



**e-TENDER
FOR
SUPPLY, INSTALLATION, INTEGRATION, COMMINSING & TESTING
OF
IT INFRASTRUCTURE (ACTIVE/PASSIVE COMPONENTS)
With 5 years' Support.
AT
NEW EDUCATION COMPLEX,
SHRI SAIBABA SANSTHAN TRUST, SHIRDI.**

**INFORMATION TECHNOLOGY DEPARTMENT
SHRI SAIBABA SANSTHAN TRUST (SSST), SHIRDI,
Po. Shirdi, Tal. Rahata, Dist. Ahmednagar.
Phone No. (02423)-258953
Website: - www.sai.org.in email- it.office@sai.org.in**

**Issued By
The Chief Executive Officer,
Shri Saibaba Sansthan Trust, Shirdi.**



DETAILED TENDER NOTICE

SHRI SAIBABA SANSTHAN TRUST
Po. Shirdi, Tal. Rahata, Dist. Ahmednagar.
Phone No. (02423)-258953

Website: - www.sai.org.in email- it.office@sai.org.in

e-Tender

Supply, Installation, Integration, Commencing & Testing of IT Infrastructure (Active/Passive Components) at New Education Complex of Shri Saibaba Sansthan Trust, Shirdi.

Online tenders are invited for the Supply, Installation, Integration, Commencing & Testing of IT Infrastructure (Network Component) with 5 years' warranty & support. The tender details will be available on <https://mahatenders.gov.in> for downloading & uploading and the tender has view only access on the Sansthan's website www.sai.org.in under tender menu.

Technical Specifications of peripherals are given in **Annexure E**.

1.0 Time Table for online tender submission:

Online Tender Publish Date	19/09/2024 11:00 AM
Online Documents Download/Sales Start Date	19/09/2024 11:00 AM
Online Documents Download/Sales End Date	11/10/2024 17:00 AM
Pre Bid Meeting Date	25/09/2024 12:30 PM
Online Technical Bid Opening Date	15/10/2024 11:00 AM

1.1 Pre-Bid Meeting:

- Pre-bid meeting will be held on date & time as mentioned above in Time Table. Venue - Sai Meeting Hall, Shri Saibaba Sansthan Trust, Shirdi.
- The intending bidders should make it convenient to attend the pre-bid meeting and also visit the site to understand requirements properly. All enquiries from the bidders relating to this bid must be submitted to the email ID: it.office@sai.org.in. The queries should be submitted in the following excel format within 24 hrs. of completion of Pre-Bid Meeting.

Tender Document (Section & Page No.)	Tender Clause	Clarification Required

- The responses to the queries (clarifications / corrigendum) shall be made available on <https://mahatenders.gov.in>
- Contact Information
E-mail: it.offic@sai.org.in Phone No: 02423-258953/ 61

1.2 Validity Period:

The offer of the bidder shall remain valid for acceptance for a minimum period of **160 days** from the last date of tender submission.

1.3 SCOPE OF WORK

It may be a single party, which will work as the System Integrator who will coordinate with the SSST, its consultants and any sub-contractors to ensure the satisfactory completion of the work in time bound manner that will broadly include:

- Equipment Supply: Identifying and verifying all required equipment in project with respect to its specification, quality and required quantities.
- Site Preparation & Installation: Verify dimensions, electrical power requirements and site conditions as part of site preparation. Carryout implementation including all trenching, erection and fabrication (if required) work on the site.
- Supervision: Monitor installation and commissioning of all equipment and related cabling work in accordance with the system configuration finalized by the SSST. Arrange intermediate demonstrations upon the request of the SSST.
- Maintain: Keep the installed system in working condition at satisfactory performance level for tender tenure period.

The bidder should visit site and propose a network design. Also need to check the feasibility study and submit his findings along with the diagram. The diagram should be submitted in the technical proposal.

A: Detailed Scope of Work:

A-1 Description of Work:

i) General

The Supplier shall supply, deliver, install, configure, fine tune, test, document, commission, maintain and support a complete Information Technology Infrastructure and related accessories specified in this document.

The Contracted work shall be including but will not be restricted to the following principal items:

- Supply, delivery to site and installation of all hardware, software and networking equipment.
- Installation in accordance with given specifications and SSST requirements.
- Initial tests, written report, operational manual, and service manual as required.
- Provide on-going supervision and co-ordination of the on-site Installation and configuration to the PoC on behalf of SSST.
- Instruction of operation to the SSST's personnel.
- Complete and detailed documentation.
- Provision of samples, prototypes and shop drawing where applicable. Provided taken permission from SSST before any work to be executed.
- **60 Months warranty on the complete installation and equipment.**
- All customs duties, freight costs, patent royalties, etc. associated with supply and installation.
- Registration of all products of respective company website, with SSST official email id. All credentials to be shared with SSST IT team.

ii) Co-Ordination

The Supplier shall co-ordinate and co-operate with the SSST, site supervisor appointed by SSST.

iii) Project Management:

The Supplier shall provide project management services with the objective of meeting the following requirements: -

- Monitor and manage the schedule for delivery, installation, and configuration, fine Tuning, commissioning, acceptance and maintenance of the proposed system.
- Prepare daily installation, progress status and weekly status and progress report.

A-2. Obvious Works:

All material and equipment or any work which is obviously necessary for the satisfactory and efficient functioning of the installation shall be provided or carried out, even though such material or work may not be explicitly mentioned in the specification.

A-3 Documentation:

The documentation should cover following:

- Network diagram- overall network with IP scheme.
- Individual Networks-Main building LAN and remote LANS.
- Network Architecture diagram with all the routes define.
- Network test reports.
- Configuration details of all Switches, Firewall, Access point Controller.

A-4 Testing and Commissioning:

i) Installation Test Plan:

- The Supplier shall design, implement and perform installation plan for the overall systems to show that the systems are delivered and installed in good condition.
- Configuration of all the systems to ensure smooth functioning. Testing of the entire system to check the desired results.
- Testing of LAN.

ii) Maintenance:

- Maintenance of the Switches, Firewall Routers, Access point etc. & passive equipment supplied under this tender in the warranty Period.
- Reconfiguration of the equipment and the software (if required) as per the requirements in the warranty as well as the AMC period.

A-5 Knowledge Transfer:

The Supplier shall provide knowledge transfer session by a suitably qualified instructor to the personnel designated by the SSST. Session should cover all the parts like Network Architecture, Usage Policies, Maintenance and Troubleshooting, first level configuration of devices etc.

A-6 Defect Liability Period, Warranty Period:

All work and materials shall be guaranteed as to quality and workmanship and shall be guaranteed against all defects for a practical completion period of **60 months** from the date of Installation.

The Supplier shall provide **60 months** Warranty, (on-site) which includes comprehensive maintenance and support of the entire proposed system.

A single point contact for all maintenance calls shall be established. Routine preventive maintenance shall be scheduled and performed at least four times for one calendar year. This shall be applicable to all the systems covered under the warranty period as well as Comprehensive Maintenance Contract.

B: Requirement Specifications:**B-1 Site Preparation:**

The supplier shall assume responsibility for the overall installation of the proposed systems. The supplier shall acquaint themselves with the installation site in connection with the supply, delivery and maintenance of the proposed systems, including the storage of equipment prior to installation.

As regards conducting and trucking for cables include puncturing of holes through walls and floors, the supplier shall carry out such works with respective permission.

B-2 Installation:

Network:

- Cabling work within the premises and at the different sites.
- Installation of cabling components like Jack panels, I/O, Patch Cords etc., with proper identification. Installation of network racks with required accessories.
- Installation of network devices like Firewall, Switches, Wireless Access Points etc.
- Configuration of Switches and Firewall with necessary rights to end users for access of network resources.

B-3 Patch Cords and Cabling:

All the cabling should be laid through PVC Casing/Conduit and proper care should be taken while laying the cables. Patch cord & jack panel should be properly installed considering the requirement of repairs/modifications. The drawing and the cabling network should also be submitted & fiber splicing should be done at respective location.

C Functional Specifications:

C-1. General.

The Supplier shall ensure that the systems are seamlessly integrated to form one complete and integrated system. The criteria shall cover but not be limited to the followings:

- All equipment shall meet standard.
- The proposed system shall be scalable to include a future growth and technology.

