

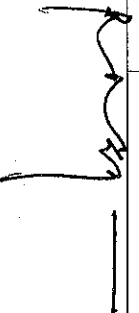
Bangladesh Research and Education Network (BdREN) Trust
 Title of IFB: Purchase of Storage System and Renewal/Procurement of Firewall Licenses/Devices

ADDENDUM

Memo No. ~~MR~~REN Trust / 06-05-2022 / Data Center / Compute and Storage / 7 Date: 06/04/2022
 Ref: IFB No.: BdREN Trust/Procurement/2022/G-4 Dated: 28/03/2022
 Package No: BdREN Trust/Procurement/2022/G-4
 Lot A: NVMe SSD Storage System

Amendments of Bidding Document

Sl. No.	Bidding Document Reference			Text in the Bidding document	To be Replaced by	Remarks
	Section no.	Clause no.	Page no			
1	7	5	78	3. The storage should have integration with major Database like Oracle, MS-SQL, My-SQL, DB2, MariADB, PostgreSQL etc. It should support application consistent snapshots as well, if required.	3. The storage should have integration with major Database like Oracle, MS-SQL and Hypervisor (VMware) etc. It should support application consistent snapshots as well, if required.	
2	7	8	79	2. Offered Storage support at least 500TB usable Capacity or higher using the same disk type & disk capacity.	2. Offered Storage support at least 400TB usable Capacity or higher using the same disk type & disk capacity.	



Sl. No.	Bidding Document Reference			Text in the Bidding document	To be Replaced by	Remarks
	Section no.	Clause no.	Page no			
3	7	16	83	2. Proposing Hardware Brand should have parts depot for smooth after-sales support and service. OEM letter of confirmation required.	2. Proposing Hardware Brand should have parts depot by own / at 3 rd party facility for smooth after-sales support and service. OEM letter of confirmation required.	



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Lot A: NVMe SSD Storage System

Clarification of Bidders Query / Proposal

Sl. No.	Bidding Document Reference			Text in the Bidding document	Bidder's Query/Proposal	Response
	Section no.	Clause no.	Page no			
1	7	8.1	79	The Storage Array shall be offered with Minimum 100TB usable capacity under RAID 6 with Double Parity using 7.68TB NVMe SSD Disk Drive	The Storage Array shall be offered with Minimum 100TB usable capacity under RAID 6 with Double Parity using minimum 21 x 7.68TB NVMe SSD Disk Drive	The clause will remain same as published in the Bidding Document



Sl. No.	Bidding Document Reference			Text in the Bidding document	Bidder's Query/Proposal	Response
	Section no.	Clause no.	Page no			
2	7	9	80	<p>The proposed Configuration of the storage should be able to deliver Minimum 2,00,000 IOPS or higher.</p> <p>The vendor can consider:</p> <ul style="list-style-type: none"> • 8KB Block size, • 70:30 Read/Write Ratio, 	<p>The Storage Array shall be offered with Minimum 100TB usable capacity under RAID 6 with Double Parity (Minimum 6D+2P) using 7.68TB NVMe SSD Disk Drive.</p> <p>The Storage Array shall be offered with Minimum 100TB usable capacity under RAID 6 with Double Parity or EQUIVALENT RAID using 7.68TB NVMe SSD Disk Drive</p>	<p>The clause will remain same as published in the Bidding Document</p> <p>The clause will remain same as published in the</p>

Sl. No.	Bidding Document Reference			Text in the Bidding document	Bidder's Query/Proposal	Response
	Section no.	Clause no.	Page no			
				<ul style="list-style-type: none"> • Response Time: Less than 1ms for the IOPS Calculation. <p>The vendor must provide a proof/certificate/ benchmarking document etc. from OEM to prove that the proposed storage shall deliver required number of IOPS using the proposed configuration.</p>	<p>The vendor can consider:</p> <ul style="list-style-type: none"> • 8KB Block size, • 70:30 Read/Write Ratio, • Response Time: Less than 1ms <p>for the IOPS Calculation.</p> <p>The vendor must provide a proof/certificate/ benchmarking document etc. from OEM to prove that the proposed storage shall deliver required number of IOPS using the proposed configuration.</p>	Bidding Document

Sl. No.	Bidding Document Reference			Text in the Bidding document	Bidder's Query/Proposal	Response
	Section no.	Clause no.	Page no			
					<p>The proposed Configuration of the storage should be able to deliver Minimum 2,00,000 IOPS or higher after deduplication and compression. The vendor can consider:</p> <ul style="list-style-type: none"> • 8KB Block size, • 70:30 Read/Write Ratio, • Response Time: Less than 1ms <p>for the IOPS Calculation. The vendor must provide a proof/certificate/ benchmarking document etc. from OEM to prove that the proposed storage shall deliver required number of IOPS using the proposed</p>	

Sl. No.	Bidding Document Reference			Text in the Bidding document	Bidder's Query/Proposal	Response
	Section no.	Clause no.	Page no			
3	7	12.3	81	System should be capable to connect host system / Server with HBA / NVMe enabled HBA directly. In case, the proposed system doesn't support direct host connectivity, bidder may consider additional devices to accommodate 8 Servers.	Please Remove NVMe HBA directly	The clause will remain same as published in the Bidding Document
4	7	13	82	Proposed system must include SED (or Controller based / Disk Based Data at Rest Encryption) solution to encrypt data on all drives.	Proposed system must include SED solution to encrypt data on all drives.	The clause will remain same as published in the Bidding Document
5	7	16.1	83	In case of unavailability of OEM local parts depot, bidder should maintain separate spare parts (at least 20% of total proposed quantity) within Dhaka, Bangladesh.	In case of unavailability of OEM local parts depot, bidder must keep separate spare parts (at least 20% of total proposed quantity) at BdREN premises.	The clause will remain same as published in the Bidding Document

