



**RFP for Supply, Installation & Warranty support of
Compute & Storage Infrastructure
for
Odisha State Data Centre(OSDC), Bhubaneswar**

RFP Enquiry No. : OCAC-NeGP-INFRA-0001-2018/18003

Date : 16.01.2018

RFP SCHEDULE

Sl. No.	Items	Date & Time	
01	Commencement of the bid	16/01/2018	
02	Last date for receiving queries through E-mail: osdc@ocac.in & sk.bhol@nic.in	24/01/2018, 5:00 PM	
03	Pre Bid Conference	Package I	Rack Server & MS Windows Server Standard Edition 2016 29/01/2018, 3:00 PM
		Package II	300 TB SAN Storage & SAN Switch 29/01/2018, 4:00 PM
04	Issue of Corrigendum (if required)	To be Informed.	
05	Last date and time for Submission of Bid	15/02/2018 , 2 :00 PM	
06	Opening of Pre-Qualification Bids (PQ)	Package I	15/02/2018 , 3 :00 PM
		Package II	15/02/2018 , 4 :00 PM
07	Opening of Technical Bids (TB)	Package I	19/02/2018 , 11 :00 AM
		Package II	19/02/2018 , 12 :00 PM
08	Opening of Commercial Bids (CB)	To be Informed.	

Fact Sheet:

This Fact Sheet comprising important factual data of the tender is for quick reference of the bidder.

Clause Reference	Topic						
<p>The Proposal</p>	<p>Odisha Computer Application Centre (OCAC) invites bid for Supply, Installation & Warranty support of two different package of compute & storage infrastructure for Odisha State Data Centre (OSDC).</p> <table border="1" data-bbox="497 779 1380 949"> <thead> <tr> <th data-bbox="497 779 676 824">Package List</th> <th data-bbox="676 779 1380 824">Items</th> </tr> </thead> <tbody> <tr> <td data-bbox="497 824 676 898">Package I</td> <td data-bbox="676 824 1380 898">Rack Server & MS Windows Server Standard Edition 2016</td> </tr> <tr> <td data-bbox="497 898 676 949">Package II</td> <td data-bbox="676 898 1380 949">300 TB SAN Storage & SAN Switch</td> </tr> </tbody> </table>	Package List	Items	Package I	Rack Server & MS Windows Server Standard Edition 2016	Package II	300 TB SAN Storage & SAN Switch
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Package I	Rack Server & MS Windows Server Standard Edition 2016						
Package II	300 TB SAN Storage & SAN Switch						
<p>Method of Selection</p>	<p>Cost Based Selection method (Least cost method) shall be used to select the Bidder to Supply, Installation & Warranty support of Compute & Storage infrastructure of SDC. The bidder has to apply the bid for each package in three envelop system, General (Pre-qualification), Technical & Commercial bid. Technical bid of those bidders who qualify in General Bid shall be opened. Commercial bid of those bidders who qualify in Technical Bid shall be opened. The least value Bid (i.e. the bidder quoting minimum amount) will be given preference in the order of selection.</p>						
<p>RFP Document</p>	<p>RFP Document can be downloaded from http://www.ocac.in or http://www.odisha.gov.in or http://www.tenders.gov.in.</p> <p>The bidders are required to submit the RFP document Fee of Rs. 1,000/- (Rupees one thousand only) in the form of a demand draft in favour of “Odisha Computer Application Centre“, payable at Bhubaneswar from any of the Scheduled commercial Bank along with the Proposal(The bidder can produce the document fee once if applying for different package).</p>						
<p>Earnest Money Deposit (EMD)</p>	<p>Earnest Money Deposit (EMD) should be in shape of Account payee Demand Draft from any Nationalized / Scheduled Commercial Banks, in favor of Odisha Computer Application</p>						

