



**RFP for IT Infrastructure Equipment's (SAN Switches, Storage and
Backup Software)
for
Odisha State Data Centre (OSDC) Bhubaneswar**

RFP Enquiry No. : OCAC-NEGP-INFRA-0010-2022-22048

Date : 29-Aug-2022

RFP SCHEDULE

| Sl. No. | Items | Date & Time |
|----------------|--|-------------------------|
| 01 | Commencement of the bid | 29 Aug 2022 |
| 02 | Last date for receiving queries through E-mail: osdc@ocac.in, sk.bhol@nic.in | 06 Sep 2022 |
| 03 | Pre Bid Conference | 08 Sep 2022 at 4:00 PM |
| 04 | Issue of Corrigendum (if required) | 13 Sep 2022 |
| 05 | Last date and time for Submission of Bid through GEM portal. | 27 Sep 2022 by 02:00 PM |
| 06 | Opening of Pre-Qualification (PQ) | 27 Sep 2022 by 04:30 PM |
| 07 | Opening of Commercial Bids (CB) | To be informed. |

Table of Contents

| | | |
|--------|--|----|
| 1. | Information & Background | 5 |
| 2. | Instructions to the Bidders | 5 |
| 2.1. | General | 5 |
| 2.2. | Compliant Tenders / Completeness of Response | 5 |
| 2.3. | Pre-Bid Meeting & Clarifications | 5 |
| 2.3.1. | Bidders Queries | 5 |
| 2.3.2. | Responses to Pre-Bid Queries and Issue of Corrigendum..... | 6 |
| 2.4. | Key Requirements of the Bid | 6 |
| 2.4.1. | Right to Terminate the Process | 6 |
| 2.4.2. | Right to alter Quantities | 6 |
| 2.4.3. | Confidential Information..... | 7 |
| 2.4.4. | Bid Security | 7 |
| 2.4.5. | Performance Bank Guarantee (PBG) | 7 |
| 2.4.6. | Deadline for Submission of proposals | 7 |
| 2.4.7. | Late Bids | 8 |
| 2.5. | Offer Validity | 8 |
| 2.6. | Delivery | 8 |
| 2.7. | Product Specifications & Compliance Statement: | 8 |
| 2.8. | Price..... | 8 |
| 2.9. | Unsatisfactory Performance | 8 |
| 2.10. | Dispute Resolution | 8 |
| 2.11. | Force Majeure..... | 9 |
| 2.12. | Disclaimer..... | 9 |
| 2.13. | IT Act..... | 9 |
| 2.14. | Declaration | 9 |
| 3. | Scope of Work | 11 |
| 3.1. | SAN Switches..... | 11 |
| 3.1.1. | Total Quantity = 02 Nos (96 Ports) | 11 |
| 3.1.2. | Technical Specification (Make and Model)..... | 11 |
| 3.2. | Enterprise Storage | 12 |
| 3.2.1. | Total Quantity = 01 Nos (1 PB) | 12 |
| 3.2.2. | Technical Specification (Make and Model)..... | 12 |
| 3.3. | File and Object Storage | 17 |
| 3.3.1. | Quantity = 01 No (500 TB) | 17 |
| 3.3.2. | Technical Specification (Make and Model)..... | 17 |
| 3.4. | Backup Software | 19 |
| 3.4.1. | Quantity = 01 (Set) | 19 |

| | | |
|--------|--|----|
| 3.4.2. | Technical Specification (Make and Model)..... | 19 |
| 4. | Eligibility Criteria..... | 24 |
| 4.1. | Pre-qualification Criteria..... | 24 |
| 4.2. | Bid Evaluation | 26 |
| 4.2.1. | Pre-Qualification | 26 |
| 4.2.2. | Technical Bid Evaluation..... | 26 |
| 4.2.3. | Commercial Bid | 26 |
| 4.2.4. | Commercial Bid Evaluation | 27 |
| 4.2.5. | Correction of Arithmetic Errors | 27 |
| 4.3. | Other Terms & Conditions of RFP..... | 27 |
| 4.3.1. | Bid Submission | 27 |
| 4.3.2. | Authentication of Bids | 28 |
| 4.4. | Special Conditions of Contract | 28 |
| 4.4.1. | Price Basis..... | 28 |
| 4.4.2. | Billing..... | 28 |
| 4.5. | Payment | 28 |
| 4.6. | Penalty | 28 |
| 4.7. | Warranty | 28 |
| 5. | Appendix I: Bid Templates | 29 |
| 5.1. | Bid Security Declaration | 29 |
| 5.2. | Manufacturers /Producers Authorization Form (MAF) | 30 |
| 5.3. | Declaration and Undertaking from Original Equipment Manufacturer (OEM) ... | 31 |
| 5.4. | Financial Proposal..... | 32 |
| 5.5. | Performance Bank Guarantee (PBG) | 33 |

1. Information & Background

Odisha Computer Application Centre (OCAC), the Designated Technical Directorate of Electronics & Information Technology Department, Government of Odisha, intends to expand the existing IT Infrastructure of State Data Centre (OSDC).

To scale-up the existing Compute Infrastructure below is list of devices to be procured through this RFP:-

- | | |
|-----------------------|-----------|
| 1. SAN Switches | : 02 Nos. |
| 2. Enterprise Storage | : 01 No. |
| 3. Object Storage | : 01 No. |
| 4. Backup Software | : 01 No. |

2. Instructions to the Bidders

2.1. General

- i. While every effort has been made to provide comprehensive and accurate background information, requirements, and specifications, Bidders must form their own conclusions about the requirements. Bidders and recipients of this RFP may wish to consult their own legal advisers in relation to this RFP.
- ii. All information to be supplied by Bidders will be treated as contractually binding on the Bidders, on successful award of the assignment by OCAC on the basis of this RFP.
- iii. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of OCAC with the bidder. OCAC may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of OCAC.

2.2. Compliant Tenders / Completeness of Response

- i. Bidders are advised to study all instructions, forms, requirements, appendices and other information in the RFP documents carefully. Submission of the bid / proposal shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- ii. Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal will be rejected. Bidders must:
 - a. Comply with all requirements as set out within this RFP.
 - b. Submit the forms as specified in this RFP and respond to each element in the order as set out in this RFP.
 - c. Include all supporting documentations specified in this RFP.

2.3. Pre-Bid Meeting & Clarifications

2.3.1. Bidders Queries

- a. OCAC shall hold a pre-bid meeting with the prospective bidders on scheduled date

- at OCAC premises or through Video Web Conference.
- b. The Bidders will have to ensure that their queries for Pre-Bid meeting should reach in e-mail id – osdc@ocac.in , sk.bhol@nic.in. Queries submitted after the scheduled date and time, shall not be accepted.
 - c. The queries should necessarily be submitted in the following format:

| Sl. No. | RFP Document Reference(s) (Section & Page Number(s)) | Content of RFP requiring Clarification(s) | Points of Clarification |
|---------|--|---|-------------------------|
| 1. | | | |
| 2. | | | |

- d. OCAC shall not be responsible for ensuring that the bidder's queries have been received by them. Any requests for clarifications after the indicated date and time shall not be entertained by OCAC.

