



**B** बँके ऑफ़ बडौदा  
Bank of Baroda



RFP for Supply, Installation & Maintenance of Network Switches at Bank Branches / Offices (Bid Number: GEM/2024/B/5381640 dated 10<sup>th</sup> September 2024)

Addendum - 01 dated 17<sup>th</sup> October 2024

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**Addendum to following Annexure:**

1. Technical Specifications Requirements (Revised)
2. Certificate of Local Content – Annexure 20 (Revised)
3. Format for Self-Certification regarding Local Content (LC) for Telecom Product, Services or Works – Annexure 23 (New)

All other Terms & Conditions are the same as per our RFP for Supply, Installation & Maintenance of Network Switches at Bank Branches / Offices (Bid Number: GEM/2024/B/5381640 dated 10<sup>th</sup> September 2024).



**Addendum to the following RFP Clause:**

S N	Existing Clause	Clarifications / Changes Made
1	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid Evaluation - Eligibility Criteria:</p> <p>-----</p> <p><b>B. Financial</b></p> <p>1. The Bidder must have registered an average annual turnover of Rs. 2 Crore or above (from Indian Operations only) during the last three completed financial years – 2021-22, 2022-23 &amp; 2023-24*. *If financial statements for 2023-24 is unaudited, the bidder can submit audited financial statements of 2020-21, 2021-22 &amp; 2022-23 along with letter of undertaking that FY 2023-24 statement is not audited.</p> <p>-----</p> <p>-----</p>	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid Evaluation - Eligibility Criteria:</p> <p>-----</p> <p><b>B. Financial</b></p> <p>1. The Bidder must have registered an average annual turnover of <b>Rs. 1 Crore</b> or above (from Indian Operations only) during the last three completed financial years – 2021-22, 2022-23 &amp; 2023-24*. *If financial statements for 2023-24 is unaudited, the bidder can submit audited financial statements of 2020-21, 2021-22 &amp; 2022-23 along with letter of undertaking that FY 2023-24 statement is not audited.</p> <p>-----</p> <p>-----</p>
2	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid Evaluation - Eligibility Criteria:</p> <p>-----</p> <p><b>D. Experience &amp; Support Infrastructure</b></p> <p>1. The bidder should have supplied and installed at least 100 no's Network Switches (Maximum 2 orders) in past 3 Years to Commercial Banks / Financial Institutions / Government / PSU Organizations in India.</p> <p>-----</p> <p>-----</p>	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid Evaluation - Eligibility Criteria:</p> <p>-----</p> <p><b>D. Experience &amp; Support Infrastructure</b></p> <p>1. The bidder / <b>OEM</b> should have supplied and installed at least 100 no's Network Switches (Maximum <b>5 orders</b>) in past 3 Years to Commercial Banks / Financial Institutions / Government / PSU Organizations in India.</p> <p>-----</p> <p>-----</p>
3	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p>-----</p>	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p>-----</p>



	<p><b>Additional (New)</b></p> <p>-----</p> <p>-----</p>	<p>5. The offered product or any product from the offered product family or product series should be TSEC certified based on TEC GR of LAN switch or MTCTE certified.</p> <p>-----</p> <p>-----</p>
<p>4</p>	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p><b>Additional (New)</b></p> <p>-----</p> <p>-----</p>	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p>-----</p> <p>6. The product should be IPv6 ready logo certified from day 1.</p> <p>-----</p> <p>-----</p>
<p>5</p>	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p><b>Additional (New)</b></p> <p>-----</p> <p>-----</p>	<p>Annexure 02 – Evaluation Terms Eligibility cum Technical Bid Evaluation - Eligibility Criteria (D. Experience &amp; Support Infrastructure):</p> <p>-----</p> <p>-----</p> <p>7. Switch OS should be VAPT Certified by STQC or equivalent.</p> <p>-----</p> <p>-----</p>
<p>6</p>	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid:</p> <p><b>Additional Clause: Proof of Concept (POC)</b></p>	<p>Annexure 02 – Evaluation Terms A. Eligibility cum Technical Bid Evaluation:</p> <p>-----</p> <p>-----</p> <p><b>POC (Proof of Concept): Bank of Baroda reserves the rights to ask bidders to demonstrate the Proof of Concept of the working of Switching Solution proposed at any of the Bank of Baroda premises as per the technical specification requirements mentioned under RFP. All cost of POC should be borne by the Bidder. Bank will have the right to reject the proposed solution, if the proof of concept testing doesn't meet the requirements mentioned under the</b></p>



