercial	
43	Commercial Annexure-II, Part-I	Addition	Software Load Balancer
44	Commercial Annexure-II, Part-III, Sr. no 3	Microsoft MS SQL 2022 Standard - per core	Microsoft MS SQL 2022 Standard - per **2** cores
45	Commercial Annexure-II, Part-III	Addition	CAL License for Microsoft Windows Server 2022 Datacenter edition

Executive Director (IT/Digital Transformation)