

# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY: BURLA



P.O: Engineering College Burla (Siddhi Vihar), Dist: Sambalpur  
Odisha- 768018, India

**Ref: VSSUT/ LIB/ 506 /2020**

**Date: 13.02.2020**

## TENDER CALL NOTICE

Sealed tenders are invited from Company/Firm/Agency for Supplying of Server and Storage of (100TB) to Central Library, VSSUT, Burla, Sambalpur, Odisha. The tenders shall reach the office of the undersigned through Speed/Registered post only on or before 03.03.2020 up to 12.00 PM.

For more details, please visit our university website [www.vssut.ac.in](http://www.vssut.ac.in). The authority reserves the right to accept or reject all the tenders without assigning any reason thereof.

Sd/-

REGISTRAR

**No. VSSUT/LIB/ 507(6) /2020**

**Dtd. 13.02.2020**

Copy to:

1. M/s Display Lines, 219, Saheed Nagar, Bhubaneswar-751007 with request to publish the above advertisement in one issue of the all Odisha daily edition of "THE SAMAJ" (All Edition) and English daily "TIMES OF INDIA (All India Edition)" at the I&PR approved /lowest rate. The bill may be sent in triplicate along with a copy of the paper in which the publication is made.
2. University Notice Board of VSSUT, Burla.
3. Comptroller of Finance for information and necessary action.
4. PA to Vice Chancellor for information of the Hon'ble Vice Chancellor.
5. PA to Registrar for information and necessary action.
6. The Dean F&P with a request to display the advertisement in University website.

*Leab*  
*12.02.2020*  
Registrar



**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA**

(Formerly UCE, Burla)

**Ph: +91-663-2430643**

**Fax: +91-663-2430204**

**e-mail: [centrallibrary@vssut.ac.in](mailto:centrallibrary@vssut.ac.in)**

**web: [www.vssut.ac.in](http://www.vssut.ac.in)**

No.VSSUT/LIB/ 506 /2020

date-13.02.2020

### **TENDER CALL NOTICE**

Sealed Bids (Properly stitched separately) in two separate covers (Technical Bid and Price Bid) are invited by “The Registrar, Veer Surendra Sai University Of Technology, Odisha” from the Company/Firm/Agency for supplying of Server and Storage of (100TB) to the Central Library, VSSUT Burla, Odisha.

<b>Sl.No</b>	<b>Item Description</b>	<b>Quantity</b>
<b>1</b>	<b>Server</b>	<b>1</b>
<b>2</b>	<b>Storage(100 TB)</b>	<b>Number of harddisks and capacity will be specified by the vendors as per given specificaitons</b>

The Bidders may download the Tender Documents directly from the website <http://www.vssut.ac.in>. The Tender cost fee of Rs. 500/- (Non-refundable) by way of Demand Draft drawn in favour of “The Registrar, Veer Surendra Sai University of Technology, Burla” payable at SBI, Burla should be enclosed along with the Bid. The Tender cost fee and the EMD amount should be submitted separately in Demand Draft. In case of any bid clarification, responsibility lies with the bidders to collect the same from the website and the University shall have no responsibility for any delay/ omission on part of the bidder.

#### **TIME SCHEDULE:**

- Date of commencement of downloading bidding document: 20.02.2020
- Last Date and Time for Receipt of bids: 03.03.2020 by 12.00 pm
- Date and Time of opening of Tender & technical bid: 04.03.2020 by 12.00 pm
- Date and Time of opening of Price bid: 06.03.2020 by 03.30 pm

Place of opening of tender and address for communication and receipt of bid documents

#### **THE REGISTRAR**

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA**

**At- Burla, Po-Burla Engineering College, Dist-Sambalpur-**

**768018, Tel. No- 0663-2430211 Fax No-0663-2430204**

(i) **General guidelines for submission of Tender**

**1. Document Establishing Bidder's Eligibility & Qualification**

The Bidders shall furnish as part of the Bid the following Documents establishing Bidder's eligibility and qualification to the Purchaser's satisfaction.