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Clause Reference	Topic						
	<p>Centre payable at Bhubaneswar.</p> <table border="1"> <thead> <tr> <th>Package List</th> <th>EMD Value</th> </tr> </thead> <tbody> <tr> <td>Package I</td> <td>Rs. 5,00,000/-</td> </tr> <tr> <td>Package II</td> <td>Rs. 5,00,000/-</td> </tr> </tbody> </table>	Package List	EMD Value	Package I	Rs. 5,00,000/-	Package II	Rs. 5,00,000/-
Package List	EMD Value						
Package I	Rs. 5,00,000/-						
Package II	Rs. 5,00,000/-						
Scope of Work	Selected agency is expected to deliver the services listed in Scope of Work as mentioned in this RFP.						
Language	Bid must be prepared by the Bidder in English language only						
Currency	The bidder should quote in Indian Rupees only. The Total Price inclusive of taxes and duties will be considered for evaluation. So, the bidder must mention the base price and the tax component separately.						
Validity Period	Proposals/bid must remain valid minimum for 180 days from the last date of bid submission.						
Bid to be submitted on or before last date of submission at:	<p>The proposal must be submitted to:</p> <p>The General Manager (Admn.) Odisha Computer Application Centre (OCAC) OCAC Building, Plot No.-N-1/7-D, Acharya Vihar Square, RRL Post Office, Bhubaneswar-751013 (INDIA)</p> <p>For each package the bidder must submit, all the three sealed separate envelopes (PQ,TB & CB) shall be put in another separate envelope with superscription as</p> <p>“ RFP for Supply, Installation & Warranty support of Compute & Storage Infrastructure for Odisha State Data Centre(OSDC), Bhubaneswar- Package No. __ [I/II]”</p> <p>and RFP Enquiry No. OCAC-NeGP-INFRA-0001-2018/18003, Date 16/01/2018</p>						

Section I: Invitation for Bids

Scope of Work

(A) Supply, Installation & Warranty support of Compute & Storage Infrastructure as per technical specification at Odisha State Data Centre, OCAC.

(B) 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 Technical Evaluation.

Pre-qualification Criteria of Package I and Package II

S. No.	Clause	Documents required						
1.	The Bids should be submitted by only the prime Bidder; no consortium is allowed in this Bid	Declaration in this regard needs to be submitted						
2.	The proposed Solution must be from the products figuring in relevant Gartner's Leader's Quadrant for last 3 years. <table border="1" style="margin-left: 20px; width: 100%;"> <thead> <tr> <th style="text-align: center;">Package List</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Package I</td> <td>Magic Quadrant for Rack Server</td> </tr> <tr> <td style="text-align: center;">Package II</td> <td>Magic Quadrant for General Purpose Disk Arrays</td> </tr> </tbody> </table>	Package List		Package I	Magic Quadrant for Rack Server	Package II	Magic Quadrant for General Purpose Disk Arrays	Submit the documentary proof regarding the same.
Package List								
Package I	Magic Quadrant for Rack Server							
Package II	Magic Quadrant for General Purpose Disk Arrays							
3.	The Bidder should have positive net worth during last three financial years, ending 31.03.2017 and shall be Rs. 2 crores on 31 st March 2017 in India.	A certified document by the Chartered Accountant stating the net worth and average annual turnover of the Bidder						
4.	The Bidder's average annual turnover should be more than (INR)10 crores in each of the last three financial years and profitable during each of the previous three financial years ending on 31.03.2017 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.						
5.	(a) The Bidder should be an established Information Technology company registered under the Companies Act, 1956 and in operation for at least 5 years as on 31.03.2017 and should have their	(a) Valid documentary proof of: <ul style="list-style-type: none"> • Certificate of incorporation • Certificate of Commencement • Certificate consequent to change of 						

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S. No.	Clause	Documents required
	<p>registered offices in India. (b) The company must be registered with appropriate authorities for all applicable statutory duties/taxes</p>	<p>name, if applicable (b) Valid documentary proof of:</p> <ul style="list-style-type: none"> • GST Identification number(GSTIN) • Income Tax registration/PAN number • Income Tax returns for last three Financial years
6.	<p>Bidder should have experience of supply, installation and annual maintenance services for IT Infrastructure projects and should have been in the business for a period exceeding three years as on 31.03.2017</p>	<ol style="list-style-type: none"> 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
7.	<p>ISO 9001:2008 or latest related to IT services and management</p>	<p>Copy of valid certificate at the time of bidding</p>
8.	<p>The bidder must have successfully undertaken at least the following numbers of systems implementation engagement(s) of value specified herein :</p> <ul style="list-style-type: none"> - One project of similar nature not less than the amount Rs. 1,80,00,000/- (One Crore Eighty Lakhs Only) OR - Two projects of similar nature not less than the amount equal Rs. 1,20,00,000/- (One Crore Twenty Lakhs Only) each; OR - Three projects of similar nature not less than the amount equal Rs. 80,00,000/- (Eighty Lakhs Only) each <p>'Similar Nature' is defined as , Supply of Server Hardware, storage solution, KVM</p>	<p>Work order, Completion Certificate or phase completion certificate for ongoing project from the client</p>

