

Organization Name	INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH, MUMBAI
Tender No.	IGIDR/Tender/ 2018/1
Type of Organization	DEEMED TO BE UNIVERSITY
Product Category	Hardware & Software
Tender Type	TWO BID
Tender Value	Rs.40 Lakh
Tender Fee	Rs. 1,000.00 (Separate DD to be submitted along with EMD or free if downloaded from website)
Performance Security	10 % of the value of Order
E.M.D	Rs.80,000/- (Rupees Eighty Thousand Only)
Location	MUMBAI
Pre-Bid Meeting	12 <sup>th</sup> FEBRUARY 2018 by 15:00 Hrs
Last date for Submission	19 <sup>th</sup> FEBRUARY 2018 upto 14:00 Hrs
Opening Date	19 <sup>th</sup> FEBRUARY 2018 by 14:30 Hrs
Contact	Mr. LINGARAJ PANDA
Email	lingaraj@igidr.ac.in
Phone	(022) 2841 6548
Fax	(022) 2840 2752/28416399

**Indira Gandhi Institute of Development Research**  
**An Advanced Research Institute established by the Reserve Bank of India**  
**(Deemed University)**



Telephone : 022 – 2841 6548  
FAX : 022 – 2840 2752

Address : Gen.A.K.Vaidya Marg  
Film City Road, Goregaon ( E )  
Mumbai : 400 065

Email : [lingaraj@igidr.ac.in](mailto:lingaraj@igidr.ac.in)

Website : <http://www.igidr.ac.in>

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TENDER FOR

**Supply, Installation, Testing, Commissioning and Configuration of HCI solution**

Tender No. IGIDR/Tender/ 2018/1

TENDER DOCUMENT

AT

**Indira Gandhi Institute of Development Research**  
**An Advanced Research Institute established by the Reserve Bank of India**  
**(Deemed University)**  
**Gen .A.K.Vaidya Marg, Film City Road, Mumbai : 400 065.**

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**An Advanced Research Institute established by the Reserve Bank of India**  
**(Deemed University)**  
**Gen .A.K.Vaidya Marg, Film City Road, Mumbai : 400 065.**

**Tender No.** IGIDR/Tender/ 2018/1

**Dated :** 07.02.2018

**Subject : Notice inviting tender for Supply, Installation, Testing, Commissioning and Configuration of HCI solution**

IGIDR is an advance research institute established by Reserve Bank of India . It spread across 15 Acres of land and entire campus is inter-connected with WiFi, LAN, connecting around 150 desktops and laptops. IGIDR is an academic institute and offers MSc./MPhil/PhD courses on development economics. We would like to replace our old servers with Hyper Converged Infrastructure (HCI) .

1. Sealed Tenders are hereby invited under two bid system (i.e.Technical Bid and Financial Bid), from reputed manufacturers/companies/organizations/firms and/or authorized dealers/sales partners for **Supply, Installation, Testing, Commissioning and Configuration of HCI solution** at the following location of the Institute.:

<b>Location</b>
Indira Gandhi Institute of Development Research, Gen.A.K.Vaidya Marg, Film city Road, Goregaon (East), Mumbai : 400 065.

**2. Schedule**

Last date & time for receipt of tenders: 19.02.2018 (Time: 14 00 Hrs.)

Date & time for opening of Technical Bid: 19.02.2018 (Time: 14:30 hrs.)

Date & time for opening of Financial Bid: Date & Time for opening of financial bids of technically qualified bidders will be intimated later.

Place of opening the Tenders: Indira Gandhi Institute of Development Research,  
Gen.A.K.Vaidya Marg, Film City Road, Goregaon ( E ), Mumbai : 400 065.

Validity of Tenders: 90 days from the date of opening of tender.

3. The tender documents may be downloaded from the website <http://www.igidr.ac.in/>  
The downloaded bid documents shall be submitted along with a bank Demand Draft / banker's cheque towards Earnest Money Deposit(EMD) as indicated in tender document drawn on any of the Commercial Banks payable at Mumbai failing which the bid will be rejected. Bidders should write their name and full address at the back of the Bank draft / banker's cheque submitted.
4. A)EMD of Rs.80,000 (Rs. Eighty thousand only) & B)Tender Fee of Rs.1,000/- (Rupees One Thousand Only)(if downloaded from website free of cost) both DD drawn separately in the form of account payee DD/Banker's Cheque in favour of Indira Gandhi Institute of Development Research has to be submitted along with bid documents.
5. The Institute reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document or to reject any or all tenders without assigning any reason. The decision of the Institute, in this regard shall be final and binding on all.
6. The tenders completed in all respects must reach this office by Registered or speed post or dropped in the tender box up to 1500 Hours on 19.02.2018. The tenders received after the scheduled date and time will not be accepted.

Registrar, IGIDR

Signature with date, stamp/seal of tenderer

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**GENERAL CONDITIONS OF CONTRACT**

1. The HCI solution should be appliance based and rack mountable.
2. The configuration of the HCI SOLUTION appliance derive fullest functionalities mentioned in Annexure 'A' - Technical Specifications for HCI SOLUTION
3. The HCI SOLUTION should be deployed in High availability Mode.
4. Bidder is advised to visit and examine the site, its surroundings and familiarise himself with the existing facilities and environment, and collect all other information which he may require for preparing and submitting the bid and entering into the Contract. Claims and objections due to ignorance of existing conditions or inadequacy of information will not be considered after submission of the Bid and during implementation. Contact person for Site is Mr Lingaraj Panda.
5. The Company/Agency shall be responsible for providing all materials, equipment's, and services, specified or otherwise, which are required to fulfill the intent of ensuring operability, maintainability, and reliability of the complete equipment covered under this specification within his quoted price. This work shall be in compliance with all applicable standards, statutory regulations and safety requirements in force of the date of award of this contract.
6. The bidder should have experience similar works of HCI implementation or any HCI implementation with higher capacity during the last 5 years in Government/ Private organizations.

**1. Definition of terms.**

- 1.1 IGIDR means Indira Gandhi Institute of Development Research, Mumbai.
- 1.2 The bidder /tenderer means the firm / agency who participates in this tender and submits its bid.
- 1.3 Contractor/Agency/Firm means the bidder whose bid will be accepted by IGIDR and shall include such successful bidder, its legal representatives, successors.
- 1.4 EMD shall mean Earnest Money Deposit.
- 1.5 Security Deposit shall mean monetary guarantee furnished by the successful tenderer for due performance of the contract.
- 1.6 Near relatives of all employees working in IGIDR either directly recruited or working on deputation are prohibited from participating in the tender. The near relatives for this purpose are defined as
  - a) Members of a HUF
  - b) They are husband & wife
  - c) The one is related to the other in the manner as father, mother, son & son's wife (daughter in law), daughter & daughter's husband (son-in-law), brother & brother's wife, sister & sister's husband.

## 2.0 Receipt and opening of Tenders

2.1 Tenders duly filled in will be opened on the date and time indicated in the Notice inviting tenders in presence of tenderers / their authorized representatives who wish to be present. In case of authorized representatives, they have to bring with them the letter of authority from the corresponding tenderer.

2.2 If **due** date of receipt of tenders and that of opening of tender is declared to be a holiday subsequently, the tender would be received and opened on the next working day but the time of receipt and opening will remain the same.

2.3 IGIDR reserves the right to postpone and/or extend the date of receipt/opening of tenders or to withdraw the tender notice without assigning any reason thereof. In such a case the bidders shall not be entitled to any form of compensation from the Institute.

## 3.0 Preparation of Tender

3.1 The bidders are required to submit the tender documents completed in all respects after Satisfying each and every condition laid down in the tender document.

3.2 All rates shall be written both in figures and in words. Corrections, if any are to be made by crossing out, initialing and rewriting. In case of discrepancy between the words and the figures, the rates indicated in the words shall prevail. All cutting, insertion needs to be authenticated. **No over writing / usage of correction fluid will be permitted.**

## 4.0 Submission of Tenders

4.1 NIT and DD or Banker's cheque towards Earnest Money Deposit/Tender Fee along with duly filled in Annexures with requisite enclosures should **be duly signed and stamped on each page** for having accepted the General and Special Terms and Conditions and kept in a sealed envelope (**Envelope 1**) super-scribed as '**Technical Bid**'. (Financial Bid) should **be duly signed and stamped** and kept in a sealed envelope (**Envelope 2**) super-scribed as '**Financial Bid**'.

4.2 Both the sealed envelopes i.e. Technical Bid & Financial Bid are to be placed in another big cover super-scribing the same as '**Tender for Supply, Installation, Testing, Commissioning and Configuration of HCI Solution**' addressed to Registrar, Indira Gandhi Institute of Development Research, Gen.A.K.Vaidya Marg, Film City Road, Mumbai : 400 065, Maharashtra, India.

4.3 'Financial Bid' of only those Agencies / firms who fulfill the terms & conditions as specified in Technical Bid and who have submitted and duly filled in NIT & complete in all respects along with requisite documents will be opened separately as indicated in the NIT.

4.4 The tenders should be put in a Tender box which is placed in the office premises at Office of the Registrar, Indira Gandhi Institute of Development Research, Gen.A.K.Vaidya Marg, Film City Road, Mumbai : 400 065, Maharashtra, India. or may be sent by Registered or Speed post through Dept. of Posts. However, delivery of the bid document before the stipulated time and date shall be the responsibility of the bidder.

4.5 Only tenders complete in all respects and received on or before the due date and time shall be considered.

4.6 Tenders should be submitted and signed by a duly authorized person giving full name of the firm with its current business address.

4.7 IGIDR reserves the right to reject any or all tenders without assigning any reasons whatsoever.

4.8 The tender shall be valid for a period of at least 3(three) calendar months from the date of opening of the tenders.

4.9 The bidders should satisfy themselves before submission of the tender to IGIDR that they meet the qualifying criteria and capability as laid down in the tender documents.

4.10 The bidder may modify or withdraw the bid after submission provided that the written notice of the modification or withdrawal is received by the IGIDR prior to the deadline prescribed for submission of bids.

## **5.0 Cost**

5.1 Bidders are requested to quote firm price. No cost escalation will be accepted for the rates quoted.

## **6.0 Earnest Money Deposit**

6.1 Bidders shall submit along with the tenders, Earnest Money as indicated in tender document of NIT in the form of Demand Draft / banker's cheque in favour of "INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH" payable at Mumbai. Tenders not accompanied with the DD/banker's cheque for the requisite amount of Earnest Money shall be rejected.

6.2 Earnest Money shall be forfeited in the event of any of the following situations:

- (i) if the tenderer withdraws or amends his tender or increases the rates after deadline for submission of the bid but before the validity of the quotation expires.
- (ii) on refusal to enter into contract after award of contract.
- (iii) on failure to furnish the required performance security or
- (iv) if the item is not supplied and/or the work is not commenced on the date of starting the work after work is awarded to the contractor.

6.3 No interest is payable on the Earnest Money Deposit under any circumstances and will be returned on completion of tendering process.

## **6.4 Preliminary evaluation**

6.4.1 IGIDR shall evaluate the bids to determine that they are complete, no computational errors have been made, required sureties have been furnished, the documents have been properly signed and the bids are generally in order.

6.4.2 Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between amount quoted in words and figures, the amount in words shall be taken for evaluation.

6.4.3 Prior to the detailed evaluation, the IGIDR will determine the substantial responsiveness of each bid to the bid documents. For purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bid Documents without material deviations. The IGIDR determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

6.4.4 A bid determined as substantially non-responsive will be rejected by the IGIDR and shall not be considered subsequent to the opening of bids.

6.4.5 The IGIDR may waive any minor infirmity or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

## **7.0 Security Deposit**

7.1 The contractor shall furnish performance security to IGIDR to the extent of 10% of the value of the hardware components (Server and its accessories) in the form of Bank guarantee (BG) within 15 days of award of the contract failing which necessary action including forfeiture of the Earnest Money Deposit will be taken against the contractor.

7.2 No interest is payable on the Security Deposit.

7.3 BG will be realized by IGIDR in case of termination of the contract for un-satisfactory performance and/or non-performance of the contract

**8. Tax Deduction At source:** TDS as applicable will be effected from the bills

**9. Deviation:** The contractor must comply with the tender specification and all terms and conditions of contract. No deviation and exceptions will be permitted.

**10. Award of Contract:** IGIDR shall accept the lowest bid or any Tender and reserves to itself the right to accept or reject any bid or to accept whole or a portion of tender, as it may deem fit, without assigning any reason there of and without incurring any liability to the affected bidders for the action of IGIDR.

## **13. Termination of Contract:**

13.1 In case of any default by the bidder and in case of any violation of the terms and conditions of this contract, IGIDR may without prejudice to any other right/remedy which shall have accrued or shall accrue thereafter, terminate the contract, in whole or in part, by giving 15 days' notice in writing to the Contractor. In such a case the Security Deposit paid by the contractor will be forfeited to IGIDR and the contractor is liable to be blacklisted for a period of 3 Years.

13.2 All instructions, notices and communications etc. under the contract issued in writing and if sent to the last known place of business, shall be deemed to be served on the date. Notwithstanding anything contained herein, IGIDR also reserves the right to terminate the contract at any time or stage during the period of contract, by giving 15 days notice in writing without assigning any reason and without incurring any financial liability whatsoever to the contractor.

#### **14. Arbitration:**

Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the Rules of Arbitration in Indian Arbitration and Conciliation Act 1996 and the award made in pursuance thereof shall be binding on the parties.

**15. Jurisdiction of Courts:** The courts/any other Tribunal or Forum in Mumbai alone shall have exclusive jurisdiction with regard to any matter/dispute relating to or arising out of this contract.

#### **16. Criterion for Evaluation of Tenders:**

The evaluation of the tenders will be made *first on the basis of technical information furnished in the Technical Bid* and then on the basis of commercial information furnished in Commercial Bid. The Commercial bids of only such firms found valid based on technical parameters and will be opened on a date to be communicated to bidders who have qualified in the technical bid stage. It must be kept in view that the decision given by the Tender Evaluation Committee or any inferences drawn during the meeting of this committee by the tenderers or their representatives will be their own view and the Institute will not be responsible and abide by the same. The reasons for selection or rejection of a particular tender will not be disclosed. The award of supply order will be further subject to any specific terms and conditions of the contract of this NIT. During evaluation of bids, the IGIDR may, at its discretion, ask the bidder for clarification of its bid. The request for clarification and the response shall be in writing.

#### **17. DELIVERY SCHEDULE & INSTALLATION:**

The Supply, Installation, Testing, Commissioning and Configuration of HCL solution must be made within **four weeks** from the date of issue of supply order. The supply should be effected as per specifications furnished as per technical bid **and** as per delivery schedule. The ordered HCI Solution should be supplied and installed, in IGIDR, Goregaon Mumbai.

#### **18. Payment terms:**

30% payment against delivery, 60% will be made within 30 days, after supply, installation, testing, commissioning and configuration of all material, balance 10% on submission of performance bank guarantee for warranty period

#### **19. Force Majeure:**

19.1 In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such force majeure shall be suspended for the period during which such cause lasts.

19.2 The term 'force majeure' as employed herein shall mean acts of God, war, civil riots, fire directly affecting the performance of the contract, flood and acts and regulations of the two parties, namely IGIDR and the contractor.



19.3 Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to force majeure as also the ending of the said clause by giving notice to the other party within 72 hours of the ending of the cause respectively.

19.4 Time for performance of the relative obligation suspended by force majeure shall then stand extended by the period for which such cause lasts

## **Section II**

### **Special Conditions of Contract**

IGIDR is an advance research institute established by Reserve Bank of India . It spread across 15 Acres of land and entire campus is inter-connected with WiFi, LAN, connecting around 150 desktops and laptops. IGIDR is an academic institute and offers MSc./MPhil/PhD courses on development economics. We would like to replace our old servers with Hyper Converged Infrastructure (HCI) .

#### **SCOPE OF WORK.**

Once the HCI is setup then the vendor need to configure the following .

1. Creating a Virtual server with Ubuntu Linux server as guest OS , user authentication will be from Active directory. Guest OS will be provided by IGIDR
2. Creating a Virtual Server with Windows server 2016 as guest OS , Activating Terminal service on this server. Guest OS and terminal server license will be provided by IGIDR
3. Creating a Virtual server for File share service (should support all standard protocol CIFS, SMB,HTTP etc ,user Quota ) and creating a share folder called HOME under which each users folder will be created with quota of 25 GB storage.. When users login to the above Linux server or windows server their folder/files should be available to them as their home directory in linux and Mapped networked drive under windows. Snapshot , backup/restore of Users folders/files must be available so that users can restore files from last backup/snapshot taken by the server.

Vendor can use any open source guest OS for the file server or supply the commercial version of Guest OS for the same.

## **Warranty and support:**

The warranty shall be:

On-site, comprehensive, back-to-back from Original Equipment Manufacturer (OEM) **for a period of 3 years** from the date of acceptance of the equipment. The warranty also includes all software subscriptions (critical hot fixes, service packs, and major upgrades etc). During the warranty period, the bidder shall attend to all failures relating to software installation, configuration, management and performance. During the warranty period of you will replace/repair free of cost if material found defective in coordination with OEM. The warranty would be on-site and comprehensive in nature.

**AMC** : The Bidder is expected to maintain the equipment supplied for at least three years after the expiry of warranty period. Comprehensive on-site maintenance charges, for the post warranty period, will be @10% per year. However, AMC cost will be paid annually.

Manufacturer's warranty in respect of proper design, quality and workmanship of all the systems supplied.

Replacement of failed hardware within 24hrs from the time call is lodged.

Hardware Support : Repair / replace the faulty parts etc of the equipment. The part to be replace should be Original and from OEM only.

Support Window : 24 X 7 supports

Response : 4 Hrs.

Resolution Time : 24 Hrs. or Next Business Day

Call Registration Process : Telephonic or Email.

**Technical Support:** You will provide onsite services for any technical problem in the executed work for the period of Three Year.

The Vendor shall provide a clear-cut escalation matrix to IGIDR for support.

## **Testing:**

### **(i) System Functional Tests:**

These tests shall rigorously exercise all functions and devices, both individually and collectively, and shall verify the correct functional operation of all hardware and software.

These tests shall as a minimum include the following system tests:

- Automatic Switchover of VMs in case of node failure.
- Verification of all user interfaces
- Verification of model maintenance capabilities
- Verification that the open system standards and design guidelines required by the Work Statement have been met.

**(ii) System Performance Tests:**

- These tests shall verify that the specified performance requirements are met for the system under test.
  - Simulation shall be provided by the Supplier, if necessary, to create the operating conditions for the different scenarios.
- Completion of the system performance tests shall require successfully performing the specified performance tests and resolution, to IGIDR's satisfaction, of all non-conformance's discovered during the tests.

**Packing:** The material shall be packed suitably for Rail/Road worthy packing as per standard practice.

No extra charges for transportation, T&P, labour, packing, insurance, excise, material etc. will be paid, it will be arranged by you only.

**Training:** Training shall be provided to IGIDR personnel for all feature of HCI SOLUTION.

**Terms of payments:** 30% payment against delivery, 60% will be made within 30 days, after supply, installation, testing, commissioning and configuration of all material, balance 10% on submission of bank guarantee for warranty period.

Bids must be in two parts, I.e. Part-I (Technical) and Part-II (Commercial Bid).

**1. Technical bid**

Firm should be a registered company under the Indian Companies Act and authorized sales partner of OEM.

**Under Technical bid, the bidder should attach the following documents:-**

1. Name of the firm, Address and Telephone Number :
2. Name of the Contact Person, Telephone/ Mobile / Email :
3. Name of the bank (With full address Type of account, Account Number, IFSC Code & RTGS Details)
4. Certificate of Incorporation. (Copy to be enclosed)
5. PAN /GST registration certificate. (Copy to be enclosed)
6. **Manufacturer's Authorisation Certificate(MAF):** Authorisation letter from OEM that OEM will supply the hardware through the Bidder. Authorisation letter(MAF) should be in original and from OEM directly.
7. Audited annual accounts including balance sheets and other financial statements for **Last three Financial Years .**
8. The vendor should have experience similar works of HCI implementation or any HCI implementation with higher capacity during the last 5 years in Government/ Private organizations. (**Provide client list with work order**).
9. Particulars of DD towards EMD Rs 80,000
10. The tenderer should also mention in the tender the list of their service centers, nearest location of their principal's support centre and details of customer support establishment.

Annexure- A

Technical Specification

(i) Technical Specification for HCI SOLUTION : (Cisco Hyperflex, Nutanix, DELL Emc VXL, HP SimpliVity

Note: Please Specify Make and Model of offered HCI SOLUTION and attach Datasheet

SrNo	Description	Complied ( yes/No)	Deviations / Alternate
1	The solution must provide hyper-converged software that allows delivery of enterprise-class storage services using latest x86 server infrastructures without dependence on a separate Storage Area Network & associated components such as SAN Switches & HBAs.		
2	Proposed solution must support leading hypervisors listed in the latest Gartner's Magic Quadrant for Virtualization Infrastructure.		
3	The solution should support both hybrid and all flash node models.		
4	The proposed HCI solution should have built-in self-service cloud capability that allows customers to define quotas and create template and cataloguing as needed. Software licenses if required for this functionality should be licensed from day one.		
5	The solution should provide resource reclamation functionality which identifies and reclaims inactive and abandoned resources by automating the decommissioning and reuse of retired resources. It should also provide reclamation savings reports which would enable organizations to quantify its cost savings.		
6	The solution shall provide automated provisioning of infrastructure, applications and custom services through a unified, web-based, multi-tenant self-service IT service catalog.		
7	The solution should be able to automate and provision datacentre services such as compute, storage, networking, backup, replication, load balancing, security, firewall, etc.		
8	The solution shall provide an orchestration engine with ready workflows and ability to create custom workflows based on SOAP, REST operations and PowerShell scripts		
9	The proposed HCI Solution must provide a single platform for running VMs, Block Services for a bare metal workload and File Services. These services should be natively available in the platform without use of any third party tools. This function must be enabled in the proposed solution from day 1.		
10	Top of Rack (ToR) switches must be from the proposed HCI manufacturer only. In case the HCI OEM does not have a TOR solution, same should be offered from the leading technologies available on market.		
11	The solution should able to support different generation of Intel processors and appliance models in the same cluster for investment protection over the life of the proposed solution. The vendor should list types of models i.e. AFA, Storage nodes, Mixed use nodes that they may have within the HCI family and certify by way of response to this RFP the ability to mix and match models and generations of the appliance.		
12	The solution should provide a single unified management console for the management of the entire environment including virtualized environment as well as software defined storage environment, underlying Hardware and associated components		

13	Remote management features, Appliance management software capable of providing role-based security, alerts of critical component failure along with power monitoring. The solution must support migration of Virtual machines across multiple disaster recovery sites, so that key virtual machines can be recovered in times of disaster. All software licenses for enabling the above must be part of overall solution.		
14	Allow addition or replacement of future components. Allow for maintenance with zero downtime. Allow Load Balancing of resources.		
15	Proposed HCI solution should be 100% software defined without dependency on any proprietary hardware device. Hyper-converged solution must have De-duplication and Compression features licensed and implemented from day one.		
16	Does the solution has the ability to enable / disable compression & de-duplication for specific applications that the company feels are not suitable for compression / de-dupe.		
17	The solution should support zero data loss in case of disk, host, node or network failure. The solution should support tuneable redundancies supporting multiple node or cluster failures. These features should be licensed from day one, if separate licenses are required.		
18	<b>Hyper-Converged Appliance should have minimum 72 cores of CPU, Minimum 1024 GB of memory (RAM), minimum of 20 TB storage usable without de-dup/compression (minimum 1 * 1.6TB SSD for data tiering and caching per server node) . Latest Intel CPU (minimum 2 CPU per node) should be proposed by the Bidder. If there is any overhead on CPU \ Storage \ Memory then OEM will size accordingly to meet the minimum requirement as per the RFP. Each Node must be installed with minimum 256 GB RAM with DDR4 Module@ 2400 GHz or Higher. The above HCI resources should be available with single node failure(compute &amp; storage).</b>		
19	The solution must provide de-duplication & compression (configurable as Inline or Post-Process) across All-Flash as well as hybrid (HDD & SSD combination) nodes. <b>The compression / de-dupe features should be enabled by default.</b> If De-dupe & Compression is not available, the vendor must quote 150% additional storage capacity. These features should be licensed from day one, even if separate licenses are required apart from the HCI and virtualisation stack.		
20	Capable of separate Compute and Storage Clusters with multi-cluster management for design flexibility. In future there should be flexibility to add additional storage capacity, and should be able to add storage intensive nodes in same cluster. Such adding of nodes should not result in additional hypervisor cost		
21	The solution shall provide scale-up (by adding SSD/disks) and scale-out (by adding nodes) architecture with no disruption to the workloads already running on the platform. The server nodes should have 50% storage space free for future scalability.		
22	There should be a single support channel OEM/Vendor for the entire solution stack of Hardware, Software and Hypervisor.		
23	At completion of project provide knowledge transfer, and Web based Knowledge Base		
24	Must be capable of transferring data to 10GB connected servers.		
25	Training should be available to IT staff for Management and Administration of the proposed system.		
26	Bidder is expected to quote for virtualisation software / licenses for hypervisors, centralized management tool, etc. for all the nodes in proposed HCI system.		

27	It should provide a networking & security virtualization layer that allows faithful delivery of network services in software without dependence on specific make/model of networking devices/appliances.		
28	The solution shall provide support for heterogeneous guest Operating systems such as Windows (Desktop & Server OS) and Linux (at least Red Hat, SUSE, Ubuntu and CentOS)		
29	All the components of HCI such as compute nodes, network switches, hypervisor OS, storage disks, management software should be factory installed and shipped ready for fast deployment.		
30	The HCI solution must support scaling hyperconverged node(compute+storage), compute-only or storage-only(HDDs) independent of each other under a single cluster.		
31	Single Web Interface Central Management for compute, Network, Storage and Clustering with high availability . The Solution should be able to give insight of underlying infrastructure like compute,storage and network. If the management system runs as a virtual machine , then all hardware and software licenses to enable this should be included .		
32	Single dashboard to manage and provision virtual machines, network, storage, monitor performance and manage events & alerts.		

**Provide a brief description about the product being offered and solution diagrams:**

a. List of technologies involved (HCI, Cloud & SDN)
b. Make / Model and Version of each product / technology
c. Type of License / features enabled (e.g. Standard / Enterprise / etc.)
Describe what the product generally does, the major components of the proposed product and the major data flows and architecture overview. Technical document explaining the proposed architecture and various components of the product must be attached separately.
Discuss the operational scalability of your product.
Discuss High-Availability, Failover and DR functionality in case of various scenarios like failure of 1) Disk, Node, Block, etc.
Discuss about overall performance of the HCI system in terms of various aspects like IOPs, latency, network performance etc.
What is your product release schedule?
Describe the functionality and technology roadmap
What is the maturity of the technologies involved in the solution?
Describe lead time and duration to complete a standard installation of your solution.
Does your solution include any on-site spare parts for common failures?
Describe your policy around firmware upgrades as they relate to both application (of firmware) and supportability.
Describe your policy around patching / fixing security vulnerabilities that are found and reported by your customers.
Share the references of at least two Customers where similar solution has been successfully implemented.
Company Name & Contact Details:
Since how long is the system running in production environment:

## **2. Commercial Bid**

This should contain only price bid of the bidder.

### **Bidder has to fill in the rate he desires to quote as per the requirement**

- 1.** The price should be in INR and shall be written both in figures & words in the prescribed offer format (annexure “B”).
- 2.** Incomplete and/or conditional bids shall be liable to rejection.
- 3.** Any variation arises between the unit rate and the corresponding quoted total cost then the unit rate will prevail for calculating the total cost.
- 4.** If there is a discrepancy between amount in words and figures, the amount in words will prevail.
  
- 5.** The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

The firm should clearly mention for any taxes, duties, levies, freight, forwarding and installation in **annexure “B”**. Otherwise the rates quoted by the firm shall be considered inclusive of all taxes.

### **Annexure- B**

#### **Bill of Materials for Financial bid**

**(The solution price is included with 3 years onsite support & warranty)**

<b>Sr. No</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit Rate</b>	<b>Total Rate</b>	<b>Taxes</b>	<b>Total Price (inclusive of all taxes, duties, freight etc)</b>
1	HCI SOLUTION <b>Nodes</b> Technical Specification <b>as per</b> Annexure-A					
2	Licensing & software if any					
3	10 G 24 port Switches	2				
4	Implementation cost					
	<b>GRAND TOTAL</b>					

**Total price in Words:**

5	AMC for 3 years @10% per year.	
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