- a. Manufacturer / Authorized Distributor / Dealer having valid license / certificates for the quoted item and the direct Importers holding valid Import License Manufacturer / Authorized Distributor / Dealer of the product are eligible to participate in the Bid.
- b. Bidders should have ISI or equivalent certification for quoted instruments and equipment. However, the Purchaser shall have the right to consider the items where ISI or equivalent certification is not applicable.
- c. The Bidder whether manufacturer/ distributor/ dealer must have experience of supply and installation of the quoted items in reputed Government Institutions / Public Undertakings / reputed Private Institutions within India during last preceding 3(Three) years reckoned from the date of bid opening and the details must be submitted along with documentary proof.
- d. Authorized Distributor/Dealer/Suppliers have to submit Manufacture authorization.

**2. Documents Establishing Good Eligibility:**

- a. The documentary evidence establishing the brand and the model may be in the form of literature, pamphlets, manuals etc.
- b. Detailed description of hardwares with essential technical and performance characteristics may also be furnished.
- c. The Bidders should clearly mention in their bid regarding the compatibility of the equipment or the individual units.

**3. Technical Bid (COVER - A)**

- a. Earnest Money Deposit.
- b. Technical details of the hardwares.

- c. Copy of the manufacturing license/ import license/ Authorized Distributor/ Dealer certificates.
- d. Copy of the authorization from the Manufacturing Company in case of Authorized Distributor/Dealer in along with Manufacturer Industry Registration and Tax Registration Certificate.
- e. VAT/GST clearance certificate up to date where applicable.
- f. Performance/ Market standing certificate establishing that the Bidders have executed supply of similar items as mentioned in Schedule of Requirement of hardware and software to different Govt. Organizations/ Government PSUs / reputed Private Institutions.(proof of documents)
- g. The Bidder shall submit warranty certificate, installation note, PAN, GST and Income tax clearance certificate (self attested) along with the bill before release payment.
- h. Detail name, address, telephone no. fax, e-mail of the firm and of the Director/ Managing Director/ Proprietor of the firm. (As per Annexure I)
- i. Address, Telephone No., e-mail, Fax of the Branch Office/ Contact Person/ Liaisoning Office in Odisha. (As per Annexure II)
- j. Power of Attorney/ Authorization to a person for liaisoning and monitoring the business on behalf of the manufacturer / bidder but not entitled to raise the bills.
- k. The original bid document signed & sealed by authorized person in each page as a token of acceptance of all terms and conditions of the quotation with original receipt.
- l. Documentary evidence establishing that the hardware, software and ancillary services to be supplied by the Bidders shall confirm to the Bidding Document.
- m. Any deviation in the specification of the item should be marked in bold letters.
- n. Details of hardwares, if any, should be provided.

#### **4. Price Bid (Cover-B)**

- a. The hard copy of price bid giving the rates for the equipment should be submitted along with sealed soft copy of price bid **in Excel format** both in separate sealed cover hereinafter called **Cover B (Price Bid). Price Bid (Cover - B) of the bidders who qualify in Technical Bid (Cover – A)** will only be opened and will be communicated through E-mail/Fax.
- b. The price of the item shall be quoted as per the prescribed Price Schedule Format at Annexure-III along with price break up of custom duty, Excise Duty, CST, Packing, Forwarding and Handling charges, Insurance charges, ET, VAT, commissioning including testing with total price per item.
- c. Each quoted item and all accessories should cover the warranty / guarantee for 1(One) years from the date of commissioning.
- d. The Cover B of the technically qualifying bidders shall be only opened at the Office of the **“The Registrar, Veer Surendra Sai University of Technology,**

#### **5. Bid Conditions**

- i. The quoted rate shall not vary with the quantum of order placed or destination point.
- ii. A copy of the original bid conditions and the schedules should be signed by the bidder at the bottom of each page with the office seal duly affixed and returned along with the bid. Bid schedule should be duly filled in with an index and page number for the documents, enclosures & EMD etc. Paging must be done for all the documents submitted.
- iii. Bids should be type written or Computerized and every correction/ over writing in the bid should invariably be attested with signature of the bidder with date before submission of the bids to the authorities concerned. No revision of price upward or downward will be allowed once the bid is opened. However the purchaser shall have the right for considering the exchange rate of foreign currencies on verification of documents.