		<p>RFP.</p> <p>-----</p> <p>-----</p>
<p>7</p>	<p>-----</p> <p>-----</p> <p><b>9. Preference to Make in India Initiative</b> Government has issued Public Procurement (Preference to Make in India) [PPP-MII] Order 2017 vide the Department for Promotion of Industry and Internal Trade (DPIIT) Order No.P-45021/2/2017-B.E.-II dated 15.06.2017 and subsequent revisions vide Order No. 45021/2/2017-PP (BE-II) dated 16-9-2020 to encourage 'Make in India' and to promote manufacturing and production of goods, services and works in India with a view to enhancing income and employment. Preference will be given with the criteria laid down by Bank and as per procedures laid down in Public Procurement (Preference to Make In India) order 2017, revision dated 16/09/2020 vide order P-45021/2/2017-PP (BE – II) dated 16-9-2020 issued by GOI. The guidelines under PPP-MII order and subsequent revisions as mentioned above shall be applicable subject to bidder submitting Class-I/Class-II local content certificate for the quoted product.</p> <p>-----</p> <p>-----</p>	<p>-----</p> <p>-----</p> <p><b>9. Preference to Make in India Initiative</b> Government has issued Public Procurement (Preference to Make in India) [PPP-MII] Order 2017 vide the Department for Promotion of Industry and Internal Trade (DPIIT) Order No.P-45021/2/2017-B.E.-II dated 15.06.2017 and subsequent revisions vide Order No. 45021/2/2017-PP (BE-II) dated 16-9-2020 to encourage 'Make in India' and to promote manufacturing and production of goods, services and works in India with a view to enhancing income and employment. Preference will be given with the criteria laid down by Bank and as per procedures laid down in Public Procurement (Preference to Make In India) order 2017, revision dated 16/09/2020 vide order P-45021/2/2017-PP (BE – II) dated 16-9-2020 issued by GOI. The guidelines under PPP-MII order and subsequent revisions as mentioned above shall be applicable subject to bidder submitting Class-I/Class-II local content certificate for the quoted product. <b>In case of two or more than two bidders complying with Preference to Make in India initiative are found technically eligible as per Technical Specifications requirements of the RFP, then Commercial bids of only those bidders will be opened.</b> <b>In case sufficient bidders complying with Preference to Make in India initiative are not found</b></p>



		<p><b>technically eligible as per Technical Specifications requirements of the RFP, then Commercial bids of all technically eligible bidders will be opened.</b></p> <p>-----</p> <p>-----</p>
<p>8</p>	<p>Annexure 12 – Project Details (Scope of Work) - 1. Scope of Work:</p> <p>-----</p> <p>-----</p> <p>3. Vendor should supply, commission, install, test, configure and maintain the Network Hardware at various locations identified by the bank. The vendor will also coordinate with existing MSP (Managed Services Provider) and/or networking vendors and ensure successful installation, integration and functioning of Network connectivity.</p> <p>-----</p> <p>-----</p>	<p>Annexure 12 – Project Details (Scope of Work) - 1. Scope of Work:</p> <p>-----</p> <p>-----</p> <p>3. Vendor should supply, commission, install, test, configure and maintain the Network Hardware at various locations identified by the bank. The vendor will also coordinate with existing MSP (Managed Services Provider) and/or networking vendors and ensure successful installation, integration and functioning of Network connectivity.</p> <p><b>Minimum one resource is required for onsite coordination with Bidder/OEM’s backend support, call logging with backend support, ensure end-to-end response and resolution TAT as per agreed SLA with bidder and providing L1 support to the branches (From 8 am to 8 pm on Bank working days) and separate onsite resources for implementation.</b></p> <p>-----</p> <p>-----</p>



**Technical Specifications (Revised):**

Following are the list of mandatory features to be complied as part of technical compliance:

