



**SHRI MATA VAISHNO DEVI SHRINE  
BOARD, KATRA**

**TENDER DOCUMENT  
FOR**

**Upgradation of Core Network Setup and  
Cybersecurity at Shri Mata Vaishno Devi Shrine  
Board Central Office, Katra.**

**e-NIT No.: CO/SYS/2026/09/714**

**Date: 09-03-2026**

**Due On: 30-03-2026**

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**Address: Office of the Chief Executive Officer, Shri Mata Vaishno  
Devi Shrine Board, Katra (J&K) -182301**


**Website: [www.maavaishnodevi.org](http://www.maavaishnodevi.org)**

**Email: [jtceos@maavaishnodevi.net](mailto:jtceos@maavaishnodevi.net) | [admin@maavaishnodevi.net](mailto:admin@maavaishnodevi.net)**

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## Section –1 Notice Inviting Tender

	<p><b>OFFICE OF THE CHIEF EXECUTIVE OFFICER</b>  <b>SHRI MATA VAISHNO DEVI SHRINE BOARD</b>            Central Office, Jammu Road, Katra (J&amp;K) – 182301</p> <p>NOTICE INVITING TENDER            (For publishing in the Website)</p>	
Tender No.	<p><b>e-NIT No. CO/SYS/2026/09/714</b>  <b>Dated: 09.03.2026</b></p>	
Tender Forms Available at Website	<p style="text-align: center;"><a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a></p>	
Date and Time of Issue/Publishing	<p>09-03-2026 <span style="float: right;">15:00 Hours</span></p>	
Document Download/Sale Start Date & Time	<p>09-03-2026</p>	<p>15:00 Hours</p>
Pre-Bid Meeting	<p>16-03-2026</p>	<p>12:00 Hours            Conference Hall            Spiritual Growth            Centre Katra,            Reasi, J&amp;K</p>
Bid Submission Start Date & Time	<p>09-03-2026 <span style="float: right;">15:00 Hours</span></p>	
Bids Submission Last Date & Time	<p>30-03-2026 <span style="float: right;">15:00 Hours</span></p>	
Date and Time of opening of Technical bid	<p>31-03-2026 <span style="float: right;">15:00 Hours</span></p>	
Place of opening of Technical bid	<p>Central Office, Shri Mata Vaishno Devi Shrine Board,            Katra (J&amp;K)-182301</p>	
Date of opening of Financial bid	<p>Shall be intimated later</p>	

- 1.1. On behalf of the Chairman, Shri Mata Vaishno Devi Shrine Board, Katra, e tenders through the e-procurement portal ([www.jktenders.gov.in](http://www.jktenders.gov.in)) for the Work namely: **Upgradation of Core Network Setup and Cybersecurity at Shri Mata Vaishno Devi Shrine Board Central Office, Katra.**
- 1.2. **TurnKey Project:** Since this is a **turnkey project** hence L-1 will be decided based on the overall lowest rates received by any Firm in Financial Bid.
- 1.3. The **e-NIT** consisting of Qualifying Information, Eligibility Criteria, Specifications, Bill of Quantities, (B.O.Q), set of Terms & Conditions of Contract and other details can be viewed/downloaded from the official website of Shri Mata Vaishno Devi Shrine Board [www.maavaishnodevi.org](http://www.maavaishnodevi.org) and the bidders shall submit their bids only through e-procurement platform at [www.jktenders.gov.in](http://www.jktenders.gov.in).
- 1.4. **Tender Fee of Rs.1000/-** (Rupees One Thousand Only) shall be deposited in the official account of Shri Mata Vaishno Devi Shrine Board, Branch J&K Bank Katra, Account No. 0235040500001804, IFSC – JAKA0KATTRA. Bid received without Tender fee will not be accepted. Details to be mentioned in Annexure-A.
- 1.5. The e-tender document should be accompanied by an **Earnest Money Deposit (EMD)** in the form of **CDR/FDR** amounting to Rs. **2,00,000/- (Rupees Two Lakhs Only)** with a **validity period of 06 months** from any Nationalized / Scheduled Bank, duly pledged in favour of **FA/Chief Accounts Officer, Shri Mata Vaishno Devi Shrine Board, Katra.** The Earnest Money of the unsuccessful bidder will be returned within 30 days after the award of contract to the successful bidder. Details to be mentioned in Annexure-A. The EMD of the successful bidder will be released after the receipt of Performance
- 1.6. **Performance bank Guarantee (PBG):** The Successful Bidder shall have to deposit an amount of **3,00,000/- (Rupees Three Lakhs Only)** as Performance Bank Guarantee in the form of Bank Guarantee pledged to **FA/Chief Accounts Officer, Shri Mata Vaishno Devi Shrine Board, Katra** for providing the above-mentioned services which shall be **released after** the completion of defect liability period and O&M (Operation and Maintenance) period. In case the contract is further extended, the performance security deposit shall have to be accordingly renewed by the Contractor for the bid extended period which shall be released after 06 months following the completion of extension period. The performance guarantee shall be forfeited if the contractor prematurely withdraws or if the services are terminated for being unsatisfactory.
- 1.7. The bidder shall mention UTR No. and CDR/FDR detail in the prescribed Technical Bid Form given in Annexure-A of this e-NIT. The CDR/FDR in original shall be submitted before the closing time of submission of e-NIT. The complete bidding process will be done online on the e-Tender portal [www.jktenders.gov.in](http://www.jktenders.gov.in) only. The tenders should be submitted strictly in accordance with the provisions of the detailed e-NIT. **No Tender will be accepted in physical form.** Bids received without EMD & Tender fee of the requisite amount shall be out-rightly rejected.

1.8. **Contract Agreement:** Within **14 days** after the issuance of Letter of Intent / Award, the Contractor shall have to enter into a formal Contract Agreement incorporating all the terms and conditions as embodied in the Bid Documents or modified subsequently in writing and those contained in the Letter of Intent / Award, with the Owner. The following documents shall be deemed to form and be read and construed as part of the Contract Agreement:

- i) The e-NIT and the Addendums / Amendments / Clarifications issued thereof.
- ii) Financial Bid Document.
- iii) Letter of Award (LOA).
- iv) Conditions of Contract.
- v) Contract price.
- vi) Priced Bill of Quantities as accepted.
- vii) Specifications.
- viii) Drawings.
- ix) Other additional documents as exchanged in correspondence on the subject

**Sd/-**  
**Jt. Chief Executive Officer**  
**Shri Mata Vaishno Devi Shrine Board**

## **Section- 2: Instruction to Bidders regarding the e-Tendering process**

- 2.1 To participate in the bidding process, bidders must get (DSC) a “**Digital Signature Certificate**” as per Information Technology Act-2000. This certificate will be required for digitally signing the bid. The Bidders, who already possess valid (DSC) Digital Signature Certificates, need not procure new Digital Signature Certificate.
- 2.2 Before submission of online bids, bidders must ensure that scanned copies of all the necessary documents have been attached to the bid.
- 2.3 The Shrine Board will not be responsible for delay in the online submission of bids for whatever reasons from the bidder side.
- 2.4 The amount of the tender fee and EMD specified in the tender documents should be the same, as submitted online (scanned copies) otherwise bid will not be accepted.
- 2.5 Bidders are advised to use the “**My Documents**” area in their user on <http://jktenders.gov.in>, an e-tendering portal to store important documents like Balance sheets with UDIN number, GST Registration Certificate, Tax Clearance Certificate, IT certificates, manufacturers authorization and other related documents etc., and attach these certificates as non-Statutory documents while submitting their bids.
- 2.6 **Bidders are advised not to make any change in BOQ (Bill of Quantities) contents or its name. In no case, they should attempt to create a similar BOQ manually. The BOQ downloaded should be used for filling the item rate as prescribed and it should be saved as it is in the tender document.**
- 2.7 Bidders are advised to scan their documents at 100 DPI (Dots per Inch) resolutions with Black and White in PDF format.
- 2.8 The guidelines for submission of bids online can be downloaded from the website **<http://www.jktenders.gov.in>**.
- 2.9 **Language of Bids:** The Bids prepared by the Bidder and all correspondence and documents relating to the bids exchanged by the Bidder and the Department, shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long the same is accompanied by a duly certified English translation in which case, for purpose of interpretation of the bid, the English translation shall govern.