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S. No.	Clause	Documents required						
	Switch and Application software like Database, operating system etc. and their associated maintenance services for any government / public sector enterprises in India.							
9.	The Bidder shall not be under a Declaration of Ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government agencies.	Declaration in this regard by the authorized signatory of the Bidder						
10	<p>The Bidder should submit valid letter from all the OEMs confirming the following:</p> <ul style="list-style-type: none"> • Authorization for Bidder • Confirm that 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 • Undertake that the support including spares, patches, upgrades for the quoted products shall be available for the period of 5 years from the date of acceptance. 	<p>Relevant documentary evidences like Authorization letters (MAF (Manufacturers authorization Form) from all Vendors whose products are being quoted by the Bidder need to be attached in the proposal)</p>						
11	<p>I. The Bidder must have a registered office in Odisha.</p> <p>II. The Bidder must have service/maintenance professionals available in Odisha.</p>	A Self Certified letter by an authorized signatory mentioning the list of service/maintenance professionals.						
12	<p>The bidder must have submitted Rs. 1000/- (Rupees One thousand only) towards the cost of the Tender Document.</p> <p>The Bidder should furnish, as part of its Bid, an Earnest Money Deposit (EMD) as mentioned for different packages.</p> <table border="1" data-bbox="193 1809 874 1966"> <thead> <tr> <th>Package List</th> <th>EMD Value</th> </tr> </thead> <tbody> <tr> <td>Package I</td> <td>Rs. 5,00,000/-</td> </tr> <tr> <td>Package II</td> <td>Rs. 5,00,000/-</td> </tr> </tbody> </table>	Package List	EMD Value	Package I	Rs. 5,00,000/-	Package II	Rs. 5,00,000/-	In shape of DD from a schedule commercial bank
Package List	EMD Value							
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Package II	Rs. 5,00,000/-							

(C) Bid Submission

The bid must be submitted in three separate envelopes as

- i. Pre-qualification Bid(As mentioned in eligibility conditions format)
- ii. Technical Bid
- iii. Commercial Bid

(D) Technical Bid

Technical bid shall contain:

- (i) Technical bid with full details including description of make & model of items / components for technical assessment of the proposal. The bidder must quote only for branded parts.
- (ii) An Undertaking as mentioned under Eligibility Criteria.
- (iii) All the documentary proof of applicable standards and bench marks should be submitted along with the technical bids.
- (iv) 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
- (v) 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.**
- (vi) 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.

Important Note:

- a) **If the bid is incomplete and / or non-responsive it will be rejected during technical evaluation. The bidder may not be approached for clarifications during the technical evaluation. So bidders are requested to ensure that they provide all necessarily details in the submitted bids.**
- b) **If any price details are found in the Technical Bid, the offer will be summarily rejected.**

(E) Commercial Bid

- i. ***Commercial BID SHOULD be submitted in a sealed envelope as per the format specified in Financial Proposal of respective package.***
- 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.

(F) Technical Qualification Criteria

- i. Bidders who meet the pre-qualifications/eligibility requirements would be considered as qualified to move to the next stage of Technical and Financial evaluations.
- ii. The Product offered should meet all the technical and functional specifications given in the "technical specification of respective packages".
- iii. Non-compliance to any of the technical and functional specification will lead to rejection of the proposal.
- iv. Response except "Yes" or "No" is not acceptable
- v. Bidders, whose bids are responsive to all the items in the Compliance Sheet for Technical Proposal and meet all the technical and functional specifications, would be considered technically qualified

(G) Commercial Bid Evaluation

- i. The Financial Bids of technically qualified bidders will be opened on the prescribed date in the presence of bidder representatives.
- ii. The Bidder, who has submitted the lowest Commercial bid, shall be selected as the L1 and shall be called for further process leading to the award of the assignment.
- iii. Only fixed price financial bids indicating total price for all the deliverables and services specified in this bid document will be considered.
- iv. The bid price will include all taxes and levies and shall be in Indian Rupees.
- v. Any conditional bid would be rejected