S N	Required Minimum Specifications	Compliance (Yes/No)	Remarks
1	<b>Minimum of 24 port 10/100/1000 Mbps Fast Ethernet/Gig Ethernet auto sensing ports, with minimum 41 Mpps for 64- byte packet forwarding rate</b>		
2	19-inch Rack-Mountable		
3	<b>Full-Duplex Operation on Fast Ethernet/ Gig Ethernet</b>		
4	Multiple Load Sharing Trunks		
5	<b>Minimum of 512 MB DRAM and 256 MB Flash memory</b>		
6	Support for minimum of 8000 MAC addresses		
7	IEEE 802.1Q VLAN Support - Port based VLANs		
8	RADIUS or TACACS + Support		
9	High MTBF Support		
10	The Switches must be able to generate Syslog Messages with timestamp and Severity codes, which can be exported to a Syslog Server.		
11	The Switches must be able to Build up its own inventory (like Device Name, Chassis Type, Memory, Flash, Software ver. Etc or equivalent fields)		
12	Configurable up to 255 IGMP groups		
13	Support for Local Proxy Address Resolution Protocol (ARP) to work in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.		
14	Rack mounting kit for securing the switch in standard rack are to be provided		
	<b>Layer 1 Features:</b>		
1	<b>Full-Duplex Operation on Fast Ethernet/Gig Ethernet</b>		
	<b>Layer 2 Features:</b>		
1	L2 Switching Support		
2	Multi-Link Trunking		
3	Ability to manage individual switches as a group for VLANs configuration purposes.		
4	Support for Spanning-Tree Protocol (IEEE 802.1D)		



5	STP Fast Calculation features as uplink fast for faster convergence or equivalent feature		
6	Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.		
	<b>QoS Features:</b>		
1	Support for Classification and scheduling based on 802.1p/Q		
2	Support for 802.1p class-of-service (CoS). Ability to Mark/override 802.1P CoS per port		
3	Four queues per egress port.		
4	Weighted Tail Drop(WTD) for congestion avoidance or equivalent feature		
	<b>Multicast Support:</b>		
1	Multicast must be supported in hardware so that performance is not affected by multiple multicast instances.		
2	L2 Multicast Support - IGMP Snooping		
3	Should support minimum of 255 multicast addresses or multicast groups		
	<b>Redundancy:</b>		
1	Link Aggregation		
2	Spanning Tree (802.1d) with support for spanning tree per VLAN		
3	Quick Failover over redundant links for improved network stability and reliability		
4	Support for IEEE rapid spanning tree.		
	<b>Security Features:</b>		
1	Support for External RADIUS for console access restriction and authentication		
2	Multi-Level access security on switch console to prevent unauthorized users		
3	Support for 802.1x port based authentication		
4	Support for IEEE 802.1x with Guest VLAN allows guests without 802.1x clients to have limited network access on the guest VLAN		
5	Configuration Change Tracking		
6	System Event Logging		
7	Syslog		
8	SNMP compatible		
9	Support for minimum of 30 Virtual LAN (VLAN)		



10	Support for Secured ports which restrict a port to a user-defined group of authorized stations. When secure addresses are assigned to a secure port, the switch should not forward any packets with source addresses outside the defined group of addresses		
	<b>Other Features:</b>		
1	The switch should have its own management software, which can be used remotely (through secured Web interface) to monitor, troubleshoot & manage the switch.		
2	The management software should integrate with any EMS product suite.		
3	The Switch should seamlessly integrate with existing network equipment's		
4	Layer 2 traceroute or equivalent feature to ease troubleshooting by identifying the physical path that a packet takes from the source device to a destination device.		
5	Should support Link layer Discovery Protocol		
6	Should Support DNS		
7	Secure access to switch management, limiting management applications from specific hosts only		
8	Should support BPDU guard to avoid topology loop.		
9	Unicast MAC filtering, unknown Unicast and multicast Port blocking		
10	Support for MAC address notification allows administrators to be notified of users added to or removed from the network.		
11	The operating system should have a self-healing mechanism /equivalent feature for the automatic recovery of the switch when a specified event occurs		
12	The software should have a mechanism to proactively detect and address potential hardware and software faults during runtime /equivalent		
13	Support Bidirectional data support on the SPAN port allows the intrusion Detection System (IDS) to take action when an intruder is detected		
14	ACL support for minimum 300 ACE (Access control entries) for a switch		