2.3.2. Responses to Pre-Bid Queries and Issue of Corrigendum

- a. OCAC will endeavor to provide timely response to all valid queries. However, OCAC makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does OCAC undertake to answer all the queries that have been posed by the bidders.
- b. At any time prior to the last date for receipt of bids, OCAC may, for any reason, modify the RFP Document by a corrigendum.
- c. The Corrigendum (if any) & clarifications to the queries from all bidders will be posted on the websites www.ocac.in, www.odisha.gov.in and at GEM Portal
- d. Any such corrigendum shall be deemed to be incorporated into this RFP.
- e. In order to provide prospective Bidders reasonable time for taking the corrigendum into account, OCAC may, at its discretion, extend the last date for the receipt of Proposals.

2.4. Key Requirements of the Bid

2.4.1. Right to Terminate the Process

- i) OCAC may terminate the RFP process at any time and without assigning any reason. OCAC makes no commitments, express or implied, that this process will result in a business transaction with anyone.
- ii) This RFP does not constitute an offer by OCAC. The bidder's participation in this process may result OCAC selecting the bidder to engage towards execution of the contract.

2.4.2. Right to alter Quantities

OCAC reserves the right to reduce the quantity or give repeat order to the **L1 bidder as per requirement**, within the tender validity period of **180 days** from the last date of submission of bid under same terms and conditions with same Specifications

and Rate. Any decision of OCAC in this regard shall be final, conclusive and binding on the bidder. If OCAC does not purchase any of the tendered articles or purchases less than the quantity indicated in the bidding document, the bidder(s) shall not be entitled to claim any compensation.

2.4.3. Confidential Information

OCAC and Selected bidder shall keep confidential and not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.

2.4.4. Bid Security

Bid Security Declaration needs to be submitted along with this bid as per the prescribed format attached in this RFP.

2.4.5. Performance Bank Guarantee (PBG)

- i. OCAC will require the selected bidder to provide a Performance Bank Guarantee (PBG) within 15 days from the Notification of award, for a value equivalent to **3%** of the total order value.
- i. The Performance Bank Guarantee needs to be valid till Entire Project Period of 5 Years. The Performance Bank Guarantee shall contain a claim period of three months from the last date of validity. The selected bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project and Warranty period.
- ii. In case the selected bidder fails to submit performance Bank guarantee within the time stipulated, OCAC at its discretion may cancel the order placed on the selected bidder without giving any notice and barred the bidder in all the future procurement process as per the Bid Security Declaration.
- iii. In that event OCAC may award the Contract, at (L1) rate, to the next best value bidder (L2), whose offer is valid and substantially responsive and determined by OCAC.
- iv. OCAC shall invoke the performance Bank Guarantee in case the selected bidder fails to discharge their contractual obligations during the period or OCAC incurs any loss due to Vendor's negligence in carrying out the project implementation as per the agreed terms & conditions.
- v. Performance Bank Guarantee shall be refunded within three months of the successful completion of the contract period i.e., expiry of "Warranty and Support Services" of individual package.
- vi. No interest will be paid by OCAC on the amount of performance Bank Guarantee

2.4.6. Deadline for Submission of proposals

Proposals, in its complete form in all respects as specified in the RFP, must be submitted through online at the GEM portal on or before the due date as per the RFP.

2.4.7. Late Bids

- i. Bids received after the due date and the specified time for any reason whatsoever, shall not be entertained and shall be returned unopened.
- ii. The bids submitted by telex/telegram/ fax/e-mail etc. shall not be considered. No correspondence will be entertained on this matter.
- iii. OCAC reserves the right to modify and amend any of the above-stipulated condition/criterion depending upon project priorities and need.

2.5. Offer Validity

Offers should be valid for minimum One hundred eighty (180) Days from the date of opening the Technical Bid. A bid, valid for a shorter period, is liable to be rejected. OCAC, Bhubaneswar may ask the bidders to extend the period of validity, if required.

2.6. Delivery

The delivery of infrastructure items to be completed within 12 (Twelve) Weeks from the date of issue of Purchase Order/ Work Order.

Delivery Location: **Odisha State Data Centre (OSDC), Bhubaneswar**

2.7. Product Specifications & Compliance Statement:

The bidder should quote the products strictly as per the tender specifications and only of technically reputed and globally acclaimed brands / makes. Complete technical details along with brand, specification, technical literature etc. highlighting the specifications must be supplied along with the technical bid. A Statement of Compliance shall be given against each item in the prescribed format given in Technical specifications. The compliance statements should be supported by authentic documents. Each page of the bid and cuttings / corrections shall be duly signed and stamped by the authorized signatory. Failure to comply with this requirement may result in the bid being rejected.

2.8. Price

The prices are to be quoted in INR in figure only. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.

2.9. Unsatisfactory Performance

The Parties herein agree that OCAC shall have the sole and discretionary right to assess the performance(s) of the Bidder components(s), either primary and or final, and OCAC, without any liability whatsoever, either direct or indirect, may reject the system(s) component(s) provided by the Bidder, in part or in its entirety, without any explanation to the Bidder, either during the pre and or post test period should the same be unsatisfactory and not to the acceptance of OCAC. The Bidder covenants to be bound by the decision of OCAC without any demur in such an eventuality.

2.10. Dispute Resolution

- i. Any dispute or difference, whatsoever, arising between the parties to this agreement arising out of or in relation to this agreement shall be amicably resolved by the Parties through mutual consultation, in good faith and using their best endeavors. Parties, on

mutual consent, may refer a dispute to a competent individual or body or institution or a committee of experts appointed By OCAC (Nodal Authority) for such purpose and abide by the decisions thereon.

- ii. On non-settlement of the dispute, same shall be referred to the commissioner-cum-secretary to Government, IT department, and Government of Odisha for his decision and the same shall be binding on all parties, unless either party makes a reference to arbitration proceedings, within sixty days of such decision.
- iii. Such arbitration shall be governed in all respects by the provision of the Arbitration and Conciliation Act, 1996 or later and the rules framed there under and any statutory modification or re-enactment thereof. The arbitration proceeding shall be held in Bhubaneswar, Odisha

2.11. Force Majeure

Force Majeure is herein defined as any cause, which is beyond the control of the selected bidder or OCAC as the case may be which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as:

- i. Natural phenomenon, including but not limited to floods, droughts, earthquakes and epidemics.
- ii. Acts of any government, including but not limited to war, declared or undeclared priorities, quarantines and embargos.
- iii. Terrorist attack, public unrest in work area provided either party shall within 10 days from occurrence of such a cause, notifies the other in writing of such causes.

In case of a Force Majeure, all Parties will endeavor to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure

2.12. Disclaimer

This Tender / Request for Proposal (RFP) is not an offer by OCAC, but an invitation for bidder's response. No contractual obligation whatsoever shall arise from the RFP process.

2.13. IT Act

Besides the terms and conditions stated in this document, the contract shall also be governed by the overall acts and guidelines as mentioned in IT Act 2000 and subsequent amendments, and any other guideline issued by State from time to time.

