

भारत सरकार
अंतरिक्ष विभाग (अं.वि.)

क्रय एवं भंडार



GOVERNMENT OF INDIA
DEPARTMENT OF SPACE (DOS)
INDIAN INSTITUTE OF REMOTE SENSING
DEHRADUN

IIRS

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e-mail :PNS@IIRS.GOV.IN

निविदा आमंत्रण
INVITATION TO TENDER

मैसर्स
M/s

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हमारी संदर्भ सं

Our Ref. No. GIRS 2019-000078-01

निविदा अंतिम तिथि

Tender Due at 14:00 hrs IST on 05/09/2019

महोदय

Dear Sirs,

कृपया निम्नलिखित मदों की आपूर्ति के लिए अनुलग्नक (फार्म सं. संलग्न) में उल्लिखित निबंधन एवं शर्तों के अनुसार संलग्न निविदा प्रपत्र में वर्णनात्मक सूचीपत्र/पैम्फलेट/साहित्य सहित हमारी संदर्भ सं. एवं अंतिम तिथि (मोटे अक्षरों में) ऊपर लिखते हुए अपनी मुहरबंद निविदा प्रस्तुत करें।

Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues /pamphlets /literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No. null)

क्र.सं. Sl. No.	विनिर्देशों सहित मद का विवरण Description of items with Specifications	इकाई Unit	मात्रा Quantity
1	Hyper Convergent Infrastructure(HCI) based solution.4 node HCI solution for VM with storage,virtualization software,server security & server log maintenance & 3 year hardware & software & service support.Specifications & compliance as per Annexure 1.	Job	1

सुपुर्दगी स्थल

Delivery At IIRS, DEHRADUN

प्रेषण की विधि

Mode of Despatch DOOR DLVRY

शुल्क छूट

Duty Exemptions

विशेष अनुदेश

Special Instructions NIL

विशेष निबंधन

Specific Terms

निविदाकारों को अनुदेश

Instructions to Tenderers

(1) Optional: Post warranty support cost for 4 years.

KALPANA R

PURS. & STORES OFFICER

भारत के राष्ट्रपति के लिए एवं ओर से
For and on behalf of the President of India

क्रेता / The Purchaser

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Annexure-1

Technical Specifications			
S.No.	Minimum Technical Specifications	Compliance Yes/No	Deviations/Remarks
1.	The solution shall 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 component such as SAN Switches & HBAs with minimum 4 Nodes, total Memory 768 GB and expandable to 1TB.		
2.	<p>Per Node Requirement</p> <p>I. CPU Per Node is 2</p> <p>II. Network Connection Needed</p> <p>2x 10GbBase-T,</p> <p>4x 1Gb</p> <p>III. Memory – Minimum 192 GB</p>		
3.	<p>Storage Requirement</p> <p>a) Minimum installed total Storage with 56TB (raw) and it should have provision to expand the usable storage to 48TB.</p> <p>b) IOPS requirement: 16000-25000 IOPS at 70:30 Read: Write ratio on 4/8K block size not exceeding 5 ms latency or better Inclusive of Hypervisor, VM Management Software.</p> <p>c) The vendor may choose to provide 100% SSD/Flash, but no less than 15% of the storage can be SSD/Flash. The vendor must demonstrate required IOPS under all conditions during UAT. The platform should have capability to leverage SSD for required IOP achievement.</p> <p>d) Max of 15% of raw be used for Solution software. Remaining 85% of storage be available and should be equally distributed across nodes.</p>		
4.	<p>Processor Details for Each Node</p> <p>i. Latest Processor Family (Should be of min. 10 Cores) but not older than Silver 4114</p> <p>ii. Minimum Processor Base Frequency \geq 2.2 Ghz</p> <p>iii. Minimum Number of Total Cores Required 80</p> <p>iv. Minimum Number of Threads 32</p>		

