SHRI SAIBABA SANSTHAN TRUST SHIRDI

Information Technology Department

Tender document for

Purchase of Servers, Apple Macbook and Software

INFORMATION TECHNOLOGY DEPARTMENT
Shirdi Tal Rahata Dist. Ahmednagar.
Phone No. (02423)-258953
Website: - www.sai.org.in email- it@sai.org.in

SHRI SAIBABA SANSTHAN TRUST
INFORMATION TECHNOLOGY DEPARTMENT
Shirdi, Tal. Rahata, Dist. Ahmednagar.
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Purchase of Servers, Apple Macbookpro and Software

Online tenders are invited for the purchase of Servers, Apple Macbookpro and Software from authorized dealers. The tender details will be available on https://mahatenders.gov.in for downloading &the tender has view only access on the website of Trustwww.sai.org.in under tender menu.

Technical Specifications are given in Annexure B.

1.0 Time Table for online tender submission

Online Tender Publish Date	Dt. 14-Jan-2019 Time- 11.00 am
Online Documents Download/Sales Start	Dt. 14-Jan-2019 Time- 11.00 am
Online Documents Download/Sales End	Dt. 28-Jan-2019 Time- 17.00 Pm
Online Bid Submission Start Date	Dt. 14-Jan-2019 Time- 11.00 am
Online Bid Submission End Date	Dt. 28-Jan-2019 Time- 17.00 pm
Pre Bidding Meeting	Dt. 18-Jan-2019 Time- 11.00 am
Online Technical Bid Opening Date	Dt. 30-Jan-2019 Time- 11.00 am

Prebid Meeting.
Pre bid meeting will be held at Meeting hall of Trust. For any of the queries, interested bidder would call 02423-258953 or mail the queries to it@sai.org.in

Validity Period:
The offer of the bidder shall remain valid for acceptance for a minimum period of 12**0 days** from the date of opening of Commercial Bid.

2.0 Earnest Money Deposit and Tender Cost:

a) Earnest Money Deposit (EMD) of Rs:1,10,000 (One lakh Ten thousand only)
b) Tender Fees Rs:11,000 (Eleven Thousands only)

Amount of EMD & Tender Fees must transferred online to Sansthan Bank Account. While uploading the e-tender from www.mahatenders.gov.in.

Note:

1. The amount of EMD to all bidders will refunded back after issuing order to L1 bidder.
2. Even though the tenderers meet the requirements, they are subject to be disqualify if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements.

3.0 TENDERING PROCEDURE.

Qualification Criteria.

1) Bidder should be the Original Equipment Manufacturer/Authorized dealer of the original equipment manufacturer of Servers.

2) The Original Equipment Manufacturer whose company are being biding in this tender should have authorized service center in Maharashtra.

3) Central / State Government or government corporation, statutory Institute, should not blacklist the bidder.

4) Average annual turnover of bidder for last three financial years should be more One crore (2015-16, 2016-17,2017-18). CA certificate is must.

3.1 Technical Bid

Technical BID must submitted online only.
Scanned copy of following documents must uploaded as Technical-bid.
(Note: Only 6 documents are allowed to upload, so scan the documents as
given in list, scan document in minimum DPI, file size must be in KB)

1. Certificate of firm registration, GST Registration and PAN.

2. CA certificate mentioning Average Annual Turnover for last three financial years (FY - 2015-16, 2016-17, 2017-18).

3. Authorized dealer Documents/Letter from Company.

4. Letter stating that Central / State Government or government corporation, statutory Institute, does not blacklist Firm/Company.

5. Server White papers/ Pamphlets/ Brochure for which you have quoted (Model number and specification).

6. Supplied hardware material should not be declared end of life in the next 5 years. Bidder need to submit a letter from OEM along with the quote.

7. Letter on company/Firm letter head Stating that "Company/Firm have read all terms and conditions and agree with them"

8. Bidder should fill and upload the Annexure C and D.

9. Bidder should be available in person to review the technical documents / specifications on the date specified in Time table.