### **Section-3: General Definitions & Interpretation**

- 3.1. In the contract (as herein under defined) unless it is otherwise repugnant to the text, the definition of the following words and expressions shall have the meaning hereunder assigned except otherwise specified:
- 3.2. **“Site”** means the lands and other places on, under, in, or through which the works are to be executed or carried out and any other lands or places provided by the Board for the purpose of the works together with such other places as may be specifically defined in the contract as forming part of the site.
- 3.3. The expression **“Work” or “Works”** mean the works to be executed in accordance with the contract or parts thereof as the case may be and **shall include all additional, altered or substituted works** as required for the completion of the contract.
- 3.4. **“Design”** means the designs referred to in the document and any modification of such designs approved in writing by the Board and such other designs as may from time to time be furnished or approved in writing by the Board.
- 3.5. **“Drawing”** means the working drawings referred to in the document and any modification of such drawings approved in writing by the board and such other drawings as may from time to time be furnished or approved in writing by the Board
- 3.6. **“Bill of Quantities”** means the schedule of quantities or items, materials & rates, summaries etc. as finally accepted.
- 3.7. **“Specification”** means the specifications of the product/item as per the approved standard specification where so required or as mentioned in the contract.
- 3.8. **“Contract”** means this Agreement and all documents which form a part thereof and/or annexed thereto and all amendments thereto made in accordance with the provisions hereof based on Expression of Interest (EOI), e-NIT, addendum, clarification products/item documents including the Financial Bid Document, General conditions of the contract, specifications, designs & drawings, priced schedule & priced Bill of quantities and schedule of rates and acceptance thereof, read in conjunction and complementary to one and other.
- 3.9. **“Contract Price”** or **“Contract Value”** or **“Contract Sum”** means the sum set out hereto as the total value of the contract including GST and shall be subject to additions and/or deductions and rebated in accordance with the provision herein contained.
- 3.10. **“Owner”** means Shri Mata Vaishno Devi Shrine Board, Katra Jammu (J&K) through the Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board, Katra (J&K).
- 3.11. **“Engineer”** means Engineer-In charge or his authorized Representative or such other team as nominated by the competent authority.

- 3.12. **“Contractor”** means who is awarded a contract to perform the work in accordance with the contract and includes the Contractor’s personnel, representatives, successors and permitted assigns. The expression of words in the Bid Document i.e., **“Successful Bidder”**, **“System Integrator”**, and **“Executing Agency”** shall have the same meaning as the “Contractor”.
- 3.13. **“Materials”** means the materials, apparatus, equipment, fittings, fixtures, and other things for incorporation in the works.
- 3.14. **“Approved”** means approved in writing; “approval” means approval in writing.
- 3.15. **“Month”** means a calendar month.
- 3.16. **“Week”** means seven consecutive calendar days.
- 3.17. **“Day”** means a calendar day beginning and ending at midnight.
- 3.18. **"Equipment"** Hardware items provided by the Bidder as described in the Financial Bid Document.
- 3.19. **"Licensed Software"** All Software described in the e-NIT, including all related updates, changes or revisions provided under the Financial Bid Document.
- 3.20. **"Letter of Intent / Letter of Award"** A work order or other written agreement or contract, entered between the successful Bidder and the Client (hereinafter called “LOI” / “LOA”).
- 3.21. **"Software"** means Machine-readable data and/or source code, including executable programs and firmware (permanent software programmed into a read-only memory) and user documentation in written or electronic object code form. "Software" may include Licensed and Unlicensed Software.
- 3.22. **“MEAB”** means Most Economical Advantageous Bid.
- 3.23. An **Original Equipment Manufacturer (OEM)** means a company that designs or formulates a product and contracts a manufacturer (typically, a contract manufacturer or CM) to manufacture the product (typically called an OEM product), which the OEM then either brands as its own or incorporates into its own branded product.

## Section 4: Checklist

**4.1 Technical Bid:** Following documents are required to be submitted mandatorily in the Technical Bid. In case of failure to submit the documents as mentioned here, the bid would be summarily rejected. Bidders are advised to read the instructions carefully in the relevant section before submitting the documents. If the submitted documents are found to be at deviation from the documents asked for in the Tender Document than the bid will be summarily rejected without any correspondence with the bidder.

**4.2** Bidders are advised to prepare the bid and mark the page numbers in the bid and mentioned the same in the checklist below.

S.N	Technical Bid Documents	Submitted (Yes/ No)	Page Numbers	Remarks
1	Cost of Tender Document (As per Clause 1.4).			
2	Earnest Money Deposit (As per Clause 1.5).			
3	Technical Bid Performa (Annexure-A).			
4	Tender Document signed and stamped on each page as a mark of acceptance.			
5	Bidder details for attending Bid opening (Annexure A).			
6	Experience Certificate as per section 6.2			
7	Undertaking from Bidder that there is no deviation from the specification mentioned in Annexure C (Deviation(s) if any may be clearly mentioned in the Undertaking).			
8	Data Sheets for offered Solution.			
9	Manufacturer Authorization Certificate (MAF) from OEM's for: -			
i)	Firewall			
ii)	WAN Switch			
iii)	Core Switch			
iv)	Access/PoE Switch			
10	Any other document (s) as required in the bid elsewhere. (Please mention details)			

## Section 5: About e-NIT

### 5.1. Purpose of e-NIT:

The intent of this e-NIT is to invite proposals/bids from the prospective Bidders to Upgrade the Core Network Setup and Cybersecurity at Shri Mata Vaishno Devi Shrine Board Central Office, Katra as per the requirements of the Shrine Board. Bidders are requested to read all the clauses of this e-NIT carefully and **visit the site/locations** where the network is proposed to be upgraded.

### 5.2. Project overview:

The Shrine area falls under the Union Territory (UT) of Jammu & Kashmir which is in constant threat of militancy and insurgency activities for a very long time. The Shrine Board is primarily responsible to manage/regulating the yatra on the track and to maintain law and order situations, for which the platoons of JKAP & CRPF are engaged/deployed at all important locations on the track. The safety & security of the pilgrims is the prime concern of the Shrine Board and accordingly, undertaken several initiatives to enhance the surveillance systems.

### 5.3. Data Sheet

S.No.	Particulars	Detail
1.	Method of selection	The Bidder shall be selected based on: a) Qualifying the technical eligibility. b) Lowest rate offered in Financial Bid.
2.	Tender Fee	<b>Rs. 1000/-</b> (non-refundable)
3.	Earnest Money Deposit (EMD)	Refundable amount of INR 2,00,000/- (Two Lakhs Only) (through FDR/CDR) valid for a period of 06 months pledged to FA/Chief Accounts officer, SMVDSB, Katra.
4.	Performance Bank Guarantee	Refundable amount of INR 3,00,000/- (Three Lakhs Only) to be submitted by the successful bidder with a validity period including Defect Liability Period and Operation and Maintenance period.
5.	Tender Validity Period	<b>120 days</b> from the Proposal due date
6.	Tender Currency	INR
7.	Consortium to be allowed	No
8.	Project Completion	<b>90 days</b> for complete setup and roll out of the system from the date of issuance of LoA.
9.	Contact person	Joint. CEO (S) -9419903050 Manager IT -9906019486 Asstt. Manager IT - 9086055620
10.	Email id for correspondence	<a href="mailto:jtceos@maavaishnodevi.org">jtceos@maavaishnodevi.org</a>   <a href="mailto:admin@maavaishnodevi.net">admin@maavaishnodevi.net</a>
11.	Sustainability	The project should be sustainable in nature and shall provide the services for the <b>next 10 years</b> .