Section II: Instruction to Bidders

- (A) **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.
- (B) **Delivery:** The delivery to be done at OSDC, Bhubaneswar and should be completed within Six Weeks from the date of issue of Purchase Order
- (C) **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.
- (D) 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.
- (E) The PB Queries of only those bidders/ OEMs shall be entertained and responded to who have purchased the Tender Document i.e.; deposited the prescribed tender fee.
- (F) Materials must be properly packed against any damage and insured up to the destination. The material should directly be supplied to **OSDC, Bhubaneswar**. All the expenses involved in shipping the equipment to OSDC, shall be borne by the Bidder. All aspects of safe delivery shall be the exclusive responsibility of the Bidder. **OCAC**, will have the right to reject the component / equipments supplied, if it does not comply with the specifications at any point of installation / inspection.
- (G) Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraw or amends, impairs or derogates from the tender in any respect within the validity period of the tender.
- (H) The Earnest Money of all unsuccessful bidders shall be returned as early as possible. No interest will be payable by OCAC on the Earnest Money Deposit. The Earnest Money of successful bidder shall be returned after successful completion of entire work and submission of Performance Bank Guarantee (PBG) towards 10% of order value.
- (I) If any equipment or part thereof is lost or rendered defective during transit, the supplier shall immediately arrange for the supply of the equipment or part thereof, as the case may be, at no extra cost.
- (J) The rates should be quoted in **Indian Rupees**, for the entire work to be done at site, IN FIGURES only.

- (K) Govt. Levies like GST shall be paid at actual rates applicable on the date of submission of Bid. Rates should be quoted accordingly giving the basic price and GST.
- (L) OCAC reserves the right to accept / reject the offers or cancel the whole tender proceedings without assigning any reason whatsoever. Late / Delayed offers shall not be accepted under any circumstances. Incomplete offers will be rejected.
- (M) OCAC shall not be responsible for delayed submission or non- submission of bid due to any reason whatsoever. The bidders are requested to submit the bid much before date & time of submission, failing which OCAC shall not be responsible for any such delay.
- (N) Any attempt of direct or indirect negotiations on the part of the bidder with the authority to whom the bid has been submitted or authority who is competent to finally accept / reject the same after the tender has been submitted or any endeavor to secure any interest for an actual or prospective bidder or to influence by any means the acceptance of a particular tender will render the tender liable to be rejected.
- (O) Unsatisfactory Performance: The Parties herein agree that OCAC shall have the sole and discretionary right to assess the performance(s) of the Bidder component(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.
- (P) 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 endeavours. 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
- (Q) 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

(R) 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.

(S) 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

(T) Declaration:

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

"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".

Section III: Special Conditions of Contract

- (A) **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
- (B) **Billing** is to be done in the name of Odisha Computer Application Centre, Plot No.-N-1/7-D, 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.
- (C) **Payment:** 90% of invoice value after satisfactory delivery, along with testing acknowledgement of confirmed delivery report, satisfactory test report, Installation and submission of invoice duly signed by OSDC's authorized representative at site. Balance 10% would be made after submission of Performance Bank Guarantee issued from a nationalized / scheduled commercial bank of equivalent amount. 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.
- (D) **Penalty for Delayed Services:** Penalty will be charged @ 0.5% of the contract value per week subject to maximum of 5% of total order value, in case of delayed in supply of stipulated time period.
- (E) **Warranty:** All the items covered in the schedule of the requirements /Bill of Material (BOM), shall carry **24 x 7 Comprehensive Onsite Response Warranty support from OEM** .
- (F) Escalation matrix should also be provided along with the technical bid.
- (G) All devices should be configured onsite at SDC premises by the certified OEM professionals.

