# Corrigendum2

## 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 | Modified/deleted clause and Clarifications |
|---|---|---|---|---|
| 1 | 100 | 20.8 | 11th Generation Intel Core i7 processor, min 4 cores | Latest Generation Intel Core i7/ AMD Ryzen 7 5000 series processor, min 4 cores |
| 2 | 84 | 20.2 | 1. Storage :Offered Storage array shall be a true flash optimized Hybrid array supporting both SSD and spinning drives. | "Offered Storage array shall be a true Hybrid array supporting both SSD and spinning drives." |
| 3 | 84 | 20.2 | 3. Capacity & Scalability: Offered storage array shall be supplied with 100TB usable capacity using SAS drives in RAID6 configuration. Offered storage shall also be offered with additional Flash cache memory using SSD drives. Vendor shall provide additional 10% usable flash cache. | 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. |
| 4 | 84 | 20.2 | 3. Capacity & Scalability: Offered storage array shall be flexible on both Scale-up and Scale out using array in-built firmware enabled clustering technology. Offered storage array shall be scalable to at-least 500TB capacity in scale-up and at-least 3PB in scale-out. Vendor shall provide the required documentary proof for the in-built firmware enabled clustering technology. | deleted |
| 5 | 85 | 20.2 | 5. Performance: Offered storage shall deliver a minimum of 65000 IOPS using 8K random with 50:50 mixed workload. Documentary evidence must be submitted from OEM. | 5. Performance: Offered storage shall deliver a minimum of 65000 IOPS |
| 6 | 85 | 20.2 | 5. Performance: For maximum performance, offered storage array shall have capability of always writing bigger stripe size of at-least 18MB or higher while de staging/ coping the information from Cache to back-end disk. Vendor shall provide the documentary proof for same. Vendor shall provide 20%additional capacity inside the storage array if back-end stripe size is lesser than 18MB. | Deleted |
| 7 | 85 | 20.2 | 5. Flash Cache: Usable Flash cache shall be scalable to at-least 45TB. Offered Storage array shall have capability to dynamically increase or decrease the flash cache. Offered storage array flash cache shall have flexibility to copy the cache worthy incoming write requests while writing to back-end disks in parallel. Vendor shall provide the documentary proof for same. In case, vendor is not copying the incoming write requests to | Deleted |

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| | | | cache then additional 100% DRAM cache shall be provided. | |
| 8 | 85 | 20.2 | 7. No Single point of Failure & Performance: Offered Storage Array shall be configured in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc. There shall be no performance de-gradation due to a single component or controller failure. | 7. No Single point of Failure & Performance: Offered Storage Array shall be configured with minimum 2 number of controller, in a No Single Point of failure configuration including Array Controller card, Cache memory, FAN, Power supply etc. |
| 9 | 85 | 20.2 | 9.RAID Support: Offered Storage array shall be provided with three drive failure protection simultaneously. In case vendor doesn't support it then array shall be sized using 6D+2P. 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% additional raw capacity shall be provided and configured. | 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% additional raw capacity shall be provided and configured. |
| 10 | 86 | 20.2 | 10.Availability:Offered Storage array shall provide enterprise availability of 99.9999% or better and with no single point of failure. There shall be no performance de-gradation due to a single component or controller failure. There shall be no performance de-gradation during critical support activities like Firmware upgrade, patch upgrade etc. Offered Storage array shall offer checksums that go beyond the T10- PI standard. The checksums will automatically detect and prevent errors resulting from lost/misplaced reads or writes that T10-PI and equivalent check summing systems cannot remediate. | 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. . |
| 11 | 86 | 20.2 | Cloud enabled monitoring and analytics engine integration with Hypervisor:<br>a) Offered Cloud enabled monitoring and analytics engine shall be tightly integrated with Hypervisor layer and shall be certified to work with at-least VMware.<br>b) Hypervisor integration shall be able to provide end to end monitoring of hypervisor Data centre, Data-store, Hypervisor Host and VMs running within the hypervisor data centre and shall be able to link with offered storage array.<br>c) Cloud monitoring and integration tool shall provide the detailed analysis of CPU Contention, Memory contention, IO contention for each VM – including the latency.<br>d) Cloud monitoring and integration tool shall provide AI based recommendations to improve Hypervisor infrastructure health.<br>e) Cloud monitoring and integration tool shall have capability to identify the top VMs which are contributing towards maximum IOs and Latency. | "Cloud enabled monitoring and analytics engine integration with Hypervisor:<br>a) Offered Cloud enabled monitoring and analytics engine shall be tightly integrated with Hypervisor layer and shall be certified to work with at-least VMware/Redhat/MS Hyperviser<br>b) Hypervisor integration shall be able to provide end to end monitoring of hypervisor Data centre, Data-store, Hypervisor Host and VMs running within the hypervisor data centre and shall be able to link with offered storage array.<br>c) Cloud monitoring and integration tool shall provide AI based recommendations to improve Hypervisor infrastructure health. |

