Corrigendum 3
RFP No: - OCAC-SEGP-INFRA-0017-2024-24064
Request for Proposal for Selection of System Integrator for Enhancement of IT Capability of OSDMA and Modernization of GIS Cell, SEOC and DEOCs
Part- A

Sl No	Page No	Clause No	Existing Clause as per RFP	Modification/Deleted clause and clarification
1	84	20.2	**1.Storage:**Offered storage shall be a true hybrid arrays supporting both SSD and Spinning drives	Offered Storage shall be End to end NVMe storage.
2	84	20.2	**3. Capacity & Scalability:** Offered storage array shall be supplied with 100TiB usable capacity using NVMe SSD drives in RAID6 configuration. Offered storage shall also be offered with additional Flash cache memory using NVMe SSD drives. The additional flash cache should be read and write cache. Vendor shall provide additional 10% usable flash cache.	Offered storage array shall be supplied with 100TiB usable capacity using NVMe SSD drives in RAID6 configuration.
3	85	20.2	**5. Performance:** Offered storage shall deliver a minimum 65000 IOPS	Deleted
4	85	20.2	**8. Disk Drive Support** : Offered Storage array shall support various capacities of SSD drives for caching and spinning drives for persistent data.	Offered Storage array shall support various capacities of NVMe SSD drives
5	86	20.2	**10. Availability:** Offered Storage array shall provide availability of 99.99% or better and with no single point of failure. There shall be no performance de-gradation due to a single component. There shall be no performance de-gradation during critical support activities like Firmware upgrade, patch upgrade etc.	Offered Storage array shall provide availability of 99.99% or better and with no single point of failure. There shall be no performance de-gradation during critical support activities like Firmware upgrade, patch upgrade etc.

| 6 | 87 | 20.2 | **12.Data console(Management):** Offered Storage array should have console for managing unlimited number of arrays. Console shall provide following functionalities:

a) Common Dashboard for all managing multiple arrays through a single console.
b) Main Dashboard shall provide the information of Total number of Arrays, Volumes, hosts, Capacity and performance information of top Arrays and Volumes.
c) Common role based access control for managing multiple arrays through a single data console instead of creating users and assigning roles individually at each array.
d) Common Audit management for all arrays
e) Shall have capability for tagging the Storage volume to given host applications so that performance charts can be drawn for application instance for easy management and troubleshooting.
f) Offered console shall advise about Placement of application on best fit system based on workload after application tagging.
g) Shall be able to provide the context aware software updates on the storage array.
h) Shall be able to offer storage management and configuration as a service instead of controlling, patching and upgrading the management application by onsite team. | Offered Storage array should have console for managing multiple arrays. Console shall provide following functionalities:

a) Common Dashboard for all managing multiple arrays through a single console.
b) Main Dashboard shall provide the information of Total number of Arrays, Volumes, hosts, Capacity and performance information of top Arrays and Volumes.
c) Common role based access control for managing multiple arrays through a single data console instead of creating users and assigning roles individually at each array.
d) Common Audit management for all arrays
e) Shall have capability for tagging the Storage volume to given host applications so that performance charts can be drawn for application instance for easy management and troubleshooting.
f) Offered console shall advise about Placement of application on best fit system based on workload after application tagging.
g) Shall be able to provide the context aware software updates on the storage array.
h) Shall be able to offer storage management and configuration as a service instead of controlling, patching and upgrading the management application by onsite team. |