C-2. Installation Requirements:

a) Power Supply:

UPS should be provided to protect the equipment from over and under voltage and surge / spikes.

b) Others:

The SSST Education Complex is spread across several buildings; Structured Cabling work has to be carried out at the all locations. It is expected that the bidder to design the entire network with suitable illustrative diagram. Any tender which is submitted without clarity on the designs is liable to be rejected.

2.0 Tender Cost, Earnest Money Deposit & Security Deposit:

- Tender Fees:** Rs: 17,000/- (Rs: Seventeen Thousand Only).
- Earnest Money Deposit (EMD):** Rs. : 1,70,000/- (Rs. : One Lakh Seventy Thousand Only).
- Security Deposit (SD):** Successful bidder has to deposit 3% amount of awarded cost as security deposit within 15 days from acceptance of Purchase Order. This amount will be refunded after warranty period.
- No interest will be paid on the EMD and Security Deposit.

Amount of EMD & Tender Fees must transfer online while uploading the e-tender from <https://mahatenders.gov.in>

Note:

1. The amount of EMD will be refunded back to all bidders (except L1 bidder) after issuing purchase order to L1 bidder.
2. L1 bidder's EMD amount will be refunded after receiving security deposit.
3. Even though the bidders meet the requirements, they are subject to be disqualified in case of misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements.

3.0 TENDERING PROCEDURE.

3.1 Qualification Criteria:

Bidders willing to participate in the tender must full fill the criteria given below.

Sn	Basic Requirement	Specific Requirements	Documents Required
1	Legal Entity	The bidder should be a Company registered under the Companies Act, 1956 / Proprietary Firm / Partnership Firm. The bidder should have been in the business of supply and building of IT Infrastructure for the last five years.	Certificates of incorporation with Registration Date. Registration Certificates, PAN copy & other necessary supporting documents
2	Product Authorization	The bidder should submit the valid letter from the OEMs confirming the followings: - Authorization from OEM for the quoted product. - Offered model should be brand new. End-of-Sale (EoS) announced model or model going to be EoS in next 6 months shouldn't be quoted. - Confirm that the products would be covered under comprehensive warranty for the contract period 5 years. Undertake that the support including spares, patches for the quoted products shall be available for entire contract period.	a) MAF for this tender (For Active Components) b) Undertaking from bidder stating the details.
3	Company Presence and Support offices in the State of Maharashtra.	The quoted Brand & OEM should have direct presence in India Market for at least 10 Years and Own L2 & L3 Tech Support & Repair Centres in Maharashtra. (Details should be shared)	- Proof of Presence Since 10 Years in India Market. - List of Service centre with address in Maharashtra
4	Product Uniqueness	Structured Cabling Solution should be from one single OEM/Brand to achieve optimum performance.	Switch and SFP should be from same OEM. Product White Papers should be provided.
5	Product Compliance	OEM / Switch / OS should have IEC or equivalent Indian Cyber Security compliance.	Attach Compliance Document
6	Average Sales Turnover in Hardware Sales & Maintenance services	Turnover in IT Sales/Infrastructure Project/Maintenance services Minimum of Rs. 50 Lakhs generated from IT Networking supply and associated maintenance services during last three Financial years i.e: FY 2021-22, 2022-23, and 2023-24.	Certificate from statutory auditor showing Turnover for said period.
7	Blacklisting	The bidder must not under blacklisted by any Department of State Government or Government of India.	A Self Certified letter by an authorized signatory. See Annexure C
8	Similar trunk key projects	Bidder must have successfully undertaken 02 Major IT Infrastructure/Networking supply and associated maintenance services during last three years FY 2021-22, 2022-23, and FY 2023-24.	Copy of Work order with values and Completion Certificate with client seal and signature.
9	Network Understanding	Bidder should know the network requirement of SSST.	Provide suitable diagrams prepared for proposed network Solution
10	Capability statement.	The bidder should have proper knowledge and expertise of handling such Jobs.	Capability statement format is given in Annexure F.
11	Document Compliance Sheet	Annexure B with file name and page number must be uploaded along with technical bid.	Upload updated Annexure B
12	Technical Compliance Sheet	Annexure E "Compliance Yes/No" should be filled	Upload updated Annexure E

3.2 Technical Bid:

Technical BID must submit online only.

Scanned copy of all documents mentioned in 3.1-Qualification Criteria, "Documents Required" column must uploaded as Technical-bid.

3.3 Commercial Bid:

1. The Bidder should quote his offer online in BOQ provided. The bid should have validity of 120 days from the last date of bid submission.

2. Rates of all items should be inclusive of all taxes.
3. GST Rate applicable should be mentioned separately in separate column. BoQ format for information is attached as **Annexure "D"**.

3.4 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.
2. The quoted amount in online tender shall be valid for 120 days (Four Months) from the last date of tender submission.

3.5 Warranty Period:

1. For Active and Passive Components Comprehensive warranty must be 5 years from date of acceptance of project.
2. Warranty of Active Devices should be registered with respective company and must be reflected on respective website.
3. Supplier should resolve issue within 48 hrs., in case issue is not resolved within time period replacement device of same specification should be provided.
4. Supplier should support SSST representative to log call with respective company.
5. The bidder shall be responsible for the Operation and maintenance (O&M) support of the entire system during the warranty period mentioned in the Technical Specification Chart.
6. The bidder will provide onsite/remote (as per complexity) post implementation support.

3.6. Payments, Penalty and Security Deposit:

a) Payment:

1. The payment will be released as follows.
 - 50% of payment will be released after completion of all Passive Networking.
 - 40% of payment will be released after Completion of all Active Components, UPS Installation.
 - 10% Payment will be done after 1 month of handover of entire project.
2. SSST GST number as well as supplier GST number must be mentioned on invoices.
3. GST against the invoice submitted to SSST must be reflected in GST portal as per the due date for releasing the payment

b) Penalty:

1. Successful bidder has to supply and install allotted product in stipulated timeline mentioned in **Delivery Schedule**. In case of late delivery of Product or delay, bidder shall be liable to pay penalty @0.5% of the undelivered and / or uninstalled parts per week thereof, up to a maximum amount of 5% of order value, after which the order is liable to be cancelled.
2. If bidder fails to resolve the call within stipulated timeline mentioned in **Warranty Period**, 1% cost of faulty/unrepaired product will be deducted per week from security deposit.

c) Security Deposit (SD):

1. Successful bidder must deposit 3% of the P.O. amount as Security Deposit, within **15 days** from acceptance of purchase order.
2. No interest shall be payable on the Security Deposit.
3. All legal charges and incidental expenses in this respect shall be borne and paid by

the successful Bidder.

4. The Security deposit will be refunded after warranty period.

3.7 Delivery Schedule:

1. Successful bidder should commence the project immediately after acceptance of work order. Entire project of Active, Passive UPS and allied peripheral installation must be completed **within 60 days of acceptance of work order**.
2. All products and software should be registered in the name of "Chief Executive Officer, Shri Saibaba Sansthan Trust, Shirdi."
3. Delivery and Implementation to be done at New Education Complex, Shri Saibaba Sansthan Trust, Shirdi.
4. Transport, freight and other charges will be responsibility of supplier.
5. If successful bidder refuses to deliver the allotted items or fails to deliver the Product, EMD will be forfeited and bidder will be black listed for 3 Years.

4.0 Rejection of Bids:

Canvassing by the bidders in any form, unsolicited letters and may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected by SSST, Shirdi. SSST reserves the right to reject/cancel any or all of the bids without assigning any reason thereof.

5.0 Indemnity:

The successful bidder shall at all times indemnify SSST towards any loss/damage caused or any claim raised against SSST by any party/third party consequent to the contract to supply the items. The successful bidder shall be liable, in accordance with the Indian Laws and Regulations for any accident or damage incurred or claims rise against SSST during the period of supply and installation of the items. No extra payment would be made to the successful bidder on this account.

6.0 Terms and Conditions:

1. Standards:

The Goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications.

2. Use of contract documents and Information:

Without the SSST's prior written consent, the supplier shall not disclose the contract, or any provision thereof, or any specification, plan drawing, pattern, sample or information furnished by the SSST in connection therewith, to any person other than a person employed by the supplier in performance of the contract.

5. Patent Rights:

The Supplier shall indemnify the SSST against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

6. Inspections and Tests:

a) Active Components like Firewall, Switches, Computers, UPS

- a.1 The inspection of goods shall be carried out to check whether the goods are in conformity with the technical specifications described in the contract. Following broad test procedure will generally be followed for inspection and testing of the system. These tests will be performed after completion of the installation and commissioning of all the machines at the site of installation. During the tests all the equipment along with its various peripherals devices and the supplied

software will be subjected to a continuous run of 8 hours for 6 days. During the endurance run of 48 hours, no malfunction, partial or complete failure of any part of the hardware or excessive heating of motors attached to device, drives etc. or no bugs in the software is expected to occur. An average uptime efficiency of not less than 95% for the duration of the test period shall be considered as satisfactory. On successful completion of acceptability test and after the SSST is satisfied with the working on the system, the acceptance certificate of the SSST will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the system.

a.2 Before the goods and equipment are taken over by the SSST, the supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the SSST to operate, maintain and adjust the equipment as stated in the specifications. Unless otherwise agreed, the goods and equipment shall not be considered to be complete for the purpose of taking over until such manuals have been supplied to the SSST.

b) for Passive components like Pipes, Cables, IO, LIU, Patch panels etc.

- a) Supplier should submit the sample of products to be delivered for approval.
- b) After approval of SSST the material should be delivered and used at Shirdi site.
- c) The SSST or its representative shall have the right to inspect and/or to test the goods to confirm their conformity to the contract specifications at no extra cost to the SSST.
- d) Any goods fail to conform the specifications, the SSST may reject the goods and the supplier shall either replace the rejected goods or make alterations necessary to meet the specification requirements, free of cost to the SSST.

7. Incidental Services.

The following services shall be furnished and the cost shall be included in the contract price:

- a) Performance of the on-site assembly, commissioning and start-up of the equipment.
- b) Furnishing the detailed operation and maintenance manuals for each item of supply at each location.
- c) Maintenance and repair of the equipment at every location during the warranty period of **minimum 60 months**, including supply of all spares. This shall not relieve the Supplier of any warranty obligations under this contract.

8. Site Preparation and Installation: For Components like UPS SSST will supply only Raw Power. Supplier have to arrange all the basic requirement for installation like Input Power breaker, Power switch, Input Cable, Output cables till Power breaker. The Supplier is solely responsible for the preparation of the sites in compliance with the technical and environmental specification defined.

9. Warranty:

- 9.1 The supplier as well as the manufacturer warrants that the goods supplied under this contract are new, of the most recent or current models. The Supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials or workmanship.
- 9.2 This Free comprehensive warranty shall remain valid for minimum 60 months after the goods have been delivered, commissioned and accepted at the final destination indicated in the contract.

- 9.3 The Supplier should assign single Point of Contract (POC). SSST will intimate/Coordinate with POC. POC shall promptly notify the supplier of any claims arising under this warranty.
- 9.4 Upon receipt of such calls from SSST/POC, the supplier, with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination.
- 9.5 If any equipment or any system(s) gives continuous trouble, during the warranty period, the Supplier shall replace the system(s) with new system(s) without any additional cost to the SSST.
- 9.6 The Supplier shall guarantee at least 99% uptime of the entire system.
- 9.7 Maintenance service.
The maximum response time for maintenance complaint from any of the destinations shall not exceed 24 hrs.

10. Change Orders:

- 10.1 The SSST may at any time, by written order given to the supplier pursuant to, make changes within the general scope of the contract in any one or more among, Number of data I/O, Switches, UPS
- 10.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended.

11. Sub Contracts: The supplier shall notify the SSST in writing of all subcontracts awarded under this contract, such notification shall not relieve the supplier of any liability or obligation under the contract.

12. Supplier's Obligations.

The Supplier is obliged to work closely with the SSST's staff, act within its own authority and abide by directives issued by the SSST.

The Supplier will abide by the job safety measures prevalent in India and will free the SSST from all demands or responsibilities arising from any accidents the cause of which is the Supplier's negligence. The Supplier will pay all indemnities arising from such incidents and will not hold the SSST responsible or obligated.

The Supplier is responsible for managing the activities of its personnel or sub-contracted personnel and will hold itself responsible for any misdemeanours,

13. Termination for Default:

The SSST may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the contract in whole or part:

- a) if the supplier fails to deliver/install any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the SSST or
- b) if the supplier fails to perform any other obligation(s) under the contract.
- c) If the supplier, in the judgment of the SSST has engaged in corrupt and/or fraudulent practice(s) in competing for or in executing the contract.

14. Force Majeure: For purposes of this clause, "Force Majeure" means an event beyond the control of the supplier and not involving its fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the SSST either in capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the SSST in writing of such conditions and the cause thereof.

15. Resolution of Disputes: The SSST shall be the ultimate deciding authority on any dispute between the SSST and the Supplier and the decision of Ad-hoc Committee/Board of Management/Chief Executive Officer, Shri Saibaba Sansthan Trust, Shirdi will be final and binding in case of any dispute between Trust and the bidder, and shall not be challenged in any court of law or other judicial forum.

16. Agreement:

Selected supplier has to do agreement with SSST, within 1 (One) Month of acceptance of work order. Supplier have to bear all the expenses incurred for agreement.

Chief Executive Officer,
Shri Saibaba Sansthan Trust, Shirdi.

ANNEXURE- "A"
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”
Compliance Sheet for Technical Document

Sn	Basic Requirement	Specific Requirements	Documents Required	Compliance file name and Page number
1	Legal Entity	The bidder should be a Company registered under the Companies Act, 1956 / Proprietary Firm / Partnership Firm. The bidder should have been in the business of supply and building of IT Infrastructure for the last five years.	Certificates of incorporation with Registration Date. Registration Certificates, PAN copy & other necessary supporting documents	
2	Product Authorization	The bidder should submit the valid letter from the OEMs confirming the followings: - Authorization from OEM for the quoted product. - Offered model should be brand new. End-of-Sale (EoS) announced model or model going to be EoS in next 6 months shouldn't be quoted. - Confirm that the products would be covered under comprehensive warranty for the contract period 5 years. Undertake that the support including spares, patches for the quoted products shall be available for entire contract period.	a) MAF for this tender (For Active Components) b) Undertaking from bidder stating the details.	
3	Company Presence and Support offices in the State of Maharashtra.	The quoted Brand & OEM should have direct presence in India Market for at least 10 Years and Own L2 & L3 Tech Support & Repair Centres in Maharashtra. (Details should be shared)	- Proof of Presence Since 10 Years in India Market. - List of Service centre with address in Maharashtra	
4	Product Uniqueness	Structured Cabling Solution should be from one single OEM/Brand to achieve optimum performance.	Switch and SFP should be from same OEM. Product White Papers should be provided.	
5	Product Compliance	OEM / Switch / OS should have IEC or equivalent Indian Cyber Security compliance.	Attach Compliance Document	
6	Average Sales Turnover in Hardware Sales & Maintenance services	Turnover in IT Sales/Infrastructure Project/Maintenance services Minimum of Rs. 50 Lakhs generated from IT Networking supply and associated maintenance services during last three Financial years i.e: FY 2021-22, 2022-23, and 2023-24.	Certificate from statutory auditor showing Turnover for said period.	
7	Blacklisting	The bidder must not under blacklisted by any Department of State Government or Government of India.	A Self Certified letter by an authorized signatory. See Annexure C	
8	Similar trunk key projects	Bidder must have successfully undertaken 02 Major IT Infrastructure/Networking supply and associated maintenance services during last three years FY 2021-22, 2022-23, and FY 2023-24.	Copy of Work order with values and Completion Certificate with client seal and signature.	
9	Network Understanding	Bidder should know the network requirement of SSST.	Provide suitable diagrams prepared for proposed network Solution	
10	Capability statement.	The bidder should have proper knowledge and expertise of handling such Jobs.	Capability statement format is given in Annexure F.	
11	Document Compliance Sheet	Annexure B with file name and page number must be uploaded along with technical bid.	Upload updated Annexure B	
12	Technical Compliance Sheet	Annexure E “Compliance Yes/No” should be filled	Upload updated Annexure E	

Note: All documents with technical bid should be sealed and signed.

Annexure "C"

Non blacklisted undertaking on form letterhead

To,
Chief Executive Officer,
Shri Saibaba Sansthan Trust, Shirdi

I <<Name of Director>>, Proprietor / Director of the <<Firm Name>> Premises at <<address of Office>> , hereby solemnly affirm and state on oath as follows:

That our Firm has not been Blacklisted by any Central Government, any of the State government or any of PSU of State government.

Signature

Name and Designation

* **Note:** - This undertaking should be submitted on bidder's Letter Head.

Annexure “D”
BOQ Format

S/N	Requirement	Qty	Unit Rate (Incl GST)	Total (Incl GST)	GST %
1	Switch L3 24 Port Make Dlink, Netgear With min 24 x 1GbE RJ45 Ports, Min 4 x 10GbE SFP+ Ports, Switch with required stacking modules/ cable, OS License & 5 years warranty (as per spec)	1			
2	24 Ports L2 Access Switch Make Dlink, Netgear Non-PoE Access Switch with Min 24x1GbE RJ45 Ports, Min 4 x 10 GbE SFP+ Ports, and required OS License with 5 years warranty (as per spec)	8			
3	Switch L2 24 Port Make Dlink, Netgear Non-PoE Access Switch with min 24x1 GbE RJ45 Ports, Min 4 x 1 GbE SFP Ports, and required OS License with 5 years warranty (as per spec)	23			
4	Switch L2 8 Port Make Dlink, Netgear Non-PoE Access Switch with min 8x1 GbE RJ45 Ports, Min 2 x 1 GbE SFP Ports, and required OS License with 5 years warranty (as per spec)	3			
5	10 GbE SM SFP+ Transceiver from Same OEM as Switch with 5 years warranty (As per spec) Make Dlink, Netgear	12			
6	1GbE SM SFP Transceiver from Same OEM as Switch/Equivalent with 5 years warranty (As per spec) Make Dlink, Netgear	44			
7	Wi-Fi6 2x2 PoE Access Point with 5 years warranty (As per spec) Make Dlink, Netgear	77			
8	WLC (As per spec) Make Dlink, Netgear Wireless Access Point controller with 5 years warranty	1			
9	30W POE Injector Gigabit Make Dlink, Netgear	77			
10	24 Core outdoor SM OFC Cable (as per tech spec) Unit Meters Make Dlink, Commscope	400			
11	06 Core outdoor SM OFC Cable (as per tech spec) Unit Meters Make Dlink, Commscope	1600			
12	24 Ports LIU fully loaded with Pigtails SM LIU (as per tech spec) Make Dlink, Netgear	4			
13	12 Ports LIU fully loaded with Pigtails SM LIU (as per tech spec) Make Dlink, Netgear	37			
14	Supply of SM LC-LC Duplex Patch Cord (as per tech spec) Make Dlink, Netgear	60			
15	Supply of Category 6 UTP Cable, 305m/box (As per tech spec) Unit Box Make Dlink, Netgear	85			
16	Supply of 24 Ports Patch Panel loaded with Category 6 Keystone (as per tech spec)	57			
17	Data I/O Back box with Faceplate and Jack Cat6 Keystone UTP White all accessories (As per tech spec)	940			
18	Supply of Category 6 UTP Patch Cord, 1m (As per tech spec)	500			
19	Supply of Category 6 UTP Patch Cord, 2m (As per tech spec)	500			
20	Supply of 42U 800W x 1000D Floor Mount Rack with Accessories (PDU, FAN) (As per tech spec)	1			
21	Supply of 22U – 600W X 600 D Floor Mount Rack with Accessories (As per tech spec)	2			
22	Supply of 12U 550 W x 450 D Wall Mount Rack with Accessories (PDU, FAN) (As per tech spec)	21			

S/N	Requirement	Qty	Unit Rate (Incl GST)	Total (Incl GST)	GST %
23	Cable Manager 2U with front cover Make: Rack OEM (As per tech spec)	30			
24	25 mm (1.00") Casing Capping/flexible pipe for Cat6 in meters (As per tech spec)	1200			
25	32 mm (1.25") PVC Conduit Pipe for Cat6 (Unit meters) (As per tech spec)	1500			
26	40 mm (1.50") PVC Conduit Pipe for Cat6 (Unit meters) (As per tech spec)	1500			
27	25 mm HDPE Pipe for Optic Fibre Cable (Unit meters) (As per tech spec)	300			
28	Infrastructure Installation charges, Configuration charges, Labour Charges, which includes Laying of CAT 6 Cable in PVC Pipe/Casing, Trenching, Laying of OFC Cable in HDPE Pipe, Fibre Splicing charges, Rack Fitting charges, Fixing of Information outlet, Fixing of Patch Panel (Include all accessories/Consumable for said Project like Pipe accessories, Nails, Saddles, Nail Grip) Work type : LOT	1			
29	UPS online 2 KVA with 45 Minutes battery Backup Make APC Model SRC2KUXI /Liebert Gxt Mt Cx Onsite 3 Years warranty from OEM + 2 Years additional	3			
30	UPS 600 Make APC/Liebert with 15 minutes battery backup Warranty 03 years from OEM + 2 Years additional	25			
31	Power Points board with 1 switch 5 Amp X2, 3 pin plug on each board including Casing , Capping , Screw, Cable and all required material Cable should be 2.5 Sqmm ISI mark Make : Finolex	100			
32	Firewall Make Sophos/Paul Alto Hardware Appliance with 8GE+2 SFP ports Expansion bay for optional Flexi Ports module, SSD Core Security Subscription Bundle (Advanced Threat Prevention, Advanced URL Filtering, Advanced Wildfire, DNS Security and SD-WAN), Unlimited remote access VPN, Warranty : 5 years with all Subscription for 5 years licenses	1			
33	HP Server: HPE DL380 Gen10 or higher 1 x Intel Xeon-Bronze 3204 (1.9GHz/8-Core/85W) processor 2x16 GB RDIMM 2R 2933 HPE 600GB SAS RPM-15K SFF SC DS HDD-2 Open Bay 8LFF HP drive cage S100i embedded SW RAID 4x1GbE (No embedded, I350) 2U SFF easy install rail kit HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit-1 Rack Mounting & Installation configuration as per OEM Guidelines, Windows Std Server 2022 (16 Core) Microsoft perpetual license 01, 21" Monitor for server Warranty 5 years Onsite	1			

Note:

1. All Rates should be fill up online only as per the BOQ provided on website www.mahatenders.gov.in
2. All above mentioned items Qty. may get differ while execution of project. Supplier have to raise invoice as actual.

ANNEXURE “E”
Technical Specification of Material

(01) Core Switch: L3 24 Ports Network Core Switch: Qty 01 Make Dlink/Netgear

S/N	Parameter	Specification	Compliance Yes/No
1	Form Factor	19" Rackmount	
2	Ports	Min 24 x 1GbE RJ45 Ports Min 4 x 10GbE SFP+ Ports All Port License need to be enabled from day one	
3	Additional Ports / Slots	Dedicated RJ45 OOB Management Port Console Port USB Port (Firmware & Config Backup & Restore)	
3	Performance	Switching Capacity – Up to 128 Gbps or higher Throughput – Up to 95 Mbps or higher MAC address table size – Up to 32K or higher RAM – Min 1GB or Higher Flash – Min 1GB or Higher Packet Buffer – Min 4 MB or Higher	
4	High Availability	Support physical stacking with min 40 Gbps Stacking Bandwidth Number of members in a stack – Up to 8 or higher with single IP management Should support Redundant Power supply Should support Link Aggregation across the Stack	
5	Layer 2 Switching	VLAN Groups & IDs – Min 4K or higher Double VLAN Q-in-Q, Voice VLAN, Multicast VLAN MSTP, Loop Detection (Independent of STP) 802.3ad Link Aggregation IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping QoS – 802.1p, 8 Queues per Port, Strict and WRR, WRED Port Mirroring	
6	Layer 3 Routing	Min 256 or More IPv4/v6 SVI / IP Interfaces, Static Routing, OSPF v2/v3, BGP4+, VRRPv3, PBR, ECMP, PIM SM/DM/SSM IPv4 & V6 Multicast Routing All Feature & Functionality should be supported from day one	
7	Security	IPv4/v6 Access Control Lists (ACL) 802.1X Radius Authentication Port Security, DAI, IPSG, DHCP Snooping IPv6 RA Guard, DHCPv6 Guard, IPv6 ND Inspection Storm Control, DoS and ARP Spoofing Attack prevention SSHv2, SSL (TLS 1.2), Duplicate Address Detection IEC or equivalent Indian Cyber Security compliance	
8	Management	Full-featured Console, Industry Standard CLI Full-featured Web-UI (HTTPs with TLS 1.2) SNMP v1, v2c and v3, Syslog, sFlow, RMON, NTP/SNTP SSH, Telnet, LLDP, LLDP-MED Dual Images, Dual Configurations IP SLA / ITU-T Y.1731 OAM, CFM, Dying Gasp	
9	Certifications / Compliances	Safety - EN 62368-1 or Better EMC - EN 55032, EN 61000-3-2, EN 61000-3-3, EN 55024 RoHS – EN/IEC 63000 or equivalent CE, FCC, UL IEEE802.3az (EEE) IEC or equivalent Indian Cyber Security compliance	
9	COO	Non-MIC	

S/N	Parameter	Specification	Compliance Yes/No
10	Documentation	Compliance sheet and Datasheet All Switches should be from single OEM and MAF from OEM to be submitted	
11	OEM / Bidder Criteria	OEM / offered switch model should comply to IEC or equivalent security standard, OEM should have direct & own service/repair center and Tech support center (TAC) in India Bidder should have Registered office in Maharashtra Bidder should have qualified technical support team locally	
12	Warranty, Services and Support	Min 5 years Warranty On-site Installation, Configuration and troubleshooting	

(2) SWITCH 24 Ports L2 Access: 10 GbE 4 SFP port, 1GbE 24 Port Ethernet/RJ45 Qty :08 Make Dlink/Netgear

S/N	Parameter	Specification / Value	Compliance Yes/No
1	L2 Switch		
2	Hardware		
	Interfaces	1 GbE RJ45 Ports - Min 24 or more 10 GbE SFP+ uplink Ports - Min 4 or more Min 2 Stacking Ports in addition to above Uplink Ports 1 USB 2.0 port, 1 RS-232 / RJ45 console port Management port: 1 x RJ-45 ports All Ports & Necessary License activated from day one	
	Power Supply	Power Input: 110-240 V AC power Redundant AC Power Supply support	
	Dimensions & Rack Installation	19-inch Rack Mount with Rack Installation Kit	
3	Performance		
	CPU, Memory & Packet Buffer	CPU – Min 1GHz or Higher Memory – Minimum 1 Gbytes or Higher Packet Buffer – Minimum 2 Mbytes or Higher	
	Switching & Stacking Capacity	Packet Switching Capacity - Min 128 Gbps or higher Layer 2/Layer 3 throughput - Min 95 Mbps or higher Additional Stacking Bandwidth – Min 40Gbps or higher (in addition to above switching capacity)	
4	Software Features		
	Network Operating System	License should include all Advanced software features Switch should have Commercial Enterprise NOS from same OEM as Switch. Open Source based NOS not acceptable.	
	Access Security	MAC, IPv4/v6 Access control list (ACL) Port-based ACL, VLAN-based ACL, L2-L4 ACL 802.1X Radius Authentication – Port & Host based RADIUS, TACACS+, Port Security, DAI, DHCP Snooping, IPSPG IPv6 RA Guard, DHCPv6 Guard, IPv6 ND Inspection Storm control, SSH v1, v2 IEC or equivalent Indian Cyber Security compliance	
	Features	MAC addresses per system: Min 16K or Higher Number of VLANs supported: 2K or Higher Range of VLAN IDs: 4K, Jumbo frames: 9K or Higher STP-IEEE 802.1D, RSTP-IEEE 802.1w, MSTP-IEEE 802.1s Port & VLAN Mirroring, VLAN - IEEE 802.1Q, Port-based, MAC-Based, Voice VLAN, Q-in-Q tunnelling, Loopback Detection &	

S/N	Parameter	Specification / Value	Compliance Yes/No
		Protection (Independent of STP), IEEE 802.3ad: Link Aggregation Control Protocol (LACP), Address Resolution Protocol (ARP) Dynamic Host Configuration Protocol (DHCP), IPv4/v6 DHCP Server, Relay, Minimum 128 or more IPv6 SVI / VLAN IP Interfaces, Static Routing, Virtual Router Redundancy Protocol (VRRP) RIP v1/v2, RIPng, OSPF v2 & v3 (IPv4 & v6), Bidirectional Forwarding Detection (BFD) protocol, Policy Based Routing (PBR), Equal-Cost Multipath (ECMP)	
	High Availability	Physical Stacking up to 6 switches with Single IP Management Cross-member link aggregation IEEE 802.3ad / 802.1AX LACP Number of link aggregation groups (LAGs) supported: 16 Maximum number of ports per LAG: 8 Redundant Power Supply Support	
	Quality of Service (QoS)	Layer 2 QoS, Layer 3 QoS, Hardware queues per port: 8 Strict-priority queuing (PQ), Weighted Round Robin / shaped-deficit weighted round robin (WDRR/SDWRR) 802.1p remarking, Rate limiting, L2-L4 classification criteria: Interface, MAC address, EtherType, 802.1p, VLAN, IP address, DSCP/IP precedence, TCP/UDP port numbers	
	Multicast Features	IGMP snooping: v1, v2, and v3, IGMP Filter IGMP v1/v2/v3, PIM-SM/DM	
	Device Management and Operations	On-Premise Management, Role-based Full Featured CLI management, SNMP v1/v2/v3, SNMP Traps – Link, STP, Loop, Storm, Power, Fan, New MAC, Remote monitoring (RMON), DHCP Server, Client & Relay, Network Time Protocol (NTP) / SNTP, SSH v2 (IPv4 & v6), IEEE 802.1AB: Link Layer Discovery Protocol (LLDP), sFlow, IPv4/v6 Dual Stack, Dual Image & Dual Configurations	
	NMS Monitoring	CPU Utilization, Memory Utilization, Port Status & Utilization SNMP Traps, Syslog Monitoring, sFlow analysis, ARP Table & FDB Table Monitoring, Private MIB	
5	Certifications / Compliance	Safety – UL / EN 62368-1 or Better EMC - EN 55032, EN 61000-3-2, EN 61000-3-3, EN 55024 RoHS – EN/IEC 63000 or equivalent UL, CE & FCC, IEC or equivalent Indian Cyber Security compliance	
6	OEM / Bidder Criteria	Bidder should have Registered office in Maharashtra	
7	Compatibility	All Switches & Transceivers should be from same Brand	
8	Warranty, Services and Support	5 years Warranty, On-site Installation, Configuration and troubleshooting support, the offered model should be latest. End of Sales (EoS) announced model or model going to be EoS in next 6 months should not be quoted	
9	Documentation	Technical Compliance sheet, Datasheet & Cross Reference	

(3) SWITCH 24 Ports L2 Access Switch: 1 GbE 4 Port of SFP, 1GbE 24 Port Ethernet/RJ45 Qty 23

S/n	Particulars	Specifications	Compliance Yes/No
1	I/O ports and slots	Min 24 or more RJ-45 auto-negotiating 100 / 1000 Mbps Ports Min 4 or more 1/10GbE SFP+ Uplink Ports with port license	
2	Additional ports	1 RJ-45 / Serial console port	
3	Throughput	Min 95 Mbps or higher	
4	Switching	Min 128 Gbps or higher	

Sn	Particulars	Specifications	Compliance Yes/No
	Bandwidth		
5	Connectivity	Auto-MDI/MDIX, IEEE 802.3X flow control	
6	Layer 2 switching	Minimum 16K or Higher MAC Address IEEE 802.3ad Link Aggregation Minimum 4K Active VLANs with 4K VID support IEEE 802.1s MSTP with min 16 Instances Loop Detection in downstream switches Port Mirroring, IGMP & MLD Snooping	
7	Layer 3 services	Address Resolution Protocol (ARP) IPv4 and IPv6 DHCP Relay IPv6 Neighbour Discovery (ND) Min 4 or More IPv4 & v6 SVI Interfaces IPv4 & IPv6 Static & Default routing	
8	QoS	Min 8 Hardware Queues CoS based on Ether type, MAC, IP, Protocol, Port & IPv6 Priority – Strict, WRR Rate Limiting / Bandwidth Control	
9	Security	MAC, IPv4 & v6 Access Control Lists (ACLs) up to 500 rules IEEE 802.1X and RADIUS network logins – Port & Host based RADIUS & TACACS+ IPv4 & IPv6 Authentication for Management Access, Password Encryption ARP attack protection, STP root guard, Port Security, DAD DHCP Server Screening, DoS Attack Prevention IP Source Guard, DHCP Snooping, Dynamic ARP Inspection (DAI) IPv6 - RA Guard, ND inspection & Snooping, DHCPv6 Guard & Snooping IEC or equivalent Indian Cyber Security compliance	
10	Management features	Full featured Industry-Like CLI Web browser-based management Secure Web-management sessions with HTTPS(TLS1.2) or better SNMPv1, v2c, and v3 (IPv4 & v6), RMON, Syslog (IPv4 & v6) SSH v2 (IPv4 & v6) Network Time Protocol (NTP/SNTP), DDM for Optics IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IPv4 / v6 Dual Stack Dual Software images & Dual Configuration support	
11	Electrical	Voltage 100 - 240 VAC, 50/60 Hz	
12	Environment	Operating temperature 32°F to 113°F (0°C to 45°C) Operating relative humidity 10% to 90%, noncondensing	
13	Certifications & Conformance	Safety - EN 62368-1 or Better EMC - EN 55032, EN 61000-3-2, EN 61000-3-3, EN 55024 RoHS – EN/IEC 63000 or equivalent CE, FCC, UL, IEEE802.3az (EEE)	
14	Accessories	19 Inch Rack Mounting Brackets and Power Cord	
19	Security Compliance	Switch should not have any malicious code OEM/Switch/OS should have IEC or equivalent Indian Cyber Security compliance	
20	OEM Criteria	OEM should have direct & own service/repair centre in Maharashtra and Tech support centre (TAC) in India	
21	Documentation	All Switches & Transceivers should be from single OEM MAF from OEM	
22	Warranty, Services and Support	5 Years onsite warranty On-site installation, configuration, integration & troubleshooting	

(4) SWITCH 8 Ports L2 Access Switch: 1 GbE 2 Ports SFP ports, 8x 1GbE RJ45 Ports: Qty: 03

Sn	Technical specification of Switch	Compliance Yes/No
1	Ports : 8x1 GbE Ethernet RJ45 Ports, 2X 1 GbE Ethernet SFP Uplink Ports	
2	Power Supply : 100 to 240V 50 to 60 Hz, Internal Universal Power Supply	
3	Performance : Switching capacity - Min 20.0 Gbps or Higher, Forwarding rate – Min 14.88 Mbps or Higher, MAC table - 8K or Higher addresses, Packet Buffer Memory – 4.1 Mbits/s or Higher	
4	Layer 2 switching Spanning Tree Protocol (STP) - Standard 802.1d spanning tree - Fast convergence using 802.1w RSTP - Multiple spanning tree instances using 802.1s (MSTP) – up to 16 or more instances Port grouping/link aggregation - Support for IEEE 802.3ad Link Aggregation Control Protocol (LACP) - Up to 4 groups with 8 candidate ports VLAN - Support for up to 255 or higher active VLANs simultaneously - Configurable VLAN ID 1 ~ 4094 - Port-based and 802.1Q tag-based VLANs - Guest VLAN - Auto Voice VLAN with QoS IGMP snooping, IGMP per VLAN, MLD snooping Auto IGMP Multicast groups filtering Loopback detection – Port & VLAN based loop detection & auto recovery independent of STP	
5	Layer3 Services: SVI/IP Interface – Min 4 or more IP / VLAN Interfaces, IPv4 / v6 Routing - Min 32 or more static routes, DHCP Relay, IPv6 Neighbour Discovery (ND)	
6	Security <ul style="list-style-type: none"> • Secure Web-management with HTTPS TLS1.3 or better security • Secure Shell (SSH) Protocol - SSH v2 (IPv4 & v6) • IEEE 802.1X – Port Based, RADIUS authentication, Guest VLAN • Supports EAP, TLS, TTLS, PEAP • Port security • Port – IP Address – MAC Address Binding • ARP Inspection, DHCP Snooping, IP Inspection • ARP Spoofing Prevention • Trusted DHCP Server / DHCP Server Screening • Storm Control - Broadcast, multicast, and unknown unicast • Denial-of-Service (DoS) attack prevention • Access Control Lists (ACLs) - Support for min 512 or more rules - based on MAC, IPv4, IPv6 address <ul style="list-style-type: none"> • Brand/Model/OS should have IEC or equivalent Indian Cyber Security compliance 	
7	Quality of service Priority levels – 8 Hardware Queues Scheduling - Strict priority and Weighted Round-Robin (WRR) Class of service - Port based, 802.1p, IP Address, MAC Address, Ether Type, Type of Service (ToS)/DSCP based, TCP/UDP Port Rate limiting / Bandwidth Control	
8	Management Web user interface - Built-in easy browser-based configuration (HTTP/HTTPS) SNMP - SNMP versions 1, 2c, and 3 with support for traps SNMP – IPv4 & IPv6 support SNMP Traps – Link, STP, Loop, New MAC notification, Port Security SNMP Standard & Private MIB (for NMS Integration)	

Sn	Technical specification of Switch	Compliance Yes/No
	Remote monitoring (RMON) - Embedded RMON supports 4 RMON groups System log - IPv4 & IPv6 support, IPv4 and IPv6 dual stack, ICMPv6 Port mirroring – One-to-One & Many-to-One, Cable diagnostics Firmware upgrade - Web browser upgrade (HTTP/HTTPS) and TFTP EEE compliant (802.3az), Telnet, SSH v2 (IPv4 & v6), Network Time Protocol (NTP/SNTP) IEEE 802.1AB Link Layer Discovery Protocol (LLDP) Dual Software images & Dual Configuration support	
9	Hardware & Environment Operating temperature - 0° to 50°C or Higher Storage temperature - -20° to 50°C or Higher Operating humidity - 10% to 90%, relative, noncondensing Storage humidity - 10% to 90%, relative, noncondensing MTBF - > 5,00,000 Hours 19" 1U Rack Mountable Package Content – Switch, Rack Mounting Kit, Power Cord, Quick Start Guide, Buttons – Reset button	
10	Certifications / Compliance Safety – EN/UL/IEC 62368-1 or latest, RoHS - EN IEC 63000:2018 or latest REACH-SVHC Compliance, CE & FCC UL,IEEE802.3az (EEE) Compliance, Brand/Model/OS should have IEC or equivalent Indian Cyber Security compliance, MTCTE/TEC Certified	
11	Documentation, Warranty & Instructions	
	5 years Onsite Warranty On-site Installation, Configuration and troubleshooting support	

(5) Trans receiver 10GbE SM SFP+ (LC Duplex) Qty 12

Sn	Specification / Value	Compliance Yes/No
1	10G Base LR (SM) Transceiver, SFP+, Duplex LC Connectors, Hot Pluggable, IEEE 802.3ae compliant, RoHS Distance Upto 10Km, Operating Temperature Upto 50°C or better Warranty : 5 years	

6) Trans receiver 1GbE SM SFP (LC Duplex) Transceiver Qty 44

Sn	Parameter	Specification / Value	Compliance Yes/No
1	Type	1G Base LX (SM) Transceiver	
2	Form Factor	SFP, Duplex LC Connectors, Hot Pluggable	
3	Standard Compliance	IEEE 802.3ae compliant RoHS	
4	Distance	Up to 10Km	
7	Warranty, Services and Support	On-site Installation, Configuration and troubleshooting support	
8	Compatibility	Same brand of switch or equivalent	
9	Documentation	Technical Compliance sheet, Datasheet	

7) Wi-Fi 6 Ceiling Mount PoE Access Point Qty 77 Make Dlink, Netgear

Sn	Parameter	Specification / Value	Compliance Yes/No
1	AP type	Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO or better	

Sn	Parameter	Specification / Value	Compliance Yes/No
2	Standards	802.11ax (Wi-Fi 6) on both 2.4-GHz and 5-GHz bands	
3	WFA Certified Features	Wi-Fi CERTIFIED™ Certificate (Wi-Fi Alliance) Wi-Fi CERTIFIED 6, ac, n and Wi-Fi Enhanced Open Wi-Fi CERTIFIED WMM & Wi-Fi Agile Multiband WPA, WPA2, WPA3 Personal & Enterprise DL and UL OFDMA, Individual Target Wake Time WPA3 192-bit security, MU-MIMO Cellular Data aware	
4	Radio MIMO type	2x2 MU-MIMO with Dual spatial streams (2x2:2) or higher on both 2.4GHz and 5GHz simultaneously	
5	Data Rate	5GHz radio: Dual spatial stream HE80 MIMO for up to 1.2Gbps wireless data rate or higher 2.4GHz radio: Dual spatial stream HE40/20 MIMO for up to 574Mbps wireless data rate or higher	
6	Modulation	1024-QAM	
7	Antennas	Integrated dual band omni-directional antennas for 2x2 MIMO, Min 3dBi or higher for 2.4GHz & 4dBi or higher for 5GHz	
8	Transmit Power	2.4GHz band: 23 dBm or better, 5 GHz band: 26 dBm or better	
9	Network interfaces	1GbE RJ45 PoE Port or higher speed	
10	PoE PD power	≤ 16W or Better	
11	System Memory	Min 512 MB DDR3 or higher memory	
12	Wireless Features	Airtime Fairness, Band Steering, User Limit, Multi-SSID, Bandwidth Optimization (UL/DL), QoS (Quality of Service), Traffic Priority (Web/Mail/FTP), DHCP Server	
13	Security	ARP Spoofing Prevention, MAC ACL, WPA, WPA2, WPA3 Personal & Enterprise, WPA3 192-bit security User / Client Isolation	
14	Authentication	802.1x Radius Authentication, Extensible Authentication Protocol (EAP), MAC/IP	
15	Management	Management console port (RJ-45/Serial) for CLI SNMP v1, v2, v3, Standalone Mode, Hardware WLC Software WLC, Mobile App, AP should support SNMP based monitoring. Vendor has to provide MIB if required for NMS integration	
16	Temperature range	0 °C ~ 40 °C (32 °F to 104 °F)	
17	Certifications / Compliance standards	MTCTE / TEC approved, Wi-Fi 6 Certified by WFA CE, FCC, Emissions and immunity – EN 301 489-1, EN 301 489-17, EN 55032, EN 55024, EN 55035 Safety – IEC/UL/EN 60950-1 / 62368-1 Spectrum & Health - EN 50385, EN 300 328, EN 301 893, Brand / OS / Model should have Cyber Security or equivalent compliance Required Documents to be submitted	
18	OEM / Brand	Offered Brand should be OEM / ODM Access Point & WLC should be from single OEM	

Sn	Parameter	Specification / Value	Compliance Yes/No
19	Warranty, Services and Support	5 years Warranty, On-site Installation, Configuration and troubleshooting support.	
20	Documentation	Technical Compliance sheet, Datasheet & Cross Reference, Manufacturer Authorization Letter	
21	Package Contents	Access Point, Necessary Mount Kit, Console Cable Installation Guide	

8) Wireless Controller Make Dlink, Netgear Qty 01

Sn	Parameter	Specification / Value	Compliance Yes/No
1	WLC Type	Appliance based or Software with Server with required licenses	
2	Number of Access Point Supported from Day One	Up to 100 or higher Access Points management with necessary license, AP License should be Perpetual	
3	Ports	Min 1 or more 1GbE RJ45 Port Min 1 RJ45/Serial Console Port or Dedicated Management Port, Min 1 USB Port	
4	Power Supply	Input: 100 240VAC, 50/60Hz, Internal Power Supply	
5	Deployment Mode	Local / Distributed Forwarding	
6	Supported Wi-Fi Standards	Compatible with 802.11ac Wave 2 and 802.11ax access points	
7	Architecture	Multi-tenant with different sites / locations	
8	Discovery and Configuration	Layer 2 & Layer 3 discovery of Access Points Mobile APP based provisioning / configuration Template / Profile based configuration - SSID, VLAN, Band, Channel Width, Security, Scheduling, MAC/IP Access Control, Guest Wi-Fi, User Authentication, RF / Bandwidth optimization	
9	RF Optimization / Performance Configuration	Auto channel, Auto RF& output Power, fast roaming, Rogue/Neighbour AP detection, support for 11k/v/r, Band steering and Airtime Fairness WMM, 20/40/80/160 Coexistence, IGMP Snooping, Spanning Tree, Multicast Bandwidth Control Bandwidth Optimization – Client/SSID/Band	
10	Authentication and Security config options	Internal / External Captive Portal with Radius Auth WPA 2 and WPA3 Personal & Enterprise Enhanced Open Encryption Type (Auto/AES/TKIP) Primary and Backup Radius Servers config SSL Certificate, Hotspot 2.0, Payment Gateway	
11	Monitoring / Reporting	Dashboard based Monitoring, Overview – Sites, AP, Clients, Traffic etc Access Point - status, IP address, MAC address, channel, network, firmware version, model name Wireless Client - IP address, MAC address, authentication type, channel, associated SSID Floor Plan / Topology based monitoring	

Sn	Parameter	Specification / Value	Compliance Yes/No
		Top N Devices details Syslog, Device Logs, Audit Logs	
12	User Management	Role-Based Access Control (RBAC)	
13	Management	Web based management (HTTPS), Config Backup and restore Should support on-line firmware upgradation / FOTA Single Sign-On (SSO), Alerts / Email Notification, SMTP, REST API	
14	Certification	CE, FC, UL, RoHS	
15	Environment	Operating Temperature – 0°C to 40°C	
16	OEM / Brand	Offered Brand should be OEM / ODM Access Points and WLC should be from single OEM	
18	Warranty, Services and Support	5 years Warranty, On-site Installation, Configuration and troubleshooting support	
19	Documentation	Technical Compliance sheet, Datasheet & Cross Reference Manufacturer Authorization Letter	
20	Package Content	Hardware / Software with Server, Necessary Mount Kit Power Cable, Installation Guide	

9) 30W POE Injector Gigabit Make Dlink or Same of Wifi OEM QTY 77

10) OPTIC FIBRE CABLE 24 Core Single Mode Armoured: QTY 400 Meters Make Dlink, Phinolex

Specifications of Optic fibre Cable	Compliance Yes/No
6 Core single mode, Armoured, Uni tube, Gel filled cable complying to ISO/IEC 11801, ITU-T G 652.D, Telcordia GR-20 Electro Chromium Coated Corrugated Steel Tape (ECCS) Core/Mode-Field Diameter@1310 nm(μm) - 9.2+/- 0.4 um Cladding Diameter - 125 + - 1 um, Coating Diameter - 245 + - 10 um Jacket – HDPE Black, Tensile Strength – Min 1000N or Better, Crush Resistance - 2000N/100 mm or Better. Nominal Cable Diameter - 12mm nominal, Operating Temperature - -20 Degree C to +50 Degree C, Structured cabling products should be of reputed make & field proven Structured Cabling Solution (Copper & Fiber) should be from one single OEM/Brand to achieve optimum performance. OEM should be member of International Structured Cabling Standards related Organization. Certificates need to be submitted. The quoted Brand & OEM should have direct presence in India Market for at least 10+ Years, OEM should have ISO 9001:2015, ISO 14001:2015	

11) OPTIC FIBRE CABLE 06 Core Single Mode Armoured: QTY 1600 Meters Make Dlink, Phinolex

Specifications of Optic Fiber Cable	Compliance Yes/No
06 Core Single Mode, Armoured, Uni tube, Gel filled cable complying to ISO/IEC 11801, ITU-T G 652.D, Electro Chromium Coated Corrugated Steel Tape (ECCS), Core/Mode-Field Diameter@1310 nm(μm) - 9.2+/- 0.4 um, Cladding Diameter - 125 + - 1 um, Coating Diameter - 245 + - 10 um Jacket – HDPE Black, Tensile Strength – Min 1000N or Better, Crush Resistance - 2000N/100 mm or Better, Nominal Cable Diameter - 12mm nominal, Operating Temperature - -20 Degree C to +50 Degree C, The quoted Brand & OEM should have direct presence in India Market for at least 10+ Years, OEM should have ISO 9001:2015, ISO 14001:2015	

12) LIU 24 Ports: Make Dlink, Netgear, Commscope Qty 04

Technical Specification of LIU	Compliance Yes/No
-Standard 19" Rack mountable fully loaded, with 12 LC SM Duplex Ports (24P) -LIU should be constructed of 16-gauge steel, powder-coated loaded -Single-Mode Fiber pigtail with LC connectors Length: 1m, Compliant with TIA/EIA-568-C std -Should have at least 2 fiber spools, - Removable front and top covers for better access	

- Mounting & termination accessories to be supplied - Documentation – Technical Compliance Sheet, Datasheet & MAF from OEM	
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13) LIU 12 Ports: Make Dlink, Netgear, Commscope Qty:37

Technical Specification of LIU	Compliance Yes/No
-Standard 19" Rack mountable fully loaded, with 6 LC SM Duplex Ports (12P) -LIU should be constructed of 16-gauge steel, powder-coated loaded -Single-Mode Fiber pigtail with LC connectors Length: 1m, Compliant with TIA/EIA-568-C std -Should have at least 2 fiber spools, - Removable front and top covers for better access - Mounting & termination accessories to be supplied - Documentation – Technical Compliance Sheet, Datasheet & MAF from OEM	

14) Fiber Patch Cord: Make Dlink, Netgear, Commscope Qty:60

Technical Specifications of Fiber Patch Cord	Compliance Yes/No
Single-Mode Fiber Patch cord with LC-to-LC connectors, Length: 3m Should meet all applicable standards Compliant with TIA/EIA-568- C, IEC standards Insertion Loss – Max 0.3Db, Return Loss - ≥50 dB Documentation – Technical Compliance Sheet, Datasheet & MAF from OEM	

15) Category 6 UTP Cable: Make Dlink Qty 85 Box

Technical Specifications for Cat6 Cable	Compliance Yes/No
Category 6 Unshielded Twisted Pair 4 pair 305-meter cable box 23 AWG Solid Bare Copper Wire UTP Cable, Should Support ANSI/TIA-568-C.2 Standard ETL Verified 4-Connector Channel to ANSI/TIA-568-C.2 Category 6 and ISO/IEC 11801 Class E up to 100 Meters (Reports / Certificates need to be attached), Sheath – Flame Retardant PVC, Conductor Resistance: ≤ 9.38 Ω/100m or better, Characteristics Impedance: 100± 15Ω or better	

16) 24 Ports Category 6 Patch Panel: Qty 57 Make: Dlink, Commscope

Technical Specifications	Compliance Yes/No
Should be loaded with Category 6 Jack/Keystones Powder coated steel in 24 port configurations Should support port identification numbers on the panel Rear Cable Management Bar support, Contact Bracket - PC, UL 94V-2 Documentation : Technical Compliance Sheet, Datasheet	

17) Data I/O: Qty 940 Make: Dlink, Commscope

Technical Specifications	Compliance Yes/No
Faceplate with Single / Dual shutter, PVC Back Box, Screws / hole covers to supplied with face plate Labelling on transparent plastic window, Face Plate - ABS, UL94-HB, Dust Cover - ABS, UL94-HB PVC Back Box, Category 6 UTP Keystone, Universal labels Color coded for T568A/568B, TIA568 C.2. Suitable for 23-26 AWG stranded and solid wire IDC Housing - PC+ Glass Fiber, UL 94V-2, 50 µinches gold on plug contact area, Phosphor bronze with Nickel plated IDC Contact	

18) Category 6 Patch Cord: Qty 500 Length – 1m Make: Dlink, Commscope

19) Category 6 Patch Cord: Qty 500 Length – 2m Make: Dlink, Commscope

Specifications for CAT6 Patch Cord	Compliance Yes/No
Cat-6 UTP Patch Cord, 24AWG stranded bare copper conductor, Snag less Semi-Transparent Moulded Boot, Phosphor bronze Contact with Nickel Plated, Jacket – Flame Retardant PVC, Insulation Resistance: 150M Ω/Km, Contact Resistance: 20 mΩ, ETL Verified 4-Connector Channel to ANSI/TIA-568-C.2 Category 6 and ISO/IEC 11801 Class E upto 100 meters	

20) 42U Floor Mount Rack: Qty 01 Make Dlink

Specifications	Compliance Yes/No
42U – 800WX1000D- Floor Mount Rack -Construction - All Welded construction -Casters Wheels Set of 4 adjustable Levellers set of 4 -19" Reduced Channel - Loop Type -Top and Bottom Cover - Welded to Frame, -Vented and Field Cable entry exit cut outs -Front Door - Lockable Toughened Glass -Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC 32 Amp with Plug -Finish - Powder Coated -Horizontal Cable Managers -1U-Loop -Grounding and Bonding -Rack Standard - DIN 41494 or better -Accessories - Cable Manager, Fan, Hardware mounting kit	

21) 22U Floor Mount Rack: Qty 02 Make Dlink

Specifications of Rack	Compliance Yes/No
22U – 600 WX600 D- Floor Mount Rack - Construction - All Welded construction - Casters Wheels Set of 4 adjustable Levellers set of 4 -19" Reduced Channel - Loop Type - Top and Bottom Cover - Welded to Frame, -Vented and Field Cable entry exit cut outs - Front Door - Lockable Toughened Glass -Vertical Power Distribution Unit with 12 x 5/15 sockets Round Pin, 230 Volts AC 32 Amp with Plug -Finish - Powder Coated -Horizontal Cable Managers -1U-Loop -Grounding and Bonding - Rack Standard - DIN 41494 or better - Accessories - Cable Manager, Fan, Hardware mounting kit	

22) 12U Wall Mount Rack: Qty 21 Make Dlink

Rack Specifications	Compliance Yes/No
Wall Mount 12U x 600 W x 600 D. -Construction - All Welded construction. -19" Reduced Channel - Loop Type. -Top and Bottom Cover - Welded to Frame. -Vented and Field Cable entry exit cut outs. -Front Door - Lockable Toughened Glass. -Vertical PDU with 6 x 5/15 Soc Round Pin, 230 Volts AC 32 Amp with Plug. -Finish - Powder Coated. -Horizontal Cable Managers -1U-Loop. -Grounding and Bonding. -Rack Standard - DIN 41494 or better. -Accessories - Cable Manager, Fan, Hardware mounting kit.	

23) Cable Manager 2U with front cover Make: Rack OEM

Cable Manager Specifications	Compliance Yes/No
Box type 2U Rack Mount Horizontal Cable Manager with Cover & Screws	

24) Casing Capping 25 mm (1.00") /flexible pipe for Cat6

Casing capping Specifications	Compliance Yes/No
ISI Mark 25 mm (1.00") Casing Capping	

25) PVC Conduit Pipe 32 mm (1.25") for laying Cat6

PVC Conduit Pipe	Compliance Yes/No

ISI Mark 32 mm (1.25") PVC Conduit Pipe for laying Cat6. Trust have laid steel tray for cable laying. Supplier have to use this tray for cat6 laying	
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26) PVC Conduit Pipe 40 mm (1.50") for laying Cat6

PVC Conduit Pipe	Compliance Yes/No
ISI Mark 40 mm (1.50") PVC Conduit Pipe for laying Cat6. Trust have laid steel tray for cable laying. Supplier have to use this tray for cat6 laying	

27) HDPE Pipe 25 mm HDPE Pipe for Optic Fibre Cable

HDPE Pipe:	Compliance Yes/No
ISI Mark 25 mm (1.00") HDPE Pipe for laying OFC. This pipes are to be used for underground OFC laying	

ANNEXURE F
Capability Statement (CS)

1. Name of Bidder :
Address :
Contact Number :
Email id :

2. Classification :
 - 2.1 Manufacturer :
 - 2.2 Authorized Agent :
 - 2.3 Dealer :
 - 2.4 Other :

3. Corporate Office/Plant :
 - 3.1 Location :
 - 3.2 Description and Size of Infrastructure :
 - 3.3 Does property is on lease or free hold, if on lease indicate date of expiry of lease in such case. :

4. Project/Services supplied during last two years.

Name of Project/Services	Capacity/ Size	Description of Service/Project	No of orders on Hand.

5. Turnover of similar project in last two years.

Sn	Project /Services Title	Client Name	Turnover

6. Personnel /Organization:
Give organization chart for following indicating clearly the no of employees at various levels.
 - 6.1 Marketing.
 - 6.2 Services.
 - 6.3 Administrative.

7. Service center near destination of installations:

Service Center Location :
Contact number :

8. Details of Organization :
 - 8.1 No of skilled Employee :
 - 8.2 No of unskilled Employee :
 - 8.3 No of Engineer Employee :
 - 8.4 No of Administrative Employee :
 - 8.5 List of Special Repair/Workshop facility available.

9. Name of Three Company/Institute with whom similar project was implemented in the last two years. Give contact person and Contact number to refer the bidders technical and delivery ability.

Sn	Name of Company where project is implemented	Project Start date and End date	Project Cost	Contact person details

(Purchase order of the Project specified in list must be attached)

Approved

Goraksha Gadilkar, I.A.S.
Chief Executive Officer,
Shri Saibaba Sansthan Trust, Shirdi