3.2 Commercial Bid
   * Price of all items should be exclusive of Tax.
    * In future if there is change in GST then it will be make applicable from the date of notification.
   * The tenderer should quote online in BOQ provided.

3.3 Acceptance of Tender:

1. The commercial bid of technically qualified bidders, shall only opened online and lowest offer of the technically qualified bidder shall be accepted. The acceptance of tender will be communicated to the contractor by email or otherwise.

2. The quoted amount in online tender shall be valid for 120days (Four Months) from the date of opening of the tenders.

3.4 Scope of Work.

- Supply, installation, testing and commencement of supplied materials both hardware and software along with integration with storage, switches, firewall, router, network racks, power, PAC units, PDU, battery/UPS etc., for the commencement of servers as per SSST expectations.
- Provide product/SOP documentation and training to SSST.
- Timely support services for the supplied material as the scope of services mentioned in Tender document.

3.5 Warranty Period.

1. Warranty Period will be 5 years.
2. The successful bidder should provide 24X7 supports within warranty period.
3. Successful bidder should help our representative to log the call with respective company.
4. Warranty period for each item is mention in annexure bidder/tenderer must give Onsite Comprehensive Maintenance Warranty.
5. Within Warranty period if any Server, goes down it shouldmade operational within 6 hours. Failing to such case, replacement should be given till it is repaired. In case of software, it should replace.

4. Payments, Penalty and Security Deposit:

1) For Software

100% of payment after supply and Installation of all ordered Software.

2) For Hardware

80% of payment after supply and successful Installation and inspection of all ordered material.

3) 20% amount will be kept as Security Deposit. This amount will refunded equally in five years (4% each at the end of year).

4) If Bidder/Supplier fails to repair the Server within stipulated period, Rs.5000/day will deducted from Security Deposit.

5. Terms and Conditions.

1. Software registration should be done in the name of 'Chief Executive Officer, Shri Saibaba Sansthan Trust, Shirdi'.

2. The decision of Chief executive officer, Shri Saibaba Sansthan Trust, Shirdi will be final and binding incase of any dispute between Trust and the bidder.

3. The bidder should study all the tender documents carefully and understand the tender contract conditions, specifications etc. before quoting online. If there are any doubts, they should get clarifications in writing but this shall not be a justification for submission of late tender or extension of submission date.

4. Each of the tender documents uploaded in technical bid is required to sign by the person/persons submitting the tender.

5. Chief executive officer, Shri Saibaba Sansthan Trust reserves the rights to Accept / Reject Partial / Full Tender.

6.Delivery Schedule

1. Successful bidder should supply the material within six weeks after receiving the confirm order.

2. Installation of Servers must be completed within 15 days of delivering material.

3. Delivery of material to be done at IT Department, Shri Saibaba Sansthan Trust, Shirdi on working day between 10 am to 6 pm.

4. Transport, freight and other charges will be responsibility of supplier.

5. If ordered material not supplied within stipulated time then 0.5% cost of undelivered material will deducted per week from security deposit up to max 10%.

6. If successful bidder refuses to deliver the allotted items or fails to deliver, the material his EMD will forfeited.

7. No interest will be paid EMD/security deposit.

(Smt Rubal Agarwal I.A.S.)
Chief Executive Officer
Shri Saibaba Sansthan Trust Shirdi

Personal & Bank Details for RTGS
All columns are mandatory
(Submit on Company Letter Head)

Sr No	Personal Detail	
1	Name of the Firm	
2	Address	
4	Contact Person and Cell No	
5	GST umber	
6	Bank Details – Name of the Bank	
	Bank City	
	Branch Name and Code	
	Account Type	
	Account Number	
	IFSC CODE	
	MICR NO.	
7	Stamp and Signature of the agency	

ANNEXURE- B

A] Blade Server Qty 6 (Make: Dell/HP/Cisco)

Item Details	Technical Specification	Qty
Blade	Half height server	
Processor	Intel Xeon Gold 6130 2.1 Ghz 16 cores/32 Threads, 10.4 GT/s, 22 M cache support DDR4-2666 MHz Memory or better	2
Memory	512 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 16 slots out of 24)	1
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot	1
Internal Storage (HDD)	240 GB or higher SSD drives in RAID 1 for OS Boot	2
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE	2
System Management	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.	

B] Blade Server Qty 4(Make: Dell/HP/Cisco)

Item Details	Technical Specification	Qty
Blade	Half height server	
Processor	Intel Xeon Gold 5122 3.6 Ghz 4 cores/8 Threads, 10.4 GT/s, 16.5 M cache support DDR4-2666 MHz Memory or better	2
Memory	128 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 4 slots out of 24)	1
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot	1
Internal Storage (HDD)	240 GB or higher SSD drives in RAID 1 for OS Boot	2
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE	2
System Management	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.	

C] Blade Server Qty 01(Make: Dell/HP/Cisco)

Item Details	Technical Specification	Qty
Blade	Half height server	
Processor	Intel Xeon Gold 5122 3.6 Ghz 4 cores/8 Threads, 10.4 GT/s, 16.5 M cache support DDR4-2666 MHz Memory or better	1
Memory	128 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 4 slots out of 24)	1
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot	1
Internal Storage (HDD)	240GB or higher SSD drives in RAID 1 for OS Boot	2
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE	2
System Management	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.	

D] Blade Chassis Qty 01(Make: Dell/HP/Cisco)

Physical, power & Cooling specs	10/11U form factor chassis (max)	
	Should support upto 14 or more half height blade servers or 7 or more full height servers for higher configuration servers	
	Should have redundant variable speed cooling fans for optimum cooling	
	Should have redundant power supplies with support for N+N or N+1 configuration for optimum power consumption	
Chassis Management	Should have redundant chassis management controllers	
	Should have interactive front panel LCD	
	Should have Secure (SSL/TLS) web management console	
	Chassis management software should have real time data on power, cooling & fault management	
	Should have provision to configure alerts related to faults	
	Should have options to configure power & cooling	
	Management software should be SSO enabled to manage the blades & Interconnect modules	
	Should have RBAC for performing various configuration and management functions on the Chassis & blade hardware's	
	Should be able to configure server profiles for ease of server configuration & management	
Interconnect	Should support 1/10 G Ethernet Switches for connectivity to server	
	Should support 8/16 G FC Switches to connect to server HBA	
	Should support Infinitband	
	should support upto 40G uplinks	
	Should support Fabric Interconnects for Converged IO (iSCSI, FCOE)	
	Should support min 3+3 Interconnect modules	
Blade Chassis Interconnect Modules	Fabric Interconnect Switches with 4/8 ports supporting 20/25/40G speeds	2

E] SAN Storage Qty 01(Make: Dell/HP/EMC)

Controllers	Dual Redundant controllers with 4 x 16 Gbps FC ports/controllers. Both controller ports to be fully populated with multimode SFP+ along with 5 mts Multimode Patch cords
Storage	Usable 20TB in RAID 1+0
	Usable 50TB in RAID 6
Hot Spares	min 4 global hotspares
HDDs	12Gbps 15K rpm SAS drives. No SATA or NL-SAS drives to be included in configuration.
Storage Management	Storage Management software (Web based/client)
Licenses	Should be able to connect upto 16 hosts. Auto tiering with custom configurations. Thin Provisioning
Power Supplies	Dual redundant power supplies. Power cables to be supplied supporting C13.

F] SAN Switches Qty 02 (Make: Brocade)

Sn	Technical Specification	Qty
1	FC 16 Gbps 32 port Switches with 12 ports populated with SFP+ & licensed	
2	Multimode FC patch 5 meters	24
3	Dual redundant power supplies. Power cables to be supplied supporting C13.	

G] Server Farm Switch Qty 02 (Make : Cisco)

TECHNICAL SPECIFICATION OF SERVER FARM SWITCH
Switch shall have minimum 48*10G SFP+ ports and populated with 24x10GbE SFP+ and 4 QSFP+ 5 m DAC or equivalent
Should have Dual Redundant Power Supplies
Should have Hot swappable Fans
Should have one 10/100/1000 Mbps Management Port
Shall be provided with all accessories
Shall be loaded with Latest operating system
Should have on RS-232 serial Console port
should have one USB port
Should support both Forward and reverse airflow
Shall have System Memory of 4GB and Boot Flash of 1GB
Switches should be compatible with SR/LR/ER/ZR or equivalent transceivers
Performance:
Shall have 1.4Tbps switching Capacity
Shall have forwarding rate of up to 1 bpps
Shall support Line-rate traffic throughput (both Layer 2 and 3) on all ports
Shall have Configurable maximum transmission units (MTUs) of up to 9216 bytes (jumbo frames)
Shall have more than 160K mac addresses
Shall support 4000 multicast routes
Shall have 4000 Vlans
Shall support RSTP (IEEE 802.1w standard) and 64 MSTP instances
Shall Support 1000 egress and 1000 ingress acl Entries
Shall support ether channels (with VPC)/ Equivalent technology
Shall support VXLAN with EVPN
Layer 2 Features:
Shall Support Comprehensive Layer 2 feature set: VLAN, IEEE 802.1Q Trunking, Link Aggregation Control Protocol (LACP), Rapid Spanning Tree Protocol (RSTP), spanning-tree guards
Security Features
Shall Support Authentication, authorization, and accounting (AAA); access control lists (ACLs), Dynamic Host Configuration Protocol (DHCP) snooping, storm control, private VLAN (PVLAN), and configurable Control-Plane Policing (CoPP)
Layer 3 Features:

Shall Support Layer 3 IP routing: inter-VLAN routing (IVR), static routes, RIP, ACLs, OSPFv2/v3, Virtual Router Redundancy Protocol (VRRP).
Shall support Multicast: PIM SM, SSM, and MSDP
Management Features:
Should support SNMPv1/v2/v3 and TACACS/RADIUS.
Environmental Conditions
Operating temperature shall be 32 to 104°F (0 to 40°C)
Storage Temperature Shall be -40 to 158°F (-40 to 70°C)
Regulatory Compliance:
Products should comply with CE Markings per directives 2004/108/EC and 2006/95/EC or equivalent
Should Conform UL 60950-1 Second Edition, EN 60950-1 Second Edition ,IEC 60950-1 Second Edition or equivalent
Switch should Be EAL3/NDPP Certified from day 1
Warranty and Support:
Support: 5 years next business day Warranty & Support for hardware & Software with troubleshooting assistance, SLA directly from the OEM. The Switch should be capable of migrating the Licenses & Software to latest hardware

H]Software

Srno	Description of Requirement	Qty
1	VMWare vShpere Enterprise Plus - With 5 year Production Support Subscription	12
2	VmWare Vcenter Standard - With 5 year Production Support Subscription	1
3	RedHat Enterprise Linux - Premium Support Subscription 5 years.	6
4	RedHat Enterprise Linux - Standard Support Subscription 5 years.	5

I] Server Rack Qty 02(Make APC, HP, Liebert)

1	Equipment cabinets to store computer, data storage and networking equipment in the data centers, computer rooms and equipment rooms. Each cabinet shall be designed to provide a secure, managed environment for server and networking equipment. Cabinets shall be designed to accommodate power and cable management accessories that keep network and power cables separate and organized
2	Cabinet configurations are 42U minimum of 600mm Wide 1070mm Deep for Server.
3	The 42U unit shall have exterior maximum height to allow passage through a standard 2100 mm or 7 ft doorway without tipping.
4	The 42U unit shall support a static load (weight supported by the casters and levelling feet) of at least 1,364 kg. (3,000 lb) total installed equipment weight.
5	The unit shall support a rolling load (rolling on the casters) of at least 750 kg
6	The unit shall ship with a perforated front door, perforated split rear doors, Four (4) half-height side panels, tool less roof, Two (2) vertical frame posts, Four (4) adjustable vertical mounting rails, Minimum of two (2) and maximum of four (4) vertical PDU mount cable organizers, Four (4) levelling feet and four (4) casters, baying and grounding hardware pre-installed by the manufacturer
7	All weight bearing components shall constructed from steel with a thickness no less than 1.5mm (16 gauge).