#### **6. Language of Bid**

The Bid prepared by the bidders and all correspondence and document relating to the bid exchanged by the Bidders and the Purchaser, shall be written in the English language. Supporting document and printed literature furnished by the Bidders may

be written in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the English translation shall govern.

#### **7. Bid Price**

- All duties, taxes, and other levies payable shall be included in the total price.
- VAT in connection with the sale shall be shown separately.
- The rates quoted by the bidders shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- The price shall be quoted in Indian Rupees only.

#### **8. EMD**

All bidders are required to submit EMD **not less than 2% of the quoted** amount in shape of Demand draft drawn in favour of “**The Registrar, Veer Surendra Sai University of Technology, Burla**” payable at SBI, Burla only. The EMD shall be in Indian Rupees.

NOTE: Non-submission of EMD or submission of less EMD than the desired one shall result in rejection of Bid. No interest is payable on EMD.

#### **9. Cost of Tender:**

The Bidder is required to deposit DD for Rs. 500.00 (Non-refundable after finalization of the quotation process) towards EMD in favour of “VSSUT, Burla” payable at SBI, Burla or Syndicate Bank, VSSUT, Burla along with quotation.

#### **10. SUBMISSION OF BIDS**

Bid should be submitted in two Bid system containing two parts as detailed below.

Sealed Cover-A: Technical Bid.

Sealed Cover-B: Price Bid (hardcopy & sealed soft copy)

Both the sealed envelopes should then be put in one outer cover and each cover should have the following indication:

- i. Name of Dept: \_\_\_\_\_
- ii. Reference No of Bid: \_\_\_\_\_
- iii. Bid regarding: \_\_\_\_\_
- iv. Due date & time for submission of the Bid : \_\_\_\_\_
- v. Due date & time for opening of the Bid : \_\_\_\_\_

vi. Name of the Firm: \_\_\_\_\_

**NOTE:**

Bids submitted without following two Bid system procedures as mentioned above will be summarily rejected.

- i. Please Note that prices should not be indicated in the Technical Bid. The Prequalification document including EMD as required in the Bid document should invariable be accompanied with the Technical Bid (Cover A).
- ii. The outer envelope shall indicate the name and address of the bidders to enable the bid to be returned unopened in case it is declared “late”. If the cover containing the outer envelope is not sealed and marked as required, Purchaser will assume no responsibility for the bid’s misplacement or premature opening.

The above procedure shall be adopted both for the Technical bid and price bid separately. Telex, cable, email or facsimile bids will be rejected.

**11. Deadline for Submission of Bids:**

Bids must be received by the Purchaser at the address specified not later than the time and date specified in the Invitation of Bids. In the event of the specified date for the submission of bids being declared a holiday for the Purchaser, the bids will be received up to the appointed time on the next working day.

The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid document, in which case all previous rights and obligations of the purchasers and bidders will remain same till the extended date.

**Modification and Withdrawal of Bids**

No Modification and Withdrawal of Bids is allowed between the interval of time of submission and the last date and time of the bids.

No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidders on the bid form.

**12. BID OPENING**

The University will open technical bids, in the presence of bidder’s representatives (if any) who choose to attend at 12.00 pm on dated **04.03.2020** at the Office of the “**The Registrar, Veer Surendra Sai University of Technology, Burla**”.

The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.

The bidder's names, and the presence or absence of the requisite EMD and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the opening.

### **13. Acceptance of the Bid:**

- i. Bidders submitting bids would be considered who have considered and accepted all terms and conditions. No enquiries, verbal or written, shall be entertained in respect of acceptance or rejection of the bid.
- ii. Genuine equipments should be supplied. Bidders should indicate the source of supply i.e. name and address of the manufacturers from whom the items are to be sourced.
- iii. Supply of equipment means – Installation and Commissioning (except civil works), Demonstration as well as Training at site. No separate charges will be paid on this account.

### **14. Rejection of the Bid**

The Bid document shall be out-rightly rejected under following stipulation and no correspondence will be entertained whatsoever.

- If the Bidders has not furnished the required quotation paper cost and EMD or EMD exemption certificate from competent authority.
- If the Bidders has not submitted the Price as per the prescribed format Annexure-I
- Manufacturing Authorization Annexure-III and in case of Authorized Distributor / Dealer/Suppliers have to submit Manufacture authorization along with copy of above documents of Manufacture Industry.
- Photo copy of the up-to-date valid manufacturing license/ import license (if it is imported)/dealership certificate/Distributor certificate of the product along with Tax registration Certificate of Manufacturer issued from competent authority.



- The tender is liable to be cancelled for non submission of EMD and tender fees.

### **15. Purchaser's Right to Accept any Bid and to Reject any Bid**

The Purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all the bids without assigning any reason thereof at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or Bidders on the grounds of such action of the purchaser. In case no bidder qualifies as per qualifying criteria and standards, purchaser may at his discretion relax qualification criteria for award of contract.

### **16. Evaluation and Comparison of Bids**

The comparison shall be on a FOR destination price basis including the price of all costs wherever applicable as well as duties and taxes (but excluding VAT) paid or payable on instruments & equipment incorporated or to be incorporated in the items including the warranty/guarantee period from the date of installation.

- The Purchaser's evaluation of a bid will take into account, in addition to the bid price and the price of incidental services.
- The purpose of bid evaluation is to determine a substantially responsive bid with the lowest evaluated cost, but not necessarily the lowest submitted price, which should be recommended for award.
- Evaluation of bids should be made strictly in terms of the provisions in the bid document to ensure compliance with the commercial and technical aspects.
- The past performance of the suppliers will be taken into account while evaluating the bids.
- Cost of the inland transportation, insurance and other costs within the Purchaser's Country incidental to delivery of the goods to their final destination.
- Delivery schedule offered in the bid
- The performance and productivity of the equipment/ goods offered.

- The quality and adaptability of the equipment/ goods offered.
- Any other point as deemed proper to be incorporated by the evaluation committee.
- Alternative options of offer shall not be allowed
- Each Bidder shall submit only one quotation with one make & model.
- The quotation would be evaluated separately for each item.
- Sales Tax in connection with sale of goods shall not be taken into account in evaluation.
- Negotiation shall be made with the lowest evaluated bidder.
- Lowest evaluated price shall be taken in to consideration, but not the lowest quoted price.

### **17. Delivery of Product**

The delivery of Product shall be made by the supplier to the Consignee in accordance to the order placed as shall be detailed in the Schedule of requirements & technical specifications.

### **18. Instruments, Equipment Demonstration cum Inspection**

Purchaser reserves the right to ask for demonstration cum inspection of the equipment where ever applicable.

#### **. Inspection/ Test/Training**

. The supplier shall get each equipment inspected in manufacturer's works and Submit a test certificate (New & Unused) and also guarantee/warranty certificate that the equipment confirms to laid down specifications.

The supplier shall invite the purchaser for pre-dispatch inspection. The Purchaser or his representative shall have the right to inspect/ examine/ test the goods in conformity with the contract awarded/supply order during the production or before dispatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the equipment on receipt at destination.

The inspection/examination/ test may be conducted in the premises of the Supplier or at the goods final destination or at the premises of the consignee, as will be decided by the Purchaser.

The purchaser's right to inspect/ examine/test & where necessary to reject the instruments after the arrival of the goods at the final destination, shall in no way be limited or waived by the reason of the goods having been inspected and tested by the manufacturer previously. In case of rejection of the goods at the final destination after inspection and test as stipulated above and in case any inspected/ tested goods fail to confirm to the specification/ working condition, the purchaser may reject them and the supplier shall replace/ repair the same free of cost.

#### **19. Warrantee Period (comprehensive)**

The Bidders must quote for a minimum period of 1(One) years of comprehensive warranty from the date of completion of the satisfactory commissioning.

#### **20. Payment Terms**

No advance payment will be made by the Purchaser to the supplier for performance of the contract. 100% of the contract price shall be paid within 30 (thirty) days after satisfactory supply, installation, demonstration, Commissioning and stock entry of bills of the goods within due date of delivery.

#### **21. Transportation**

The Supplier shall be required to meet all transport charges until commissioning of the item

##### **Taxes and Duties:**

The Supplier shall be entirely responsible for payment of all Taxes, Duties etc. incurred until delivery of the contract goods to the Consignee subject to recovery afterwards in the bill as claimed in the Bid offer. GST will be applicable to the supplier as per Government of India guideline, which includes CGST/SGST.

## **22. Incidental Services**

The Supplier shall be required to provide following services: The cost should be included in the quoted Price. Performance or supervision of on-site assembly of the supplied goods will be carried out by the supplier.

## **23. Period of Validity of Bids**

- a. The bid rates should be kept open/ valid for a period of 180 days from the date the Bids are opened.
- b. A bid valid for a shorter period i.e. less than 180 days shall be rejected, as nonresponsive.
- c. In absence of any indication of the date of validity in the bid, it will be presumed that the offer will remain valid for the minimum period i.e. 180 days as prescribed above.
- d. In exceptional circumstances the purchaser may solicit the bidders consent for extension of the period of validity. If agreed upon, the bid security so deposited shall also be suitably extended.

## **24. Commissioning Period**

Maximum commissioning period is 30 days from the date of supply OR 120 days from the date of issue of Purchase Order failing which the purchaser will have the right to impose penalty for the delay period @ **0.5% per week of the contract value of item/items excluding taxes from the bill amount subject to maximum of 10%. However, Registrar** has right to extend the delivery period/commissioning period in special cases.

## **25. Penalty against Non Supply**

In case of non-supply of items within the due date i.e. within the date of delivery the EMD deposited by the bidder shall be forfeited.

## **26. Defective items:**

No payment shall be made for defective supplied items. Defective items must be replaced by the bidders within two weeks of the date of purchased at their own cost and replace immediately.

**27. Jurisdiction of the Court**

The Purchaser and the Supplier shall agree that the competent Court at Sambalpur shall have the jurisdiction to try and decide anything between the parties and they may approach the Competent Court at Sambalpur if required at any time.

## Technical Specifications for Server

<b>Server:</b>		
<b>Item</b>	<b>Description of Requirement</b>	<b>Compliance</b>
Chassis	2 U Rack Mountable	
CPU	Two numbers of latest generation Intel Xeon-Gold 5217 (3.0GHz/8-core) processors	
Memory	24DIMM slots. 256 GB DIMMS scalable upto 3.0 TB using DDR4 Load Reduced DIMM (LRDIMM) operating at 2666 MHz  Should be capable of identifying and reporting whether genuene OEM memory is installed for system reliability	
Memory Protection	Advanced ECC with multi-bit error protection, Online spare, mirrored memory and fast fault tolerance	
HDD Bays	Up to 24+6 SFF HDD/SSD or 12+4+3 LFF with 2 SFF HDD/SSD or 24 NVMe PCIe SSD  The drive carrier should have intuitive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to aviod dataloss/downtime due to wrong drive removal.	
<b>Hard disk drive</b>	10 Nos 10TB SATA 7.2K LFF HDD ( Total 100TB Read and Write capacity)	
Controller	Server should support Onboard SATA software RAID controller supporting SSD/HDD and at least two M.2 drives  In addition, server should support one of the below controllers supporting Mixed Mode which combines RAID and HBA mode,  PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced	

	<p>Data Mirroring (onboard or on a PCI Express slot) or PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/10 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest Encryption</p>	
Networking features	<p>Server should support below networking cards:</p> <ol style="list-style-type: none"> <li>1. 1Gb 4-port network adaptors</li> <li>2. 10Gb 2-port Ethernet adaptor</li> <li>3. 10GBaseT 4-port Ethernet adaptor</li> <li>4. 4x25Gb Ethernet adaptor</li> <li>5. 10/25Gb 2-port Ethernt adaptor</li> <li>6. 100Gb Ethernet</li> </ol> <p>Infiniband Options: 40Gb dual port or 100Gb Single or Dual port Adapter 100Gb Single port Omni path adaptor</p>	
Interfaces	<p>Serial - 1 Micro SD slot - 1 USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure)</p>	
Bus Slots	Six PCI-Express 3.0 slots, atleast two x16 PCIe slots	
Power Supply	Should support hot plug redundant low halogen power supplies with minimum 94% efficiency	
Fans	Redundant hot-plug system fans	
Industry Standard Compliance	<p>ACPI 6.1 Compliant PCIe 3.0 Compliant PXE Support Energy Star ASHRAE A3/A4 UEFI 2.6 SMBIOS Redfish API SNMP v3 TLS 1.2 DMTF Systems Management Architecture</p>	

System Security	<p>UEFI Secure Boot and Secure Start support</p> <p>Security feature to ensure servers do not execute compromised firmware code</p> <p>FIPS 140-2 validation</p> <p>Common Criteria certification</p> <p>Configurable for PCI DSS compliance</p> <p>Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser</p> <p>Tamper-free updates - components digitally signed and verified</p> <p>Secure Recovery - recover critical firmware to known good state on detection of compromised firmware</p> <p>Ability to rollback firmware</p> <p>Secure erase of NAND/User data</p> <p>TPM (Trusted Platform Module) 1.2</p> <p>TPM (Trusted Platform Module) 2.0</p> <p>Smart card (PIV/CAC) and Kerberos based 2-factor Authentication</p> <p>Configurable for PCI DSS compliance</p> <p>Secure erase of NAND</p> <p>Chassis Intrusion detection</p>	
Operating Systems and Virtualization Software Support	<p>Microsoft Windows Server</p> <p>Red Hat Enterprise Linux (RHEL)</p> <p>SUSE Linux Enterprise Server (SLES)</p> <p>VMware</p> <p>ClearOS</p>	
GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators	
System tuning for performance	<p>1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode</p> <p>2. System should support workload Profiles for simple performance optimization</p>	
Secure encryption	System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should	



	support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.	
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.	
Provisioning	<ol style="list-style-type: none"> <li>1. Should support tool to provision server using RESTful API to discover and deploy servers at scale</li> <li>2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell</li> </ol>	
Firmware security	<ol style="list-style-type: none"> <li>1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable</li> <li>2. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware</li> </ol>	

<p>Embedded Remote Management and firmware security</p>	<ol style="list-style-type: none"> <li>1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication</li> <li>2. Server should have dedicated 1Gbps remote management port</li> <li>3. Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware</li> <li>3. Server should support agentless management using the out-of-band remote management port</li> <li>4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur</li> <li>5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available</li> <li>6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support.Should provide support for AES and 3DES on browser.Should provide remote firmware update functionality.Should provide support for Java free graphical remote console.</li> <li>7. Should support managing multiple servers as one via Group Power Control</li> </ol>	
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	<p>Group Power Capping  Group Firmware Update  Group Configuration  Group Virtual Media  Group License Activation  8. Should support RESTful API integration  9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p>	
<p>Server Management</p>	<p>Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view.</p>	
	<p>The Dashboard minimum should display a health summary of the following:</p> <ul style="list-style-type: none"> <li>• Server Profiles</li> <li>• Server Hardware</li> <li>• Appliance alerts</li> </ul>	
	<p>The Systems Management software should provide Role-based access control</p>	
	<p>Management software should support integration with popular virtualization platform management software like vCenter, and SCVMM</p>	
	<p>Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.</p>	
	<p>Should provide an online portal that can be accesible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties,</p>	

	<p>support contracts and status. The Portal should also provide a personalised dashboard to monitor device health, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be available on premise (at our location - console based) or off premise (in the cloud).</p> <p>Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.</p> <p>The Server Management Software should be of the same brand as of the server supplier.</p>	
<p>Cloud Enabled Monitoring and Analytics</p>	<p>1. Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.</p> <p>2. Cloud Enabled Monitoring and analytics engine shall have capability to provide following:</p> <ul style="list-style-type: none"> <li>a. Providing Firmware upgrade and patch upgrade recommendations proactively.</li> <li>b. Providing power and support entitlement status.</li> <li>c. Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.</li> </ul>	

## Technical Specifications for Storage

<b>SPECIFICATION FOR Storage</b>				
TO BE FILLED BY BIDDER				
S.No.	Features	Qualifying Minimum Requirements	Vendor Compliance	Specifications offered by vendor
1	No. of Storage Units (Each Capacity)		YES/NO	
2	Make Offered			
3	Model Offered			
4	Rack mount	NAS Controller Should be rack mounted with a form factor of not more than 2U	YES/NO	Pl. specify:
5	Processor	Dual processor of hexa Core each. Shall be Intel Bronze 3104 - 1.7Ghz with 8.25MB L3 Cache or higher.	YES/NO	Pl. specify:
6	Memory	32GB DDR4 RAM or higher, scalable to 384GB DDR4 RAM	YES/NO	Pl. specify:
7	Hard Drives	Shall be supplied with minimum of 100TB Read and Write Capacity  Offered NAS Storage shall have separate dedicated SSD drives for Operating system in Raid 1+0. Hard drives shall be M2 form factor.	YES/NO  YES/NO	Pl. specify:  Pl. specify:
8	Storage expandability	1. Offered NAS controller shall support at-least 16 internal LFF Slots and shall be offered with at-least 12 LFF Slots.  2. Offered storage shall also have capability to attach additional drive enclosures. NAS shall support at-least 300TB of external capacity using 10TB drives.	YES/NO	Pl. specify:
9	Network Connectivity	Min. 4 X 1Gbps auto sensing NICs ports and shall be further scalable to additional 8 numbers of 10Gbps ethernet port.	YES/NO	Pl. specify:
10	Protocols support	TCP/IP, ISCSI, FTP, FTPS, CIFS/SMB 3.1.1, HTTP, HTTPS, NFS 4.1, WebDev etc.	YES/NO	Pl. specify:

11	Fault Tolerance for internal drives	Offered NAS shall support Raid 0, Raid 1, Raid 1+0, Raid 5 and Raid 6 for internal drives. Offered Raid controller shall have minimum of 4GB flash back write cache.	YES/NO	Pl. specify:
12	Fault Tolerance for external drives	Offered NAS shall support Raid 0, Raid 1, Raid 1+0, Raid 5 and Raid 6 for external drives. Supported Raid controller shall have minimum of 4GB flash back write cache.		
13	Network Client Types Support	Should support Windows 10, Windows 2012, 2016, , HP-UX, AIX, SOLARIS, Linux etc.	YES/NO	Pl. specify:
14	Operating System	Microsoft Windows Storage Server 2016 - 64 bit edition ( NAS optimized ) including powered OS drivers	YES/NO	Pl. specify:
15	De-duplication	Offered NAS shall have block based De-duplication which can be enabled for for all required volumes. De-duplication engine shall have:  1. Flexibiity to decide the multiple schedules when de-duplication process can be run.  2. Flexibility to limit the time period of de-duplication process so that production operations remains intact.  3. Flexibility to bypass the recent files under the de-duplication process so that production operations remains intact.  4. License for De-duplication shall be provided.  5. Shall support more than 64TB of file system for de-duplication.	YES/NO  1. YES/NO  2. YES/NO  3. YES/NO  4. YES/NO	Pl. specify:
16	File screening and quota management	1. Offered NAS shall have support for file screening so that adminirator can ensures that users shall not be able to store unwanted files on offered NAS device.  2. Offered NAS shall have Quota management for both Volume and Directory.  3. Software for both File screening as well as Quata management shall be provided.	YES/NO	Pl. specify:

17	File Management	<p>1. Shall have flexibility to expire or move files to different folder / Location / Volumes / drives on the basis of polices like day of creation / modification / access of on the basis of file pattern like extension.</p> <p>2. Shall also be able to expire or move files to different folder / Location / Volumes / Drives on the basis of content classification within files.</p>	<p>1. YES/NO</p> <p>2. YES/NO</p>	Pl. specify:
18	NAS/SAN storage (iSCSI based)	Integrated iSCSI for block access over LAN.	YES/NO	Pl. specify:
19	Snapshots	Point in time copies of your data to guard against data corruption.	YES/NO	Pl. specify:
20	Encryption and compression	Shall have support for encryption and Compression. License for both of same shall be offered.	YES/NO	Pl. specify:
21	Replication	Offered NAS shall also be supported with leading NAS replication softwares in the industry	YES/NO	Pl. specify:
22	Power Supply and FAN	Offered NAS shall also have Hot Plug redundant power supply and FAN	YES/NO	Pl. specify:

**ANNEXURE- I**  
**DETAILS OF THE BIDDERS**

**Bid Reference No.**

Sl No	Description	To be filled by the Supplier
1	Name of the Supplier/ Agency/ Dealer	
2	Pan No & TIN No	
3	Address with Phone No./ E-mail/FAX	
4	Contact Person(s) Phone No./ Mobile No.	
5	Total annual turn-over (Value in Rupees)	
6	Test Certificate held (Type test, BIS/ISO certification)	
7	Name of the OEM/ Brand	
8	Quoted Model No.	
9	Certificate w.r.t Authorized dealer	
10	Details of Bank draft towards the cost of Tender documents	
11	Details of Bank Draft towards EMD	
12	GST Registration details	
13	Experience Details (with proof of orders from organization to which supplied earlier)	

**DECLARATION:**

We hereby certify that the information furnished above is full and correct to the best of our knowledge. We understand that in case any deviation is found in the above statement at any stage, the Tender is liable to be rejected.



ANNEXURE-II

BIDDERS' AUTHORIZATION FORM

No. \_\_\_\_\_/Date \_\_\_\_\_/

To

The Registrar  
VSSUT ODISHA  
Burla, Sambalpur

Dear Sir, Bid No. \_\_\_\_\_

We \_\_\_\_\_ who are established and reputed  
Company/Firm \_\_\_\_\_ having factories at \_\_\_\_\_  
(Address of Factory) do there by authorize  
M/s. \_\_\_\_\_ (Name and address of Agent) to  
submit a bid and sign the contract with you against the above bid.

\*No company or firm or individual other than M/s. \_\_\_\_\_ are  
authorized to bid and conclude the contract in regard to this business against this specific  
invitation for bid.

We hereby extend our full guaranty and warranty as per general conditions of contract for  
the goods and services offered by the above firm against this bid.

Yours faithfully  
(Signature for and on behalf of Manufacturers)

Note:

This letter of authority should be on the letterhead of the company/firm should be  
signed by a Person competent and having the power of attorney to bind the manufacturer. It  
should be included original by the Bidders in its bid.

- The Managing Director of the Company/Firm or the Power of Attorney Holder  
having specific power to sign the contract can only sign the contract/execute the  
agreement.

**ANNEXURE-(III)**

**Financial Bid Performa**

**The Financial bid may be submitted as per the Technical Specification covering all requirements for the installation and commission of the item.**

**Name of the OEM/Business partner of OEM/Authorized Dealer:**

\_\_\_\_\_

**Name Of Product with model number :**

\_\_\_\_\_

<b>Sl No.</b>	<b>Item</b>	<b>Unit Price</b>
<b>1</b>	<b>Base Price</b>	
<b>2</b>	<b>GST</b>	
<b>3</b>	<b>Other Tax If Any</b>	
	<b>Total (1+2+3)</b>	
<b>In Rupees-</b>		

**Authorized Signature with Seal**

