



Department of Health Research, Ministry of Health and Family Welfare, Government of India
ICMR-National Institute of Immunohaematology

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NOTICE INVITING TENDER

Tender Notice No: NIIH/STORE/04/2022-23

DATE: 27/05/2022

Quotations/Tenders are invited from reputed manufacturers, suppliers or their representatives for supply, installation, testing, demonstration, training and commissioning of laboratory instruments / equipments; details of which are given in Part-I of tender document.

The document containing three parts (Part-I: Technical specifications, Part-II: Terms & Conditions and Part-III: Checklist), is available in our websites: www.icmr.nic.in, www.niih.org.in & www.eprocure.gov.in. The same may be downloaded and offers be submitted to The Director, ICMR-National Institute of Immunohaematology, Mumbai in sealed envelope. Last date for submission of tender is **13th June, 2022 by 1.00 pm**. In case any bidder fails to follow any or more of these conditions, the offer shall be summarily rejected. Late/incomplete quotations will not be considered.

Bidders are advised to regularly visit ICMR-NIIH website : www.niih.org.in for corrigendum / amendments, if any, that will be notified only on the above NIIH website. Director, ICMR-NIIH, Mumbai reserves the right to accept or reject any/all applications without assigning any reason thereof.

DIRECTOR

Crucial Dates

Bid Submission Start Date	27/05/2022	01.00 pm.
Last date of Bid Submission	13/06/2022	04.00 pm.
Opening date of Bid	15/06/2022	11.30 am.

PART - I : SCHEDULE OF REQUIREMENTS :

Technical Specification			
Sr. No.	Equipments	No. of Units	Reference
1	High Capacity Server (16Core, Ram 1TB)	1	Annexure 1
2	Medium Capacity Server (16 core, RAM 512 GB)	2	Annexure 2
3	Storage	1* 252 TB	Annexure 3
4	Switch	1*L3, 48 Port	Annexure 5
5	UPS	2* 10KVA	Annexure 13 Annexure10 Annexure 11
6	KVM Monitor, Rack	1 each	Annexure 1
7	Firewall FW	2	Annexure 7
8	Keyboard & Mouse Combo	1 set	Annexure 8
	Warranty: 3 year + 2 year AMC		

Specification Attach.

Annexure 1

4 X Intel DDR4 SDRAM with ECC 1024 GB

Processor	
Processor Architecture	CISC(X86)
Processor Make	Intel
Number of Cores per Processor	18 or better
Processor Base Frequency (GHz)	2.6 or better
Processor Turbo Frequency (GHz)	3.9 or better
Total Cache (L1+L2+L3)(MB)	24.75 or better
Processor Description/ Number	Intel Xeon Gold 6240
Chassis	
Form Factor	Rack
Size (RU)	2 or better
Motherboard	
Chipset compatible with CPU	Intel C621
Expansion Slots Gen 3 (PCIe x1)	0
Expansion Slots Gen 3 (PCIe x4)	0
Expansion Slots Gen 3 (PCIe x8)	5 or better
Expansion Slots Gen 3 (PCIe x16)	6 or better
Maximum number of Sockets available onServer	4 or better
Maximum number of Sockets populated with Processors available on Server	4 or better
Co Processor / GPU	
Availability of Co Processor /GPU	No
If Yes, Maximum Number of Slots availablefor Co-Processor/GPU	0
If Yes, Maximum Number of slots populatedwith Co processor/GPU	0
If Yes, Co Processor /GPU Description	NA
Memory	
Type of RAM	DDR4 SDRAM with ECC
Total Number of DIMM Slots available	48 or better
Number of DIMM Slots populated withDDR SDRAM	16 or better
Number of DIMM Slots populated withDDR NVRAM	0
DDR SDRAM Size(GB)	1024 or better
DDR NVRAM Size (GB)	0

DDR SDRAM upgradable upto using spareDIMM Slots (GB)	6144 or better
DDR NVRAM upgradable upto using spareDIMM Slots (GB)	0
SSD Storage	
Type of Interface for SSD	SAS
Type of SATA SSD	NA
SATA SSD Hot Swappable	NA
Endurance for SATA SSD (DWPD - DriveWrites Per Day) (X)	0
Total Number of Slots available for SATA SSD	0
Number of Slot Populated with SATA SSD	0
Capacity offered per SATA SSD (GB)	0
Total Capacity Offered with SATA SSD (GB)	0
Type of SAS SSD	NA
SAS SSD Hot Swappable	NA
Endurance for SAS SSD (DWPD - DriveWrites Per Day) (X)	0
Total Number of Slots available for SAS SSD	3 or better
Number of Slots populated with SAS SSD	3 or better
Capacity Offered per SAS SSD (GB)	400 or better
Total Capacity Offered with SAS SSD (GB)	1200 or better
Type of NVMe SSD	NA
NVMe SSD Hot Swappable	NA
Endurance for NVMe SSD (DWPD - DriveWrites Per Day) (X)	0
Total Number of Slots available for NVMe SSD	0
Number of Slots populated with NVMe SSD	0
Capacity Offered per NVMe SSD (GB)	0
Total Capacity Offered with NVMe SSD (GB)	0
HDD Storage	
Type of Interface for Hard Disk Drive	NA
Total number of Slots available for SATA Drive	0
Number of Slots populated with SATA Drive	0
Capacity offered per SATA Drive (GB)	0
SATA drive speed (hot plug or better)(RPM)	NA
Total Storage Capacity offered with SATA	0

Drive (GB)	
Total number of slots available for SAS drive	0
Number of Slots populated with SAS Drive	0
Capacity offered per SAS Drive (GB)	0
SAS drive Speed (Hot plug or better) (RPM)	NA
Total Storage Capacity offered with SAS Drive (GB)	0
Total number of slots available for NL SAS drive	0
Number of Slots populated with NL SAS Drive	0
Capacity offered per NL SAS Drive	0
NL SAS drive speed (hot plug or better) (RPM)	NA
Total Storage Capacity offered with NL SAS Drive (GB)	0
RAID	
RAID level	na
No of RAID Controller Ports	2 or better
Speed of RAID Controller Ports (Gbps)	12 or better
RAID Controller Cache (GB)	0
Ports & Interfaces	
Network Card Supported	1G,10G
Number of Networking Interface Cards (LAN)	2 or better
Whether Network Interface Card Embedded	Yes
Total Number of Ethernet Ports required in Server	2x1G,4x10G with SFP+
Networking Interface Card Features	Asset Management, Feature Tracking, Security, Remote Wake up
Server Network Ports should Support SR-IOV Feature	No
Server network ports should support DPDK and it should deliver zero packet loss as per RFC 2544 and deliver 100% line rate for all the packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same	No
Number of Single port FC HBA card	2 or better
Number of Dual port FC HBA card	0
Number of Quad port FC HBA card	0
FC HBA Speed (Gbps)	16 or better
vHBA Card Features Supported	No
Number of Converged Network Adaptor	0

(CNA)	
Number of Ports per CNA card	NA
CNA Port Speed (Gbps)	0
Length of LC-LC Cable per SFP+ Port (meter)	5 or better
Length of LC-LC Cable per HBA Port (meter)	5 or better
Length of LC-LC Cable per CNA Port (meter)	0
Length of Twinax Breakout Cables per Port (meter)	0
Video Controller (support VGA or above resolution)	No
Keyboard Port	No
Mouse Port	No
DVD ROM (Internal/Exrternal)	No
USB Ports (version 2point0/3point0)	3 or better
Total number of Spare Bays Available forFuture Upgradation (Internal)	0
Total number of Spare Bays Available forFuture Upgradation (Hot Pluggable)	0
Certifications	
Certifications/Compliance (OS)	Windows,Red Hat Linux,Suse Linux,Ubuntu,Cent OS
Certification/Compliance (Virtualization/Cloud Platform)	VM ware,HyperV,Oracle Virtualization,RedHat Virtualization
Features	
Management Features-1	Remoter power On/ Shutdown of server,,Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,,Should have virtual Media support with all required licenses.,Remote KVM,Server Health Logging,Out of Band Management

<p>Management Features-2</p>	<p>Management of multiple Servers from single console with single source of truth for multiple sites.,Automated infrastructure management for patch upgrades, version upgrades ,etc.,Simplified management with analytics driven actionable intelligence.,System tagging giving admin flexibility to provide metadata tags to each System to enable users to filter and sort systems based on user-assigned attributes,Hardware Profile based deployment to multiple Servers simultaneously,Policy template for deployment of single policy to multiple Servers simultaneously,Platform inventory and health status,Server utilization statistics collection (including firmware updates and diagnostic tools),Should provide an alert in case the system is not part of OEM hardware compatibility test,Solution should be open and programmable providing Rest API, SDK for programming languages like Python , power shell scripts etc.,Should have customizable dashboard to show overall faults/health/inventory for all managed infrastructure the solution should provide option to create unique dashboards for individual users.the user should be flexibility to select name for dashboards and widgets (viz. health, utilization etc),Single pane of glass for auto Provisioning across Multi vendor & multi hypervisor platform,Self service portaldeployment for automated provisioning,Real-time out-of-band hardware performance monitoring & alerting</p>
<p>Security Features-1</p>	<p>Secure Boot(Firmware and Bios Level Security),Provision to lock the system on breach,Hardware root of trust/Dual Root of Trust,Server should provide policy based security,Server should provide server intrusion detection,,"Malicious Code Free design" (to be certified by OEM)</p>

Security Features-2	Provision for Cryptographic firmware updates, Capability to stop execution of Application/Hypervisor/ Operating System on predefined security breach, Secure /Automatic BIOS recovery, Network Card secure firmware boot, In case of any security breach system should provide the lock down feature
Server scalability to be achieved within the box & without adding nodes	Yes
support for high availability clustering and virtualization	Yes
Generic	
Redundant Power Supply	No
Hot Swappable (Redundant Power Supply)	No
Power Supply Efficiency	Titanium
Redundant Fan	No
Hot Swappable (Redundant Fan)	No
Server Main Supply	230 +/- 10%Vac
Benchmark	
SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	489
SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)	406
SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	0
SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	0
Miscellaneous	
Maximum power consumption of the system (Watts)	1600
BIS Registration under CRS of MeitY	Yes
BIS Registration Number Under CRS of MeitY and its validity	R-91000310,05-10-22
Other Certifications Available	UL/EN/CE/IEC-60950 for Safety, E-Waste Regulation Compliance/Registration
RoHS Compliance	Yes
Availability of the type test report from Central Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence	No

a) Dry heat:test - for 16 hrs at 45 deg C as per IS: 9000/pt-3/sec-5/1977 b) Cold test - for 4 hrs at 0 deg C as per IS: 9000/pt-2/sec- 4/1977 c) Damp Heat Cyclic Test - for 2 cycles of 24 hrs at 40 deg C & 95% RH as per IS: 9000/pt-5/sec-1/1981	NA
The server has been checked for all the parameters before conditioning, After completion of the environmental tests sequence, with a recovery period of 1 to 2 hrs, the server found to be functional	NA
Test Report Number & date	NA
Name & Address of Lab	NA
Scope Of Supply	
Installation and Commissioning shall be included in the scope of supply	Yes
Warranty	
On Site OEM Warranty (Year)	5 or better

Annexure 2

2 X Intel DDR4 SDRAM with ECC 512 GB

Processor	
Processor Architecture	CISC(X86)
Processor Make	Intel
Number of Cores per Processor	24 or better
Processor Base Frequency (GHz)	2.2
Processor Turbo Frequency (GHz)	4 or better
Total Cache (L1+L2+L3)(MB)	35.75
Processor Description/ Number	Intel Xeon Gold 5220R
Chassis	
Form Factor	Rack
Size (RU)	2 or better
Motherboard	
Chipset compatible with CPU	Intel C621
Expansion Slots Gen 3 (PCIe x1)	0
Expansion Slots Gen 3 (PCIe x4)	2 or better
Expansion Slots Gen 3 (PCIe x8)	2 or better
Expansion Slots Gen 3 (PCIe x16)	2 or better
Maximum number of Sockets available on Server	2 or better
Maximum number of Sockets populated with Processors available on Server	2 or better
Co Processor / GPU	
Availability of Co Processor /GPU	No
If Yes, Maximum Number of Slots available for Co-Processor/GPU	0
If Yes, Maximum Number of slots populated with Co processor/GPU	0
If Yes, Co Processor /GPU Description	NA
Memory	
Type of RAM	DDR4 SDRAM with ECC
Total Number of DIMM Slots available	24 or better
Number of DIMM Slots populated with DDR SDRAM	4 or better
Number of DIMM Slots populated with DDR NVRAM	0
DDR SDRAM Size(GB)	512 or better
DDR NVRAM Size (GB)	0

DDR SDRAM upgradable upto using spare DIMM Slots (GB)	3500 or better
DDR NVRAM upgradable upto using spare DIMM Slots (GB)	0
SSD Storage	
Type of Interface for SSD	SATA
Type of SATA SSD	Read Intensive
SATA SSD Hot Swappable	Yes
Endurance for SATA SSD (DWPD - Drive Writes Per Day) (X)	0
Total Number of Slots available for SATA SSD	8 or better
Number of Slot Populated with SATA SSD	2 or better
Capacity offered per SATA SSD (GB)	480 or better
Total Capacity Offered with SATA SSD (GB)	960 or better
Type of SAS SSD	NA
SAS SSD Hot Swappable	NA
Endurance for SAS SSD (DWPD - Drive Writes Per Day) (X)	0
Total Number of Slots available for SAS SSD	0
Number of Slots populated with SAS SSD	0
Capacity Offered per SAS SSD (GB)	0
Total Capacity Offered with SAS SSD (GB)	0
Type of NVMe SSD	NA
NVMe SSD Hot Swappable	NA
Endurance for NVMe SSD (DWPD - Drive Writes Per Day) (X)	0
Total Number of Slots available for NVMe SSD	0
Number of Slots populated with NVMe SSD	0
Capacity Offered per NVMe SSD (GB)	0
Total Capacity Offered with NVMe SSD (GB)	0
HDD Storage	
Type of Interface for Hard Disk Drive	SAS
Total number of Slots available for SATA Drive	0
Number of Slots populated with SATA Drive	8 or better
Capacity offered per SATA Drive (GB)	0
SATA drive speed (hot plug or better) (RPM)	NA
Total Storage Capacity offered with SATA Drive (GB)	0
Total number of slots available for SAS drive	8 or better

Number of Slots populated with SAS Drive	5 or better
Capacity offered per SAS Drive (GB)	2400 or better
SAS drive Speed (Hot plug or better) (RPM)	10K or better
Total Storage Capacity offered with SAS Drive (GB)	12000 or better
Total number of slots available for NL SAS drive	0
Number of Slots populated with NL SAS Drive	0
Capacity offered per NL SAS Drive	0
NL SAS drive speed (hot plug or better) (RPM)	NA
Total Storage Capacity offered with NL SAS Drive (GB)	0
RAID	
RAID level	1,5,6,1+0,5+0,0
No of RAID Controller Ports	8 or better
Speed of RAID Controller Ports (Gbps)	12 or better
RAID Controller Cache (GB)	1 or better
Ports & Interfaces	
Network Card Supported	1G,10G,25G,40G
Number of Networking Interface Cards (LAN)	4 or better
Whether Network Interface Card Embedded	Yes
Total Number of Ethernet Ports required in Server	2x10G RJ 45,2x1G
Networking Interface Card Features	NA
Server Network Ports should Support SR-IOV Feature	No
Server network ports should support DPDK and it should deliver zero packet loss as per RFC 2544 and deliver 100% line rate for all the packet sizes over 64 Bytes, Vendor to submit latest DPDK test report for the same	Yes
Number of Single port FC HBA card	0
Number of Dual port FC HBA card	0
Number of Quad port FC HBA card	0
FC HBA Speed (Gbps)	NA

vHBA Card Features Supported	No
Number of Converged Network Adaptor (CNA)	0
Number of Ports per CNA card	NA
CNA Port Speed (Gbps)	0
Length of LC-LC Cable per SFP+ Port (meter)	0
Length of LC-LC Cable per HBA Port (meter)	0

Length of LC-LC Cable per CNA Port (meter)	0
Length of Twinax Breakout Cables per Port (meter)	0
Video Controller (support VGA or above resolution)	Yes
Keyboard Port	No
Mouse Port	No
DVD ROM (Internal/Exrternal)	No
USB Ports (version 2point0/3point0)	4 or better
Total number of Spare Bays Available for Future Upgradation (Internal)	0
Total number of Spare Bays Available for Future Upgradation (Hot Plugable)	2 or better
Certifications	
Certifications/Compliance (OS)	Windows,Red Hat Linux,Suse Linux,Ubuntu,Cent OS
Certification/Compliance (Virtualization/Cloud Platform)	VM ware,HyperV,Oracle Virtualization,Red Hat Virtualization,KVM
Features	
Management Features-1	Remoter power On/ Shutdown of server,,Remote Management of Server over LAN & WAN with SSL encryption through gigabit management port,,Should have virtual Media support with all required licenses.,Remote KVM,Server Health Logging,Out of Band Management

Management Features-2

Management of multiple Servers from single console with single source of truth for multiple sites.,Automated infrastructure management for patch upgrades, version upgrades ,etc.,Simplified management with analytics driven actionable intelligence.,System tagging giving admin flexibility to provide metadata tags to each System to enable users to filter and sort systems based on user- assigned attributes,Hardware Profile based deployment to multiple Servers simultaneously,Policy template for deployment of single policy to multiple Servers simultaneously,Platform inventory and health status,Server utilization statistics collection (including firmware updates and diagnostic tools),Should provide an alert in case the system is not part of OEM hardware compatibility test,Solution should be open and programmable providing Rest API, SDK for programming languages like Python , power shell scripts etc.,Should have customizable dashboard to show overall faults/health/inventory for all managed infrastructure the solution should provide option to create unique dashboards for individual users.the user should be flexibility to select name for dashboards and widgets (viz. health, utilization etc),Single pane of glass for auto Provisioning across Multi vendor & multi hypervisor platform,Self service portal deployment for automated provisioning,Real-time out-of-band hardware performance monitoring & alerting

Security Features-1	Secure Boot(Firmware and Bios Level Security),Provision to lock the system on breach,Hardware root of trust/Dual Root of Trust,Server should provide policy based security,Server should provide server intrusion detection,,"Malicious Code Free design" (to be certified by OEM)
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Security Features-2	Provision for Cryptographic firmware updates, Capability to stop execution of Application/Hypervisor/ Operating System on predefined security breach, Secure /Automatic BIOS recovery, Network Card secure firmware boot, In case of any security breach system should provide the lock down feature
Server scalability to be achieved within the box & without adding nodes	Yes
support for high availability clustering and virtualization	Yes
eneric	
Redundant Power Supply	Yes
Hot Swappable (Redundant Power Supply)	Yes
Power Supply Efficiency	Titanium
Redundant Fan	Yes
Hot Swappable (Redundant Fan)	Yes
Server Main Supply	230 +/- 10%Vac
Benchmark	
SPEC int_rate_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	0
SPEC fp_rate_2017 for the product (must be available on SPEC dot ORG before evaluation)	0
SPEC int_speed_base 2017 for the product (must be available on SPEC dot ORG before evaluation)	0
SPEC fp_speed_2017 for the product (must be available on SPEC dot ORG before evaluation)	0
Miscellaneous	
Maximum power consumption of the system (Watts)	800
BIS Registration under CRS of MeitY	Yes
BIS Registration Number Under CRS of MeitY and its validity	R-71009580
Other Certifications Available	UL/EN/CE/IEC-60950 for Safety, CE/FCC for EMC & Immunity, E-Waste Regulation Compliance / Registration
RoHS Compliance	Yes

Availability of the type test report from Central Government / NABL / ILAC accredited laboratory covering verification of all features & functional parameters & environmental tests sequence	No
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a) Dry heat:test - for 16 hrs at 45 deg C as per IS: 9000/pt-3/sec-5/1977 b) Cold test - for 4 hrs at 0 deg C as per IS: 9000/pt-2/sec-4/1977 c) Damp Heat Cyclic Test - for 2 cycles of 24 hrs at 40 deg C & 95% RH as per IS: 9000/pt- 5/sec-1/1981	NA
The server has been checked for all the parameters before conditioning, After completion of the environmental tests sequence, with a recovery period of 1 to 2 hrs, the server found to be functional	NA
Test Report Number & date	1905025
Name & Address of Lab	NEMKO INDIA PVT LTD
Scope Of Supply	
Installation and Commissioning shall be included in the scope of supply	Yes
Warranty	
On Site OEM Warranty (Year)	3 or more

Annexure 3

Network Attached Storage (NAS) Device, On Site OEM Warranty 5 Years

Storage Tiering	
Automated Storage Tiering feature License Included	Yes
Automated Storage Tiering across SSD, SAS,NL-SAS/SATA Tiers	No
Performance Parameters	
Number of Nodes (Number)	128 or better
Speed of Front end Ports (Gbps)	10 or better
Number of Node Failure Tolerance	4 Nodes or better
Usable Capacity	280 terabyte or better
Capacity of Each SSD/Flash Drive used	18 terabyte or better
Total no of drive slot populated with SAS	0
Capacity of Each NL-SAS/SATA Drive used (TB)	18 terabyte or better
Capacity of Each SAS Drive used (TB)	0 terabyte
Total no of drive slot populated with NL-SAS/SATA	15 or better
Scalability of Nodes	60 or better
Operating System, File System and corresponding hardware from a single OEM	No
Total no of drive slot populated with NVMe	0
Per Node Cache/Memory Offered	48 gigabyte or better
Scale Out File Storage Essential Specifications	Single Pane of management, administration and configuration of the whole storage platform through GUI and CLI,Storage should with no single point of failure
Number of Drive Slots Populated with drives of different type in the Storage System (total Drive Count across all nodes)	15 or better
Protocol Support	NFS
Number of Front end Ports per node	15 or better
Number of Processor offered per Node	1 or better
File System Performance in GB/sec	0.125
Total no of drive slot populated with SSD / Flash	1 or better
Number of Sockets offered per Node	1 or better
Number of Cores per Sockets	4 or better
Redundant Interconnect Switches	No
Provide Software or Hardware Load Balancer to auto balance client connections across Storage controllers	No

Capability to automatically Load Balance existing Data across controllers post addition of Controllers/Nodes	No
Type of Data Reduction	NA
Type of Cache/Memory	NA
Single Filesystem scalable to 50PB	No
File Type Support	
Different Type of File Support	Structured
High performance NoSQL database management system License included	No
High performance NoSQL database management system Supported	No
Data Protection Features	
Point in time Snapshot Feature license included	No
multiple name nodes in high availability	No
Multi-tenancy feature such that multiple workloads	No
automated data placement and rack awareness to avoid entire rack failure	No
Creating multiple copies of the same data	No
Point in time Snapshot Feature Supported	No
Container Integration	
CSI Drivers for Container Platform	No
Files Supported	
If Yes, Provide 40% additional Capacity	No
Capacity Overhead on saving Small Files (100KB or Less)	No
Number of files Supported	No Software Limit
Remote Replication Features	
Many to One	No
Synchronous Replication Support	No
Storage Cluster NameSpace/ Federation Supported	No
One-to-Many	No
Asynchronous Replication Support	No
Asynchronous Replication license included	No
Remote Replication	No
Synchronous Replication license included	No
Many to Many	No
Cloud Integration	
Storage shall be extensible to a common data fabric from both on premise to cloud with a global namespace.	No
Client Loading Balancing	

Storage System should have capability to loadbalance client connectivity across these multiple controllers so that all clients get distributed across all existing controllers/nodes to avoid any performance hotspot.	No
Others	
Scope of supply	It includes installation, commissioning & integration together with all necessary software to make the system fully functional as intended.
On Site OEM Warranty	5 Years Standard or More
Max Power Consumption of System (Watt)hint: Must Indicate	60W
Standby Power Consumption of System(Watt) hint: Must Indicate	20W
If Yes, Type of Certification & CertificationNo (Shall be furnished when demanded by buyer), hint: Must clearly indicate about the certifications available	NO
Other International Certification	Yes
Security	Access control list for defining who can use thearray and what action can be performed by users or groups
Offered with dataset management and storage monitoring software. Software should have ability to index, identify, classify and move data between offered storage to other OEM storage systems and the cloud (public or private)	Yes

Annexure 5

Network Switch-L3 for Cloud 2 Years ONSITE Support from OEM

Basic Information	
Type of Switch	Network Switch-L3 for Cloud
Number of Years upto which ONSITE Support is available from OEM	2 or more
Features Of Network Switch-L3 For Cloud	
Network Switch-L3 Features 1	4. Switch must have at least 48 x 10G/25G SFP ports and 6x 40/100 QSFP ports supporting multimode SFP and DAC for both 10G and 25G. The switch must be populated with at least 24X10G/25G modules and 4X40/100G modules.
Network Switch-L3 Features 2	2. Spanning Tree Protocol (IEEE 802.1D,802.1W,802.1S) .
Network Switch-L3 Features 3	7. Switch capable to support centraltime server synchronization using Network Time Protocol NTP V.4
Any other Features	BGP,VXLAN,EVPN,DCBX

Annexure 7

Firewall With 3 Years On Site OEM Warranty

Specification	
Type	Firewall
Form Factor (RU)	1
Features	Layer 3 - Layer 4,NAT,VPN,Application Visibility and Control (AVC),User Identity,Next Generation Intrusion Prevention System (IPS),Web Security Essentials / URL Filtering
Traffic handled	TCP/UDP,UDP
Packet Size (KB)	1024 or Better
Throughput with all features enabled(UnderTest Condition) (Mbps)	5000 or better
Throughput (Real World/Prod Performance)(Under Test Condition) (Mbps)	29000 or better
Concurrent Session/Concurrent Connection	10M
New session/Connection per second	185K
Type of Interface Supported Multiselect	GE Copper
Number of GE Copper interface	8 or better
Number of 10G SFP+ interface	4 or better
Number of QSFP+ 40 G interface	0
Number of GE Small Form-Factor Pluggable (SFP) interface	0
Number of QSFP28 100 G interface	0
Number of col /WAN Ports	1
Number of Ipsec VPN Peers supported (Site to Site)	50 or btter
Number of Ipsec VPN Peers supported (Client to Site)	100 or btter
Number of SSL VPN Peers supported (Client to Site)	100 or btter
Type of Storage Disk	SSD
Storage Capacity (GB)	400 or btter
Power Supplies	Dual Dual
Hot Swappable Power Supply	No
Redundant Fan	No
Hot Swappable (Redundant Fan)	No
Type of Processor	x86
High Availability Support	Yes
If Yes, High Availability from day 1	NA
Interface Expansion slots supprted	1

Firewall Policies - License	Yes
Details of the Firewall Policies for the Firewall provided with the License	Web Security Essentials / URL Filtering, IPS License, Application Visibility License, APT (Advance Persistent Threat) License (Anti Malware Protection , C&C attacks, Geo IP Protection, Zero Day Threat Protection), Gateway Anti virus, Gateway Antispam
NGIPS Signature supported	5000
Security Intelligence	IP, URL, Domain, IOC Intelligence
Certification	Common Criteria /NDPP/NSS/ICSALabs
Minimum Operating Temperature (Degree C)	0
Maximum Operating Temperature (Degree C)	40
Minimum Operating Humidity (%RH)	5
Maximum Operating Humidity (%RH)	75
IPv6 Ready from day 1	Yes
On Site OEM Warranty (Year)	3 or better

Annexure 8	
Keyboard And Mouse Combo	
Specification	
Keyboard Type	Standard keyboard
Mouse Type	Optical Movement Detection Technology
Keyboard Connectivity	Wireless
Mouse Connectivity	Wireless
Interface port for both Keyboard and Mouse	USB 2.0
If wireless, operating range of keyboard (meter)	2.5
If wireless, operating range of mouse (meter)	2.8
Number of keys on keyboard (Nos)	104
Number of buttons in mouse (Nos)	3
Mouse DPI (dpi)	10
IP rating for keyboard	0
Power source for wireless keyboard	Battery
If Battery, type of battery	Pencil
Power source for wireless Mouse	Battery
Life of Keyboard (Million key strokes)	100
Dpi Switcher	Not-Available
Touch Pad (Keyboard)	Not-Available
Illuminated Keys (Keyboard)	NA
Illuminated Mouse	NA
Special keys (Keyboard)	Not-Available
Dimensions for keyboard (LxWxH) (mm x mm x mm)	50*15*7
Dimensions for mouse (LxWxH) (mm x mm x mm)	9*12*4
Weight of Mouse (grams)	100 gram
Weight of Keyboard (grams)	380 gram
BIS Registration under CRS of Deity for wireless keyboard	NA
BIS Registration Number	NA
Availability of test certificate from Central Govt / NABL/ ILAC accredited lab to prove conformity to specification	No
If Yes, Test Report Number & date	NA
If Yes, Name of Lab	NA
If Yes, Address of Lab	NA
Warranty(Years)	1 or more

Annexure 9	
Analog 12 Port KVM Switch	
Physical	
Housing	Metal
Mounting	Rack
Size (RU)	1 or better
Type	
Type	Analog
Computer Connections	
Number of Computer Connection Available	12 or better
Port Selection	
Port Selection Medium	Push Button,Hot Keys
LED Indicators for various Interfaces	No
Interfaces / Connectors On Console	
Number of USB Type A (female) Ports	2 or better
Number of HDMI (female) Ports	0
Number of 3 point 5 mm Audio Jack (Female)	0
Number of RJ 45 Ports	0
Interfaces / Connectors On KVM	
Number of USB Type A (female) Port	0
Number of HDMI (female) Port	0
Number of 3 point 5mm Audio Jack (Female)	0
Number of RJ 45 Port	0
Features	
Support for Cascading Multiple KVM switches	Yes
If Yes, Number of KVM Switches supported for cascading	5
Multiplatform Support	Windows,Linux,Mac
Supported Resolutions	1920 x 1080
Power on detection – If one of the computers is powered off, it will automatically switch to the next powered-on computer	No
Multi View Support	No
Power	
Power Source	AC Mains
Maximum Power Consumption (Watt)	240
Operating Conditions	
Minimum Operating Temperature (Degree C)	0
Maximum Operating Temperature (Degree C)	50
Minimum Operating Humidity (%RH)	0
Maximum Operating Humidity (%RH)	80

Certification	
BIS Registration under CRS of Meity	No
If yes, BIS Registration number	0
Other Certifications available	CE,RoHS
Warranty And Insatallation	
Scope of supply	Installation, Integration and Commissioning is included in the scope of supply
On Site OEM Warranty (Year)	3 or More

**Annexure
10**

45.5 - 47.5 CM Liquid Crystal Display LCD Panel or Monitors

Specification	
Screen Size (Diagonal) (cm)	45.5 - 47.5 or better
Panel Type	Twisted Nematic (TN)
Resolution (Pixels)	1366 x 768 (HD)
Aspect Ratio	0.672916667
Brightness (Nits)	200 or better
Native Contrast Ratio (Minimum)	25.00069444
Viewing Angle (Horizontal : Vertical) (Degree)	170 : 160
Response Time (millisecond)	10 millisecond
Antiglare Coating	No
Split Screen Feature	Not-Available
Inbuilt Speakers	Not-Available
VGA Port	Available
HDMI Port	Not-Available
DVI-D Port	Not-Available
Display Port	Not-Available
Power Consumption in Operating Mode (Maximum) (Watt)	12
Power Consumption in Sleep Mode (Maximum) (Watt)	12
Mounting Arrangement	Table Mount
TCO Certification	TCO-07
BIS Registration under CRS of Meity	No
Operating Temperature Range (Degree Celsius)	85
Operating Humidity (%RH)	85
Power Supply	230V AC, 50 Hz
Type Of Power Supply	In-built
On Site OEM Warranty (Year)	3 or More

Annexure 11

36U Rack Enclosures Networking/Server Rack

Specifications	
Type of Server Racks	Rack Enclosures
Size of Server Rack Enclosure	36U or better
Depth of the Rack (mm)	Upto 1000
Mount Type	Free-Standing
Front glass Door	No
Type of glass used in front door	NA
Material used for rear door	CRCA Steel
Both rear and front doors with Perforation	Yes
Side Panels With Key Locks and Slam Latch	Yes
Secure Locks	Available
Rear split door design	Yes
Keyboard Tray Sliding and Rotary	Yes
Shelf For CRT/TFT Display	Yes
Cable channel in rear side for cable management	Yes
Support cable entry from top or bottom	Yes
Vertical & Horizontal managers	Yes
Numbers of Rack trays	1
Number of Fan For Heat dissipation (nos)	4 or better
Number of fan trays	1 or better
Heavy Duty Caster Wheels	Yes
If yes, then Front Break Options	Available
Load Bearing Capacity (Kgs)	350 kilogram
If Wall mount racks then ,Swing-Out Racks	NA
Dust or water resistant	No
PDU Power Strips	Available
Weight (Kg)	120 kilogram
Warranty (Years)	1 or more

Annexure 13

10 KVA (1-1) Online UPS with 120 Minutes battery backup (3-2)

Special Terms & Conditions

Calculation of Minimum VAH based on Back up time Minimum VAH requirements would be calculated on the basis of following: (VAH Calculation: Battery Voltage x Battery Ah x No. of Batteries = VAH)

UPS Rating	120 Minutes
1 KVA	3200 VAH
2 KVA	6400 VAH
3 KVA	9600 VAH
5 KVA	16000 VAH
6 KVA	19200 VAH
7.5 KVA	24000 VAH
10 KVA	32000 VAH
15 KVA	48000 VAH
20 KVA	64000 VAH
30 KVA	96000 VAH
40 KVA	128000 VAH
60 KVA	192000 VAH
80 KVA	256000 VAH
100 KVA	320000 VAH
Generic	
Rating in KVA (KVA)	10.0 KVA
Technology	IGBT-PWM with inbuilt isolation transformer
Input Power	single phase 160V - 260V sinewave,50Hz
Output power	Single phase 230V +/-1% sinewave 50 Hz
Backup time (Minutes)	120 or better
Minimum VAH (VAH)	32200
Warranty for UPS (Years)	3 or more
Movable trolley for Batteries	Without trolley but with rack
Warranty for battery	2
Degree of Protection	IP21
Cabling 5 meters for input and out put	With
Paralleling kit for synchronising	Without
Installation and Commissioning	Yes
Constructional	
Minimum thickness of M.S.Sheet Enclosure duly painted (mm)	1.2
Type of Battery	SMF-VRLA conforming to

	JISC:8702(Pt.I,II&III)
Functional	
Maximum overshoot and Under shoot of outputrated voltage	4
Voltage Regulation from no load to full load (%)	< / = 3%
20% Overload limit for minimum 10 minutes	Yes
Overall Efficiency (%)	>/=90%
Total Harmonic Distortion(THD) (%)	Maximum 3%
50% Overload limit for minimum 1 minutes	Yes
Protection	
Protection for under voltage at battery terminalat 10.5V per 12 V battery	Yes
Protection of Over voltage,Short Circuit & overload at UPS output terminal	Yes
Metering And Indications	
Digital Metering in UPS for AC Input Voltage,Output AC Voltage,Current,Frequency,Battery Voltage andCurrent	Yes
Indicators for mains presence,Battery chargingand discharging,Output Over Load, Low Battery Voltage	Yes
Reports And Certification	
Damp Heat : in accordance with IS:9000(part5/sec.2)1981 at Temperature of 40 degree C,two cycles of (12+12) hours each 2007)	Yes
Dry Heat Test : in accordance with IS:9000(part 3/sec.5)1977 (reaffirmed 2007) at 55 degree C for 16 hrs	Yes
Cold Test : in accordance with IS:9000 (Part 2/Sec.4)1977 (Reaffirmed 2007) at -10 degreeC for 4 hrs.	Yes
Availability of the Type Test Report from Central Govt. /NABL/ILAC Accredited labcovering all technical requirements.	Yes
Type Test Certificate No.	007A
Type Test Certificate date	24.02.2014
Name of Lab	NTH (EASTERN REGION)
Address of Lab	KOLKATA, WB.
As per Meity (Government of India) guidelines UPS shall have valid BIS CRS certifications asaplicable	Yes

Part – II : TERMS & CONDITIONS

IMP Note: (A) These terms _____ will not be considers.

- (b) The terms & conditions mentioned below shall be binding and no other terms and conditions of the tenderers shall be accepted by ICMR-National Institute of Immunohaematology, Mumbai. No correspondence in this regard will be entertained.
1. Tenders are requested to submit detailed tender for each of items separately in their own forms under Single Bid System for items mentioned in the PART-I, in sealed envelope. **The equipment quoted should be readily available and should be delivered within one month from the date of issue of Purchase Order.**

2. Submission of Bids :-

- (a) Tender / Quotation may be submitted at Inward Section, ICMR-NIIH, Mumbai - 400012.
- (b) Last Date for submission of bid: **13th June, 2022 till 04.00 pm.**
- (c) The sealed envelope should be superscripted **“Tender for (Name of the item); due on 15.06.2022 before 11.30 am” and to be submitted to the address given below so as to reach before due date & time.**

The Director

ICMR-National Institute of Immunohaematology

13th floor, New Multisotreyed Bldg.

KEM Hospital Campus, Parel, Mumbai. 400 012.

Attn : Administrative Officer, Purchase Section

Bidder’s full address should also be indicated on the envelope

- (d) Bid received after the due date & time will not be considered under any circumstances.
- (e) ICMR-NIIH, Mumbai will not be responsible:**
1. For delay/late bid submitted/sent by post /courier etc.
 2. Forenoon receipt of bid at proper place.
 3. Any bid received by ICMR-National Institute of Immunohaematology, Mumbai after the due date andtime will not be accepted/considered under any circumstances.
- (f) Opening of Bids: Bidders / agent need not be present while opening of bids under single bid system. Tender opening Committee of the Institute will open the bid internally. Subsequently Technical Committee of the Institute will evaluate the bids. The lowest Evaluated bidder (lowest of technically qualified bidder) as per recommendation of Technical Committee will be accepted in each case. Decision of technical committee/competent authority of this institute will be final and binding in this regard.
3. **BID SECURITY/EARNEST MONEY DEPOSIT (EMD):** A Bid Security or Earnest Money equivalent to minimum **two per cent** of value of the system/equipment must be furnished along with the tender in the form of Demand Draft from a scheduled Bank drawn in favour of the Director, ICMR-NIIH, Mumbai, payable at State Bank of India, Mumbai Main Branch. EMD can also be furnished in the form of Bank Guarantee, as per specimen enclosed at Annexure `A`. Bank Guarantee furnished other than the given specimen format will not be accepted and such tenders will be rejected straight away. Offers, if received without Bid Security will summarily be rejected. In case of exemption of EMD, the copyof the document in support of exemption may be attached with the bid.

EARNEST MONEY DEPOSIT (EMD) of successful bidder will be returned only on receipt of Performance Bank Guarantee. The Earnest Money of unsuccessful bidder whose technical bid has not been found suitable will be returned after receipt of Technical Committee recommendations. Such bidders will have to furnish request letter for refund of their EMD along with a Pre-receipt, duly signed on a revenue stamp of one rupee by an authorized signatory. EMDs/Security Deposits that remains unclaimed for consequent three financial years will be forfeited and credited to the Govt. treasury. No interest shall be payable on Bid Security/EMD/Security Deposit.

4. **Performance Security/Security Deposit:** The successful bidder shall furnish an unconditional Performance Security in the form of Bank Guarantee from a commercial scheduled bank for 10% or higher (as may be decided by the Competent Authority) of the order value within 15 days of placement of the order. **An undertaking that the bidder agrees to give security deposit/performance bank guarantee must be submitted with the bid, failing which the bid shall not be considered.** If the bidder fails to submit the Performance Security as mentioned above, the Contract shall be deemed as terminated and the order will be placed with any other bidder. Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. **No interest is payable on the Performance Security.**
5. The tenders must be clearly written or typed without any cancellations / corrections or overwriting. If there exists a difference in the amount quoted in words and numeric the lowest of them will be taken as the amount.
6. The total payable cost is to be quoted **preferably in Indian Rupees for FOB at ICMR-NIIH, Mumbai.**
7. The Bid should accompany with complete specification, Manufacturer's name, address and relevant Literature / Brochures with Warranty terms & an undertaking that the bidder agrees to give security deposit etc.
8. The bidder who submits the bid on behalf of their principals should produce documentary evidence in support of their authority to quote or submit proforma invoice of their principals.
9. Indicate the names of the reputed Indian Organizations including ICMR Institutes/Centers where similar equipment was supplied and may attach the satisfactory performance report of the equipment from user Organization and the price finally paid.
10. The tenders is required to furnish the Permanent Account Number (PAN) allotted by Income Tax Department. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration etc. should also be provided in the offer/bid. Xerox copy of GST no. also required.
11. Concessional GST @ 5% will be applicable as per GOI norms for research institutes. In this regard, ICMR-NIIH will provide GST concession certificate to the successful bidder.
12. The tenders has to state in details the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system etc. and to run the tests. i.e. pre-installation facilities required for installation in the bid. Cost of the items should be mentioned clearly in the offer like:-
 - a) The optional and any other essential items / accessories required for the maintenance of the equipment for the next three years should also be specified in the offer separately.
 - b) Packing, Forwarding, Freight & Insurance and Commissioning Charges, if any extra, may be quoted separately in the Bid.

- c) In case the quote is F.O.R./F.O.B basis, estimate insurance coverage charges should be paid by supplier.
 - d) C.I.F value by Airfreight/Ocean freight, if any.
 - e) The actual Tax Percentage if any should be specified clearly.
 - f) Equipment to be the make/brand and name and address of the manufacturer, Country of origin, Country of shipment and currency in which rates quoted are to be mentioned.
13. Discount offered should also be mentioned clearly in the bid.
14. In case of Foreign Quote, the address of Principal's / Manufacturer's and their Banker's details should be furnished. The mode of dispatch should be by Air Post Parcel/Ocean Freight/Air Freight (on competitive rates) and on Freight to-pay basis only. The approximate dimensions of the packages and weight of consignment are to be indicated. The Principal supplier should clearly indicate the address of the Indian Agent and percentage (%) of Agency Commission payable if any, to be paid to them directly in Indian Currency, which will be paid after the receipt of consignment in good condition, satisfactory installation, commissioning and training of the ordered equipment.
15. The make / brand and name and address of the manufacturer, **Country of Origin, Country of Shipment and currency** in which rates quoted are to be mentioned.
16. Details regarding terms of payment must be mentioned clearly.
17. **Cargo consolidations and custom clearance:** ICMR-National Institute of Immunohaematology, Mumbai has its own freight forwarder and custom house agent for all ICMR-National Institute of Immunohaematology, Mumbai imports. Please note that all the consignments have to be routed through our Freight Forwarder and Custom House Agent or their associates only. Name & address of our Custom House Agent can be obtained from Admn. Officer of this institute while submitting your bid, you may confirm this condition.
- 18. Tenders which are submitted without following the proper procedure will not be accepted :**
- (a) Late/Unsigned/Incomplete Tenders.
 - (b) Conditional Offers.
 - (c) Tenders submitted by Fax / E-mail
 - (d) Tenders, not accompanied an undertaking that the bidder agrees to give Security Deposit/Performance Bank Guarantee, will summarily be rejected.
19. Based on the above information ICMR-National Institute of Immunohaematology, Mumbai will have its option to obtain details of the goods, their performance, after sales services etc. for evaluation of the tender, directly from the concerned Labs./Scientist etc.
20. Attach a copy of latest DGS&D, New Delhi registration Certificate under the compulsory Scheme of Ministry of Finance regarding the registration of Indian Agent of foreign supplier wherever it is applicable.
21. (A) In case of Indigenous Items, the offer should contain the Basic Price and percentage of Excise Duty and should be shown separately, since ICMR-NIIH, Mumbai is exempted from payment of Excise duty vide Govt. Notification No.10/97-Central Excise dated 1st March, 1997.
- (B) ICMR-NIIH is exempted from payment of Custom Duty vide Govt. Notification

No.51/96- Customs dated 23rd July, 1996. However, custom duty if any will be paid by ICMR-NIIH on production of Bills.

22. **Penalty for delayed Services/LD:** If the supplier fails to Supply, Install, Commission and Training for the system as per the specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of one percent of order value per every week of delay subject to a maximum of 10% beyond the due date and such money will be deducted from any money due or which may become due to the supplier. ICMR-National Institute of Immunohaematology, Mumbai reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.
23. Goods should not be dispatched until the Vendor receives a firm order.
24. Please indicate page nos. and put your seal on all pages of quotation.
25. The purpose of certain specific conditions is to get or procure best Equipment/service etc. for ICMR-National Institute of Immunohaematology, Mumbai. The decision of Technical Committee shall be the guiding factor for technical short listing.
26. **Interpretation of the clauses in the Tender Document/Contract Document:** In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, **Director, ICMR-National Institute of Immunohaematology, Mumbai's interpretation of the clauses shall be final and binding on all parties.**
27. All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Mumbai, India only.
28. The Director, ICMR-NIIH, Mumbai reserves all the rights to accept or reject any/all in full or in part without assigning any reason.

29. Warranty & Maintenance :

The following conditions are applicable for warranty & maintenance contract:-

- a) 3 years comprehensive warranty and 2 years non comprehensive services forequipment as free of cost.**
- b) Non-comprehensive annual maintenance from 6th to 10th years as decided by the appropriate Technical Committee.
- c) Provide spare parts to maintain the equipment, up to 10 years.
- d) Give discount on list price of all spare parts up to 10 years.
- e) Provide 2 preventive maintenance visits per year and also all the breakdown calls as and when required.
- f) The duration of warranty period will start after proper installation of the equipment and submitting user's satisfactory report.
- g) 0.1% of FOB as penalty per week till the warranty period, if the instrument remains in non working condition for more than 18 days.
- h) When the equipment is under warranty/comprehensive maintenance, it would be the responsibility of the manufacturer/dealer/agent to procure spare parts and the Institute will not incur any expense on duty, octroi or handling charges.
- i) The detailed circuit diagram along with trouble shooting procedure and operational manual would be provided to the Institute/Centre along with the

equipment.

j) Onsite training to the users after installation is to be given.

30. "The supplier should submit the IQ OQ/IQ PQ (Installation Qualification-Operational Qualification/Installation Qualification-Performance Qualification) certificate after successful completion of installation and testing of equipment / installation".

31. Payment :

(a) No advance payment is allowed under any circumstances. 100% payment in will be released by user transfer/FDD through the SBI, Main Branch Mumbai after Receipt at the material, completion of satisfactory installation commissioning, testing and training and demonstration of the whole system.

(b) We prefer to release the payment on Bill Basis (excluding Indian Agency Commission) after receipt of consignment in good condition and satisfactory installation, commissioning, training thereof. Alternatively, depending upon the value and foreign exchange regulations the payment can also be considered through FDD/Wire Transfer through State Bank of India for the order value excluding the Indian Agency Commission.

32. Supply means, "Supply, Installation, Commissioning, demonstration of the whole system and training on the site as desired by this Institute". If any__.

33. **Installation:** The Bidder shall be responsible for installation, commissioning, demonstration, training etc. including the identification of defect etc. and for sales service during the warranty and thereafter. Installation, demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the goods at site and subsequently training is to be provided to the concerned officials of this institute.

34. After successful installation what will be the minimum down time of equipment/instrument in case of breakdown must be mentioned. If the identified firm or person fails to put the system into working condition the further alternative course of action should be suggested adhering to minimum down time.

35. The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate the system without any problem. If the manuals are on chargeable basis, the same should be specified in the offer.

36. **Delivery Period:** As time is the essence of the contract, delivery period mentioned in the Purchase Order should be strictly adhered to, otherwise the Security Deposit furnished by the tenderer will be forfeited and also LD clause will be applicable/ enforceable.

37. **Period of validity of bids:** The bid should be valid/kept open for six months from the date of opening of the bid. Further, if extension of validity would be required in future, the bidder should extend the validity only and no other modifications shall be permitted.

38. **Amalgamation/Acquisition:** In the event, the Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfillment of contractual obligations i.e. supply, installation,

commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.

39. No sub-contracting will be allowed for installation or maintaining system/equipment / instrument during or after warranty period.
40. All the pages of these Terms & Conditions are to be duly signed by the vender and attached with the Bid, otherwise the tender will not be considered.
41. ICMR-National Institute of Immunohaematology, Mumbai will not provide any accommodation/transportation for the Engineers/Representatives for attending Installation, Commissioning, Demonstration, training etc. it is the absolute responsibility of the Principal Supplier/Indian Agent to make their own arrangements.
42. All bank charges inside India to ICMR-National Institute of Immunohaematology, Mumbai account and outside India to Beneficiary's account.
43. The Tender's conditions printed on the tender or otherwise sent along with the tender shall not be binding on ICMR-National Institute of Immunohaematology, Mumbai.

**DIRECTOR
ICMR-NATIONAL INSTITUTE OF
IMMUNOHAEMATOLOGY**

MUMBAI

Annexure-D

(To be typed on 100 rupees Stamp Paper) Performance Bank Guarantee

Bank Guarantee No.: Amount of Guarantee: Rs. Valid Up to : Guarantee Cover from : to
The Director, ICMR-National Institute of Immunohaematology, Mumbai (Indian Council of Medical Research)
N.M. Building, K.E.M Hospital, Parel, Mumbai - 400012

This deed of guarantee executed by (Name of Bank)
Constituted under the (Bank Act) having its Corporate Centre at
..... and amongst other places a
Branch, (hereinafter referred to as "the Bank") in favour of
ICMR-National Institute of Immunohaematology, Mumbai (hereinafter referred to as "the Beneficiary") for an
amount not exceeding Rs. (Rupees) at the request of
(Name of Firm) (hereinafter referred to
as "the Contractors").

This Guarantee is issued subject to the condition that the liability of the Bank under this Guarantee is limited to a
maximum of Rs. (Rupees) and
the Guarantee shall remain in full force upto and cannot be invoked otherwise than by a
written demand or claim under this Guarantee served on the bank on or before

Whereas you have entered in to a contract reference No. P.O. No.
..... Dated With (Name
..... of Firm)
..... for the supply of
which is hereinafter referred to as "the said contract" and whereas (Name of Firm)
..... has undertaken to produce Bank Guarantee for the 10% of the
contract price amounting to Rs.
(Rupees) to secure its obligations ICMR-National Institute of
Immunohaematology, Mumbai for the warranty of the equipment supplied.

We, (Name of Bank) Hereby expressly irrevocably
and unreservedly undertake and guarantee as Principal obliges on behalf of (Name of
Firm) that in the event ICMR-
National Institute of Immunohaematology, Mumbai declares to us through you that (Name of
Firm) has not fulfilled the warranty/other obligations according to
the contractual warranty obligations under the said contract to pay you on demand without any reference to
M/s. an amount of Rs.
..... (Rupees) Notwithstanding
any right/disputes raised by (Name
Firm) or any said or
proceedings pending in any competent Indian Court or before any arbitration tribunal, your written demand shall
be conclusive evidence to us that such payment is payable under the terms of the said contract and shall be
binding in all respect on us.

We shall not be discharged or released from the aforesaid undertaking and guarantee by any
arrangements, variations made between you and (Name of Firm)
..... indulgence to (Name
Firm) by you with or without our consent and
knowledge or by alterations in the obligations of (Name of
Firm) by any forbearance whether as to
payment time performance or otherwise.

We further agree and undertake not to revoke this guarantee before the same is discharged in writing by you.

This guarantee shall remain valid until Page 11 of

Notwithstanding anything contained herein.

Our liability under this guarantee is restricted to Rs. (Rupees.....)

This Bank Guarantee shall be valid up to

We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only if you serve upon us a written claim or demand and received by us or before..... i.e. the date of expiry of this bank guarantee.

The Bank Guarantee should be returned to us after the expiry date for cancellation purpose, even if the original guarantee is not returned, our liability on this guarantee ceased to exist.

Dated at at this Day of Dated: Place:

(Signature of authorized Officer of the Bank)

Witness (Name, Address & Signature) 1.

2.

FORMAT –VII Financial Bid

Name of the Bidder:

Supply and installation of IT Infrastructure Equipments at ICMR-NIIH, Mumbai

Bidder is required to fill the requirement of reagent

FOR PRICE BID EVALUATION :

Sr. No	Description	Qty	Total Amount
1	High Capacity Server (16Core, Ram 1TB)	1	
2	Medium Capacity Server (16 core, RAM 512 GB)	2	
3	Storage	1* 252 TB	
4	Switch	1*L3, 48 Port	
5	UPS	2* 10KVA	
6	KVM Monitor, Rack	1 each	
7	Firewall FW	2	
8	Keyboard & Mouse Combo	1 set	

Note :—Items which are required for smooth functioning of equipment and are not quoted or missed out by firm, shall have to be supplied free of cost for the entire period of installation.

I/We have gone through the Terms & Conditions as stipulated in the Tender enquiry document and confirm to accept and abide by the same.

No other charges would be payable by the Institute.

That I/We shall supply the items of requisite quality.

That I/We undertake that the information given in this tender are true and correct in all respects.

Signature Seal of the Manufacture/ Bidder

Place :

Date :

FORMAT -I

Inviting of sealed quotations for supply and installation of IT Infrastructure Equipments at
ICMR-NIIH, Mumbai.

TECHNICAL BID

Name of Firm /Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Contact No.	
Name and address of places/offices near where the contractor/firm has maintenance contractor.	
Whether the firm is a registered firm Yes/No (attested copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
GST no. enclose the attested copy of Service Tax Certificate)	
GST certificate (enclose the attached copy of GST Certificate)	
Whether the Firm/ Agency has signed each and every page of Tender/NIT	
Please provide full list of consumables	
Attach satisfactory functioning certificate from at least one hospital where machine of same specification was installed by the agency on reagent rental basis	

Attach Proof of fulfilling the norms of IS/ISO/CE Specification if any.	
Attach copy of dealership letter	
Attach license of import, if any	
Attach catalogue of item Quoted	
Any other information, if necessary	
Name of manufacturer of the machine	
Attach Specification	

Signature of Bidder
With seal of firm (Name of Bidder)

Place :

Date :

FORMAT -III

(To be submitted with technical bid)

Name of the Tender: IT Infrastructure Equipments at ICMR-NIIH, Mumbai.

UNDERTAKING

FOR COMPLIANCE OF ALL TERMS & CONDITIONS MENTIONED IN THIS TENDER DOCUMENT.

To,
The Director,
ICMR-NIIH,
Mumbai.

Sir/Madam,

1. The undersigned certify that I/we have gone through the entire tender documents including terms and conditions mentioned in the tender document and undertake to comply with them. I have no objection for any of the content of the tender document and I undertake not to submit any complaint/ representation against the tender document after the time of the tender. The rates quoted by me/us are valid and binding on me/us for acceptance till the validity of tender.
2. I/We undersigned hereby bind myself/ourselves to ICMR-NIIH, Mumbai to supply the approved awarded Equipment/Instruments/Apparatus/items in the approved prices to ICMR-NIIH, Mumbai.
3. The articles shall be of the best quality and of the kind as per the requirement of the institution. The decision of the Director, ICMR-NIIH, Mumbai (herein after called the said officer) as regard to the quality and kind of article shall be final and binding on me/us.
4. I/We undertake to arrange for a demonstration of the Equipment, if required. Failure to arrange for a demonstration on the given date may lead to cancellation of our bid. Cost of such demonstration shall be borne by me/us.
5. The successful Bidder will be liable to deposit Performance Bank Guarantee (PBG) @ 10% of Order Value as per prescribed format at Annexure – ‘D’ in favour of “Director NIIH, Mumbai after award of the contract from a Nationalized / Commercial Bank and shall remain in the custody of the Director, ICMR-NIIH, Mumbai till the validity of the warranty
6. If it is deemed necessary to change any article on being found of inferior quality, it shall be replaced by me/us free of cost in time to prevent inconvenience.
7. I/We hereby undertake to supply the items during the validity of tender as per Directions given in supply order within stipulated period positively.
8. If I/We fail to supply the stores in stipulated period the ICMR-NIIH, Mumbai has full power to compound or forfeit the Bid Security/security deposit.
9. I/We declare that no legal/financial irregularities are pending against the proprietor Partner/Director of the tendering firm or manufacturer.
10. We undertake to supply the ordered items within stipulated period and if fail to supply during the stipulated period the necessary action can be taken by the Director, ICMR-NIIH, Mumbai, India.
11. I/We undertake that if the rates of any items are lowered due to any reason, I will charge the lower rates.
12. I/We undertake that the items supplied are as per Make/Model/Catalogue/technical literature description.
13. I/We undertake to supply the all Literature (Log Book/ Maintenance Record/ Troubleshooting / Operation Manuals etc.) Supplied with each Equipment by Principal Manufacturer in Original to

ICMR-NIIH, Mumbai.

14. I/we do hereby confirm that the prices/rates quoted are fixed and are at par with the prices quoted by me/us to any other Govt. of India/Govt. Hospitals/Medical Institutions/PSUs. I/we also offer to supply the Reagents at the prices and rates not exceeding those mentioned in the Financial Bid.
15. I/we have necessary infrastructure for the maintenance of the equipment and will provide all accessories/spares as and when required during warranty period.
16. I/we undertake to get the Equipment repaired within 48 hours of the receiving of the complaint from the ICMR-NIIH, Mumbai failing which a penalty at the rate of 1,000/-per day from pending bill/Bank Guarantee before releasing the same to us after 24 (Twenty-four) months.
17. On successful completion of the rental contract period of one year and after honoring all the T & C in true spirit, the ownership of at least one equipment will be transferred in the name of ICMR-NIIH, Mumbai.
18. I pledge and solemnly affirm that the information submitted in tender documents is true to the best of my knowledge and belief. I further pledge and solemnly affirm that nothing has been concealed by me and if anything adverse comes to the notice of purchaser during the validity of tender period The Director, ICMR-NIIH, Mumbai will have full authority to take appropriate action as he/she may deem fit.

Signature of Bidder

With seal of firm (Name of Bidder)

Place :

Date :

Annexure F

WARRANTY CERTIFICATE

We Warrant that everything to be supplied by us hereunder shall be brand new, free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered shall be in full conformity with the specification, drawing, or samples and operate properly. We shall be fully responsible for its efficient operation. This Warranty shall survive inspection of any payment and acceptance of the goods but shall expire after (except in respect of complaints of which the contractor has been notified prior to such date) 36 months Comprehensive warranty after their successful installation, commissioning and acceptance by NIIH, Mumbai.

The obligations under the Warranty expressed above shall include all costs relating to labour, spares, maintenance (preventive and unscheduled) and transport charges from site to the manufacturers work and back and free repair/adjustment or replacement at site or any parts of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to conform to the specifications previously given by the NIIH, Mumbai to the vendor.

We also accept the non comprehensive warranty (AMC) for a period of 24 months after the expiry of comprehensive warranty for 36 months on free of cost basis.

Signature & seal of bidder Note: It should be provided on the letter head of the firm /
company.

Annexure G Undertaking

1. I undersigned certifies that I have gone through the Terms & conditions mentioned in the tender document including annexure and undertake to comply with them. The rates quoted by me/us are valid and binding on me/us for acceptance for the period of one year from date of opening of tender.
2. It is certified that rate quoted are the lowest quoted for any organization/Hospital in India.
3. Earnest money deposited by me/us viz Rs. in the form of Demand Draft /Banker's Cheque in favour of Director ICMR-National Institute Immunohaematology, Mumbai is attached herewith and shall remain in custody of the Director, ICMR-National Institute of Immunohaematology, New Mumbai as per terms and conditions.
4. I/We give the rights to Director, ICMR-National Institute of Immunohaematology, Mumbai to forfeit the EMD deposited by me/us if any delay occur on my/agent's part or fails to supply the article at the appointed place and time and of the desired specification.
5. There is no vigilance/CBI case or court case pending against the firm/supplier.
6. That the firm/company is not blacklisted by any organization.
7. On Inspection if any article is found not as per supply order, it shall be replaced by me/us in time as asked for, to prevent any inconvenience at my /our own expenses.
8. I/we hereby undertake to supply the items as per specifications and directions given in supply order within the stipulated period.
9. I/we undertake in case down time of the equipment is more than 3 working days, the period of warranty /CMC/AMC shall be extended by two time of the total breakdown period unless stand by arrangements are made. Also undertake to supply all spares for optimal up keep of equipment for atleast 10 years after handing over the unit to the institute.
10. I/we undertake to provide guarantee/warranty/ AMC/CMC as mentioned in specifications for ten years from the date of satisfactory installation and inspection. I also undertake that I will maintain the equipment during this period and replace the defected parts free of cost, if necessary.
11. I/we understand that Director, ICMR-National Institute of Immunohaematology, Mumbai has the right to accept or reject any or all the tenders without assigning any reasons (s) thereof.

Name, Signature & Address of the tenderer with rubber stamp

Note: Undertaking can be submitted by the authorized distributor for imported products
if there is no marketing office of principal companies in India.