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	<p>v. Cache >= 12 MB L3 or more</p> <p>Note: The Processor Should Support vPro Technology, Intel Virtualization Technology (VT-x) and Virtualization Technology for Directed I/O (VT-d).</p>		
5.	<p>Memory Details for Each Node</p> <p>i. Total Memory Required 768 GB minimum and expandable to 1TB</p> <p>ii. Memory Types DDR4- 2133 and above</p>		
6.	<p>Supported Hypervisor: The proposed solution should be hypervisor and version agnostic and should support an open source (e.g., KVM) and a proprietary hypervisors (e.g., VMware, ESXi Microsoft Hyper-V). The vendor must demonstrate required functionalities of both during UAT. The exact name and make of proposed Virtualization software for both open source and proprietary must be mentioned in BOM.</p>		
7.	<p>Virtualization Software Management</p> <p>a) It must include virtualization software to manage complete cluster as Single solution similar to software defined data centers (SDDC)</p> <p>b) The solution should be able to provide snapshots of data and application. it should have synchronization feature option for DR</p> <p>c) Health monitoring and alerts in the form of Email/SMS should be available.</p> <p>d) It should be bundled with cluster management. Provisioning, preemptive maintenance alerts based on usage and hardware availability.</p> <p>e) The cluster should support graceful degradation in case of node failure.</p> <p>f) The allocation of resource in case of failure should be automated without manual intervention.</p>		
8.	<p>Server Security and Log Maintainace</p> <p>a) Minimum 10 server security licenses for window/Linux to be provided.</p> <p>b) The server security licenses must include anti ransomware capability, server lockdown, antivirus.</p> <p>c) The licenses must support server logs solution to provide the events logs of minimum 10 virtualized servers.</p>		
9.	<p>Architecture:</p> <p>1. The proposed HCI solution should be 100% software defined Compression or De-duplication.</p>		

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	<p>2. The proposed solution independently scale storage and compute as and when needed without any downtime.</p> <p>3. The solutions should support storage expansion without any virtualization license implication for storage expansion.</p> <p>4. Workload should be running from SSD or hybrid drives only.</p> <p>5. The solution should be scalable without any degradation in performance.</p>		
10.	<p>Management:</p> <p>1. The HCI Platform must provide management through a web based console. Must provide storage, compute & hypervisor metrics (on per VM level) . health and monitoring of entire platform.</p> <p>2. Platform should support I.DAP / Active Directory integration.</p> <p>3. The Platform must support monitoring via SNMP and email alerting via email and sms gateway. SMS gateway will be provided by the IIRS</p>		
11.	<p>Caching Management: Distributed caching of all virtual machine data providing local read access to vDisk or equivalent (the methodology should help maintain the local copy of data in case of multiple host reading in network congestion) in multi reader situation. This feature must not require any manual configuration and provided natively at storage level</p>		
12.	<p>Upgrades: The proposed solution should provide seamless upgrade for Firmware, Hypervisor, Storage OS, BIOS and other such functions which are required in the HCI platform. The upgrade should be online and automated.</p>		
13.	<p>Access: The Solution should support industry protocol NFS for Linux, windows OS SMB/CIFS/ISCSI. the proposed solution should support native file services/ file services over NFS, CIFS and SMB and file replication across cluster and data centers.</p>		
14.	<p>User Storage Optimization:</p> <p>1. The solution should provide enterprise data service such as deduplication and compression with ensure coding or optimize storage methodology (methodology that can run on all tiers not compelling to buy all flash, so that cluster can allowed mixing of all flash and hybrid in the cluster with optimized cost) completely in software without dependence on any proprietary hardware.</p> <p>2. This should be delivered in hybrid and or all flash appliances and in the same cluster.</p> <p>All these functionality should be part for the proposed solution with license.</p>		

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15.	VM Management: The solution shall have min 20 VM's orchestration and automation license built into the complete cost of the solution.		
16.	VM Management : 1. Solution shall be supplied with license and capability of managing VM life cycle policy based firewall rules for the east west traffic across VM through one management console without third party software for management. 2. The solution should support application-centric protection from networks threats and automation of common network operations.		

SI/OEM Requirement		
S.No.		Compliance Yes/No
1.	SI/OEM should provide the tender specific authorization from OEM	
2.	SI/OEM should have registered office with support office with in Dehradun to provide the support service within 4 hour at IIRS. Dehradun	
3.	SI/OEM should have minimum existence of 5 years and should have executed minimum 4 government order within last five years. Proof needs to be submitted with the tender document. The proof can be in the form of executed order or customer certificate.	
4.	SI/OEM should not be blacklisted in any government offices an affidavit needs to be submitted. The support shall include 24x7x365 infrastructure maintenance and support for all hardware and software components of the proposed solution, including updates and patches as well as technical support available via telephone, email, and web during all hours (24 hours per day, 365 days per year) for the period of standard warranty of three years.	
5.	Under taking by OEM for the support of solution without additional cost during warranty period of 3 years.	
6.	Under taking by OEM for the support of solution post warranty period of 3 years irrespective of SI.	
7.	Estimated cost for the post warranty and service support for whole solution should be provided.	

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8.	Detail Technical Bill of Material needs to be submitted as per Annexure 2	
9.	Site preparation guide, i.e., requirement of space, power, AC etc., should be provided with quotation.	
10.	The proposal must include a detailed datasheet for every single IT component included in your proposal and the necessary technical whitepapers discussing the features, performance and optimization techniques	
11.	Under taking by OEM for the support of solution post warranty period of 4 years irrespective of SI.	
12.	Training : Before implementing the solution, an administrative training about the platform and operation should be given at a IIRS Dehradun for 2-4 personnel from bidder.	

General Terms and Conditions

S.No.	Details
1.	During warranty period, the vendor should do preventive maintenance once in every month. Any calls related to hardware/software failure service/repair/maintenance should be attended to within 3 hours.
2.	OEM Hardware used for the solution must be certified by software OEM. The spare part of hardware must be available across India from different suppliers.
3.	The complete solution must be integrated with the existing WAF, Firewall solution of IIRS.
4.	Server Hardening at OS and hardware Level as per the requirement
5.	The service engineer for security & maintenance shall visit weekly to ensure preventive maintenance to in order to provide secured environment for the application with 24x7 running.
6.	If the price is quoted in USD then the conversion rate will be applicable at the time of commercial bid opening
7.	Commercial bid is applicable only to technically qualified vendors
8.	Technical bid has to be submitted with build of material and commercial bid in close envelope separately
9.	Duties & Levies for Foreign supply: a) IIRS is providing concession certificate towards the of payment of Customs Duty vide as per the Customs Notification No. 50/2017, Sl. No. 539(b)-CUSTOMS Dated 30.06.2017 & Amendment No: 5/2018, Sl. No. 539(a) CUSTOMS Dated: 25/01/2018. b) GST is not applicable for imported items
10.	The cost must be inclusive to delivery at IIRS.
11.	3 Years OEM comprehensive Onsite Warranty and support for both hardware and software. This will start from the day of acceptance. The following penalties will be imposed in case of non-operationalization of the any part of the system:

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	Disruption duration	Penalty	
	<1 business day	0%	
	2-5 business days	5%	
	Any further disruption	5% for each 5 business day of part thereof	
12.	Proposed Solution should have minimum 7 years EOSIF:OL from the date of UAT. A certificates needs to be submitted. cosigned by SI and OEM. The annual cost (for 4 years post 3 year warranty period) of license of all software (hypervisor, VM management software, antivirus etc.) and support (NBD) must be enclosed in the price bid as separate item.		
13.	Pay orders and user satisfaction letters for last 2. installation, test and commissioning of similar systems to be provided.		
14.	Payment Terms for Indigenous Orders: 100% payment shall be made within 30 days after receipt (including installation & commissioning) and acceptance test at our site for hardware component. For support case the payment will be made on quarterly basis after service satisfaction support. Payment Terms for Foreign Orders: Payment term shall be Sight Draft OR 90% by Irrevocable Letter of Credit and balance 10% by wire transfer after receipt (including installation & commissioning) and acceptance of the ordered item.		
15.	Warranty: Warranty for the offered item shall be from the date of installation/acceptance of the item standard onsite warranty for a period of Three year.		

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Annexure-2

Price Bid Form

Serial No.	Item	Description	Quantity	Unit Price (INR)	Total Price (INR)
1. Hardware Items					
1	HCI Node		4		
2	Connectors		As needed		
2. Software Items					
1	Server security licenses		20		
2	VM Licenses bundle		20		
3	Hypervisor Licenses bundle		4		
4	Redhat Linux OS bundle		20		
3. Services					
1	Implementation & Support	Implementation & Support for 3 Years	1		
2	Post Warranty Support	Post Warranty Support of additional 4 years	1		
4. Any other Item					

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NO. GIRS 2019000078-01

1. This is a two-part tender viz., Techno-Commercial Bid (consisting of Technical Specifications, Commercial terms & conditions etc.) and Price Bid. Hence, quotation should be submitted in separate sealed covers super-scribing "Tender No. GIRS 2019000078-01, Due on 05/09/2019 at 14:00 Hrs. (Techno-Commercial Bid)" and "Tender No. GIRS 2019000078-01, Due on 05/09/2019 at 14:00 Hrs. (Price Bid)".
2. Both the sealed tenders (Techno commercial & Price bid) should be kept in one big cover super scribing Tender for Hyper Convergent Infrastructure (HCI) based solution. 4 node HCI solution for VM with storage, virtualization software, server security & server log maintenance & 3-year hardware & software & service support against Enquiry No. GIRS 2019000078-01, Due on 05/09/2019 at 14:00 Hrs and put in the Tender box available at Security gate IIRS, or send by post or courier within the due date & time prescribed.
3. The Techno Commercial Bid should clearly indicate the technical details, scope of supply, payment terms, delivery terms, delivery period, taxes and duties, warranty, guarantee, security deposit, performance bank guarantee etc. under separate heads. Please note that the price should NOT be indicated in the Techno-Commercial Bid.
4. Tender forms can be purchased from Purchase & Stores Section, IIRS Dehradun on all working days on payment of Rs. 560/- in the form DD drawn in favor of Pay & Account Officer, IIRS Dehradun payable at Dehradun or can be downloaded from www.iirs.gov.in. When tender forms are downloaded, DD for Rs. 560/- drawn in favor of Pay & Account Officer, IIRS Dehradun shall be attached with Technical Bid.
5. Only Techno-Commercial bid will be opened on the date of tender opening. The price Bids of those tenders whose Techno-Commercial Bids are found to be meeting our specifications/ requirements will be opened. The bidders are allowed to attend the tender opening on the date and time of opening.
6. Late & delayed tenders will not be considered. Therefore, please ensure that your tender is posted well in time to reach us before the due date and time.
7. Fax/Email offers shall not be considered.
8. All the pages of your offer should be signed by competent authority and affixed with your company's seal.
9. EMD of Rs. 1,32,000/- to be submitted along with the Tender Bid in the form of Crossed Demand Draft drawn on any Nationalized/scheduled bank in favor of Pay & Accounts Officer, IIRS, payable at Dehradun. Quotation received without EMD will not be considered. The EMD of unsuccessful bidder will be returned after finalization of order. In order to avail of the benefits extended by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / UdyogAdhar / NSIC Registration Certification along with your offer. As per Public Procurement Policy for MSEs, it is meant for procurement of only goods produced and services rendered by MSEs and not for any trading activities by them.



Purchase & Stores Officer

Specific terms and conditions to the tender

1. Please submit the Technical Details / Catalogue / Make/ Model/Data Sheets.
2. The offer should be valid for a period of 90 days from the date of opening of Tender.
3. Please send the quotations ONLY in 'SEALED COVER' indicating our tender enquiry No. and due date by speed post so as to reach us on or before the due date & time. IIRS will not be responsible for any postal delays.
4. E- mail/ fax quotations 'WILL NOT BE ACCEPTED'.
5. Please quote the percentage of GST applicable.
6. Our standard delivery term is FOR, IIRS. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.
7. We are exempted from the payment of Customs Duty and necessary exemption certificate shall be issued upon request.
8. **Payment Term:** Payment will be made within 30 days from the date of receipt and acceptance of the item at our site for order value upto- 2.00Lakhs. For order value above 2.0 Lakh, 90% payment will be made within 30 days and 10% against submission of Performance Bank Guarantee for the warranty period (wherever warranty is applicable). The Performance Bank Guarantee should be valid for a period of 2 months beyond the completion of the warranty period.
9. For foreign orders our Standard Payment Term is Sight Draft / 100% through wire transfer after receipt & acceptations of the item at our site.
10. **Liquidated Damages** –The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.
11. **Security Deposit:** -Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 10% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations.
12. In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / UdyogAdhar / NSIC Registration Certification along with your offer.
13. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
14. Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.


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Purchase & Stores Officer