	<b>Network Management (Management Feature):-</b>		
1	Embedded support for Web based management using standard secured web browser.		
2	Support for SNMP v1, SNMP v2c, SNMP v3		
3	Support for TFTP based software download		
4	Support for port mirroring measurement using a network analyser or RMON probe		
5	RMON: 4 Group (Statistics, Alarm, Events, History), on every port, no impact to performance		
6	Switch must be remotely managed via one telnet session for all module configuration		
7	Should have functionality to add new features like IOS/Firmware upgrades from central location, etc		
8	Provisioned and Dynamic Policies at Layers 1-4 for QoS and Security		
9	Support for Dynamic VLAN assignment or equivalent feature is supported through implementation of VLAN Membership Policy Server (VMPS) client or equivalent functions to provide flexibility in assigning ports to VLANs. Dynamic VLAN or equivalent feature helps enable the fast assignment of IP addresses.		
10	Real Time Multi-Port Statistics		
11	Real Time Multi-Port Statistics		
12	Mac/IP Address Finder or equivalent feature		
13	Device and Port Groupings for Navigation and Policy Management		
14	Radius or TACACS+ server Support		
15	Private and Enterprise MIB / MIB		
16	Administrative Access Right		
17	Traffic Volume/Error/Congestion Monitoring		
18	TFTP Download/Upload Software		
19	The Switch should be able to discover the neighbouring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.		
	<b>IEEE Standard Compliance:</b>		
1	802.1 Q VLAN tagging		
2	802.1p Priority		



3	802.1D Spanning Tree		
4	802.3u Fast Ethernet		
5	802.3x Flow Control		
6	802.1x Authentication		
7	802.3ab Gigabit interface		
8	Support for Remote Authentication Dial in User service (RADIUS) change of authorization, URL Redirection and AAA		
9	Must have support to 802.1x network authentication and port security on a port basis which will help to deploy Network Access Control (NAC)		
10	802.1x support with following features:		
	a.802.1x with VLAN Assignment		
	b.802.1x Guest VLAN		
	c.802.1x- Auth-Fail VLAN or equivalent. (An auth fail VLAN allows users without valid credentials to access a limited set of services which can be controlled by an administrator		
	d.802.1x - Auth Fail Open or equivalent. (Auth Fail Open feature enables the administrator to apply a policy that allows users to have network access when the AAA server is unreachable.)		
	e.802.1xMAC-Auth-Bypass		
	f.802.1x with ACLS		
	g.802.1x Accounting		
	h. Web Authentication for Non 802.1x Clients		
	<b>i. Switch should support concurrent deployment of 802.1x and MAB Authentication.</b>		
	j. Critical VLAN in case of Radius server down should support custom VLAN as per Bank's Requirement.		
	<b>RFC (Request for Comment) Support:</b>		
1	768 UDP		
2	783 TFTP		
3	791 IP		
4	792 ICMP		
5	826 ARP		
6	854 Telnet		
7	1122 Host Requirements / ICMP		
8	1542 BootP		



9	2068 HTTP or Secure Sockets Layer (SSL) or equivalent		
10	2236 IGMP		
11	<b>NTP Version 4 or equivalent</b>		
	<b>NAC Features</b>		
1	Support for IEEE 802.1X-802.1X Port-Based Network Access Control: The switch must support IEEE 802.1X, which is the standard protocol for NAC. This allows the switch to authenticate devices before granting them network access.		
2	VLAN Support - Dynamic VLAN Assignment: The switch should support dynamic VLAN assignment based on the results of the authentication process. This allows devices to be placed into appropriate VLANs based on their authentication status.		
3	RADIUS Support - RADIUS Protocol Support: The switch must be able to communicate with a RADIUS server for authentication and authorization purposes. This includes support for RADIUS accounting if required.		
4	Access Control Lists (ACLs) - Advanced ACL Capabilities: To control access based on authentication results, the switch should support advanced ACLs (Access Control Lists) to enforce policies on authenticated devices.		
5	Quality of Service (QoS) - QoS Capabilities: Ensure the switch can apply QoS policies if needed, to prioritize traffic based on the authentication status or the type of device.		
6	Switch Firmware - Up-to-Date Firmware: The switch should have the latest firmware updates to ensure compatibility with NAC solutions and to benefit from the latest security patches and features.		
7	Management Interface - Web or CLI Interface: The switch should provide a management interface (web-based or CLI) for configuration and monitoring NAC settings.		