Technical Specifications

Package I

1. Technical Specification of Rack Server (Quantity - 12 Nos.)

S. No.	Parameter	Functionality	Compliance
1	Processor	The server should have 2 nos. of Intel Xeon Processor E5-2600 v4 family of 22 cores or higher (64-bit x86 processor fully binary compatible to 32-bit applications). Number of cores on a single die/socket will be treated as a single processor.	
2	Performance	Minimum Benchmark score of 1340 using SPEC CPU2006 (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006) with the quoted processor and 512 GB RAM.	
3	Memory	512GB latest DDR memory using 32 GB DIMM's upgradable to 768 GB. The proposed expandability should be met by adding more memory modules of same capacity.	
4	HDD controller	12 Gbps SAS RAID Controller supporting RAID 0, 1 & 5 with 2GB battery backed up Cache	
5	HDD	4x1.2 TB SAS Hot swap HDD (15Krpm or higher)	
6	Video Controller	Integrated Graphics Controller	
7	Network Controller	Minimum 2*1Gbps port & Quad Ports - 2*10 Gbps on two different controllers	
8	Fibre channel HBA	Dual FC Port 16 Gbps on two different controllers with two number of 5m LC-LC Cable	
9	Slots	Minimum two free PCI/PCI-x/PCI-Express	
10	Ports	2* USB; 1* Keyboard Port & 1*Mouse Port (on board/dongle), One dedicated Ethernet Port for OS independent out-of-band hardware management.	
11	Bays	Minimum 5 Hot Swap drive bays	
12	Optical Drive	DVD ROM Internal/External	
13	System Chassis	Rack Mount, 2U (max), Redundant Hot Swappable Power Supply with platinum efficiency	
14	OS Certification	Certification for latest Server version of Windows and minimum two Linux flavours	
15	Driver / Software utilities	All required device drivers for OS installation, System Configuration and Server Management	
16	System Management	Remote Management of Server over LAN & WAN with SSL encryption, Virtual Media with required license, Remote KVM, Server Health logging, Out-of-band management	
17	Virtualization	Should support Industry Standard Virtualization Software	
18	Warranty	Five years on-site comprehensive OEM Warranty Support	

2. Microsoft Windows Server Standard Edition 2016 (Quantity – 30 nos)

Technical Specifications

Package II

1. Technical Specification of 300 TB SAN Storage

S. No	Parameter	Functionality	Compliance(Yes/No)
1	Capacity	The proposed solution must support mix drives. The solution must be proposed with 60 TB using SSD in RAID 5/6 and 240 TB using SAS in RAID 5/6. Additional global hot spare drive of same capacity for every thirty drives should be configured on RAID 5/6. The disk size of SSD should not be less than 900 GB & the disk size of SAS should not be less than 1.8 TB (15k or higher RPM).	
2	Expandability	It should be scalable up to 1PB or higher using 1.8 TB or higher SAS Disk drives (15K or higher RPM) within same storage system without compromising performance of the system.	
3	Controller & RAID levels	Minimum Dual Storage controllers/Nodes configured in Active-Active mode, should support RAID level 1/10 & 5/6 or equivalent with automatic failover.	
4	Disks Supported	Controller/Node should support SSD, SAS & SATA/NL-SAS HDD with provision for intermixing of these drives on the same controller/Node	
5	Host Ports	Storage should be supplied with minimum 16 x 16 Gbps FC ports & 4 x 10Gbps iSCSI ports	
6	Back End (For Disk Array connectivity)	Minimum 16 x SAS Links of 12 Gbps or higher across controllers	
7	Cache/Memory	Minimum 256 GB across controllers with battery backup for 72Hrs OR equivalent mechanism, to protect data in Cache in case of power failure. (Cache of 256GB means sum of the Cache memory supported by all the Storage Controllers in the Storage. Cache memory of NAS header and any other device will not be considered to calculate cache of the Storage)	
8	Chassis	Rack Mountable with Hot Swap Redundant Power Supply & Cooling Fans; All necessary cables and accessories to connect Storage System to Servers / SAN Switch	
9	Multipath	Should support Multipath from SAN to Server or vice versa. Any software required should be supplied	
10	High Availability	No single point of failure (NSPOF); Online firmware upgrades; Remote diagnostic support.	
11	Data Efficiency	The Storage array should support data efficiency features like compression or deduplication	
12	DR support	The Storage Array should support three way replication in native fashion without using any additional replication appliance. Replication shall support incremental replication after resumption from link failure or failback situations.	
13	Virtual storage support	The storage should support all leading OEMs virtual storage support for replication of volume to remote DR site. All volumes of the unified storage must recognized by Hitachi VSP Series to replicate these volume to NDC, Shastri Park, New Delhi.	
14	Thin Provisioning	For effective cloud deployment offered storage should be supplied with thin provisioning and auto thin reclaim to make the volume thin for an extended	