7	88	20.2	**14. Investment Protection**: Offered storage shall be non-disruptively scalable to higher generation series of storage array within the given family without any forklift upgrade. There shall be no downtime while upgrading the storage to next generation model within the given series.	Offered storage shall be non-disruptively scalable to higher generation series of storage array within the given family without any forklift upgrade. There shall be no data loss while upgrading the storage to next generation model within the given series.
8	88	20.2	**17. Host Ports:** Offered Storage array shall be supplied with at-least dual controllers and 4 x 25Gbps and 8 x 32G FC ports and shall be scalable to 16 x 32Gbps FC ports.	Offered Storage array shall be supplied with at-least dual controllers and 4 x 25Gbps and 8 x 32G FC ports
9	89	20.2	**18. Thin Provisioning and Space optimization :** d) Offered storage shall have capability to categorize the domains for different workload enabled application for effective de-duplication and compression. For example – Shall have capability to have Database workload in one domain or protection group and virtualized application workload in another domain or protection group for effective de-duplication and compression.	Deleted
10	89	20.2	**18. Thin Provisioning and Space optimization :** e) Both De-duplication and compression shall be in-line and shall be supported on both SSD and Spinning disks.	e) Both De-duplication and compression shall be in-line and shall be supported on NVMe SSD.
11	90	20.2	22. Remote Replication: d) Offered Storage array must have capability to replicate data from All Flash to Hybrid Flash or Vice Versa within the given family of arrays.	d) Offered Storage array must have capability to replicate data within the given family of arrays.

12	90	20.2	**22. Remote Replication:** f) Offered storage shall support FAN out asynchronous replication from primary array to at-least two secondary arrays for a given volume. It shall provide the flexibility to define the separate schedule for each replication relationship.	Deleted
13	90	20.2	**23. Licenses:** Vendor shall provide the license for all critical functionalities like Snapshot, Application managed snapshots, Clone, Replication, QOS, **Data Tiering**, LUN Configuration and Management etc. for the maximum supported capacity of array. There shall be no additional software license requirement for future capacity upgrade. Any additional license required for meeting the RFP specification shall also be offered upfront.	Vendor shall provide the license for all critical functionalities like Snapshot, Application managed snapshots, Clone, Replication, QOS, LUN Configuration and Management etc. for the maximum supported capacity of array. There shall be no additional software license requirement for future capacity upgrade. Any additional license required for meeting the RFP specification shall also be offered upfront.
14	84	20.2	**3. Capacity & Scalability:** Offered storage array shall be supplied with 100TiB usable capacity using NVMe SSD drives in RAID6 configuration. Offered storage shall also be offered with additional Flash cache memory using NVMe SSD drives. The additional flash cache should be read and write cache. Vendor shall provide additional 10% usable flash cache.	Offered storage array shall be supplied with 100TiB usable capacity using NVMe SSD drives in RAID6 configuration.
15	85	20.2	**9.RAID Support:** Offered Storage array shall be provided with two drive failure protection simultaneously. For maximum disk capacity achievement – offered storage shall have the flexibility to put all offered drives in a single disk pool. In case storage does not have single pool capability, then 20%	9.RAID Support: Offered Storage array shall be provided with two drive failure protection simultaneously.

			additional raw capacity shall be provided and configured.	
16	93	20.5	3.5 Bpps Forwarding/processing Capacity	1.2 Bpps Forwarding/processing Capacity
17	91	20.3	OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for storage or Storage OEM should be from the leader's quadrant as per latest published Gartner's primary storage MQ report.	OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for SAN Switch OEM should be from the leader's quadrant as per latest published Gartner's primary storage MQ report.
18	115	20.15	The clause may be read as 4K / Full HD PTZ Camera, 4K Codec, Omnidirectional Digital Microphone, Cables and Touch Control Panel from the same OEM	The clause may be read as 4K / Full HD PTZ Camera, 4K/FHD Codec, Omnidirectional Digital Microphone, Cables and Touch Control Panel from the same OEM
19	463		**Comfort AC :** Supply and installation of Cassette type AC as per specifications and with all accessories. D- 3 KVA Voltage Stabilizer for Comfort AC	Clarification: Comfort AC is a standard off-the-self product. Any good make with BEE 3 star or above rating will be accepted
20	463		**Comfort AC :** Supply and installation of Cassette type AC as per specifications and with all accessories. D- 3 KVA Voltage Stabilizer for Comfort AC	Minimum requirement is 3KVA. Based on the power requirement of the AC bidder has to provide a stabilizer of rating suitable to AC.
21	98	20.7	1 TB 7200 rpm SATA HDD	512 Gb SSD
22	98	20.7	4 PCI (PCI/ PCI Express)	3 PCI (PCI/ PCI Express)
23	100	20.8	Bus Architecture-4 PCI (PCI/ PCI Express)	Deleted

Additional Clarification:

The changes/modifications done on videoconferencing solution in the corrigendum for SEOC site will be applicable for the DEOC and GIS site.

Technical Specification of Plotter

Item	Plotter A0				
Make			Datasheet submission (Y/N)		
Model			MAF submission (Y/N)		
Bidder			Compliance		
Sl.No	Technical Specification	Minimum Requirement	Fully Complied (YES/NO)	Partially Complied	Reason for Partial compliance and effect on performance
1	Printer Type	5- Colour			
2	Print Resolution	2400 X 1,200 dpi			
3	Line accuracy	+/- 0.1% or less			
4	Ink Type	Pigment ink or better			
5	Interface	Hi Speed USB, SNMP, HTTP, TCP/IP (IPv4/IPv6), FTP, Wireless LAN			
6	Memory	Minimum 2 GB			
7	Display	LCD			
8	OS Compatibility	Windows, Macintosh			
9	Scan width	Minimum 24"			
10	Optical Resolution	upto 600 dpi			
11	Scan Destination	Scan to PC, USB			
12	Printing Size	A0- A4			
13	Printing Speed (in PPM)	1 for A0			
14	Printing Technology	Inkjet			
15	Type of plotter Printer	Multifunction wide format Printer			
16	In Built Scanner	Yes			
17	Scanning Size	A0 - A4			
18	On site warranty	5 Years			

12.12.2 Technical Evaluation Scoring Matrix

C. Technical Evaluation for IT Devices : (Total Score : 30)

SI No	Name of Device	Max Score	Parameter/Specification	Score
1	Server Type - 1	8	Processor Type-1 should have 2 x 32Core or higher with More than 2.1 GHz clock	4
			Processor Type-1 should have 2 x 32 core or higher with minimum 2.1 GHz clock rate	3
			Processor Type-2 should have 2 x 8 cores or higher with more than 3.6 GHz clock rate and more.	4
			Processor Type-2 should have 2 x 8 cores with minimum 3.6 GHz clock rate.	3
2	Storage	5	RAID Support: Offered Storage array shall be provided with two drive failure protection simultaneously	3
			RAID Support: Offered Storage array shall be provided with one drive failure protection simultaneously	2
			Availability: Offered Storage array shall provide enterprise availability of 99.9999% or better and with no single point of failure.	2
			Availability: Offered Storage array shall provide enterprise availability of 99.99% or better and with no single point of failure.	1
3	SAN Switch	5	The Switch shall be configured with minimum of 24 ports of 32G FC.	2
			The Switch Should deliver 32 Gbit/Sec Non-blocking architecture with 1:1 performance for up to 24 ports in a energy-efficient fashion	2
			The switch shall support different port types such as F_Port, E_Port, M_Port, D_Port.	1
4	Management Switch	6	Rack-mountable switch shall have minimum 24 no's RJ-45 autosensing 10/100/1000 ports and 4x10G SFP+ ports populated with 10G SR transceiver	3

			The switch should have minimum 8K MAC table, 200 concurrent VLANs, Jumbo frame	2
			Layer-2 switching features such as 802.1Q, 802.1p, CoS, RSTP/MSTP, DoS protection, Web Management.	1
6	Centralized Infra Monitoring System	6	Single unified Web-based Architecture (No-Client based) System Software	3
			Single platform to include application & Database	1
			SNMP V1,V2,V3 & Modbus TCP IP protocols	2

The other points mentioned in the Corrigendum 2 remains valid for this RFP.

The Last Date of Submission of Bid is on 16.11.2024 by 2 PM.

The Date of opening of Pre-Qualification Bids (PQ) is on 16.11.2024 at 4 PM.