8	Integration with NAC Systems - NAC System Compatibility: The switch should be compatible with the NAC system you plan to use, whether it's Cisco Identity Services Engine (ISE), Aruba ClearPass, or another solution.		
9	Port Security Features - Port Security: The switch should support port security features that complement NAC, such as limiting the number of MAC addresses per port or securing unused ports.		
10	Hardware Capabilities - Sufficient Performance: Ensure that the switch has adequate performance and capacity to handle the additional load introduced by NAC, including processing authentication requests and applying policies.		
11	<b>Support for EAP Types- EAP Method Support:</b> <b>The switch should support the EAP (Extensible Authentication Protocol) methods required by our NAC solution, such as EAP-PEAP,EAPTLS, EAP-TTLS, CHAP, EAP-MSCHAPV2, EAP-FAST etc.</b>		
12	Logging and Monitoring - Logging Capabilities: The switch should have adequate logging capabilities to record authentication events, which are useful for troubleshooting and auditing.		
13	Redundancy and High Availability - HA Features: For mission-critical environments, ensure the switch supports redundancy and high availability features to maintain network access in case of switch failure.		
14	Change of Authorization (CoA) - Change of Authorization (CoA) is a mechanism used to dynamically alter the network access of a user or device after initial authentication. It allows for changes to be made to the authorization of a session without requiring the user or device to re-authenticate. The switch must support CoA to dynamically apply changes to network access.		



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Addendum - 01 dated 17<sup>th</sup> October 2024

**Annexure 20 - Certificate of Local Content (Revised)**

*(Format for Domestic Value Addition in terms of guidelines issued for procurement of notified products by government)*

Item No.	Item Description	Manufacturer/ Supplier	Country of Origin	Domestic Value addition in Percentage (%)

For and on behalf of \_\_\_\_\_ (Name of Firm/entity)

Authorized signatory (To be fully authorized by the Board of Directors)

<Insert Name, Designation and Contact no. and Date>



**Annexure 23 - Format for Self-Certification regarding Local Content (LC) for Telecom Product, Services or Works (New)**

Date:

\_\_\_\_\_ S/o, D/o, W/o \_\_\_\_\_, Resident of \_\_\_\_\_ do hereby solemnly affirm and declare as under:

That I agree to abide by the terms and conditions of Department of Telecommunications, Government of India issued vide Notification No:..... dated.....

That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any other authority so nominated by the Department of Telecommunications, Government of India for the purpose of assessing the LC.

That the LC for all inputs which constitute the said Telecom Product/Services/Works has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the LC of the Telecom Product/Services/Works mentioned herein is found to be incorrect and not meeting the prescribed LC norms, based on the assessment of an authority so nominated by the Department of Telecommunications, Government of India and I will be liable as under clause **9(f) of Public Procurement (Preference to Make in India) Order 2017**.

I agree to maintain all information regarding my claim for LC in the Company's record for a period of 2 years and shall make this available for verification to any statutory authorities.

- i. Name and details of the Local supplier (Registered Office, Manufacturing unit location, nature of legal entity)
- ii. Date on which this certificate is issued
- iii. Telecom Product/Services/Works for which the certificate is produced  
Procuring agency to whom the certificate is furnished
- iv. Percentage of LC claimed
- v. Name and contact details of the unit of the manufacturer
- vi. Sale Price of the product
- vii. Ex-Factory Price of the product
- viii. Freight, insurance and handling
- ix. Total Bill of Material
- x. List and total cost value of inputs used for manufacture of the Telecom Product/Services/Works
- xi. List and total cost of inputs which are locally sourced. Please attach LC certificates from local suppliers, if the input is not in-house.
- xii. List and cost of inputs which are imported, directly or indirectly

For and on behalf of \_\_\_\_\_ (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)  
<Insert Name, Designation and Contact No. and date>