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	and Space Reclaim	period of time for complete array supported raw capacity. It should support automated thin reclaim else additional controller and cache must be offered to handle the overload.	
15	Snapshot / Point in time copy / Clone	a. Offered Storage shall support to make the snapshot and full copy (Clone) of thin / thick volumes as thin volume. b. The Storage Array should have support for controller-based snapshots functionality (At-least 256 copies for a given volume). c. Storage Array shall have functionality to re-claim the space from thin provisioned deleted snapshot automatically. d. Storage shall have application consistent integration with VMWare, Hyper-V, MS SQL, Oracle, Exchange etc .	
16	Storage Tiering	a. Offered storage shall provide dynamic migration of volume from one Raid set to another set while keeping the application online. b. For effective data tiering, Storage subsystem shall provide support for automatic policy based Sub-Lun Data Migration from one Set of drive Tier to another set of drive tier	
17	Software features and Licenses to be supplied for full capacity	Point-in Time Copy; Cloning; Thin Provisioning; Block based Remote replication in both SYNC and ASYNC modes, File based Asynchronous replication, Online Volume Migration, LUN masking	
18	Management Software and Licenses to be supplied for full capacity	Single GUI & WEB based remote management; Should be capable to create, expand & move volumes dynamically; Support for dynamic LUN expansion	
19	VAAI Integration	Storage must be complied to VMware API for Array Integration	
20	OS Support	LINUX, WINDOW, UNIX, Solaris etc.	
21		40 nos. Of 10 Mtr. LC-LC patch cord must be supplied from OEM(AMP/Rosenberg/CommScope) with 25 years replacement warranty against any manufacturer defect.	

Scalability BOM:

50 TB Array with Disk {Scalability Purpose. Quoted price must remain valid for three year }
[8:2 SAS & SSD ratio must be maintained]

2. SAN Switch - Two Nos.

S. No.	Functionality	Compliance
1	The fiber switch should be quoted with minimum 96 FC ports of 16Gbps speed each with necessary Licenses.	
2	The switch should have support for 4/8/16 Gbps HBA	
3	The switch should have auto sensing, Zoning, Integrated 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 Fan 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 should have following Zoning and security features	
12	a. Support for hardware -enforced zoning.	
13	b. Policy based security and centralized fabric management.	
14	c. Support for secure access.	
15	d. Support for FC based authentication	
16	e. Support for RADIUS, SSH, SNMP	
17	f. Support for port binding	
18	g. Support for port masking	
19	h. Support for Hardware based Inter Switch linking / trunking.	
20	i. Support for dynamic Load balancing of links with no overhead	
21	All relevant licenses for above features should be quoted along with switch	

Appendix I: Pre-Qualification & Technical Bid Templates

General

The bidders are expected to respond to the RFP using the forms given in this section and all documents supporting Pre-Qualification / Technical Evaluation Criteria.

Pre-Qualification Bid & Technical Proposal shall comprise of following forms :

Forms to be used in Pre-Qualification Proposal

Form 1: Compliance Sheet for Pre-qualification Proposal

Form 2: Particulars of the Bidders

Form 3: Manufacturers /Producers Authorization Form

Forms to be used in Technical Proposal

Form 4: Compliance Sheet for Technical Proposal

Form 5: Letter of Proposal

Form 1: Compliance Sheet for Pre-qualification Proposal

(The pre-qualification proposal should comprise of the following basic requirements. The documents mentioned in this compliance sheet along with this form, needs to be a part of the Pre-Qualification proposal)

S. No.	Basic Requirement	Documents Required	Provided	Reference & Page Number
1.	Document Fee	Demand Draft	Yes / No	
2	Power of Attorney	Copy of Power of Attorney in the name of the Authorized signatory	Yes / No	
3	Particulars of the Bidders	As per Form 2	Yes / No	
4	Earnest Money Deposit	Demand Draft	Yes / No	
5	Average Sales Turnover in Hardware & Maintenance services	Extracts from the audited Balance sheet and Profit & Loss; OR Certificate from the statutory auditor	Yes / No	
6	Letter of authorization from H/W OEM	Letter of authorization; as per template provided (Form 3)	Yes / No	
7	Competitive Positioning	Relevant documentary proof for Gartners Leaders Quadrant (only for package I & Package II)	Yes / No	
8	Technical Capability	Copy of work order	Yes / No	
9	Local Service Centres	A Self Certified letter by an authorized signatory	Yes / No	
10	Quality Certifications	ISO 9001:2008	Yes / No	
11	Legal Entity	Copy of Certificate of Incorporation; GST, PAN, IT return	Yes / No	
12	Blacklisting & Performance	A self certified letter	Yes / No	

Form 2: Particulars of the Bidders

S No.	Information Sought	Details to be Furnished
a	Name ,address and URL of the bidding Company	
b	Incorporation status of the firm (public limited / private limited, etc.)	
c	Year of Establishment	
d	Date of registration	
e	RoC Reference No.	
f	Details of company registration	
g	Name, Address, e-mail ID, Phone nos. and Mobile Number of Contact Person	

Form 3: Manufacturers /Producers Authorization Form

Letter No. _____

Date: _____

To

The General Manager(Admn)
Odisha Computer Application Centre
Bhubaneswar

Sub : OEM Authorization Letter

Dear Sir:

Ref: Your RFP Ref: OCAC-NeGP-INFRA-0001-2018/18003

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: 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.