**5.4. Penalty:** In case of failure of the successful Tenderer to complete the work within **90 days** or **non-execution of agreement** with Shrine Board within 14 days after the issuance of Letter of Intent / Award as stipulated period as per Clause No. 1.8 of this e-NIT, the penalty shall be imposed upon delay as per the following order

- For 1 to 10 days of delay LD should be @ 1% of value of the contract
- For 11 to 20 days of delay LD should be @ 2% of value of the contract
- For 21 to 30 days of delay LD should be @ 3% of value of the contract

- iv) For 31 to 45 days of delay LD should be @ 5% of value of the contract.
- v) Beyond 45 days of delay Security deposit will be forfeited and department would be free to award remaining work to other agency at the cost of vendor.

#### **5.5. Expected Outcomes of Project:**

- i) Strengthened cybersecurity posture through advanced threat detection, prevention, and real-time monitoring.
- ii) Controlled and secure access to critical applications and network resources via granular security policies.
- iii) Higher network reliability and uptime with redundancy and failover mechanisms.
- iv) Improved network visibility enabling quicker identification and resolution of security or performance issues.
- v) Network segmentation and access-layer security to minimize internal threats and unauthorized movement.
- vi) Centralized management for efficient configuration, monitoring, and troubleshooting of network infrastructure.
- vii) Scalable infrastructure capable of supporting future expansion and emerging technologies.
- viii) Optimized performance through intelligent traffic prioritization for critical services.
- ix) Reduced operational risk and improved business continuity, ensuring uninterrupted service delivery.

#### **5.6. Technical Clarifications:**

Bidders desiring any technical clarification may contact IT Section, Office of the Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board Katra Jammu and Kashmir 182301 between 10:00 Hours to 17:00 Hours on any working day up to five days before the bid closing date. Clarifications can also be sought through e-mail id [admin@maavaishnodevi.net](mailto:admin@maavaishnodevi.net) . However, the tender submission and tender closing dates will remain the same.

#### **5.7. Responses to pre-bid queries and issue of corrigendum:**

- a) At any time prior to the last date for receipt of bids, SMVDSB may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the e-NIT Document by a Corrigendum/Addendum.
- b) The Shrine Board will try to provide timely responses to all queries. However, SMVDSB makes no warranty as to the completeness or accuracy of any response, nor does SMVDSB undertake to answer all the queries that have been submitted by the Bidders.
- c) **Shrine Board reserves the right to modify the terms & conditions of e-NIT** in view of any practical modalities which may emerge during or after the pre-bid meeting and the same shall be notified through a Corrigendum or Addendum and the said documents shall automatically become the part of the e-NIT.
- d) Information regarding the changes in the terms & conditions in the e-NIT shall be uploaded in the form of Corrigendum/Addendum on the Shrine Board's official website i.e. [www.maavaishnodevi.org](http://www.maavaishnodevi.org) and J&K Tendering Portal i.e. [www.jktenders.gov.in](http://www.jktenders.gov.in). The Board shall not be responsible for any claims by the Tenderer with regard to ignorance of any notifications published by the SMVDSB in the e-procurement platform.
- e) The Board shall not be responsible for ensuring that the Bidders' queries have been received by them. Any requests for clarifications post the indicated date and time may not be entertained.
- f) In order to provide prospective Bidders reasonable time for taking the corrigendum/addendum into account, the SMVDSB may, at its discretion, extend the last date for the receipt of Proposals.

#### **5.8. Format and Signing of Bid:**

- i) The Bidder shall prepare one electronic copy of each of the technical e-Bid and Financial e-Bid separately.
- ii) The e-Bid document shall be digitally signed, at the time of uploading, by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The letter of authorization shall be indicated by a scanned copy of the written power-of-attorney accompanying the e-Bid. All the pages/ documents of the e-Bid that are to be uploaded shall be digitally signed by the person authorized to sign the e-Bid.

#### **5.9. Deviations and Exclusions:**

- i) Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the e-NIT. The Bidder shall submit a **No Deviation Certificate** as per the *Annexure-C* mentioned in this e-NIT.
- ii) The bids with deviation(s) are liable for rejection.

#### **5.10. Right to Accept Any Proposal and To Reject Any or All Proposal(s):**

The SMVDSB reserves the right to accept or reject any proposal, to annul the tendering process / Public procurement process and reject all proposals at any time prior to the award of the contract, without stating any reason thereof without owning any liability.

#### **5.11. Study of Local Conditions:**

- i) The tenderer shall inspect the proposed site of work and acquaint himself themselves with the site conditions, working hours and all relevant items connected with execution of work. The submission of tender shall be deemed to have been done after careful study and examination of the tender papers with full understanding of the implications thereof.
- ii) It is the Bidder's responsibility that factors including temperature, snowfall, humidity, lightning, wind speed and seismic impact etc be properly investigated and considered while submitting the bid proposals and no claim whatsoever including those for financial adjustment to the contract awarded under the bidding documents will be entertained by the Board.

#### **5.12. Contacting the tenderer**

Any effort by a Bidder influencing the Tenderer, bid evaluation, bid comparison, or contract award through any means or decisions may result in the rejection of the bid outrightly.

#### **5.13. Defect Liability Period:**

The contractor shall be fully responsible for all defect in respect of executed work for quality & workmanship for a period of 01 year from the date of completion of work. Any defect occurring in the work due to poor quality or workmanship during DLP shall be rectified by the contractor at its own cost. In case of failure to do so with in specified time frame the SMVDSB shall be liberty to take up the rectification work at the risk and cost of the contractor and recover the cost on account of rectifications from amount due to the contractor in the shape of security / performance security and balance payment due to the contractor.

## **Section 6: General Terms & Conditions of Contract**

### **6.1. Bid Submission Documents:**

Technical bid contains the documents, which would enable the bidder to qualify for the technical stage of the bid such as Pre-Qualification documents, Technical Compliance, Data Sheets, Un Priced BOQ etc. **No Financial/ prices are to be quoted in technical bid. If the financial price is quoted in Technical then the bid would be summarily rejected as non-responsive.**

Bidders are advised to read the instructions carefully in the relevant section before submitting the documents. If the submitted documents are found to be a deviation from the documents asked for in the Tender Document, then the bid will be summarily rejected without any correspondence with the bidder.

- a. Cost of Tender Document (As per Clause 1.4).
- b. Technical Bid Performa (Annexure-A).
- c. Tender Document signed and stamped on each page as a mark of acceptance
- d. Letter for Authorization for attending Bid opening.
- e. Experience Certificate as per Clause 6.2.
- f. Undertaking from Bidder that there is no deviation from the specification mentioned (Annexure-C)
- g. Data Sheets for offered Solution
- h. Manufacturer Authorization Certificate (MAF) from OEM's for: -
  - i) Network Firewall
  - ii) WAN Switch
  - iii) Core Switch
  - iv) L2 Access Switch
  - v) PoE Switch
- i. Undertaking from Offered OEM's having its service and support centre in India for:
  - i) Network Firewall
  - ii) WAN Switch
  - iii) Core Switch
  - iv) L2 Access Switch
  - v) PoE Switch
- j. The Bidder should submit a certificate of registration under the Companies Act 1956/2013 as amended.
- k. Technical Compliance sheet as per Annexure-D should also be attached from the bidders' end giving an undertaking that the items to be provided by them comply with the specifications provided in the tender.
- l. The Bidder should **not have been debarred/black-listed by any Central/State Government Agency**. An **undertaking** by the bidder in this regard is to be submitted.