8	All sheet metal parts shall be be painted using a powder coat paint process of RAL 9005 color and frame structure should be nano coated, electro-dipcoat primed.
9	Plastic materials shall meet or exceed Underwriters Laboratory's UL94 standard HB rating
10	All interior components of the cabinets shall not have electroplated zinc coating to minimize zinc whiskers near active equipment.
11	The unit shall provide 42U of equipment vertical mounting space
12	The vertical mounting rails shall be easily adjustable to allow different mounting depths. Vertical mounting rail shall be marked on both sides with lines showing the top and bottom of each U and the number U space next to the middle hole. Each U consists of three-square holes and is 1.75 inches (44.45 mm) high.
13	The unit shall include M6 caged nuts / bolts and cup washers / GI washer / captive nuts and caged nut tool for the mounting of equipment inside the unit
14	Both the front and rear doors shall be designed with lift-off hinges allowing for quick and easy detachment
15	The front and rear doors shall open a minimum of 120 degrees to allow easy access to the interior
16	The front door of the unit shall be reversible so that it can be mounted on either side
17	Split rear doors are provided for increased service clearance
18	Rack PDU 2 G , Metered , Zero U , 32A , 230V, (36) c13 & (6) C19 – Each Rack – used 2 No's of PDU's
19	Environmental Monitoring device Unit to Monitor temperature and humidity temperature and Humidity monitoring probes shall have SNMP capability (Get / Set) and made available on TCP/IP for each rack
20	**Warranty and Support** Installation, Documentation and Support: 5 years next business day Warranty & Support for Rack PDU 2G

J] Apple MacBookpro Qty 03

Sn	Specification of Mac Book Pro
1	Apple Mac Bookpro 15" Touch Bar quad-core i7 2.9GHz / 512 GB SSD Storage / 16 GB Ram / 4GB Graphics Radeon Pro 560 Space/ Grey / Silver

K] Design Software for Apple MacBookpro Qty 03 each

Sn	Specification of Software
1	Adobe Photoshop - Latest Version
2	Adobe Illustrator - Latest Version
3	Adobe XD
4	Sketch - Latest Version

ANNEXURE- C
Compliance Sheet
(To be filled by bidder on letter head and submit with technical Bid)

A] Blade Server Qty 6

Item Details	Technical Specification	Compliance (Yes/No)	Variation (in any)
Blade	Half height server		
Processor	Intel Xeon Gold 6130 2.1 Ghz 16 cores/32 Threads, 10.4 GT/s, 22 M cache support DDR4-2666 MHz Memory or better		
Memory	512 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 16 slots out of 24)		
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot		
Internal Storage (HDD)	240 GB or higher SSD drives in RAID 1 for OS Boot		
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE		
System Management	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.		

B] Blade Server Qty 4

Item Details	Technical Specification	Compliance (Yes/No)	Variation (in any)
Blade	Half height server		
Processor	Intel Xeon Gold 5122 3.6 Ghz 4 cores/8 Threads, 10.4 GT/s, 16.5 M cache support DDR4-2666 MHz Memory or better		
Memory	128 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 4 slots out of 24)		
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot		
Internal Storage (HDD)	240 GB or higher SSD drives in RAID 1 for OS Boot		
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE		
System Managemen t	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.		

C] Blade Server Qty 01

Item Details	Technical Specification	Compliance (Yes/No)	Variation (in any)
Blade	Half height server		
Processor	Intel Xeon Gold 5122 3.6 Ghz 4 cores/8 Threads, 10.4 GT/s, 16.5 M cache support DDR4-2666 MHz Memory or better		
Memory	128 GB DDR4-2666 MHz (32GB DDR4 RAM modules in each slot for 4 slots out of 24)		
RAID Controller	SAS RAID Controller supporting 0,1,5 RAID configurations for OS boot		
Internal Storage (HDD)	240GB or higher SSD drives in RAID 1 for OS Boot		
Network & Storage Connectivity	dual/quad port CNA with 20/25/40G ports for Ethernet, iSCSI or FCOE		
System Management	On board Embedded Systems Management port with web based GUI for server management & configuration. Should include licenses for remote GUI console, virtual media mapping & other such enterprise features.		

D] Blade Chassis Qty 01

Item Details	Technical Specification	Compliance (Yes/No)	Variation (in any)
Physical, power & Cooling specs	10/11U form factor chassis (max)		
	Should support up to 14 or more half height blade servers or 7 or more full height servers for higher configuration servers		
	Should have redundant variable speed cooling fans for optimum cooling		
	Should have redundant power supplies with support for N+N or N+1 configuration for optimum power consumption		
Chassis Management	Should have redundant chassis management controllers		
	Should have interactive front panel LCD		
	Should have Secure (SSL/TLS) web management console		
	Chassis management software should have real time data on power, cooling & fault management		
	Should have provision to configure alerts related to faults		
	Should have options to configure power & cooling		
	Management software should be SSO enabled to manage the blades & Interconnect modules		
	Should have RBAC for performing various configuration and management functions on the Chassis & blade hardware's		

Item Details	Technical Specification		
	Should be able to configure server profiles for ease of server configuration & management		
Interconnect	Should support 1/10 G Ethernet Switches for connectivity to server		
	Should support 8/16 G FC Switches to connect to server HBA		
	Should support Infinitband		
	should support upto 40G uplinks		
	Should support Fabric Interconnects for Converged IO (iSCSI, FCOE)		
	Should support min 3+3 Interconnect modules		
Blade Chassis Interconnect Modules	Fabric Interconnect Switches with 4/8 ports supporting 20/25/40G speeds	2	

E] SAN Storage Qty 01

Item Details	Technical Specification	Compliance (Yes/No)	Variation (in any)
Controllers	Dual Redundant controllers with 4 x 16 Gbps FC ports/controllers. Both controller ports to be fully populated with multimode SFP+ along with 5 mts Multimode Patch cords		
Storage	Usable 20TB in RAID 1+0		
	Usable 50TB in RAID 6		
Hot Spares	min 4 global hotspares		
HDDs	12Gbps 15K rpm SAS drives. No SATA or NL-SAS drives to be included in configuration.		
Storage Management	Storage Management software (Web based/client)		
Licenses	Should be able to connect upto 16 hosts. Auto tiering with custom configurations. Thin Provisioning		
Power Supplies	Dual redundant power supplies. Power cables to be supplied supporting C13.		

F] SAN Switches Qty 02

Sn	Technical Specification	Compliance (Yes/No)	Variation (in any)
1	FC 16 Gbps 32 port Switches with 12 ports populated with SFP+ & licensed		
2	Multimode FC patch 5 meters		
3	Dual redundant power supplies. Power cables to be supplied supporting C13.		

G] Server Farm Switch Qty 02

Sn	Technical Specification	Compliance (Yes/No)	Variation (in any)
1	Switch shall have minimum 48*10G SFP+ ports and populated with 24x10GbE SFP+ and 4 QSFP+ 5 m DAC or equivalent		
	Should have Dual Redundant Power Supplies		
	Should have Hot swappable Fans		

	Should have one 10/100/1000 Mbps Management Port		
	Shall be provided with all accessories		
	Shall be loaded with Latest operating system		
	Should have on RS-232 serial Console port		
	should have one USB port		
	Should support both Forward and reverse airflow		
	Shall have System Memory of 4GB and Boot Flash of 1GB		
	Switches should be compatible with SR/LR/ER/ZR or equivalent transceivers		
Performance:			
	Shall have 1.4Tbps switching Capacity		
	Shall have forwarding rate of up to 1 bpps		
	Shall support Line-rate traffic throughput (both Layer 2 and 3) on all ports		
	Shall have Configurable maximum transmission units (MTUs) of up to 9216 bytes (jumbo frames)		
	Shall have more than 160K mac addresses		
	Shall support 4000 multicast routes		
	Shall have 4000 Vlans		
	Shall support RSTP (IEEE 802.1w standard) and 64 MSTP instances		
	Shall Support 1000 egress and 1000 ingress acl Entries		
	Shall support ether channels (with VPC)/ Equivalent technology		
	Shall support VXLAN with EVPN		
Layer 2 Features:			
	Shall Support Comprehensive Layer 2 feature set: VLAN, IEEE 802.1Q Trunking, Link Aggregation Control Protocol (LACP), Rapid Spanning Tree Protocol (RSTP), spanning-tree guards		
Security Features			
	Shall Support Authentication, authorization, and accounting (AAA); access control lists (ACLs), Dynamic Host Configuration Protocol (DHCP) snooping, storm control, private VLAN (PVLAN), and configurable Control-Plane Policing (CoPP)		
Layer 3 Features:			
	Shall Support Layer 3 IP routing: inter-VLAN routing (IVR), static routes, RIP, ACLs, OSPFv2/v3, Virtual Router Redundancy Protocol (VRRP).		
	Shall support Multicast: PIM SM, SSM, and MSDP		
Management Features:			
	Should support SNMPv1/v2/v3 and TACACS/RADIUS.		
	Enviromental Conditions		
	Operating temperature shall be 32 to 104°F (0 to 40°C)		
	Storage Temperature Shall be -40 to 158°F (-40 to 70°C)		

	Regulatory Compliance:		
	Products should comply with CE Markings per directives 2004/108/EC and 2006/95/EC or equivalent		
	Should Conform UL 60950-1 Second Edition, EN 60950-1 Second Edition ,IEC 60950-1 Second Edition or equivalent		
	Switch should Be EAL3/NDPP Certified from day 1		
	Warranty and Support:		
	Support: 5 years next business day Warranty & Support for hardware & Software with troubleshooting assistance, SLA directly from the OEM. The Switch should be capable of migrating the Licenses & Software to latest hardware		

H] Software

Sr. no	Description of Requirement	Compliance (Yes/No)	Variation (in any)
1	VMWare vShpere Enterprise Plus - With 5 year Production Support Subscription		
2	VmWare Vcenter Standard - With 5 year Production Support Subscription		
3	RedHat Enterprise Linux - Premium Support Subscription 5 years.		
4	RedHat Enterprise Linux - Standard Support Subscription 5 years.		

I] Server Rack Qty 02

Sn	Technical Specification	Compliance (Yes/No)	Variation (in any)
1	Equipment cabinets to store computer, data storage and networking equipment in the data centers, computer rooms and equipment rooms. Each cabinet shall designed to provide a secure, managed environment for server and networking equipment. Cabinets shall be designed to accommodate power and cable management accessories that keep network and power cables separate and organized		
2	Cabinet configurations are 42U minimum of 600mm Wide 1070mm Deep for Server.		
3	The 42U unit shall have exterior maximum height to allow passage through a standard 2100 mm or 7 ft doorway without tipping.		
4	The 42U unit shall support a static load (weight supported by the casters and levelling feet) of at least 1,364 kg. (3,000 lb) total installed equipment weight.		
5	The unit shall support a rolling load (rolling on the casters) of at least 750 kg		
6	The unit shall ship with a perforated front door, perforated split rear doors, Four (4) half-height side panels, tool less roof, Two (2) vertical frame posts, Four (4) adjustable vertical mounting rails, Minimum of two (2) and maximum of four (4) vertical PDU mount cable organizers, Four (4) levelling feet and four (4) casters, baying and grounding hardware pre-installed by the manufacturer		
7	All weight bearing components shall constructed from steel with a thickness no less than 1.5mm (16 gauge).		

		Compliance (Yes/No)	Variation (in any)
8	All sheet metal parts shall be painted using a powder coat paint process of RAL 9005 color and frame structure should be nano coated, electro-dipcoat primed.		
9	Plastic materials shall meet or exceed Underwriters Laboratory's UL94 standard HB rating		
10	Interior components of the cabinets shall not have electroplated zinc coating to minimize zinc whiskers near active equipment.		
11	The unit shall provide 42U of equipment vertical mounting space		
12	The vertical mounting rails shall be easily adjustable to allow different mounting depths. Vertical mounting rail shall be marked on both sides with lines showing the top and bottom of each U and the number U space next to the middle hole. Each U consists of three-square holes and is 1.75 inches (44.45 mm) high.		
13	The unit shall include M6 caged nuts / bolts and cup washers / GI washer / captive nuts and caged nut tool for the mounting of equipment inside the unit		
14	Both the front and rear doors shall be designed with lift-off hinges allowing for quick and easy detachment		
15	The front and rear doors shall open a minimum of 120 degrees to allow easy access to the interior		
16	The front door of the unit shall be reversible so that it can be mounted on either side		
17	Split rear doors are provided for increased service clearance		
18	Rack PDU 2 G , Metered , Zero U , 32A , 230V, (36) c13 & (6) C19 – Each Rack – used 2 No's of PDU's		
19	Environmental Monitoring device Unit to Monitor temperature and humidity temperature and Humidity monitoring probes shall have SNMP capability (Get / Set) and made available on TCP/IP for each rack		
20	**Warranty and Support** Installation, Documentation and Support: 5 years next business day Warranty & Support for Rack PDU 2G		

J] Apple Mac Bookpro Qty 03

Sn	Specification of Mac Book Pro	Compliance (Yes/No)	Variation (in any)
1	Apple Mac Bookpro 15" Touch Bar quad-core i7 2.9GHz / 512 GB SSD Storage / 16 GB Ram / 4GB Graphics Radeon Pro 560 Space/ Grey / Silver		

K] Design Software for Apple MacBookpro

Sn	Specification of Software	Compliance (Yes/No)	Variation (in any)
1	Adobe Photoshop - Latest Version		
2	Adobe Illustrator - Latest Version		
3	Adobe XD		
4	Sketch - Latest Version		

Compliance Sheet for technical Document

Srno.	Tender Requirement.	Document uploaded in Online Bid.
1	PAN, Certificate of registration for GST, Company /Firm Registration	
2	Average turnover of bidder must be over 1 crore per annum in last three years (2015-16, 2016-17, 2017-18).). CA certificate is must.	
4	Letter stating that central / State Government or government corporation, statutory Institute, does not blacklist Firm/Company. (On letter head of Firm)	
5	Bidder should be the authorized dealer of the original equipment manufacturer of servers. (Authorization letter from company)	
6	Server White papers/ Pamphlets/ Boucher for which you have quoted (Model number and specification)	
7	The original Equipment Manufacturer whose company are being biding in this tender should have authorized service center in Maharashtra	
8	Letter stating that Firm/Company has read all terms& conditions, and agreed with them. (On letter head of Firm)	

BOQ format

Sn	Specification	Qty	Rate	Amount	GST Amount	Net Amount
1	Blade Server Technical specification as per tender document Annexure B [A]	6				
2	Blade Server Technical specification as per tender document Annexure B [B]	4				
3	Blade Server Technical specification as per tender document Annexure B [C]	1				
4	BladeChassis Technical specification as per tender document Annexure B [D]	1				
5	SAN storage Technical specification as per tender document Annexure B [E]	1				
6	SAN Switches Technical specification as per tender document Annexure B [F]	2				
7	SAN Farm switches Technical specification as per tender document Annexure B [G]	2				
8	Server Rack Technical specification as per tender document Annexure B [I]	2				
9	Software Software details as per tender document Annexure B [H] Srno 1 to 4	1				
10	Apple MacBook Pro Technical specification as per tender document Annexure B [J]	3				
11	Design Software for Apple Mac Bookpro Software details as per tender document Annexure B [K] Sr.no 1 to 4	1				

Note:-

1) Fill-up the Server, software Rates in BOQ provided online of Website www.mahatenders.gov.in

2) Technical and Commercial Bid to submitted online only. No physical Bid will accepted.

3) For Sr.no 1 to 9 consolidated amount will be considered for L1and for Sr.No 10, 11 separately.

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Approved

(Smt. Rubal Agarwal, I.A.S.)
Chief Executive Officer
Shri Saibaba Sansthan Trust, Shirdi

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