Form 4: Compliance Sheet for Technical Proposal

(The Technical proposal should comprise of the following basic requirements. The documents mentioned in this compliance sheet along with this form, needs to be a part of the Technical proposal)

RFP Reference No: OCAC-NeGP-INFRA-0001-2018/18003 / Package No. __ [I / II]

Sl. No	Proposed Hardware	Version & Year of Release and EOL expectedd	O&M Support (Warranty as required as per RFP)	OEM	Feature Mandate in RFP	Specificatio ns Supplied by Vendor	Compliance to feature and functionalities of the model Proposed(Put Y or N only) Also provide necessary datasheet
1		Provide detail make and model etc.			As per technical specification mentioned in the RFP for respective package		

Form 5: Letter of Proposal

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

Subject: Submission of the Technical bid for Supply, Installation & Warranty support of Compute & Storage Infrastructure at Odisha State Data Center, OCAC.

Dear Sir/Madam,

We, the undersigned, offer to provide Supply, Installation & Warranty support of Compute & Storage Infrastructure at Odisha State Data Center, OCAC on with your RFP Ref No : _____ and our Proposal. We are hereby submitting our Proposal, which includes this Technical bid and the Financial Bid sealed in a separate envelope.

We hereby declare that all the information and statements made in this Technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the Implementation services related to the assignment not later than the date indicated in Fact Sheet.

We agree to abide by all the terms and conditions of the RFP document. We would hold the terms of our bid valid for 180 days as stipulated in the RFP document.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

Authorized Signature [*In full and initials*]: _____

Name and Title of Signatory: _____

Name of Firm: _____

Address: _____

Location: _____

Date: _____

Appendix II : Commercial Proposal Templates

The bidders are expected to respond to the RFP using the forms given in this section for Commercial Proposal.

Form 6: Covering Letter

Form 7: Commercial Proposal/Package I

Form 8: Commercial Proposal/Package II

Form 6: Covering Letter

< Location, 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

Subject: Submission of the Technical bid for Supply, Installation & Warranty support of Compute & Storage Infrastructure at Odisha State Data Center, OCAC.

RFP Reference No : OCAC-NeGP-INFRA-0001-2018/18003

Dear Sir/Madam,

We, the undersigned, offer to provide the Implementation services for Compute & Storage infrastructure supply & related services in accordance with your Request for Proposal cited above and our Proposal (Technical and Financial Proposals). Our attached Financial Proposal is for the sum of [*Amount in words and figures*]. This amount is exclusive of the local taxes.

Our Financial Proposal shall be binding upon us, up to expiration of the validity period of the Proposal, i.e., [*Date*].

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Firm:

Address:

Form 7: Financial Proposal

RFP REFERENCE NO : **OCAC-NeGP-INFRA-0001-2018/18003**

Package I

COMMERCIAL BID FORMAT

Sl. No.	Item	Quantity (a)	Unit Price (b)	Taxes per Unit (C)	Total Unit Cost (d) (d=b+c)	Total a x d
1	Rack Server: As per Technical Specifications	12				
2	Microsoft Windows Server Standard Edition 2016	30				
Grand Total						
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”.

Form 8: Financial Proposal

RFP REFERENCE NO : **OCAC-NeGP-INFRA-0001-2018/18003**

Package II

COMMERCIAL BID FORMAT

Sl. No.	Item	Quantity (a)	Unit Price (b)	Taxes per Unit (c)	Total Unit Cost (d) (d=b+c)	Total a x d
1	300 TB Storage Area Network(SAN) as per Technical specifications	1				
2	San switch	2				
3	Usable 50 TB Array with Disk {Scalability Purpose. Quoted price must remain valid for three year } [8:2 SAS & SSD ratio must be maintained]	1				
Grand Total						
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”.

Appendix III: Templates

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: