

**REQUEST FOR INFORMATION FOR
IMPLEMENTATION OF PRIVATE CLOUD INFRASTRUCTURE ON INTEL BASED SETUP**

**Stock Holding Corporation of India Limited
(StockHolding)**



**RFI Reference Number: IT-R-01/2020-21
Date: 02-FEB-2021**

**Request for Information (RFI)
For
Implementation of on-Prem Private Cloud Infrastructure on Intel based setup**

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IMPLEMENTATION OF PRIVATE CLOUD INFRASTRUCTURE ON INTEL BASED SETUP**

DISCLAIMER

The information contained in this Request for Information (RFI) document or information provided subsequently to OEM's whether verbally or in documentary form by or on behalf of Stock Holding Corporation of India Limited (*StockHolding*), is provided to the OEM's on the terms and conditions set out in this RFI document and all other terms and conditions subject to which such information is provided.

This RFI document is not an agreement and is not an offer or invitation by *StockHolding* to any parties other than the applicants who are qualified to submit the responses (OEM's). The purpose of this RFI is to provide the OEM(s) with the information to assist the formulation of their proposals. This RFI does not claim to contain all the information each OEM may require. Each OEM should conduct its own investigations and analysis and should check the accuracy, reliability, and completeness of the information in this RFI and where necessary obtain independent advice. *StockHolding* makes no representation or warranty and shall incur no liability under any law, statute, rules, or regulations as to the accuracy, reliability, or completeness of this RFI. *StockHolding* may in its absolute discretion, but without being under any obligation to do so, update, amend, or supplement the information in this RFI.

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RFI Document Details

Name of Organization	Stock Holding Corporation of India Limited
RFI Reference No.	IT-R-01/2020-21
Requirement	Request for Information for Implementation of On-Prem Private Cloud Infrastructure on Intel based setup
Date of issue of RFI document	02-FEB-2021
Queries related to RFI (online meeting)	09-FEB-2021, 11:00 A.M. onwards Details will be shared on StockHolding portal (https://corporate.stockholding.com/notices.html)
Date of Submission of technical RFI responses via email	From 16-FEB-2021 23:30 hrs. IST.
Date of Technical presentation on RFI responses	FROM 17-FEB-2021 to 24-FEB-2021
Email Address	shcilcloud@stockholding.com
This bid document is not transferable	

INTRODUCTION

StockHolding invites responses against this Request for Information (RFI) from established, reputed and reliable OEM's having professional expertise and experience of setting up an Enterprise-grade on-premise private cloud at its Datacenters.

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BACKGROUND

StockHolding is incorporated as a Public Limited Company and is a subsidiary of IFCI Limited.

1. StockHolding intends to procure, implement, manage and maintain (with full OEM support) an end to end On-premise Private cloud solution, enabling StockHolding to provide infrastructure, storage, and compute resources to different upcoming projects which includes but is not limited to any specific component of a full Hardware/Software stack. The cloud solution should primarily be able to cater to the need of provisioning virtual compute resources for its various upcoming project.
2. The Private cloud solution should be scalable, interoperable, having elasticity & on-demand capabilities for computing and data. There should be comprehensive user management (administrative and access control) mechanism to ensure security and privacy in the intended on-premise private cloud architecture.
3. The solution should have strong built-in, security features, as well as resource capacity monitoring and management features to provision for all the applications deployed on the private cloud as per needs.
4. By participating in this RFI process OEMs confirms that they agree with all the Terms and Conditions of this RFI.

SCOPE OF WORK

The overall scope of work of the OEM's would be as follows:

Provide an end-to-end hardware and software solution to implement an On-Premise Private Cloud Infrastructure encompassing the following: Design, Supply, install, commission, and integrate with existing infrastructure, maintain, manage, secure and support the deployment.

This involves conceptualization, developing a detailed solution, implementation road map, estimates of sizing of each component including hardware, networking, software, etc. at both DC and DR. This should also include Suitable business continuity and disaster recovery plan to ensure continuity of operations.

The activities may include but not limited to the following:

- a. **Cloud Infrastructure:** It is envisaged that the basic configuration of Cloud Architecture should be based on convenient on-demand access to a shared pool of configurable computing resources that can be provisioned and made available with minimal administrative effort and downtime. The proposed solution should also have comprehensive resource capacity usage, monitoring, and control capabilities to enable on-demand allocation and de-allocation of all compute resources.
The solution should be capable of enabling automatic Scale-in and Scale-out should be agnostic to the underlying hardware, storage, network, and operating system and shall allow StockHolding to add/reduce cloud resources on-demand basis through a user-friendly dashboard. The solution needs to provide the ability for

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System Administrators to automatically provision the services via a robust cloud management tool. It should be compatible with the Intel x86 platform with a virtualization layer having the capability of provisioning and managing resources supporting Windows server 2012 and above, all Linux variants, OS compatibility exceptions, if any, should be specified by OEM. The tentative sizing requirement is as follows (as per a consolidated bare metal provisioning):

Storage: 40TB usable

Disk speeds: 10k RPM or better SAS or SSD (server class) or both

Processor class: Intel Xeon processor E5-2600 V2

Number of processor cores: 500 scalable to 2000

Memory: proportionate to processor cores

Raid compatibility: 10/5, 6

Node network connectivity: High Speed 1/10 Gbps

FC connectivity to external additional storage: desirable

Virtual nodes: min 100 scalable to 300

HA: Yes, Failover: Automatic

- b. **Business Continuity and Disaster Recovery:** The solution should be architected to run from a primary data centre. In the event of a primary data centre failure, The DR Data centre should be able to sustain all functionality. Data replication from Primary DR should be part of the proposed solution.
- c. **Network and Security** Proposed vendor may review the StockHolding network and Security infrastructure and suggest additional requirements if any or propose required Network infrastructure as part of the proposed solution. It should support the configuration of multiple LAN/DMZ VLAN segments, high speed 1/10 Gbps network interfaces.
- d. **MIS Reports:** The end-to-end solution should also include comprehensive monitoring tools for measuring the service levels, performance, and resource utilization, both physical as well as virtual. The tool should be capable of generating periodic utilization reports, troubleshooting related reports, etc.
- e. **Standards:** Compliance process for maintaining operations of cloud and ensuring the privacy of data, should be compliant with the defined international standards and security guidelines such as ISO 27001/ NIST Framework. They must comply with all regulatory guidelines from StockHolding regulator namely SEBI,RBI,PFRDA and IRDA and Self-Regulatory organization such as NSE,BSE,CDSL NSDL with regards to private cloud, cybersecurity, data security data privacy etc.

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ELIGIBILITY CRITERIA

This process is open to all OEM's who fulfil the eligibility criteria as set out below. The OEM's should furnish documentary evidence supporting the information provided by them as part of the RFI process. RFI not satisfying the eligibility criteria will be rejected.

SN	Criteria	Supporting Documents to be submitted
1	The OEM's should be registered as a company in India as per Company Act 1956/2013 or a partnership firm registered under LLP act,2008 Should have an operation for a period of at least 5 years as on date of RFI.	Letter of undertaking to this effect on company's letterhead signed by company's authorized signatory
2	The OEM's should have a minimum average turnover of Rs.100 Crores for the last 3 audited Financial Years (2017-18, 2018-19, 2019-20) with profit in the last three financial years.	Copy of the audit Annual Reports and /or certificate of the Chartered Accountant
3	OEM's should have successfully implemented and deployed 5 on premise Private Cloud with its operational management preferably in a Banking /Financial Institution	Self-declaration with address and contact details on company's letter head signed by the company's authorized signatory

RFI SUBMISSION PROCESS

- Raising of queries/clarifications on Request for RFI document:** The OEM's requiring any clarification on this document should submit their written queries to email id: shcilcloud@stockholding.com. Any suggestions/feedback may also be sent to the above email id.
- An addendum/corrigendum will be uploaded to StockHolding's website.
- OEM are advised to study the RFI Document carefully. Cloud RFIs not complying with all the given clauses in this RFI document is liable to be rejected. Failure to furnish all information required in the RFI Document or submission of an RFI not substantially responsive to the RFI document in all respects will be at the OEM's risk and may result in the rejection of the RFI.

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4. RFI as per the format provided in Annexure-II and details as per the format provided in Annexure I, Annexure III, and Annexure IV, Technical presentation in the soft copy should be submitted along with necessary documents should be mailed to shcilcloud@stockholding.com in maximum 9MB file sizes.
5. The OEM's shall fulfil all statutory requirements as described by the law and Government notices. The OEM shall be solely responsible for any failure to fulfil the statutory obligations and shall indemnify StockHolding against all such liabilities, which are likely to arise out of the agency's failure to fulfil such statutory obligations
6. The OEM's references should contain five on premise private cloud deployment projects, along with the requested details. If the project information submitted by the OEMs is not relevant or is incomplete, StockHolding may not consider it as valid experience and the decision of StockHolding in this regard will be final.

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Annexure – I (Eligibility criteria)

Implementation of StockHolding Private Cloud Infrastructure:

SN	Criteria	Compliance (Y/N)	OEM response
1	The OEM should be registered as a company in India as per Company Act 1956/2013 or a partnership firm registered under LLP act, 2008 Should have an operation for a period of at least 5 years as on date of RFI.		
2	The OEM should have a minimum average turnover of Rs.100 Crores for the last 3 audited Financial Years (2017-18, 2018-19, 2019-20) with profit in the last three financial years.		
3	OEM should have successfully implemented and deployed 5 on premise Private Cloud with its operational management preferably in a Regulatory body or a Banking /Financial Institution		

Authorized Signatory:

Name of the Authorized Signatory:

Place:

Date:

Seal:



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Annexure-II – (RFI Submission FORM)

(To be submitted on the letterhead of the Company)

Date: _____

To,
Stock Holding Corporation of India Limited
SHCIL House, Plot No. P-51, T.T.C. Industrial Area,
M.I.D.C., Mahape, Kalyan-Shil Road,
Navi Mumbai,- 400710.

Dear Sir,

Subject: Submission of the RFI - Implementation of StockHolding Private Cloud Infrastructure

We, the undersigned, offer to provide services for Private Cloud implementation and its operational management System to StockHolding in accordance with your Request for Information (RFI) – Implementation of **StockHolding Private Cloud Infrastructure** dated _____. We are hereby submitting RFI.

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

We agree to abide by all the terms and conditions of the RFI document. We understand that 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: _____

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Annexure III (OEM Information Details)

Sr. No.	Items	OEM Response
1	Basic Information	
	a) i. Name of the organization ii. Name of the contact person	
	b) Registered office Address	
	c) Phone no. of the contact person	
	d) Email address of the contact person	
	e) Web site if any, of the organization	
	f) Year of commencement of business	
	g) PAN no.	
	h) Service tax registration No. / GST No.	
2	Number of key Professionals in the organization relevant to Cloud implementation (Cloud Architect, Network consultant, Server consultant, etc.)	
3	Net profits during past three financial years	
	Net Profit (In Crores):	
	For 2017-18	
	For 2018-19	
	For 2019-20	
4	Annual turnover of the OEM (in Crores) in each of the last 3 financial years	
	For 2017-18	
	For 2018-19	
	For 2019-20	

Authorized Signatory:

Name of the Authorized Signatory:

Place:

Date:

Seal:

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Annexure-IV- Technical Bid

OEM's past experience and project details in Private Cloud implementation and operational management

(One sheet for each Project should be submitted)

Details of projects undertaken in financial institution/ Banking (Attach Copy of Purchase orders/ any documentary evidence)

Project no. 1...

Sr. No	Items	Mandatory (Y/N)	OEM Response
1	Client name	Y	
2	Location of the client along with contact person, contact no, and email id	Y	
3	a. Date of Purchase Order received for the project b. Date of Commencement of Contract: c. Date of Implementation of the project : d. Status of the Project (whether Implementation/Warranty/Annual Maintenance Contract etc.) :	Y	
4	Nature of project for the Clients (Please list the activities handled by the OEM)	Y	
5	Details about the solution implemented (Cloud Management Platform, Cloud Tools and Applications, Physical Infrastructure including Storage, Back up and Architecture, Network and Cloud Security, Business Continuity and Disaster Recovery Approach).	Y	
6	Team Size	Y	
7	Name of the Technical Architect/Designer/Expert	Y	
8	Contract Amount (in Rupees Crores)	N	
9	Any other relevant information including reason for delay if any	N	

Note: The OEM should give the above information in the above format only.

Name of the Authorized Signatory:

Place:

Date:

Seal:

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Annexure V- Checklist

Check list of enclosure:		
1	All supporting documents required in SECTION IV OEM/ Eligibility Criteria	YES/NO
2	Annexure-I attached	YES/NO
3	Annexure-II attached	YES/NO
4	Annexure-III attached	YES/NO
5	Annexure-IV attached	YES/NO
6	Any other (Please Specify)	YES/NO
7	Budget Estimate	YES/NO