2.14. Declaration

The bidder would be required to give a certificate as below in his commercial bid.

- A) *"I/ WE UNDERSTAND THAT THE QUANTITY PROVIDED ABOVE IS SUBJECT TO CHANGE. I/ WE AGREE THAT IN CASE OF ANY CHANGE IN THE QUANTITIES REQUIRED, I/ WE WOULD BE SUPPLYING THE SAME AT THE RATES AS SPECIFIED IN THIS COMMERCIAL BID. I/ WE AGREE TO ADHERE TO THE PRICES GIVEN IN THE FINANCIAL BID OF THIS RFP EVEN IF THE QUANTITIES UNDERGO A CHANGE. I/WE FURTHER UNDERTAKE THAT IN CASE*

OCAC REQUIRES, WE WILL DEMONSTRATE THE QUOTED PRODUCTS WITH 7 DAYS NOTICE FROM OCAC."

B) The OEM/ PRODUCT MANUFACTURED IN A COUNTRY SHARING A LAND BORDER WITH INDIA CANNOT PARTICIPATE IN THIS BID.

3. Scope of Work

Supply, Installation, Configuration & Comprehensive Onsite Warranty support of supplied IT Hardware's and Operating Systems as per the technical specification.

The supplied hardware and all the licenses are to be have 5 years of Warranty Support from the date of FAT. During the support period of 5 years any upgrade, update, and patch management, etc. of the supplied hardware, licenses, underlying software, etc. to be provide and managed by OEM Tech Support Team without any additional cost to OSDC/ OCAC.

The supplied items will be installed on two adjacent racks for power load balancing. All the required cables and accessories etc. to be factored by the bidder for the complete requirement of the solution.

3.1. SAN Switches

3.1.1. Total Quantity = 02 Nos (96 Ports)

3.1.2. Technical Specification (Make and Model)

| Sl. No. | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|---|---------------------|
| 1 | Each fibre switch should be quoted with minimum 96 FC ports modules of 32Gbps speed each with necessary Licenses. | |
| 2 | The switch should support for 8/16/32 Gbps HBA | |
| 3 | The switch should have auto sensing, Zoning, Ethernet and Serial Port for communication. | |
| 4 | Switch should be rack mountable 1U size and should be supplied with mounting kit. | |
| 5 | The switch should be equipped with redundant hot swap power supply and allow hot swap ability without resetting the switch, or affecting the operations of the switch | |
| 6 | The switch should be backward compatible | |
| 7 | The switch should be capable for Non-disruptive firmware update. | |
| 8 | The switch should be capable of End to end performance monitoring | |
| 9 | The switch should have Support for POST & online diagnostics | |
| 10 | The switch should be capable to interface with host based adapters (HBA) of multiple OEM, supporting multiple Operating Systems | |
| 11 | The switch must support hardware ACL-based Port Security, Virtual SANs (VSANs)/Virtual Fabric, Port Zoning and LUN Zoning | |
| 12 | The switch should support IPv6 from day one. | |
| 13 | Switch must support out-band management protocols like SNMP v1, v2 and v3, SMI-S, Telnet, FTP & TFTP/SFTP | |
| 14 | The switch should have following Zoning and security features: | |
| | a. Support for hardware -enforced zoning. b. Policy based security and centralized fabric management. | |

| Sl. No. | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--|---------------------|
| | c. Support for secure access. | |
| | d. Support for FC based authentication. | |
| | e. Support for TACACS+ or RADIUS, SSH, SNMP | |
| | f. Support for port binding. | |
| | g. Support for Hardware based Inter Switch linking / trunking. | |
| | h. Support for dynamic Load balancing of links with no overhead. | |
| 15 | The switch shall be able to support ISL trunk up to 256 Gbit/sec between a pair of switches for optimal bandwidth utilization and load balancing. | |
| 16 | The Switch should be configured with the Zoning and shall support ISL Trunking features when cascading more than 2 numbers of SAN switches into a single fabric. | |
| 17 | All relevant licenses for above features should be quoted along with switch. | |
| 18 | OEM must have India presence for last 5 years on both Sales and Support operation. | |
| 19 | All devices should be IPv6 implementation ready from day 1. No extra cost will be borne by OCAC for IPv6 implementation | |