### **6.2 Prequalification Criteria: - (Estimated Tender Cost Rs. 60.00 lakh)**

- i) The Bidder should have a **cumulative turnover of at least INR 01.00 Crore** for the **last three financial years**.
- ii) The Bidding Firms should have completed 03 similar projects\*\* costing not less than 24 Lakhs each.

Or

iii) Should have completed at least 02 similar projects\*\* costing not less than 30 Lakhs each.

Or

iv) Should have completed at least 01 similar projects\*\* costing not less than 48 Lakhs.  
**(\*\*Similar nature of work means SITC/Maintenance of Core Switches and Cybersecurity System)**

Copies of experience signed by an authorized signatory certificates of the equivalent document in support of satisfactory installation from clients shall be provided.

### **6.3 Technical Evaluation Criteria**

Only those Bidders who qualify for the eligibility criteria will be evaluated for the technical evaluation. Bidders who do not qualify for the Pre-qualification criteria, their technical bids and financial bids will not be evaluated.

Financial bids of the technically qualified bidders shall be opened and the L-1 bidder shall be considered for the allotment of the contract. In case of a **tie in the financial bid**, the bidder scoring more in the technical bid evaluation shall be considered for the allotment of the contract.

### **6.4. Procedure of submission of e Tender**

Bidders are invited to submit their Bids in two parts viz. Technical Bid as per **Annexure-A** and Financial Bid as per **Section 8** along with supporting documents, application fee, EMD etc. The bidders are required to submit their tenders under two bids system with Cover-I (Technical Bid) and Cover-II (Financial Bid).

#### **A. Cover-I (Technical Bid):**

(This cover shall contain):-

- i) Annexure-A form duly filled in along with relevant documentary proofs.
- ii) Scanned copies of EMD in shape of CDR / FDR pledged to FA/Chief Accounts Officer, SMVDSB for Rs. 2,00,000/- (Two Lakhs Only)
- iii) Tender Fee of Rs. 1,000/- in the official account of Shri Mata Vaishno Devi Shrine Board Branch J&K Bank Katra, Account No. 0235040500001804, IFSC – JAKA0KATTRA (in IFSC Code JAK0KATTRA – 0 stands Zero). The bidder shall mention UTR No. in the prescribed Technical Bid Form at Annexure-A.
- iv) Declaration Certificate as enclosed at Annexure – B
- v) No Deviation certificate as enclosed at Annexure-C
- vi) All Documents as per Clause 6.1

**Scanned Copies of all the Technical Bid documents have to be uploaded online.**

#### **B. Cover-II (Financial Bids):**

- i. The Tenderer shall submit the Price bid strictly as per BOQ through an online e-procurement/tender platform only i.e. [www.jktenders.gov.in](http://www.jktenders.gov.in). The price bid table is available at Section 8 of this e-tender which is indicative and just for the understanding of the bidder.
- ii. The bidder shall not submit the BOQ as mentioned in Section-8 of this e-tender with the Technical Bid.

- iii. Financial / Price bid shall be opened for only those Tenderer who have qualified the Technical Bid.
- iv. The price bid should be absolute and unconditional.
- v. Conditional bids shall be out rightly rejected.
- vi. Price bids not conforming to BOQ or having any flaws shall be rejected.
- vii. The price should be inclusive of any duties, freight, levies charges (inclusive of GST) or any other charges likely to be imposed by the Centre/ State Government or any other statutory authority etc. Any variation in the tax component by the Government will be borne by the Shrine Board.
- viii. The price bid shall remain valid for a period of **03 months** from the last date of receipt of bids.

No Bid shall be accepted in physical form. The bidders shall submit original instruments in the office of the Chief Executive Officer, SMVDSB, Katra by or before last date of submission of tender i.e. cost of tender document deposited in Shrine Board Account, Earnest Money Deposit and other relevant documents, before the closing time of submission of this e-NIT.

**6.5. Award of Contract:**

- i) Letter of Award (LoA) shall be issued to the (L-1) selected Bidder.
- ii) The selected bidder will sign the contract after fulfilling all the formalities/pre-conditions mentioned in the Letter of Award, within **30 days** of issuance of the Letter of Award.
- iii) The selected bidder shall commence the assignment on receipt of the LoA and as per the schedule given to him.

**6.6. Forfeiture of EMD/Performance Bank Guarantee:**

Earnest Money Deposit / Performance Bank Guarantee amount in full or part may be forfeited, including interest, if any, on grounds of the following:

- i) Any terms and condition of the contract is breached.
- ii) The Bidder fails to make complete supply & installation satisfactorily.
- iii) If the Bidder breaches any provision of code of integrity, prescribed for Bidders, specified in the Bidding document.
- iv) If the Successful Tender does not execute the agreement with the Shrine Board with in the stipulated time period.

**6.7 Failure to Agree with the Terms and Conditions of the e-NIT:**

In case the successful Bidder fails to comply with the Terms & Conditions of the e-NIT and Legal Agreement shall constitute sufficient grounds for the annulment of the award, in which event the SMVDSB may award the contract to the next best value Bidder or call for new proposals from the interested Bidders.

**6.8 Sub-contracting:**

Sub-contracting shall be allowed for fitting of equipment including civil works only with prior written approval of Chief Executive Officer, SMVDSB, Katra. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the bidder. The bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to the Shrine Board.

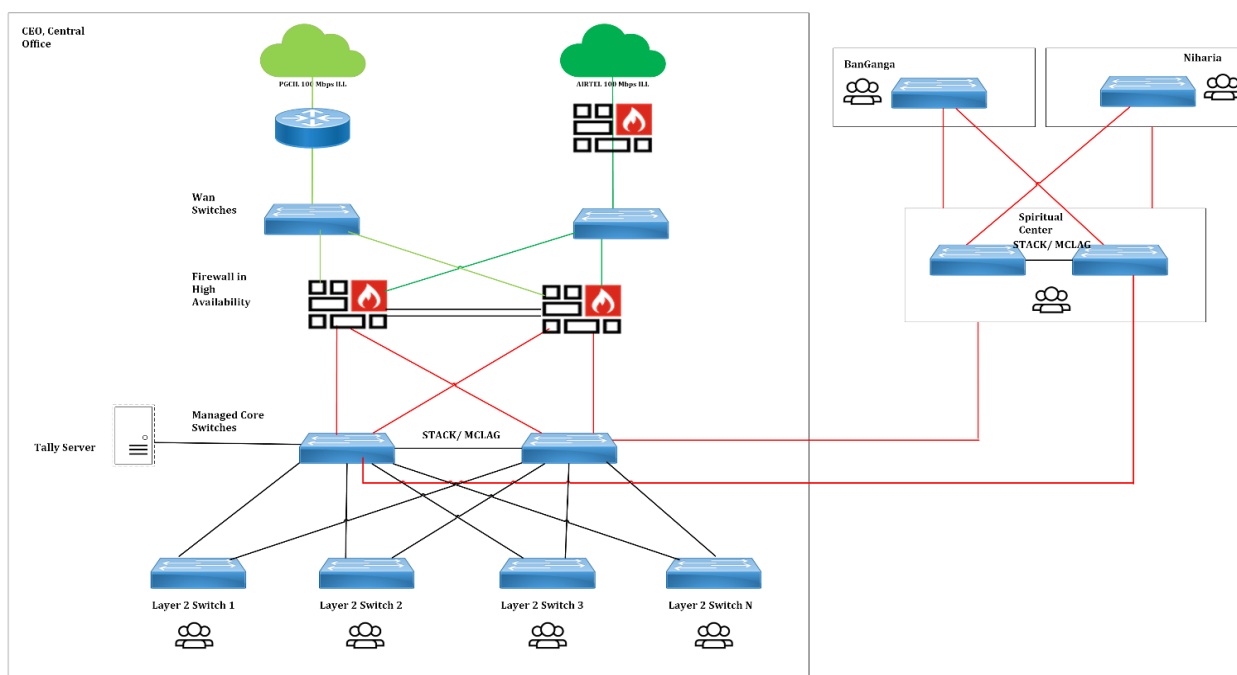
## 6.9 Training:

- i) The Bidder shall undertake to train the staff nominated by the Department in different aspects of equipment, functioning, testing, operation & administration free of any cost.
- ii) The system Administration and Maintenance Training program, at the location specified by the board, will be structured to train officers/officials nominated by the Board.
- iii) The training programs should be for at least two days and at least 6 hours per day.
- iv) Bidder will provide complete details on the training programs to be offered including:
  - a) Material to be covered.
  - b) Number of hours of training per operator of technician for each specific course
  - c) Supporting documentation to be provided.
- v) Commissioning of the project is not linked with the Training

## 6.10 Terms of payments: -

- i) Payment of 60% of the tender price will be released on delivery of material, on pro-rata basis after receipt acknowledgement/ note of goods received at Engineering store Banganga. The payment will be released after the inspection of the received material by the technical team of the Shrine Board and after the production of a certificate by the technical team.
- ii) Payment of 30% of the tender price to be released on Installation and Commissioning of the entire system after the production of certificate by technical team of SMVDSB.
- iii) Payment of 10% after the completion of Defect Liability Period of 01 Year.

## 6.11 Proposed Network Architecture



6.12 Items mentioned in the tender document are approximate quantities. Items mentioned in the tender may be increased or decreased up to **20%**. The payment will be made on pro-rata basis.

## 6.13 Safety of Manpower and Insurance:

- i. The Contractor shall arrange, secure and maintain insurance as may be necessary and for all such amounts to protect his risks as detailed herein. The Contractor shall insure all his

staff and workers / labour working at site against injury, loss of life etc. and no claims of compensation whatsoever shall be entertained by the Board in this regard. The Contractor shall indemnify the Owner against all such claims.

- ii. The workers employed on electrical installations to be provided with insulating mats, protective apparels (such as Gloves, Sleeves, Boots etc.) by the Executing Agency, as may be necessary as per the standards laid down by the Government of India from time to time.

#### **6.14 Confidentiality:**

Notwithstanding anything contained in this Bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information. The Bidder shall not disclose any information if such disclosure which is likely to: -

- i. impede enforcement of any law;
- ii. affect the security or strategic interests of SMVDSB;
- iii. affect the intellectual property rights or legitimate commercial interests of Bidders;
- iv. affect the legitimate public interests.
- v. Data in the form of text, picture, audio and video footage shall not to be shared with anyone or with any agency or use for any other purposes without prior permission of the Chief Executive Officer, SMVDSB, Katra. In case transparency of the data is compromised or data is manipulated, leaked, theft or found shared, the contract shall be liable to be terminated immediately without any notice.
- vi. Considering the sensitivity & security aspect of the Shrine area, the Contractor shall submit an **Undertaking** to the Shrine Board that he shall not reveal any design, drawing, layout plan, site photographs etc. and other related information of the Shrine and the project with any of the third party without the prior approval of the CEO Shrine Board.

- 6.15** The damage caused, if any, to any Government property through the acts of the firm and/or by its workers shall be made good by the agency and decision of the Department in this regard shall be final/binding.

#### **6.16 Compliance with statutes, regulations etc.:**

The Contractor shall conform to, in all respects, with the provisions of any such statute, ordinance or law as aforesaid and the regulation or Bye-Laws of any local or other duly constituted authority prevailing, which may be applicable to the works or to any temporary works and with such rules and regulations of public bodies and companies as aforesaid and shall keep the **Owner indemnified** against all penalties and liability of every kind for breach of any such statute, ordinance or law, regulation or bye-law.

#### **6.17 Opportunities for other Contractor/Agencies:**

The Contractor shall, in accordance with the requirements of the Board, afford all reasonable opportunities for carrying out their work to any other Contractor or agencies employed by the Board and their workmen and to the workmen of the Board and of any other duly constituted authority who may be employed in the execution on or near the site of any work not included in the contract or of any contract which the Board may enter into in connection with or ancillary to the works.

### **6.18 Supply of Materials & Labour at site of work:**

The Contractor shall at his own expense supply and provide all the machinery, tools, tackles and equipment, materials etc. both for temporary as well as for permanent works, labour (skilled & unskilled and including the supervision thereof), transport to or from the site and in and about the works and other things of every kind required for the construction, completion, and maintenance of works

### **6.19 Variations:**

If the Owner may make any variation in quality or quantity of the works or any part thereof that may in their opinion be necessary, then the Engineer shall have power to order the Contractor to carry out the same and in any of the following:

- (a) Increase or decrease the quantity of any work included in the contract
- (b) Omit any such work
- (c) Change the character or quality or kind of any such work
- (d) Execute additional work of any kind necessary for the completion of the works and no such variation shall in any way vitiate or invalidate the contract but the value (if any) of all such approved variations shall be considered in ascertaining the total amount of the contract value.
- (e) In case the variation in overall quantities exceed 10% of the contract value, the variation in quantities and cost implication shall be approved from the competent authority.

### **6.20 Termination of Contract**

- i) Foreclosure in full or in part due to abandonment or reduction in scope of work.
- ii) The Contractor shall be paid at contract rates full amounts for works executed at site and in addition a reasonable amount as certified by the technical team constituted for the purpose for the items hereunder mentioned which could not be utilized on the work to the full extent because of the foreclosure:
  - (a) Any expenditure incurred on preliminary site work e.g. temporary works, temporary labour huts, staff quarter and site office, storage, accommodation and water storage tanks etc.
  - (b) The Owner shall have the option to take over Contractor's materials or any part thereof either brought to site provided the material conforms to specified standards or meant to be used for the work allotted.
    - (i) For materials taken over or to be taken over by the Owner, the cost to be paid shall consider purchase price, cost of transportation.
    - (ii) For materials not retained by the Owner, no compensation on this account will be paid. Any such material will be lifted by the Contractor at his risk & cost with full clearance at site.

### **6.21 Settlement of Disputes at Site**

The instructions, decision, opinion, certificate or evaluation of the Engineer with regard to any work at site shall be binding on the contractor.

### **6.22 Force Majeure:**

In no event shall either Party have any liability for failure to comply with this Agreement, if such failure results directly from the occurrence of any contingency beyond the reasonable control of the Party, including, without limitation, strike or other labour disturbance, riot, major power failure, war, natural calamities including but not limited to floods, earthquakes, fire, volcanic eruptions, epidemics, National Emergency, interference by any government or governmental agency, embargo, seizure, or enactment or abolition of any law, statute,

ordinance, rule, or regulation (each a " Force Majeure Event"). In the event either Party is unable to perform any of its obligations under this Agreement because of a Force Majeure Event, the Party who has been so affected shall as soon as may be, after coming to know of the Force Majeure Event, inform the other Party and shall take reasonable steps to resume performance as soon as may be after the cessation of the Force Majeure Event. If the period of non-performance due to a Force Majeure Event exceeds thirty (30) days, the Party whose ability to perform has been so affected may, by giving written notice, terminate this Agreement.

**6.23 Arbitration**

Any dispute or difference whatsoever arising between the parties out of or relating to the execution, interpretation, application, meaning, scope, operation or effect of the contract or the validity or the breach thereof, shall be first tried for amicable settlement through consultation / discussion between the parties. Any unsettled disputes whatsoever arising between the parties thereof relating to the work shall be resolved as per the provisions of Arbitration & conciliation Act., 1996 & seat / place for Arbitration shall be at Jammu.

**6.24 Jurisdiction**

All legal disputes arise in connection with the Contract shall be subject to the jurisdiction of Courts at Jammu / Katra / Reasi (J&K, India).

**Sd/-**  
**Jt. Chief Executive Officer**  
**Shri Mata Vaishno Devi Shrine Board**

## Section 7: Indicative Bill Of Quantities

S.no	Description	Qty.	
1	<b>WAN Layer and Firewall in HA</b>	<b>WAN Switch</b>	
		L2 Fanless Switch - 8 x GE RJ45 ports, 2 x GE SFP	2
		<b>Firewall</b>	
		Minimum 8x GE RJ45 internal + 2x shared 10GE RJ45/SFP+ WAN ports; 1x USB, 1x console RJ45. Firewall throughput (1518/512/64 byte UDP): Minimum 25 Gbps. NGFW throughput: Minimum 2.5 Gbps; IPS throughput: Minimum 4.5 Gbps; Threat protection: Minimum 2 Gbps. Concurrent TCP sessions: Minimum 3 million; New sessions/second: Minimum 124,000. IPsec VPN throughput (512 byte): Minimum 25 Gbps (200 gateway-to-gateway tunnels, 2,500 client-to-gateway). Full NGFW suite: IPS, application control antivirus, URL filtering, anti-botnet, SSL inspection ( $\geq 2.6$ Gbps avg. HTTPS, 300K concurrent sessions). VPN: SSL-VPN throughput $\geq 1.4$ Gbps, concurrent users $\geq 200$ (tunnel mode). Additional: $\geq 5,000$ firewall policies; DoS protection; VLANs; Active-Active/Passive HA; SD-WAN integration.	2
		Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service.	2
		Premium Support for 60 Months	2
2	<b>Core Layer in HA</b>	<b>Core Switch</b>	
		Gigabit Layer 3 switch (high-performing and feature-rich) with 24 x 100M/1G ports or higher and 4 x 10G uplinks.	2
		1000BaseLX (10km) SFP transceiver module, SMF, 1310nm,	10

		<b>Access Switch</b>	
3	<b>Access Layer</b>	Layer 2 switch controller compatible switch with 24x 1G RJ45 and 4x 10G/1G SFP+/SFP ports and 1x RJ45 console port.	<b>5</b>
4	<b>Wireless Access Point</b>	IEEE 802.11ax wireless access point with dual band radios and embedded antenna.	<b>25</b>
5	<b>Wireless Controller</b>	Dedicated Wireless LAN Controller (WLC).	<b>2</b>
6	<b>SITC of Core Setup</b>	One time- Installation and commissioning of Core Setup.	<b>1</b>

## Section 8- Financial Bid

#	Description	Qty.	Unit Rate (F.O.R. at site including Taxes)	Total
1	<b>WAN Layer and Firewall in HA</b>	<b>WAN Switch</b>		
		L2 Fanless Switch - 8 x GE RJ45 ports, 2 x GE SFP	2	
		<b>Firewall</b>		
		Minimum 8x GE RJ45 internal + 2x shared 10GE RJ45/SFP+ WAN ports; 1x USB, 1x console RJ45. Firewall throughput (1518/512/64 byte UDP): Minimum 25 Gbps. NGFW throughput: Minimum 2.5 Gbps; IPS throughput: Minimum 4.5 Gbps; Threat protection: Minimum 2 Gbps. Concurrent TCP sessions: Minimum 3 million; New sessions/second: Minimum 124,000. IPsec VPN throughput (512 byte): Minimum 25 Gbps (200 gateway-to-gateway tunnels, 2,500 client-to-gateway). Full NGFW suite: IPS, application control antivirus, URL filtering, anti-botnet, SSL inspection (≥2.6 Gbps avg. HTTPS, 300K concurrent sessions). VPN: SSL-VPN throughput ≥1.4 Gbps, concurrent users ≥200 (tunnel mode).Additional: ≥5,000 firewall policies; DoS protection; VLANs;	2	

		Active-Active/Passive HA; SD-WAN integration.			
		Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service.	2		
		Premium Support for 60 Months	2		
		<b>Core Switch</b>			
2	<b>Core Layer in HA</b>	Gigabit Layer 3 switch (high-performing and feature-rich) with 24 x 100M/1G ports or higher and 4 x 10G uplinks.	2		
		1000BaseLX (10km) SFP transceiver module, SMF, 1310nm,	10		
		<b>Access Switch</b>			
3	<b>Access Layer</b>	Layer 2 switch controller compatible switch with 24x 1G RJ45 and 4x 10G/1G SFP+/SFP ports and 1x RJ45 console port.	5		
4	<b>Wireless Access Point</b>	IEEE 802.11ax wireless access point with dual band radios and embedded antenna.	25		
5	<b>Wireless Controller</b>	Dedicated Wireless LAN Controller (WLC).	2		
6	<b>SITC of Core Setup</b>	One time- Installation and commissioning of Core Setup.	1		



**OFFICE OF THE CHIEF EXECUTIVE OFFICER**  
**SHRI MATA VAISHNO DEVI SHRINE BOARD**  
Central Office, Jammu Road, Katra (J&K) – 182301

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**Annexure-A**

**Pre-qualification / Technical bid:**

**Name of the Tenderer:** \_\_\_\_\_

**Detail of Tender Fee:**

a) UTR No. \_\_\_\_\_ Date \_\_\_\_\_ Amount \_\_\_\_\_

**Detail of EMD:**

a) CDR/FDR/TDR No. \_\_\_\_\_, Amount: \_\_\_\_\_

Date: \_\_\_\_\_, Bank \_\_\_\_\_, Branch \_\_\_\_\_

To,

Chief Executive Officer,  
Shri Mata Vaishno Devi Shrine Board, Katra.

Sir,

I hereby submit tender for the work namely “Upgradation of Core Network Setup and Cybersecurity at Shri Mata Vaishno Devi Shrine Board Central Office, Katra.” along with the particulars given below: -

<b>S. No</b>	<b>Particulars</b>	<b>Documents enclosed at</b>
1	Name of the Firm	
2	Registered Address	
3	Email id:	
4	Name & Mobile Number of Contact person/ Authorized Representative of the Tenderer:	
5	Year of establishment and constitution of firm	
6	Please specify, whether you are submitting your tender as a as a Partner of the firm or as Director of the company.	
7	Name of the Proprietor/Partner/ Directors of the tendering company.	
8	Company Registration Document	
9	GST Registration	
10	PAN Registration	
11	ITR having UDIN number and Profit and Loss Statement and Balance Sheet for the last three Financial Years (2022-23, 2023-24, 2024-25)	
12	Turnover Certificate having UDINE number by the CA for the last three Financial Years (2022-23, 2023-24, 2024-25)	
14	Documents as per Clause 6.2	
15	Attested Legal Affidavit for declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted / banned / debarred by any State Govt./Central Govt./PSU in India or abroad for any reason on the date of bid submission.	
16	Detail of manpower with the Company.	
19	All documents as asked in the Clause No. 6.1 of the e-NIT for calculation of points in the table matrix.	

Copies of documentary proof may be furnished where ever required. Additional pages may be used, if needed.

Name of the Tenderer:\_\_\_\_\_

Seal & Signature:\_\_\_\_\_

**Place:**

**Date:**



**OFFICE OF THE CHIEF EXECUTIVE OFFICER**  
**SHRI MATA VAISHNO DEVI SHRINE BOARD**  
Central Office, Jammu Road, Katra (J&K) – 182301

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**Annexure-B**

**(ON THE LETTER HEAD OF THE FIRM)**

**DECLARATION**

I / We hereby declare that no case is pending with the police / court / government agency against the bidder / firm / company (Agency). Also, I / We have not been suspended / blacklisted by any PSU / Government Agency / Financial Institution / Court etc.

**Seal and Signature of the bidder**

**Shrine Board's e-NIT No.**

**Date:**

**Place:**

**Date:**



**OFFICE OF THE CHIEF EXECUTIVE OFFICER  
SHRI MATA VAISHNO DEVI SHRINE BOARD  
Central Office, Jammu Road, Katra (J&K) – 182301**

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**Annexure-C**

**(ON THE LETTER HEAD OF THE FIRM)**

**NO DEVIATION CERTIFICATE**

Notwithstanding anything mentioned in our bid, we hereby accept all the terms and conditions mentioned in the e-NIT. We hereby undertake and confirm that we have understood the work mentioned in the subject of this e-NIT and shall provide hardware, software, manpower and other allied resources for the execution of intended work to SMVDSB during the Contract Period.

**Seal and Signature of the bidder**

**Shrine Board's e-NIT No.**

**Date:**

**Place:**

**Date:**



**OFFICE OF THE CHIEF EXECUTIVE OFFICER**  
**SHRI MATA VAISHNO DEVI SHRINE BOARD**  
 Central Office, Jammu Road, Katra (J&K) – 182301

**Annexure-D**

**Technical-Specifications**

1 WAN Switch with 8 x 10/100/1000T ports and 2 x 100/1000X SFP ports			
S. No	Parameters	Technical Specification	Compliance (Yes/No)
1	<b>Port Density:</b>	Enterprise grade Switch should have minimum 8x10/100/1000 Base-T ports and 2x1G SFP ports.	
2	<b>Switch architecture &amp; Performance:</b>	The Switch should support a minimum of 20 Gbps of Switching Fabric Capacity. The Switch should support a minimum of 14 Mpps of forwarding capacity and 16K MAC address or better. Should have IPv6 Ready Logo from Day 1.	
3	<b>Layer 2 and Layer 3 Feature:</b>	Should support 2K active Vlan, Port base, MAC base, Protocol base and Voice VLAN, Loop Detection and Loop protection, Control Plane Prioritization (CPP), RSTP, MSTP, G.8032 or equivalent Ethernet Ring Protection with 50ms, IEEE 802.3ac VLAN tagging, IEEE 802.1v, Static routing and RIPv1&v2 from Day 1.	
4	<b>Multicast Support:</b>	MLD snooping and IGMP snooping v1, v2 and v3	
5	<b>Quality of Service:</b>	IEE 802.1p compliance, DSCP Prioritization, Wire speed traffic classification with low latency essential for VOIP and real time streaming media applications. Policy-based QoS based classifying traffic based on MAC, Port, VLAN, Protocol, L3 Parameters.	
6	<b>Security Feature:</b>	ACLs, DHCP snooping, STP Root Guard, IP source guard and Dynamic ARP Inspection (DAI), RADIUS and TACACS+ accounting and authentication, MAC address filtering and MAC address lock-down, Tri authentication: MAC-based, web-based and IEEE 802.1x.	
7	<b>Management features</b>	SNMPv6, Telnetv6 and SSHv6, SNMPv1, v2 and v3, RMON, USB or equivalent memory card slot for backup. Should support Openflow or NETCONF/RESTCONF for automation.	

8	<b>Other Essential Feature:</b>	Should support UDLD or equivalent feature to prevent loops on detecting unidirectional links, Connectivity Fault Management, Monitoring Temperature, Supply voltage, Average transmit power, Average receive power and Laser bias current of the FO module, should have feature if any intrusion is detected on fiber link the particular port should be shutdown automatically.	
9	<b>Operating Temperature:</b>	0°C to 50°C	
10	<b>Certification:</b>	EN55022, EN55024, UL60950-1, FCC class A, VCCI class A, cUL, RoHS compliant and IPv6 ready logo certified.	
11	<b>Warranty</b>	All the switches should be offered with min 5 years NBD warranty with proper back-up on respective-OEM letter Head. All the switches FO Modules should be from the same OEM.	

<b>2 Core Switch- 24 port 1G Base-T stackable switch with 4 SFP+ ports and 2 dual power supplies</b>			
<b>S.No.</b>	<b>Parameters</b>	<b>Specifications</b>	<b>Compliance (Yes/No)</b>
1	<b>Port Density:</b>	Enterprise grade switch should have minimum 24x10/100/1000 Base-T and 4x1/10G SFP+ ports. Should be populated with required module from day 1. Should have dual power supply.	
2	<b>Switch architecture &amp; Performance:</b>	The Switch should support a minimum of 128Gbps of Switching Fabric Capacity. The Switch should support a minimum of 95Mpps of forwarding capacity and 16K MAC address or better.	
3	<b>High Availability:</b>	Should support stacking for single IP management. Minimum stacking bandwidth should be 40Gbps or more. All the necessary accessories should be provided from day 1.	
4	<b>Layer 2 and Layer 3 Feature:</b>	Should support 4K active Vlan, Port base, MAC base, Protocol base and Voice VLAN, Loop Detection and Loop protection, RSTP, MSTP, RIPv1&v2, OSPF V3, BGP, Policy-based routing, VRRP V3, PIMv6-SM and SSM.	
5	<b>Multicast Support:</b>	MLD snooping and IGMP snooping v1, v2 and v3	
6	<b>Quality of Service:</b>	IEE 802.1p compliance, DSCP Prioritization, Wire speed traffic classification with low latency essential for VOIP and real time streaming media applications. Policy-based QoS based classifying traffic based on MAC, Port, VLAN, Protocol, L3 Parameters.	

7	<b>Security Feature:</b>	ACLs, DHCP snooping, STP Root Guard, IP source guard and Dynamic ARP Inspection (DAI), RADIUS and TACACS+ accounting and authentication, MAC address filtering and MAC address lock-down, Tri authentication: MAC-based, web-based and IEEE 802.1x, DoS attack blocking.	
8	<b>Management features</b>	SNMPv6, Telnetv6 and SSHv6, SNMPv1, v2 and v3, RMON, Sflow /NetFlow or equivalent, 1xRJ45 Console port, USB or equivalent memory card slot for backup. Should support Openflow or equivalent technology for centralized management.	
9	<b>Other Essential Feature:</b>	Should support UDLD or equivalent feature to prevent loops on detecting unidirectional links, Connectivity Fault Management, Monitoring Temperature, Supply voltage, Average transmit power, Average receive power and Laser bias current of the FO module, should have feature if any intrusion is detected on fiber link the particular port should be shutdown automatically.	
10	<b>Certification:</b>	EN55032, EN55024, UL60950-1, FCC class A, VCCI class A, cUL and RoHS compliant. The switch should have IPv6 ready logo from Day 1.	
11	<b>Warranty</b>	All the switches should be offered with min 5 years replacement warranty with proper back-up on respective-OEM letter Head. All the switches FO Modules should be from the same OEM.	

<b>3 Access Switch -24-port 1G Base-T POE switch with 4 SFP ports managed switch</b>			
<b>S. No</b>	<b>Parameter</b>	<b>Technical Specification</b>	<b>Compliance (Yes/No)</b>
1	<b>Port Density:</b>	Enterprise grade Switch should have minimum 24x10/100/1000 Base-T PoE ports and 4x1G SFP ports. Populated with required module from day 1. PoE budget min 370watt.	
2	<b>Switch architecture &amp; Performance:</b>	The Switch should support a minimum of 56Gbps of Switching Fabric Capacity. The Switch should support a minimum of 41Mpps of forwarding capacity and 16K MAC address or better. Should have IPv6 Ready Logo from Day 1.	
3	<b>Layer 2 and Layer 3 Feature:</b>	Should support 2K active Vlan, Port base, MAC base, Protocol base and Voice VLAN, Loop Detection and Loop protection, Control Plane Prioritization (CPP), RSTP, MSTP, G.8032 or equivalent Ethernet Ring Protection with 50ms, IEEE 802.3ac VLAN tagging, IEEE 802.1v, Static routing and RIPv1&v2 from Day 1.	
4	<b>Multicast Support:</b>	MLD snooping and IGMP snooping v1, v2 and v3	

5	<b>Quality of Service:</b>	IEE 802.1p compliance, DSCP Prioritization, Wire speed traffic classification with low latency essential for VOIP and real time streaming media applications. Policy-based QoS based classifying traffic based on MAC, Port, VLAN, Protocol, L3 Parameters.	
6	<b>Security Feature:</b>	ACLs, DHCP snooping, STP Root Guard, IP source guard and Dynamic ARP Inspection (DAI), RADIUS and TACACS+ accounting and authentication, MAC address filtering and MAC address lock-down, Tri authentication: MAC-based, web-based and IEEE 802.1x.	
7	<b>Management features</b>	SNMPv6, Telnetv6 and SSHv6, SNMPv1, v2 and v3, RMON, USB or equivalent memory card slot for backup. Should support Openflow or NETCONF/RESTCONF for automation.	
8	<b>Other Essential Feature:</b>	Should support UDLD or equivalent feature to prevent loops on detecting unidirectional links, Connectivity Fault Management, Monitoring Temperature, Supply voltage, Average transmit power, Average receive power and Laser bias current of the FO module, should have feature if any intrusion is detected on fiber link the particular port should be shutdown automatically.	
9	<b>Operating Temperature:</b>	0°C to 50°C	
10	<b>Certification:</b>	EN55022, EN55024, UL60950-1, FCC class A, VCCI class A, cUL, RoHS compliant and IPv6 ready logo certified.	
11	<b>Warranty</b>	All the switches should be offered with min 5 years NBD warranty with proper back-up on respective-OEM letter Head. All the switches FO Modules should be from the same OEM.	

<b>4 Wireless Access Point (WiFi6/6E)</b>		
<b>S.No.</b>	<b>Technical Specification</b>	<b>Compliance (Yes/No)</b>
1	The access point should be capable to offer IEEE 802.11ax. Wave 2 standard with an assured throughput 3Gbps or more. Should have 1x100M/1G/2.5G/5G PoE interface	
2	An access point must include a standard OEM provided Mounting brackets for mounting on Ceiling or Rooftop.	
3	The Wi-Fi AP's should be managed by controller, necessary hardware/ software shall be provided. The AP should have an option to be operated in standalone mode as well.	
4	Should support dual band as 2.4 or 5GHz with embedded antenna	

5	Support IEEE 802.11a/b/g/n/ac 4x4 MIMO	
6	Should have feature to create multiple virtual AP on the same physical device to configure the different security policies for each virtual AP	
7	Should have feature to allocate the equal bandwidth for all the connected users to ensure consistent performance for all users	
8	AP should be offering automatic channel selection to restrict interference	
9	Should support Multiple BSSIDs, VLAN tagging	
10	Should support automatic channel selection to avoid overlapping of the channel	
11	Support RF load balancing to increase the performance	
12	Should have option Band Steering and support 802.11k, 802.11v, and 802.11r for Fast roaming	
13	Should have mechanism to detect the rogue AP and client isolation	
14	Should support Authentication, Accounting and 802.1x, WPA, MAC address filtering, SSID hiding or ignoring and Neighbor AP detection	
15	Should support the mechanism to Hide and ignore/restrict for specific SSID	
16	CE, RCM, FCC, Wi-Fi certified, UL2043, EN 55024, EN 55032, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-6, EN 61000-4-11	
17	Operating Temperatures: 0°C to 50°C	
18	All Access Points shall be centrally managed through a dedicated Wireless LAN Controller (WLC). The bidder shall include all required controller hardware and/or software licenses necessary for centralized configuration, monitoring, management, and control of the entire wireless network as part of the proposed solution. No additional components or licenses shall be required beyond those included in the bid.	
19	Integration: For ease of integration, all switches, AP, WLC, SFP Modules shall be from same OEM	
20	All the Access Point should be offered with min 5 years NBD warranty with proper back-up on respective-OEM letter Head. All the switches FO Modules should be from the same OEM.	

5 Firewall			
S. No	Parameters	Technical Specification	Compliance (Yes/No)
1	Performance Requirements	Minimum firewall throughput of $\geq 20$ Gbps Minimum NGFW throughput (with IPS,	

		<p>application control, and malware inspection enabled) of <math>\geq 7</math> Gbps</p> <p>Minimum IPS throughput of <math>\geq 8</math> Gbps</p> <p>Must support hardware-accelerated traffic inspection for improved performance</p> <p>Must support inspection of encrypted traffic (TLS 1.2 and TLS 1.3)</p>	
2	<b>Security Capabilities</b>	<p>Intrusion Prevention System (IPS) with regularly updated signatures</p> <p>Advanced malware protection including sandboxing and zero-day threat detection</p> <p>Application-layer (Layer 7) and user-aware firewalling</p> <p>Web filtering with category-based and reputation-based controls</p> <p>Ability to enforce security policies based on user identity, device posture, and application type</p>	
3	<b>Encrypted Traffic Inspection</b>	<p>Full SSL/TLS decryption and inspection capabilities, including TLS 1.3</p> <p>Granular policy controls for selective decryption</p> <p>Compliance-friendly certificate handling and exception management</p>	
4	<b>Endpoint &amp; Security Ecosystem Integration</b>	<p>Must support integration with endpoint protection platforms to enable coordinated threat response</p> <p>Ability to dynamically adjust firewall policies based on endpoint security status</p> <p>Automated isolation or traffic restriction of compromised endpoints</p>	
5	<b>VPN &amp; Remote Access</b>	<p>Support for site-to-site and remote-access VPNs</p> <p>IPsec and SSL VPN support</p> <p>Minimum support for <math>\geq 2,000</math> concurrent VPN users</p> <p>Integration with multi-factor authentication (MFA)</p>	
6	<b>SD-WAN &amp; Routing</b>	<p>Integrated SD-WAN functionality with dynamic path selection</p> <p>Support for multiple WAN links and application-aware routing</p> <p>Real-time link health monitoring and</p>	
7	<b>Management &amp; Reporting</b>	<p>Centralized management via on-premises and/or cloud-based platforms</p> <p>Role-based administration</p> <p>Real-time and historical reporting on traffic, threats, and user activity</p> <p>API support for automation and third-party integration</p>	
8	<b>Hardware &amp; Reliability</b>	<p>Redundant power supply support</p> <p>Minimum <math>8 \times 1\text{GbE}</math> ports and <math>\geq 2 \times 10\text{GbE SFP+}</math> ports</p> <p>Rack-mountable form factor</p> <p>High availability (active/passive or active/active) support</p>	

9	<b>Licensing &amp; Support</b>	Subscription-based security services with a minimum 5-year option 24x7 vendor or partner support Regular firmware and security updates included	
10	<b>Warranty &amp; Authorization</b>	The firewall should be offered with min 5 years warranty. Bidder must submit a valid Manufacturer Authorization Form (MAF)	