| 12 | 87 | 20.2 | 12.Data console(Management):Offered Storage array should have cloud native data console for managing unlimited number of arrays. Cloud native console shall provide following functionalities:<br>a) Common Dashboard for all managing multiple arrays through a single cloud native data console.<br>b) Main Dashboard shall provide the information of Total number of Arrays, Volumes, hosts, Capacity and performance information of top Arrays and Volumes.<br>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.<br>d) Common Audit management for all arrays<br>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.<br>f) Offered console shall advise about Placement of application on best fit system based on workload after application tagging.<br>g) Shall be able to provide the context aware software updates on the storage array.<br>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 | 12.Data console(Management):Offered Storage array should have  console for managing unlimited number of arrays. Console shall provide following functionalities:<br>a) Common Dashboard for all managing multiple arrays through a single console.<br>b) Main Dashboard shall provide the information of Total number of Arrays, Volumes, hosts, Capacity and performance information of top Arrays and Volumes.<br>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.<br>d) Common Audit management for all arrays<br>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.<br>f) Offered console shall advise about Placement of application on best fit system based on workload after application tagging.<br>g) Shall be able to provide the context aware software updates on the storage array.<br>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 |
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| 13 | 87 | 20.2 | 13.Life cycle Management: Management application shall be truly cloud native or on-prem so that there shall be no need to configure, upgrade, patching of management application during the life-cycle of support contract and shall be offered as a service. | 13.Life cycle Management: Management application shall be truly cloud native or on-prem |
| 14 | 80 | 20.1 | 7. I/O slots: Server should support up to Six PCI-Express 5.0 x16 slots. Additional two x8 or higher PCIe 5.0 slots. | "Server shall have minimum two PCIe 5.0 free slots after meeting the asked requirement" |
| 15 | 81 | 20.1 | 12. Other Interfaces: Minimum 1 x 1Gbps Dedicated OOB system management port (RJ-45), 1 x video port, 3 x USB 3.0 ports | "Other Interfaces: Minimum 1 x 1Gibps Dedicated OOB system management port (RJ-45), 1 x video port, 2 or higher USB 3.0 ports" |
| 16 | 81 | 20.1 | 15. System Management & Security: FIPS 140-3, TPM 2.0, CNSA | "System Management & Security: FIPS 140-2 or higher, TPM 2.0, CNSA" |
| 17 | 117 | 20.15 | It should support 1080p 60 fps,1080p 30 fps ,720p 60 fps ,720p 30 fps. | It should support 4K 30fps, 1080p 30fps, 720p 30 fps or higher fps" |

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| 18 | 118 | 20.15 | 3 x HDMI/USB inputs to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required. | 3 x HDMI/USB inputs directly on the codec or via external hardware to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required." |
| 19 | 119 | 20.15 | 3 x Microphone Inputs or more with support for minimum 3 digital omnidirectional mics. The bidder needs to quote 2 digital omnidirectional microphones with mute/unmute soft touch button on the microphone. Each microphone should have at least 20 feet pickup range. | 3 x Microphone support directly/cascading on the codec or via external hardware to connect minimum 3 digital omnidirectional mics. The bidder needs to quote 2 digital omnidirectional microphones with mute/unmute soft touch button on the microphone. Each microphone should have at least 20 feet diameter pickup range" |
| 20 | 119 | 20.15 | 1 x RS-232 Serial Port or equivalent port for connecting to external RS-232 controller | 1 x RS-232 Serial Port or REST API / CLI over IP or equivalent port for connecting to an external RS-232 controller |
| 21 | 119 | 20.15 | 1/2.33" CMOS sensor or better with at least Horizontal field of view : 65° | 4K/Full HD CMOS sensor or better with at least 70° HFOV |
| 22 | 119 | 20.15 | The camera supplied should be connected to VC codec over a single cable for camera PTZ control, video out and power to avoid cable clutter. | Deleted |
| 23 | 74 | 19 | c) T is the event marking date of signing of Agreement with the successful bidder | T' , wherever is mentioned in Delivery timelines to be considered as date of receipt of work order. |
| 24 | 58 | 14.4.1 | 1. Site Preparation of the proposed in terms of the civil, electrical and mechanical work required to Build and maintain the site    2. Supply, installation and setting up of the necessary basic Infrastructure    3. Five years on-site maintenance of all the equipment's and their components.    4. On demand support for Operations on 24*7*365 basis by skill manpower / Personnel for a period of five years to ensure availability | Bidder must consider operation manpower to comply SLA and RFP requirements. For project execution manpower, it has been mentioned in the RFP elaborately. |
| 25 | 19 | 11 | The Bid can be submitted by an individual organization or a consortium of a maximum of two organizations. In case of a consortium, One of the consortium partner should be a local partner having registered office at Bhubaneswar, Odisha. In case of consortium, the same shall be formed under a duly stamped consortium agreement and signed by the authorized signatories of the companies. In the event of a consortium, one of the partners shall be designated as a "Prime Bidder". In Consortium all the members shall be equally responsible to complete the project; however prime bidder shall give an undertaking for successful completion of the project. In case of any issues, prime bidder would be responsible for all the penalties. | Please refer corrigendum for Format |

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| 26 | 61 | 14.6 | **Bidders should submit 3D drawing of each site** in terms of civil infrastructure in the bid. | 3D drawing is in the Scope of System Integrator/s which has to be submitted before commencement of work at each site. |
| 27 | 62 | 14.10 | All cutting and drilling of walls or other elements of the building for the proper entry/installation of inserts, boxes, equipment, etc. shall be carried out using electrically operated tools only. Manual drilling, cutting, chiselling, etc. shall not be permitted. | Manual Drilling and cutting is permitted beyond office hours and with minimal disturbances to the occupants. |
| 28 | 66 | 15.1.7 | All air conditioning refrigerant pipes must be concealed and insulated. | As per bidder's solution |
| 29 | 67 | 15.1.8 | All the data cables to be laid to the communication room on the adjacent of conference room where UPS and batteries are installed. | Bidder to consider jack panels in racks for 48 ports. Termination is in scope of bidder |
| 30 | 74 | 18.1 | During O&M phase The System Integrator must deploy technical manpower in the five zones and report to Service Manager for smooth operation during the O&M phase. | As per bidder to comply SLA. |
| 31 | 113 | 20.13 | Power Rating kVA / kWe : Minimum 16 KVA/12.8 Kwe | Minimum requirement is 16KVA. Bidder may quote for higher rating available. |
| 32 | 113 | 20.13 | Current (1 phase) (A) : **70** | Single phase current can be 70A or more |
| 33 | 113 | 20.13 | Required Certified Power for Rated kVA (hp) : 21.5 | This is electrical calculation only. Required horse power of the engine should be 21.5 hp or more. |
| 34 | 115 | 2014 | Input Plug : IEC 309 NEMA socket or screw terminals Output : IEC 309 NEMA socket or screw terminals | As per OEM standard. Terminal board socket can be accepted |
| 35 | 501 | 23 | As-Is Layouts | Please include as per your solution |
| 36 | 620 | 24 | Proposed Layouts | Will be made available to the Bidder who will become system integrator of the project. |
| 37 | 80 | 20.1(2) | 2 nos. of Intel Xeon/AMD EPYC Processor should be from latest 4th Gen or higher announced series Processor. 64-bit x86 processor fully binary compatible to 64/32-bit applications. Number of cores on a single die/socket will be treated as a single processor. Server - Type 1: 2 x 32-core, minimum 2.1GHz clock. Server- Type 2: 2 x 16-core, minimum 3.6GHZ clock. | 2 nos. of Intel Xeon/AMD EPYC Processor should be from latest 4th Gen or higher announced series Processor. 64-bit x86 processor fully binary compatible to 64/32-bit applications. Number of cores on a single die/socket will be treated as a single processor. Server - Type 1: 2 x 32-core, minimum 2.1GHz clock. Server- Type 2: 2 x 8-core, minimum 3.6 GHZ clock. |
| 38 | 93 | 20.5 | Quad redundant hot-swap fans | redundant hot-swap fans with N+1 failover" |
| 39 | 17 | 10 | INR 80,00,000/-(Eighty Lakhs) in the form of Bank Guarantee / Demand Draft drawn on a Nationalized Bank or Scheduled Commercial Bank in favor of "Odisha Computer Application Centre" and payable at Bhubaneswar, Odisha | <mark>Payee Name : OCAC Training Bank Name & Branch: Union Bank of India, Acharya Vihar, Bhubaneswar</mark> |

| 40 | 65 | 15.1.6 | 15.1.6 Civil and Interior work<br>The modernization will involve a lot of interior work in SEOC such as carpet flooring, baffle ceiling, wall panelling, Glass panelling etc. All the installation must be done with OEM supervision only. | OEM supervision is required for Videowall, Technical furniture, Diesel generator, UPS systems, Video conferencing systems, EPABX sysyem only. |
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| 41 | 66 | 15.1.7 | The system integrator has to check the existing earth pits and confirm the resistivity. In case required the earth pits must be recharged. Similarly, the lightning arrester for the building must be checked and if required, the same must be replaced with new. | Bidder to check as per the radial coverage of the Lightning arrestor and related site conditions. |
| 42 | 69 | 15.2.8 | Data cabling has to be done in the room. The I/Os must be on each desk for the operation centre. For the conference rooms I/Os to be installed on the table and on the wall. | Dual Port |
| 43 | 72 | 15.7 | 15.7 Testing and Commissioning<br>As the servers are meant for critical application, system integrator along with OEM should conduct thorough testing post installation to ensure new hardware are fully operational as per the specification. Before final commissioning, load testing needs to be done and monitor any performance issue | OEM supervision is required for Videowall, Technical furniture, Diesel generator, UPS systems, Video conferencing systems, EPABX system only. |
| 44 | 128 | 20.18 | 7 Battery Lithium Ion ( 60 mins back up) | Battery back up will be for full load |
| 45 | 129 | 20.19 | 2 Star Rating Min 3 STAR<br>10 ISEER 5 | Consider 3 Star only |
| 46 | 32 | 3 | Service Centre in Bhubaneswar | This is desired. Not mandatory |
| 47 | 97 | 20.6 | 12. IT Hardware & OS to host the application<br>OS Version- Windows 2019 | OS Version- Windows 2019 or Windows 11 or latest |
| 48 | 16 | 9.1.3 | Integration of Satark application will be made with DSS, EWDS, CAP, Mass Messaging System for Dissemination of disaster warning to the community through mobile app, SMS, and cell broadcast and other mechanism. | This is not under scope of bidder. This is for information only |
| 49 | 480 | 12.12.2 B | Videowall 1.25 pp | 2.0 or better for SEOC and 1.5mm or better for DEOC |
| 50 | 102 | 20.9 | 1.25mm or better | 2.0 or better |
| 51 | 103 | 20.9 | 32GB | 8 GB or better |
| 52 | 103 | 20.9 | 480 GB HDD | 64 GB or better |
| 53 | 105 | 20.10 | 1.25mm or better | 1.5mm or better |
| 54 | 108 | 20.11 | 5000:01:00 | As per OEM |
| 55 | 108 | 20.11 | 2.2 | As per OEM |
| 56 | 109 | 20.11 | Auto Brightness Sensor | As per OEM |
| 57 | 109 | 20.11 | Required | As per OEM |
| 58 | 110 | 20.11 | Max. 40 Points (Windows) Max 32 Points (Andriod) | As per OEM |
| 59 | 110 | 20.11 | Quad Core A55 | As per OEM |
| 60 | 110 | 20.11 | MAIL G62 Multicore 2 | As per OEM |
| 61 | 107 | 20.10 | Pixel Pitch(mm) : 1.25mm or better | 1.5mm or better |
| 62 | 107 | 20.10 | RAM : 32 GB | 8 GB or better |
| 63 | 102 | 20.9 | Pixel Pitch(mm) : 1.25mm or better | 2.0 or better |
| 64 | 108 | 20.11 | PIP | Consider it as PIP/PBP |

| 65 | 108 | 20.11 | PBP- YES (2PBP) | Consider it as PIP/PBP |
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| 66 | 108 | 20.11 | Safey -CB / NRTL | BIS/RoHS will be accepted |
| 67 | 108 | 20.11 | EMC-FCC Class "A" / CE | BIS/RoHS will be accepted |
| 68 | 108 | 20.11 | Multitouchpoint-Max. 40 Points(Windows), Max. 32 Points(Android) | As per OEM standard |
| 69 | 108 | 20.11 | ERP / Energy Star-YES / YES | As per OEM standard |
| 70 | 80 | 20.1 | Server should support up to Six PCI-Express 5.0 x16 slots. Additional two x8 or higher PCIe 5.0 slots. | "Server shall have minimum two PCIe 5.0 free slots after meeting the asked requirement" |
| 71 | 81 | 20.1 | Minimum 1 x 1Gbps Dedicated OOB system management port (RJ-45), 1 x video port, 3 x USB 3.0 ports | "Other Interfaces: Minimum 1 x 1Gibps Dedicated OOB system management port (RJ-45), 1 x video port, 2 or higher USB 3.0 ports" |
| 72 | 93 | 20.5 | Minimum 42MB system buffer. | "Minimum 40MB or higher system buffer." |
| 73 | 94 | 20.5 | Dual software images with clear isolation. | Deleted |
| 74 | 93 | 20.5 | Maximum 500ns latency. | This may be read as: "Maximum 1000ns or 1ms latency." |
| 75 | 95 | 20.5 | OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for switches. | OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India or should be from the leader's quadrant as per latest published Gartner's primary storage MQ report. |
| 76 | 117 | 20.15 | Full HD 1080p60 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 Codec, Omnidirectional Digital Microphone, Cables and Touch Control Panel from the same OEM |
| 77 | 118 | 20.15 | It should support Content Annotation and White Boarding/Blackboarding capability when connected to Touch Enabled Display/Monitor. | Deleted |
| 78 | 118 | 20.15 | It should have inbuilt technology to create virtual boundary within the room to capture only the voices within a defined space in the room and blocking any human or non-human voice getting generated outside this virtual audio boundary during video calls. | Deleted |
| 79 | 118 | 20.15 | 1 x HDMI input to share 4K/Full HD content from PC/Laptop/Document camera/PTZ Camera. | Deleted |
| 80 | 118 | 20.15 | 3 x HDMI/USB inputs to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required. | The clsuse may be read as 3 x HDMI inputs directly on the codec or via external hardware to connect additional PTZ cameras from same OEM to capture whiteboard/presenter and podium area in future whenever required |
| 81 | 119 | 20.15 | Bluetooth 5.0 and WIFI 802.11a/b/g/n/ac (MIMO) for Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS) | The system should have inbuilt functionality or via external hardware to support Wireless Content Sharing for Guests using their Smartphones and Tablets (Android and iOS) |

| 82 | 119 | 20.15 | The camera supplied should be connected to VC codec over a single cable for camera PTZ control, video out and power to avoid cable clutter. | Deleted |
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| 83 | 120 | 20.15 | The system should be supplied with 10 mtrs. Single USB 3.0 cable from the same OEM for USB Pass-thru mode for seamless functionality. | The system should be supplied with 9mtrs. or higher single USB 3.0 cable from the same OEM for USB Pass-thru mode for seamless functionality |
| 84 | 121 | 20.15 | It should be possible to natively register the VC system with Microsoft Teams Room and Zoom Room account for native cloud based video calling features and experience. USB Pass- Thru mode functionality should also be available when the system in running in Microsoft Teams Room / Zoom Room mode. | It should be possible to natively register the VC system with but not limited to Microsoft Teams Room and Zoom Room account for native cloud based video calling features and experience. USB Pass- Thru mode functionality should also be available when the system in running in Microsoft Teams Room / Zoom Room mode. It should support all cloud based meeting platform like Team, Zoom, Webex, google meet. Etc. |
| 85 | 102 | 20.9 | Inputs 3 x HDMI 2.0 ( 2 internal and 1 external) - Required | Inputs 1 x HDMI 2.0, 3 x HDMI 1.4 |
| 86 | 102 | 20.9 | RS 485 x 1 (Internal) - Required | OPS interface |
| 87 | 102 | 20.9 | Picture in Picture- Should Support HDMI 2.0 Signal Picture in Picture | Should Support HDMI 2.0/1.4 Signal Picture in Picture |
| 88 | 81 | 20.1 | a) Minimum 4 x 1G (RJ-45)<br>b) Minimum 2 x 25G SFP28 (with 25G-SR transceivers)<br>c) Minimum 2 X 32G FC (with 32G-SW transceivers) | a) Minimum 4 x 1G (RJ-45)<br>b) Minimum 2 numbers of Dual 25G SFP28 (with 25G-SR transceivers)<br>c) Minimum 2 number of Dual 32G FC (with 32G-SR transceivers) |
| 89 | 91 | 20.3 | SAN switch shall be configured with minimum of 24 ports of 32G FC. | SAN switch shall be configured with minimum of 24 ports of 32G FC populated with 32G FC transceiver |
| 90 | 93 | 20.5 | 48-port 1/10/25 Gb SFP28 and 12-port 40/100 Gb QSFP28. | 48-port 1/10/25 Gib SFP28 and 4-port 40/100 Gib QSFP28 populated with 48 numbers of 25G SR transceiver and 4 number of 40G SR transceiver. |
| 91 | 93 | 20.5 | 4.8 Tbps switching capacity. | 2.8 Tibps switching capacity. |
| 92 | 95 | 20.5 | a) 24 x 25G SR transceivers<br>b) 24 x 10G SR transceivers<br>c) 2 x 100G DAC cable (min 0.5 mtrs ot higher) | deleted |
| 93 | 92 | 20.4 | Rack-mountable switch shall have minimum 24 no's RJ-45 autosensing 10/100/1000 ports and 4x10G SFP+ ports. | 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 |
| 94 | 92 | 20.4 | OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for switches. | 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. |

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| 95 | 137 | 20.22 | Table-top: - The material of the working surface shall be minimum 25 mm thick MDF with High Pressure laminate. The proposed Control Desk's life cycle should be assessed (from approved LCA consultant) for environmental impacts associated with all the stages of a product's life for cradle to grave analysis. Valid report/document from UL/Intertek to be submitted along with the technical bid. | Table-top: - The material of the working surface shall be minimum 25 mm thick MDF with High Pressure laminate. |
| 96 | 137 | 20.22 | Modular removable PU nosing: In the control room the front edge of consoles is the component which comes in frequent contact of the operator. The soft polyurethane edge is meant to prevent injury (accidental impact) to operator during emergency and it also reduces the contact stress. In case of damage to this edge the desk design shall permit quick & easy replacement within half an hour without taking any shutdowns or removal of the tabletops. Audit certified design feature of modular PU Edge: High density poly-urethane moulded on industrial grade aluminium core to form 50mm deep tapered edge to be installed on worktop. The edge shall be mechanically replaceable within 30 minutes, in case of damage or wear without opening or removing the worktop. Valid UL audit certificate to be submitted along with technical bid. Extruded PU edging/PVC T-beading shall be deemed unacceptable. | Modular removable PU nosing: In the control room the front edge of consoles is the component which comes in frequent contact of the operator. The soft polyurethane edge is meant to prevent injury (accidental impact) to operator during emergency and it also reduces the contact stress. In case of damage to this edge the desk design shall permit quick & easy replacement within half an hour without taking any shutdowns or removal of the tabletops. |
| 97 | 137 | 20.22 | Monitor Arm: - The Console shall feature ergonomic display mounting arms. It shall enable quick & easy replacement of VESA mounts & arm extensions as per the ergonomic. UL audit certified design feature of monitor arm assembly shall have auto lock, push & remove feature for quick release of VESA mounts and modular arm extensions for ease in maintenance and fixing of monitor by one technician within 30 seconds without using any tools. Valid UL audit certificates shall be submitted along with technical bid. | Monitor Arm: - The Console shall feature ergonomic display mounting arms. It shall enable quick & easy replacement of VESA mounts & arm extensions as per the ergonomic. monitor arm assembly shall have auto lock, push & remove feature for quick release of VESA mounts and modular arm extensions for ease in maintenance and fixing of monitor by one technician within 30 seconds without using any tools. |
| 98 | 140 | 20.23 | 2. The working side edge: - Audit certified design (from UL / Intertek) feature on front modular Polyurethane (PU) Edge. High density Poly Urethane Foam moulded on industrial grade aluminium core to form minimum 50mm deep tapered edge to be installed on worktop. The edge shall be mechanically replaceable within 30 minutes in case of damage or wear without opening or removing the top. The necessary certificate / test report to be submitted along with the technical bid. | 2. The working side edge: - High density Poly Urethane Foam moulded on industrial grade aluminium core to form minimum 50mm deep tapered edge to be installed on worktop. The edge shall be mechanically replaceable within 30 minutes in case of damage or wear without opening or removing the top. |
| 99 | | | Price Bid | The additional items if so required by Bidder to complete the job in all respect will be on 'LOT' basis site wise. Payment will be not be made as per measurement but on LOT basis only for these additional items. |
| 100 | | | Price Bid | No change order will be accepted during execution for Extra Items beyond the offered items already |

| | | | | mentioned in the price bid and the items added by the bidder. |
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# PART - B

# Consortium Agreement (Draft)

**(To be printed on Rs. 500/- Stamp Paper, singed and stamped by Notary Public)**

This Consortium Agreement (hereinafter the "Agreement") entered into this day of Two Thousand and Eighteen ("**Date of Signing**") **BETWEEN** _____ _____ through Authorised Signatory

Having their principal place of business at _____ in India for and on behalf of (hereinafter called "the System Integrator") of the **ONE PART**;

**AND**_____ through Authorised Signatory having their principal place of business at in India for and on behalf of _____ (hereinafter called "the Consortium Partner") of the **SECOND PART**

# RECITALS

Tender No. OCAC/_____/____ Dated __/____/____ (hereinafter the "Tender Document"), Request for Proposal for Selection of System Integrator for Enhancement of IT Capability of OSDMA and Modernization of GIS Cell, SEOC and DEOCs. covering various detail scope of work in the RFP (hereinafter the "OSDMA modernisation Project");

As specified in clause of the Tender Document, the Bidder has formed a consortium and hereby enters into this Agreement and the Parties have agreed to the participate as members of the Consortium subject to said terms and conditions of this Agreement

The members of the Agreement shall each be referred to as the "Party" and together as the "Parties"

**NOW THEREFORE**, in consideration of the mutual covenants of the Parties, the sufficiency whereof is hereby acknowledged and other good valuable consideration, the Parties agree as follows:

# 1 Definitions and Interpretation Definitions

Capitalized terms used in this Agreement shall have their respective defined meanings, and/or shall have the meaning specified in the Contract and the Tender Document and subsequently signed Contract between Authority and Bidder, unless the context expressly or by necessary implication otherwise requires.

"**Contract**" shall mean the Contract entered by the Bidder and Authority **Interpretation**

a) For the purpose of this Agreement, where the context so admits,
   (i)    the singular shall be deemed to include the plural and vice-versa, and
   (ii)   masculine gender shall be deemed to include the feminine gender and vice-versa.
b) References to a "person" if any shall, where the context so admits, include references to natural persons, partnership firms, companies, bodies corporate and associations, whether incorporated or not or any other organisation or entity including any governmental or political subdivision, ministry, department or agency thereof;
c) The headings and sub-headings are inserted for convenience only and shall not affect the construction and interpretation of this Agreement.
d) References to the word "include" and "including" shall be construed without limitation.
e) any reference to day shall mean a reference to a calendar day;

# 2 Purpose of Consortium Agreement

The purpose of this Agreement is to specify the responsibilities of the Parties towards the Authority, supplement the provisions of the Contract and the Tender Document concerning the Project and to set out further rights and obligations of the Parties supplementing but not conflicting with those present in the Contract and the Tender Document.

# 3 Duration

This Agreement shall come into force as of the Date of Signing and shall continue in full force and effect until the complete discharge of all obligations, concerning the carrying out of the Project, which have been taken on by the Parties under the Contract, Tender Document and under this Agreement.

# 4 Coordinator

The Parties hereby understand and agree that there shall be a "Lead Member" who shall be the point of contact for the purpose of the Project. It is hereby agreed by the Parties that for the purpose of the Agreement << Company name>> have been appointed as Prime Bidder. The Prime Bidder shall be specifically authorised by the Parties to make

representations and declarations on their behalf. However, it is clarified that every member of the consortium shall be equally responsible and jointly and severally liable for the successful completion of the entire Project.

For the purpose of this Agreement, the Tender Document and the Contract, the Prime bidder shall be the single point of contact for the Authority, shall have the overall responsibility of the management of the Project and shall have single point responsibility for ensuring that all members of the consortium are complying with the terms and conditions set out in the Contract and the Tender Document.

All instructions/communications from Authority to the Prime bidder shall be deemed to have been duly provided to all the members of the consortium.

For the avoidance of doubt, it is hereby clarified that all Parties of the consortium shall be individually, jointly & severely responsible for the obligations under the Tender Document, Contract and this Agreement, irrespective of the specific roles/responsibilities undertaken by them.

## 5 Rights and Obligations

For delivery of all services as per the agreement with Authority, Prime bidder shall be primarily accountable and responsible.

The Prime bidder shall be responsible for the transmission of any documents and information connected with the Project to the Parties concerned.

It is hereby clarified that representations and declarations made by the Prime bidder shall be legally binding on all the Parties of the Agreement.

Each Party shall use reasonable efforts to perform and fulfil, promptly, actively and on time, all its obligations under the Tender Document, Contract and this Agreement. All commercials' activities with Authority will be conducted by the Prime bidder.

## 6 Responsibilities towards each other

Each Party undertakes:-

1. To promptly notify each of the Parties about any significant delay in fulfilment of milestones in relation to the Project.

2. To inform other Parties of relevant communications it receives from third parties in relation to the Project.

3. Each Party shall use reasonable efforts to ensure the accuracy of any information or materials it supplies hereunder or under the Contract and promptly to correct any error that came to its knowledge.

4. Each Party shall act in good faith. When a Party believes that for carrying out the Project or use of knowledge from the Project it might require access rights to another Party's pre-existing know-how or to another Party's knowledge and material which is not from the Project, it shall obtain written permission from the Party prior to the use of such material.

5. Each Party shall abide with the terms of confidentiality as described in Tender Document and shall also abide with all the clauses of the Tender Document.

6. Each Party shall share and disclose information including confidential information and documents as may be necessary for the Project. The Parties hereby understand and agree that the information shall be used solely for the purpose of the Project and not for its own use or for any third-party benefit.

## 7 Liabilities

Liability towards each other

The Parties hereby understand and agree that all the Parties shall be jointly and severally liable for any default with regard to the deliverables as per the Tender Document.

Indemnification of a Party to other

Each Party shall indemnify each of the other Parties, in respect of liability resulting from acts or omissions of it.

## 8 Assignment

No Party shall, without the prior written consent of the Authority and of the other Parties, assign or otherwise transfer partially or totally any of its rights and obligations under Agreement.

The Parties hereby represents and warrants that: -

They are duly organised and validly existing under the laws of India and have full power and authority to enter into this Agreement and to perform its obligations under this Agreement. The execution and validity of this Agreement and the consummation of the transactions contemplated by this Agreement have been duly authorised by all necessary action on the part of the Parties.

This Agreement constitutes a valid and binding obligation of the Parties, enforceable against them in accordance with the terms hereof, and the execution, delivery and performance of this Agreement and all instruments or agreements required hereunder do not contravene, violate or constitute a default of or require any consent or notice under

any provision of any agreement or other instrument to which the Bidder is a party or by which the Bidder are or may be bound.

Each of the representations and warranties shall be construed as a separate representation, warranty, covenant or undertaking, as the case may be, and shall not be limited by the terms of any other representation or warranty or by any other term of this Agreement.

The Parties have read, understood and agree with the terms of this Agreement and the Tender Document.

## 9 Miscellaneous

(a) This Agreement shall be specifically enforceable at the instance of any of the Parties.

(b) Notices, demands or other communication required or permitted to be given or made under this Agreement shall be in writing in the English language and delivered personally or sent by prepaid post with recorded delivery addressed to the intended recipient at its address set forth below:

If to the Party of the First Part

 [Add name]

[Add address]

Attention: [add name of the person]

If to the Party of the Second Part

[Add name]

[Add address]

Attention: [add name of the person]


(c) Any such notice, demand or communication shall, unless the contrary is proved, be deemed to have been duly served at the time of delivery in the case of service by delivery in person or by registered post.

(d) Each Party shall bear its own legal, accounting, professional and advisory fees, commissions and other costs and expenses incurred by it in connection with this Agreement and the transactions contemplated herein.

(e)This Agreement supersedes all prior discussions and agreements (whether oral or written, including all event of any conflict between the terms of this Agreement and the Contract and the Tender Document, the terms of the Contract shall prevail.

(f) Any provision of this Agreement, which is invalid or unenforceable, shall be ineffective to the extent of such invalidity or unenforceability, without affecting in any way the remaining provisions hereof.

(g) This Agreement shall be governed and interpreted by, and construed in accordance with the substantive laws of India, without giving effect to the principles of conflict of laws there under.

(h) Any and all disputes or differences between the Parties arising out of or in connection with this Agreement or its performance shall, so far as it is possible, be settled amicably through consultation between the Parties

If after 30 (thirty) days of consultation, the Parties have failed to reach an amicable settlement, on any or all disputes or differences arising out of or in connection with this Agreement or its performance, such disputes or differences shall be submitted to final and binding arbitration. The arbitration panel shall consist of three arbitrators: one nominated by _____ [add name of Party of the First Part], one nominated by _____ [add name of Party of the Second part] and the third nominated jointly by both the parties. The arbitration shall be governed by the Odisha Arbitration Tribunal Act. The place of arbitration shall be Bhubaneswar, India. The language to be used in the arbitration proceedings shall be English. The award of the arbitration proceedings will be final and binding on both Parties to the Agreement.

(i) This Agreement shall be governed by the laws of India.

**IN WITNESS WHEREOF**, the Parties have entered into this Agreement the day and year first above written.

**[add name of the party of the First Part]**

Authorised Signatory:

Name:

Designation:

In the presence of:

Name:

Address:

**[add name of the party of the Second Part]**

Authorised Signatory:

Name:

Designation:

In the presence of:

Name:

Address:

# PART – C

## 12.12.2     Technical Bid Evaluation Scoring Matrix

**B. Technical Evaluation for Non-IT Devices: (Total Score: 30)**

| SI No | Name of Device | Max Score | Parameter | Specification | Score |
|---|---|---|---|---|---|
| 1 | UPS System | 8 | AC Efficiency | =≥ 95% | 4 |
| | | | | <95% | 1 |
| | | | UPS input power factor | ≥ 98 | 3 |
| | | | | <98 | 1 |
| | | | Service Centre in Bhubaneswar | Yes | 1 |
| | | | | No | 0 |
| 2 | Diesel Generator | 8 | Engine Volumetric Capacity | => 2.5 Litres. | 3 |
| | | | | < 2.5 Ltr | 1 |
| | | | Voltage Regulations | Less than +/- 1 % | 3 |
| | | | | = +/- 1 % | 1 |
| | | | Service Centre in Bhubaneswar | Yes | 2 |
| | | | | No | 1 |
| 3 | Video Wall - DEOC | 8 | Pixel Pitch(mm) | >=1.5 | 0.5 |
| | | | | 1.25 to 1.49 | 1 |
| | | | | <1.25 | 2 |
| | | | Speaker | Built in | 1 |
| | | | | External | 0.5 |
| | | | RAM | >=8GB | 1 |
| | | | | <8GB | 0.5 |
| | | | Storage | >=32GB | 1 |
| | | | | <32GB | 0.5 |

| | | | Brightness | >=500nits | 1 |
|---|---|---|---|---|---|
| | | | | <500nits | 0.5 |
| | | | Manufacturing of the product in India | Yes | 2 |
| | | | | No | 0 |
| 4 | Flat Panel Display | 6 | Brightness | >=390nits | 2 |
| | | | | <390 nits | 0.5 |
| | | | Max power consumption | >=420W | 1 |
| | | | | <420 W | 2 |
| | | | Life Time(hrs) | >=50000 | 1 |
| | | | | <50000 | 0.5 |
| | | | Service Centre in Bhubaneswar | Yes | 1 |
| | | | | No | 0 |

## 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 Minimum 2.1 GHz clock | 4 |
| | | | Processor Type-1 should have 2 x 32 cores and less than 2.1 GHz clock rate | 3 |
| | | | Processor Type-2 should have 2 x 8 cores or higher, minimum 3.6 GHz clock rate and more. | 4 |
| | | | Processor Type-2 should have 2 x 8 cores less than 3.6 GHz clock rate. | 3 |
| 2 | Storage | 5 | RAID Support: Offered Storage array shall be provided with three drive failure protection simultaneously | 3 |
| | | | RAID Support: Offered Storage array shall be provided with two 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. | |
| 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 tranceeiver | 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 last Date and Time of Submission of Bid is on 24.10.2024 by 2 PM**

**The Date of Opening of Pre-Qualification Bids (PQ) is on 24.10.2024 at 4 PM**