3.2. Enterprise Storage

3.2.1. Total Quantity = 01 Nos (1 PB)

3.2.2. Technical Specification (Make and Model)

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|-------------------|--|---------------------|
| 1 | Capacity | The storage array must be proposed with 1PB usable capacity with NVMe SSD Drives (not more than 15.36TB) in RAID 6 excluding all overheads like RAID parity, file system. Additional global hot spare drive of same drive capacity for every thirty drives should be configured. | |
| 2 | Expandability | <ul style="list-style-type: none"> a) Storage Array should be scalable up to minimum 2.5 PB or higher using 15.36 TB within same storage system without compromising performance of the system. b) Minimum 240 number of NVMe drive supported. c) Proposed storage should support minimum 48 Numbers of FC/iSCSI host ports. Array shall have native support for 16Gbps & 32Gbps FC ports and 10 Gbps & 25Gbps iSCSI ports. d) Proposed system to be configured in such a way that only enclosures and NVMe drives would be required to meet the capacity scalability mentioned above. | |
| 3 | High Availability | No single point of failure (NSPOF); Online firmware upgrades; Remote diagnostic support. | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--|--|---------------------|
| 4 | Storage controller & RAID | <p>1) Minimum Four Storage controllers/Nodes configured in Symmetric Active-Active mode, where all the volumes and LUN's shall be active from all the controllers, should support RAID6 or equivalent with automatic failover. Failure of any controller should not affect the path availability and working connectivity between storage system and devices.</p> <p>2) Offered system should be configured in such a way that entire offered cache should be available for all volumes. Once restored the system should auto restore to its original way of functioning.</p> <p>3) Offered storage shall be an enterprise storage array & 100% data availability guaranteed architecture and All Flash cloud native end to end NVMe array only. Shall be marketed / Publish as All NVMe array on the vendor web site.</p> | |
| 5 | Host Ports | <p>Storage solution should be supplied with minimum port configuration as follows:</p> <p>a) FC Ports: 16 x 32 Gb</p> <p>b) iSCSI ports: 16 x 10Gb</p> <p>c) 4 * 10 Gb SFP+ ports for NAS connectivity (Bidder needs to propose minimum dual NAS controller incase offered system doesn't natively support NAS functionality).</p> <p>d) 8 x 10Gbps ports for replication, incase storage doesn't have native ports for replication then FCIP router shall be provided at no extra cost to SDC.</p> | |
| 6 | Back End (For Disk Array connectivity) | Offered storage shall have at-least 400Gb NVMeOF enabled bandwidth for drive enclosure connectivity and shall be scalable to 800Gb enabled bandwidth NVMeOF ports. | |
| 7 | Cache/Memory | Minimum 1TB DRAM Protected Global cache across all controllers with battery backup for 72Hrs OR equivalent mechanism, to protect data in Cache in case of power failure. (Cache of 512GB means sum of the Cache memory supported by all the Storage Controllers in the Storage. Cache memory of NAS header and/or any other device will not be considered to calculate cache of the Storage). | |
| 8 | Protocols supported | <p>a) The storage solution should support FC and iSCSI for Block and CIFS, NFS for NAS File Serving.</p> <p>b) The proposed storage must be based on NVMe architecture. The offered array should be end-to-end NVMe including NVMe based backend as well as NVMe over fabric for front-end connectivity.</p> <p>c) The proposed storage should be configured with NVMe-oF (NVMe over FC) protocol</p> | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|-------------------------------------|--|---------------------|
| 9 | Chassis | Rack Mountable with Hot Swap Redundant Power Supply & Cooling Fans; All necessary cables and accessories to connect Storage System to Servers / SAN Switch | |
| 10 | Multipath | Should support Multipath from SAN to Server or vice versa. Any software required should be supplied | |
| 11 | Data encryption | Vendor shall provide encryption for data at rest on volume/hardware level which should meet FIPS 140-2 – Level 2 security requirements | |
| 12 | Data efficiency | Offered storage array shall support inline data efficiency engine (Supporting Thin Zero detect and re-claim, De-duplication & Compression) and shall be enabled by default. Vendor shall have flexibility to enable / disable the data efficiency engine at the time of Volume creation. | |
| 13 | DR support | <p>a) Offered Storage array shall support both Synchronous and Asynchronous replication across 2 storage arrays natively without using any third party or software-based solution.</p> <p>b) Offered Storage array shall support 3 Data center solution natively where Primary site shall be able to replicate synchronously to near-by / Bunker location and at the same time shall be able to replicate to Far location asynchronously.</p> <p>c) Replication shall support incremental replication after resumption from link failure or failback situations.</p> | |
| 14 | Thin Provisioning and Space Reclaim | For effective cloud deployment offered storage should be supplied with thin provisioning and auto thin reclaim to make the volume thin for an extended period for complete array supported raw capacity. It should support automated thin reclaim | |
| 15 | Snapshot/ point-in-time copy/ Clone | <p>a) Offered Storage shall support to make the snapshot and full copy (Clone) of thin / thick volumes as thin volume.</p> <p>b) The storage array should have support for controller-based snapshots (At-least 1000 copies for a given volume).</p> <p>c) Storage Array shall have functionality to re-claim the space from thin provisioned deleted snapshot automatically.</p> <p>d) Storage Array shall have functionality to create virtual lock for retention of read-only snapshots to protect against accidental deletes and Cybercrime incidents.</p> <p>e) Storage Array shall have integration with atleast three independent Backup ISV apps such as Commvault, Micro Focus, Veritas, Veeam, etc for efficient backup.</p> | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--------------------------------|---|---------------------|
| 16 | OS and Database Support | Linux, Windows, Unix, Solaris etc. | |
| 17 | Cloud Enabled - Analytics | <p>Cloud enabled Analytics engine shall have capability to provide following:</p> <p>a. Shall have capability of global learning – Analytics engine shall collect control information from at-least 50000+ arrays across vendor installed base for meaningful output. Vendor shall provide the documentary proof for it.</p> <p>b. Analytics engine shall have capability of proactive recommendation for arresting the issues / problems noticed at other install base of vendor after identifying the problematic signature.</p> <p>c. Providing extremely granular per-minute historical capacity and performance trend analysis by default, without the need to enable extra logging, install any appliances (physical or virtual), or install any software.</p> <p>d. Providing overall saturation level of the array while combining while analyzing various parameters like IOPS, MB/sec, Block size etc.</p> <p>e. Providing the status of at-least top 5 volumes where latency is extremely high</p> | |
| 18 | Quality of service | <ol style="list-style-type: none"> 1) Offered storage array shall support quality of service for critical applications so that appropriate and required response time can be defined for application logical units at storage. It shall be possible to define different service / response time for different application logical units. 2) Quality of service engine shall allow to define minimum and maximum cap for required IOPS / bandwidth for a given logical units of application running at storage array. 3) It shall be possible to change the quality-of-service Response time (In both milliseconds as well as Sub-milliseconds), IOPS, bandwidth specification at real time. | |
| 19 | Performance monitoring | Storage management software should provide real time monitoring and historical analysis of storage performance data such as total IOPS, read%, write %, cache-hit %, throughput, etc. for analyzing performance of the systems. | |
| 20 | Software features and Licenses | Storage subsystem shall be supplied with Thin Provisioning, Thin Re-claim, Snapshot, De-duplication, Compression, Performance Monitoring, and Quality of | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|---------------------------------|--|---------------------|
| | | service on day 1 for the maximum supported capacity of array. | |
| 21 | Management Software and License | Single GUI & WEB based remote management; Should be capable to create, expand & move volumes dynamically; Support for dynamic LUN expansion. Management Software and Licenses to be supplied for full capacity. | |
| 22 | VAAI integration | Storage must be complied to VMware API for Array Integration and it should support following functionalities: a) Offered storage array shall be tightly integrated with VMware and shall be certified for VVOL. b) Offered Storage array VASA provider shall be certified by VMware for VVOL - Storage based replication. c) Offered Storage shall support over 5000 VMware VM's using VVOL. d) Offered storage array shall be tightly integrated with VMware so that Eager zero disks layout can be used with thin provisioning and thin re-claim. | |
| 23 | Container integration | Offered Storage array shall be integrated with Red-hat OpenShift, Kubernetes and other industry K8 based container platform through CSI driver set. Vendor shall support at-least following functionalities through their CSI / CSP integration: a) Shall support both Static and Dynamic provisioning b) Shall be able to expand, re-size the persistent volumes given to stateful set applications. c) Shall be able to create and delete the snapshots. d) Shall support CSI Raw block volume as well as CSI Volume cloning. e) Support for both Fiber channel as well as iSCSI. | |
| 24 | OEM ranking | a) OEM should be ranked within top 3 as per IDC report for any one of the previous four quarter in India for storage OR The proposed Storage OEM must be rated as Leader's in the latest magic quadrants for General Purpose Disk Arrays by Gartner. b) OEM shall have their own GST registered spare depot/ center in the state of Odisha (GST details in the name of OEM to be submitted) | |
| 25 | Warranty | Five years on-site comprehensive OEM Warranty Support with 24X7 coverage and access to OEM TAC/support. OEM shall have their own support portal to log the case online and historical data about cases must be available in the same portal. | |
| 26 | IPv6 Support | All devices should be IPv6 implementation ready from day 1. No extra cost will be borne by OCAC for IPv6 implementation | |
| 27 | Power Cord | Storage should be supplied with compatible IEC C13/C14 or C19/C21 3pin power cord suitable for PDU. | |

3.3. File and Object Storage

3.3.1. Quantity = 01 No (500 TB)

3.3.2. Technical Specification (Make and Model)

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|------------------------------|---|---------------------|
| 1 | Capacity | Storage solution should be supplied with minimum 500 TB usable capacity. For highest level of data security, OS of storage solutions should not be based on general purpose OS like linux. Storage should not be based on general purpose servers | |
| 2 | Controllers and architecture | Storage should be in symmetric and distributed clustered architecture. Must be configured with at least four controllers/ Nodes. Each storage controller/ Nodes should be supplied with four no's of 10/25 Gbps SFP+ ports with 25 Gbps SFP28 transceivers. | |
| 3 | Cache | Storage controllers should be configured with more than 700 GB global coherent DRAM based cache across Storage controller/ Storage node configured for read and write operations. In addition, storage should have 12TB SSD based cache, If SSD cache not available then storage should be supplied with 1.5TB of DRAM based cache. | |
| 4 | Expandability | The object storage cluster shall be scalable to minimum 60 PB in a single cluster/ namespace by adding drives and nodes. Proposed Object storage must provide automatic balancing of the stored capacity across all nodes in a cluster, ensuring data gets evenly distributed across all nodes. When new nodes are added or removed from the cluster, existing data should be redistributed among all nodes. | |
| 5 | No single point of failure | Storage system must be offered with no single point of failure. The Scale-Out Storage should have capability of multiple controller failure in the storage system without data unavailability or data loss. Data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations. The backend internal connectivity between storage controllers/ storage nodes should be using high performance dedicated network (minimum 100Gbps end to end) with no single point of failure. Minimum 2 switches, each with 32 x 100Gbps ports to be provided for the same. Redundant/ Dual physical switches for high availability and high-speed network should be provided | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--------------------------------|--|---------------------|
| 6 | Protocols support | <ul style="list-style-type: none"> Network protocol Support: Must provide access for a variety of operating systems (UNIX, Mac, Linux, and Windows) using all standard protocols: NFS3, NFS4, NFS4.1, SMB, HTTP, FTP, S3, REST. All protocols MUST be native to the storage, and be included without additional softwares and hardware. Should support user multiple security mechanisms like AD, LDAP at the same time Storage solution must support multiple protocols at the same time on the same piece of hardware including but not limited to CIFS, NFS. | |
| 7 | Drive Support | Proposed object storage should support NL-SAS, SATA and SSD, NVMe drives. | |
| 9 | Snapshots | <p>Offered storage should offer read-only, point-in-time copies (snapshots), at the granularity of any directory or subdirectory in the file system</p> <p>It should not be required to reserve space for snapshots, and should support in excess of 10000 snapshots on the storage</p> <p>Should enable scheduling at daily, weekly, monthly or yearly intervals, with single or multiple job frequency per schedule, should also have snapshot granularity of at least a minute</p> | |
| 10 | Compression and de-duplication | <p>Storage should be offered with the capability of inline data reduction via compression and de-duplication, and post process data reduction. Licenses should be provided from day one for entire capacity. In case both inline and post process data reduction are not offered, storage should be offered with 2x asked usable capacity.</p> <p>Storage should support encryption, auto-configuration and self-healing features.</p> | |
| 11 | Management | <ul style="list-style-type: none"> Support the management, administration and configuration of the whole storage platform through a single management interface along with CLI Full Topology View: Cluster status with Zone, Server & Node details Powerful graphing capabilities & dashboards SNMP MiB Browsing, Traps and Graphical Usage Monitoring Auditing capabilities. REST APIs for monitoring & management Offered storage shall support role Based Access Control (RBAC) <ul style="list-style-type: none"> Proposed storage should have monitoring and alert mechanism to report capacity, CPU and bandwidth utilization. Proposed storage should maintain transactional logs and should support functionality to audit these logs. | |
| 12 | Security | <ul style="list-style-type: none"> The system must support encrypting data at rest. | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--------------|--|---------------------|
| | | <ul style="list-style-type: none"> The system must be able to support Write Once Read Many (WORM) compliant to SEC17a-4. The system must support Role Base Access Control with Integration with Active Directory and LDAP. The system must be able to support System Auditing for system as well as supported protocols. The system must be able to support Anti-Virus Scanning through Internet Content Adaptation (ICAP) protocol. The system should have automated file system integrity and data integrity checks built in to prevent data loss data integrity issues due to data inconsistencies or file system corruption | |
| 13 | OEM Ranking | <p>a) OEM should be ranked in the Leaders Quadrant in the latest Gartner Magic Quadrant for Distributed File and Object Storage Arrays OR within top 3 as per IDC report for any one of the previous four quarter in India for storage.</p> <p>b) OEM shall have their own GST registered spare depot/center in the state of Odisha (GST details in the name of OEM to be submitted)</p> | |
| 14 | Warranty | Five years on-site comprehensive OEM Warranty Support with 24X7 coverage and access to OEM TAC/support. OEM shall have their own support portal to log the case online and historical data about cases must be available in the same portal. | |
| 15 | IPv6 Support | All devices should be IPv6 implementation ready from day 1. No extra cost will be borne by OCAC for IPv6 implementation | |
| 16 | Power Cord | Storage should be supplied with compatible IEC C13/C14 or C19/C21 3pin power cord suitable for PDU. | |

3.4. Backup Software

3.4.1. Quantity = 01 (Set)

3.4.2. Technical Specification (Make and Model)

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--------------|--|---------------------|
| 1 | OEM Criteria | Proposed backup software must be in Latest leader's magic quadrant of Gartner report for Enterprise Backup software and recovery solutions. | |
| 2 | Platform | <p>Proposed backup software should be available on various OS platforms like Windows, Linux, IBM AIX, Solaris etc. The backup server must be compatible to run on both Windows and Linux OS platforms</p> <p>The software must provide single graphical web view for complete backup and historical data archival.</p> <p>Proposed software should have feature to replicate backup copy to one or multiple sites in proposed license.</p> | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|---|--|---------------------|
| 3 | Licensing | <p>The proposed Backup software must offer volume-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 should be supplied for both primary and DR site.</p> <p>All necessary licenses, softwares and databases to perform backup and archival activities to be included from Day 1.</p> <p>Licenses supplied should have licenses for Backup, Replication and archival workloads and Perpetual in nature</p> | |
| 4 | Reporting Capabilities | <p>Backup software should have Capability to do trend analysis for capacity planning of backup environment, extensive alerting and reporting with pre-configured and customizable formats. Any specialized reporting modules needed must be quoted along with associated hardware to achieve this functionality. All necessary hardware resources required to run this module should be supplied.</p> <p>Proposed solution should support 24x7 real-time monitoring, with at-a-glance and drill-down views of health, performance, and workload of the virtual hosts.</p> <p>Proposed solution should support automated action for popular alarms (automated or semi-automated), with at-a-glance and drill-down views of health, performance and workload of the virtual hosts.</p> | |
| 5 | Backup support for hypervisors and Applications | <p>Backup software should be a Hardware Agnostic software and it should support snapshot integration with hypervisors like VMware, Hyper-V, Redhat OpenStack, Redhat OpenShift, OpenShift, KVM and Nutanix AHV and support de-duplication on any storage target.</p> <p>It should be able to backup data to tapes (like LTO) as well for long term retention.</p> <p>The proposed backup software should provide recoveries for any backup to VMs available on VMware, Hyper-V, Redhat OpenStack, Redhat OpenShift setup.</p> <p>Backup software should support file level recovery from any backup of any VM or physical server. It should support a full system recovery in case of a system crash, either on a physical system or virtual machine or as a Cloud Instance (AWS, Azure or Google)</p> <p>Backup software should have integrated data de-duplication engine with multi-vendor storage support to save space by storing de-duplicated copies of data. The de-duplication engine should also facilitate IP base replication of de-dupe data.</p> | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|---------------------------------|--|---------------------|
| | | <p>The Proposed backup solution must support the Client side data de-duplication for the File System, Applications and Databases.</p> <p>Must be able to dynamically break up large backup sets to be backed up in parallel to allow backups to complete faster for Windows, Unix and Linux clients.</p> <p>It must support various level of backups including full, incremental, differential, synthetic and virtual synthetic backup methodology.</p> <p>Backup solution should support online backup of applications and databases such as MSSQL, Oracle. Backup solution should provide application aware agents to perform full and logs backups for standard and enterprise edition (standalone and cluster) of Oracle DB, Oracle RAC DB, HANA v2 DB, MySQL DB, MySQL CGE DB, PostgreSQL EDB, Maria DB, Mongo DB and MSSQL DB. The proposed solution must support incremental merge backup to quickly create full database copies from incremental backup. All licenses must be quoted to deliver this functionality.</p> <p>Backup software should support instant recovery of multiple VMs to support quick application recovery. It should also allow instant recovery of selected VM disks, without having to do instant recovery of all VM disks for achieving highest levels of RTO for relevant business data</p> | |
| 6 | RPO/ RTO and Recovery Assurance | <p>Backup software must have a feature of data validation, whereby a workload (VM with OS and application) is powered-on in a sandbox environment and tested for its recoverability.</p> <p>Recovery verification should automatically boot the server from backup and verify the recoverability of VM image, Guest OS and Application Consistency and then publish automated reports to be used in backup / recovery audits.</p> <p>Backup software should provide Backup and Replication capabilities in one console only and also allow users to integrate with RBAC capabilities of the hypervisor, so that users can initiate backup and restore only those VMs to which they have access, without administrator intervention, thereby delivering self-serve capabilities.</p> <p>Proposed backup software should be able to Hardened the Linux Repository. This service will prevent backup copies of data from any corruption or ransomware attacks.</p> <p>The proposed Backup software must Support Seamless Integration with Point-in-time storage snapshots with Major OEM SAN Storages in the environment to perform</p> | |

| Sl. No. | Parameter | Minimum Requirement Specification | Compliance (Yes/No) |
|---------|--|---|---------------------|
| | | <p>faster LAN Free backup without any overhead to Hypervisor Compute Layer, allowing recovery at the application level, the file level, and the VM level.</p> <p>The proposed backup software should be able to integrate with anti-virus software and scan before recovery of VMs and ensure that any infected VM is not restored or restore it with disabled network adapters to prevent any infection to spread through the network</p> <p>Proposed backup software should have the ability to perform staged restores to enable admins to comply to regulations by selectively deleting files / records which should not be restored from the backup copies. This will help in complying to "right to be forgotten" regulations like GDPR, where user data is deleted from restored backup copies in an auditable manner.</p> <p>Backup software should support instant file share recovery in NAS storages to allow users to access files fast after disaster.</p> | |
| 7 | Backup and Replication Performance and SLA | <p>The proposed Backup software must allow to configure the maximum acceptable I/O latency level for production data stores to ensure backup and replication activities do not impact storage Availability to production workloads.</p> <p>Backup software should provide Recovery of Application Items, File, Folder and Complete VM recovery capabilities from the image level backup.</p> <p>The software should be Network-efficient, Secure backup data replication with variable-length de-duplication at the source, along with compression and encryption to ensure that backups are optimized for WAN transmission. This should be ensured with or without need of any other 3rd party WAN Accelerator requirements.</p> | |
| 8 | Licensing & Warranty Support | <p># Licensing to be quoted for 200 TB capacity storage space with 5-years 24x7 premium support.</p> <p># Five years on-site comprehensive OEM Warranty Support with 24X7 coverage and access to OEM TAC/support. OEM shall have their own support portal to log the case online and historical data about cases must be available in the same portal.</p> | |
| 9 | IPv6 Support | All devices/ software should be IPv6 implementation ready from day 1. No extra cost will be borne by OCAC for IPv6 implementation | |
| 10 | Power Cord | Supplied with compatible IEC C13/C14 3pin power cord suitable for PDU (if required). | |

Note: - 1. The products quoted are not "end of life or end of sale products" as on Bid Submission date. If in case the support for the product quoted has been stopped/ withdrawn till the time of

delivery of equipment, the same will be changed with the superior product at no extra cost.

- 2. Bidder has to submit an undertaking mentioning that, the support including spares, patches, and upgrades for the quoted products shall be available for the period of 5 years from the date of acceptance.*

4. Eligibility Criteria

Following table mentions the pre-qualification criteria. A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria. Any bid failing to meet the stated criteria shall be summarily rejected and will not be considered for Commercial Evaluation.

4.1. Pre-qualification Criteria

| Sl. No. | Clause | Documents Required |
|---------|--|--|
| 1. | The bids should be submitted by only Prime Bidder, no consortium is allowed in this bid. | Declaration in this regard needs to be submitted. |
| 2. | The Bidder should have positive net worth during last three financial years, ending 31.03.2021. | A certified document by the Chartered accountant stating the net worth and average annual turnover of the bidder |
| 3. | The Bidder's average annual turnover should be more than (INR) 20 cores in last three financial years and profitable during each of the previous three financial years ending on 31.03.2021. Note: The turnover refers to the Bidder's firm and not the composite turnover of its subsidiaries/sister concerns etc. | Copy of audited profit and loss account/balance sheet/annual report of the last three financial years. |
| 4. | (a) The bidder must be registered under the Companies Act 1956 or a Partnership firm registered under LLP Act, 2008 and must have in operation for a period of at least 5 (Five) years as of March 31, 2022. (b) The company must be registered with appropriate authorities for all applicable statutory duties/taxes | (a) Valid documentary proof for :- ✓ Certificate of incorporation (b) Valid documentary proof for: ✓ GST Identification number (GSTIN) ✓ Income Tax registration/PAN number ✓ Up to date GST Return ✓ Income Tax returns for last three financial years. |
| 5. | Bidder should have experience of Supply, Installation and Warranty/Annual maintenance services for IT Infrastructure projects and should have been in the business for a period of five years as on 31.03.2022. | 1. Work Orders confirming year and area of activity 2. Memorandum and Articles of Associations 3. Relevant legal documentation confirming the acquisition/merger, if any |
| 6. | The bidder must have successfully undertaken at least the following numbers of systems implementation engagement(s) of value specified herein during the last Five Financial Years : ➤ One project of similar nature not less than the amount Rs. 200 Lakh. OR | Work order, Completion Certificate or phase completion certificate for ongoing project from the client |

| Sl. No. | Clause | Documents Required |
|---------|--|--|
| | <p>➤ Two projects of similar nature each of which not less than the amount Rs. 180 Lakh.</p> <p>OR</p> <p>➤ Three projects of similar nature each of which is not less than the amount Rs. 160 Lakh.</p> <p>'Similar Nature' is defined as:- Supply & Installation of Network, Server, Storage and their associated maintenance support services for any Government/ Public Sector Enterprises/ BFSI in India.</p> | |
| 7. | The Bidder shall not be under a Declaration of Ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government. | Declaration in this regard by the authorized signatory of the Bidder |
| 8. | <p>I. The Bidder must have a registered Branch office in Odisha or if not having office in Odisha should submit an undertaking to open office within one month after getting the Purchase Order.</p> <p>II. The Bidder must have 5 IT Service Engineer/ Professionals available in Bhubaneswar (Odisha).</p> | <p>Office Address or Undertaking</p> <p>A self-certified letter by an authorized signatory mentioning the list of IT service engineer/professionals.</p> |
| 9. | <p>The bidder should submit the valid letter from the OEMs confirming the followings:</p> <ul style="list-style-type: none"> • Authorization from OEM for the quoted product. • Confirm that the products quoted are neither declared End of Sale and End of Support or End of Life at the time of Bid Submission and during the completion of procurement phase. • Confirm that the products would be covered under comprehensive warranty for the contract period. • Undertake that the support including spares, patches for the quoted products shall be available for entire contract period. | <p>a) MAF</p> <p>b) Undertaking from OEM</p> |
| 10. | Quality Certification | Valid ISO 9001 of the bidder |
| 11. | Bid Security | Bid Security Declaration |

4.2. Bid Evaluation

4.2.1. Pre-Qualification

- i. Bidder shall comply the Pre-Qualification Criteria mentioned in respective packages.
- ii. Bidders only Qualified in the Pre-Qualification Criteria are eligible for Technical bid Evaluation.

4.2.2. Technical Bid Evaluation

The Technical Evaluation will be based on the following broad parameters:

- i. Compliance to Technical Specifications as specified in the RFP.
- ii. Review of written reply, if any, submitted in response to the clarification sought by OCAC/ OSDC, if any.
- iii. The Compliance Statement by the bidder to the technical specifications of respective package along with relevant product brochure, technical documents etc. Bids without proper Compliance Statement will be rejected.
- iv. To assist in the examination, evaluation and comparison of bids, OCAC may, at its discretion, ask any or all the Bidders for clarification and response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.
- v. OCAC may interact with the Customer references submitted by bidder, if required.
- vi. OCAC reserves the right to shortlist bidders based on technical evaluation criteria.
- vii. The onsite warranty services must be provided at OSDC, Bhubaneswar. The bidder must provide the plan / arrangement in escalation matrix, for warranty services to be provided at OSDC, Bhubaneswar
- viii. Acceptance to the terms and conditions laid down in the tender document. A scanned copy of the bid document duly signed by the bidder's authorized representative is to be submitted in token of acceptance of the same. Any deviation in the general terms and condition may lead to the rejection of the bid.

4.2.3. Commercial Bid

- i. Commercial Bid should be submitted online as per the given format.
- ii. The PRICE PART shall contain only schedule of rates duly filled in. NO stipulation, deviation, terms & conditions, presumptions etc. is permissible in price part of the bid. OCAC shall not take any cognizance of any such conditions and may at its discretion reject such commercial bid.
- iii. Prices should be given in INR in figures only.
- iv. Bidders are advised strictly not to alter or change the BOQ format /contents. Bidders are also advised not to paste any image file with BOQ
- v. Price offered by the bidder shall not appear anywhere in any manner in the technical bid.

4.2.4. Commercial Bid Evaluation

- i. The financial bids of bidders who qualify in Pre-Qualification and Technical evaluation shall be opened at the notified time, date and place by OCAC in the presence of the bidders or their representatives who choose to be present.
- ii. The process of opening of financial bids/ covers shall be similar to that of Pre-Qualification – cum – Technical bids
- iii. The names of the firms, the rates given by them shall be read out and recorded in tender opening register.

To evaluate a financial bid, the tendering authority shall consider the following: -

- The bid price as quoted in accordance with bidding document.
 - Price adjustment for correction of arithmetic errors in accordance with bidding document.
- iv. The evaluation shall include all costs and all taxes and duties applicable to the bidder as per law of the Central/ State Government/ Local Authorities. Treatment of GST etc.
 - v. The evaluation shall be made adding all schedules to arrive lowest quoted bid.
 - vi. All rates quoted must be FOR destination/on site and should include all taxes, levies and duties. In case of local supplies the rates should include all taxes, etc., and no cartage or transportation charges will be paid by the Government. And the delivery of the goods/services shall be given at the premises/onsite.

4.2.5. Correction of Arithmetic Errors

Provided that the bid is substantially responsive, the competent Purchase Committee shall correct arithmetical errors on the following basis: -

- i. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.
- ii. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and if there is a discrepancy between words and figures, the amount in words shall prevail.

4.3. Other Terms & Conditions of RFP

4.3.1. Bid Submission

- i. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- ii. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by Department.

- iii. Bidder has to select the payment option as per the tender.
- iv. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

4.3.2. Authentication of Bids

A Proposal should be accompanied by a power-of-attorney/ authorization in the name of the signatory of the Proposal.

4.4. Special Conditions of Contract

4.4.1. Price Basis

Price basis should be for OCAC, Bhubaneswar in INR only. Price quoted should be in the prescribed format as per BOQ. The quoted price will be considered firm and no price escalation will be permitted

4.4.2. Billing

Billing is to be done in the name of Odisha Computer Application Centre, Plot No.- N1/ 7D, Acharya Vihar Square, RRL Post Office, Bhubaneswar -751013. The payment would be on the basis of the actual bill of material supplied, duly certified by our authorized representative at OSDC, Bhubaneswar.

4.5. Payment

100% of the invoice value will be paid to the successful bidder, after delivery of OEM Warranty Support Certificate & Final Acceptance Test (FAT), with submission of Performance Bank Guarantee issued from a nationalized / scheduled bank, equivalent to **3%** of the amount of the Contract Value. This Bank Guarantee should remain valid for a period of 60 days beyond the warranty period, commencing from the date of satisfactory completion of entire job.

4.6. Penalty

Penalty for Delayed Services: Penalty will be charged @ 0.5% of the contract value per week subject to maximum of 10% of total order value, in case of delayed in supply of stipulated time period.

4.7. Warranty

All the items covered in the schedule of the requirements /Bill of Material (BOM), shall carry 24 x 7 Comprehensive Onsite Warranty support from OEM. All the items quoted should include 5 years of OEM onsite warranty.

5. Appendix I: Bid Templates

5.1. Bid Security Declaration

(In Original Letter Head)

< Location, Date >

To
General Manager (Admin.)
Odisha Computer Application Centre
OCAC Building, Plot No. N-1/7-D
Acharya Vihar Square, RRL Post Office
Bhubaneswar - 751013

Reference: (1) Enquiry No. _____.
(2) Our Bid No. _____ date _____.

I/ We, _____ irrevocably declare as under:

I/ We understand that, as per Clause _____ of Tender/ bid conditions, bids must be supported by a Bid Security Declaration in lieu of Earnest Money Deposit.

I/ We hereby accept that I/ We may be disqualified from bidding for any contract with you for a period of **Three Years** from the date of disqualification as may be notified by you (without prejudice to OCAC's rights to claim damages or any other legal recourse) if,

- 1) I am /We are in a breach of any of the obligations under the bid conditions,
- 2) I /We have withdrawn or unilaterally modified/ amended/ revised, my/our Bid during the bid validity period specified in the form of Bid or extended period, if any.
- 3) On acceptance of our bid by OCAC, I /we failed to deposit the prescribed Performance Bank Guarantee (PBG) or fails to execute the agreement or fails to commence the execution of the work in accordance with the terms and conditions and within the specified time.

Signature:

Name & designation of the authorized person signing the Bid-Securing Declaration Form:

Duly authorized to sign the bid for and on behalf of: _____ (complete name of Bidder)

Dated on _____ day of _____ month, _____ year.

(Note: In case of a Joint Venture, the Bid Security Declaration must be in the name of all partners to the Joint Venture that submits the bid).

5.2. Manufacturers /Producers Authorization Form (MAF)

(To be submitted Original on the OEM Letter Head)

Letter No. _____

Date: _____

To

The General Manager(Admin)
Odisha Computer Application Centre
Bhubaneswar

Sub : OEM Authorization Letter

Dear Sir:

Ref: Your RFP Reference No: XXXXXXXX

We, who are established and reputable manufacturers / producers of _____ having factories / development facilities at (*address of factory / facility*) do hereby authorize M/s _____ (*Name and address of Agent*) to submit a Bid, and sign the contract with you against the above Bid Invitation.

We hereby extend our full guarantee and warranty for the Solution, Products and services offered by the above firm against this Bid Invitation.

We also undertake to provide any or all of the following materials, notifications, and information pertaining to the Products manufactured or distributed by the Supplier :

- a. Such Products as OCAC may opt to purchase from the Supplier, provided, that this option shall not relieve the Supplier of any warranty obligations under the Contract; and
- b. in the event of termination of production of such Products:
 - i. Advance notification to OCAC of the pending termination, in sufficient time to permit to procure needed requirements; and
 - ii. Following such termination, furnishing at no cost to OCAC, the blueprints, design documents, operations manuals, standards, source codes and specifications of the Products, if requested.

We duly authorize the said firm to act on our behalf in fulfilling all installations, Technical support and maintenance obligations required by the contract.

Yours faithfully,

(Name)
(Name of Producers)

Note - 1: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The Bidder in its Bid should include it.

5.3. Declaration and Undertaking from Original Equipment Manufacturer (OEM)

(To be submitted Original on the OEM Letter Head)

Date: _____

To

The General Manager (Admin)
Odisha Computer Application Centre
Plot No. - N-1/7-D, Acharya Vihar
P.O. - RRL, Bhubaneswar - 751013
EPBX: 0674-2567280/2567064/2567295
Fax: +91-0674-2567842

Sub: Undertaking by Original Equipment Manufacturer against tender No. _____ dated _____ for RFP for IT Equipment's Upgrade of Odisha State Data Centre (OSDC) Bhubaneswar.

Dear Sir/ Madam,

I/We, M/s _____ (Name of the OEM) having registered office at _____ (address of the manufacturer) by virtue of being original equipment manufacturer for the _____ (Name of the product/s).

We hereby confirm the following points.

1. Parts supplied by us are certified and compatible with the offered solution.
2. Parts supplied and available are not declared as End-Of-Life/ EOS for next Seven Years from the date of acceptance. After installation, if such parts are found End-Of-Life, then it will be our responsibility to replace with newer and higher compatible parts along with implementation at no cost to the OCAC.

The undersigned is authorised to issue such authorisation on behalf of M/s _____ (Name of the manufacturer).

For M/s _____ (Name of the manufacturer)

Signature & company seal

Name

Designation

Email

Mobile No.

Note: Separate undertakings are essential from each OEM, interconnects and software.

5.4. Financial Proposal

RFP Reference No: XXX-XXX-XXX

COMMERCIAL BID FORMAT

| Sl. No. | Item | Bill of Quantity (A) | Unit Price (B) | GST Per Unit (C) | Total Unit Cost (D) (D=B+C) | Total (A x D) |
|----------------------------------|---|----------------------|----------------|------------------|-----------------------------|---------------|
| 1. | SAN Switches | 2 | | | | |
| 2. | Enterprise Storage | 1 | | | | |
| 3. | File & Object Storage | 1 | | | | |
| 4. | Backup Software | 1 | | | | |
| 5. | One Time Implementation and Configuration Charges | 1 | | | | |
| Grand Total Including GST | | | | | | |
| Total Cost In Words | | | | | | |

Seal of the Company

Authorised Signatory

"I/WE UNDERSTAND THAT THE QUANTITY PROVIDED ABOVE IS SUBJECT TO CHANGE. I/WE AGREE THAT IN CASE OF ANY CHANGE IN THE QUANTITIES REQUIRED, I/ WE WOULD BE SUPPLYING THE SAME AT THE RATES AS SPECIFIED IN THIS COMMERCIAL BID. I /WE AGREE TO ADHERE TO THE PRICES GIVEN ABOVE EVEN IF THE QUANTITIES UNDERGO A CHANGE".

5.5. Performance Bank Guarantee (PBG)

To

The General Manager (Admin)
Odisha Computer Application Centre
Plot No. - N-1/7-D, Acharya Vihar
P.O.- RRL, Bhubaneswar - 751013
EPBX: 0674-2567280/2567064/2567295
Fax: +91-0674-2567842

Whereas, < < name of the supplier and address > > (hereinafter called “the Bidder”) has undertaken, in pursuance of contract no. < < insert contract no. > > dated. < < insert date > > to provide Implementation services for < < name of the assignment > > to OCAC (hereinafter called “the beneficiary”)

And whereas it has been stipulated by in the said contract that the Bidder shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract;

And whereas we, < < name of the bank > > a banking company incorporated and having its head /registered office at < < address of the registered office > > and having one of its office at < < address of the local office > > have agreed to give the supplier such a bank guarantee.

Now, therefore, we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, upto a total of Rs.< < insert value > > (Rupees < < insert value in words > > only) and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of Rs .< < insert value > > (Rupees < < insert value in words > > only) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Bidder before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Bidder shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This Guarantee shall be valid until < < Insert Date > >)

Notwithstanding anything contained herein:

I. Our liability under this bank guarantee shall not exceed Rs < < insert value > > (rupees < < insert value in words > > only).

II. This bank guarantee shall be valid up to < < *insert expiry date* > >)

III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this bank guarantee that we receive a valid written claim or demand for payment under this bank guarantee on or before < < *insert expiry date* > >) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date: