



## Department of Information Technology

### **Request for Proposal (RFP) for Supply, Delivery, Installation and Maintenance of Network Devices**

**RFP Ref. No: DIT/BPR & BTD/OA/4412/2019-20 Date: 02/12/2019**

### **Amendments, Addendums and Corrigendum's**

### **3 .ELIGIBILITY CRITERIA (PART-I)**

Clause No	Existing Clause	Modified Clause
4	<p>The bidder must have supplied, implemented and maintaining / maintained SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches &amp; 8 Leaf switches, VPN Concentrator/Firewall and L3 Switches in minimum 2 organizations out of Public Sector Banks / Private Sector Banks/ BSE / NPCI / RBI/ PSUs/State data centers/RRBs through sponsored Bank/ Payment Bank in India.</p> <p>Purchase order in name of bidder And execution/installation certificate from existing customer(s) to be submitted.</p>	<p>The bidder must have supplied, implemented and maintaining / maintained SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches &amp; 8 Leaf switches, VPN Concentrator/Firewall and L3 Switches in minimum 1 organizations out of Public Sector Banks / Private Sector Banks/ BSE / NPCI / RBI/ PSUs/State data centers/RRBs through sponsored Bank/ Payment Bank in India.</p> <p>Purchase order in name of bidder And execution/installation certificate from existing customer(s) to be submitted.</p>

### **SCOPE OF THE WORK (Part-IV)**

Clause No	Existing Clause	Modified Clause
44	Proposed core firewall should connect with leaf switch/spine switch with minimum 100G port.	Proposed core firewall should connect with leaf switch or spine switch with minimum 40G port. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period
Page 34- Leaf switch copper (II)	Switch should have minimum 2 fibre uplinks of 100G ports with the spine switch	Minimum fiber uplink bandwidth between leaf (copper) switch to spine switch should be 100 Gbps. Copper leaf switch should have minimum 40 Gbps fiber port or higher bandwidth fiber port for connecting with spine switch.

### **TECHNICAL REQUIREMENTS OF VPN MODULES**

Clause No	Existing Clause	Modified Clause
5	VPN modules Processors should have minimum 4GB of flash memory or more to	VPN modules Processors should have minimum 1GB of flash memory or more to

	support multiple software images for backup purposes, log report and future scalability	support multiple software images for backup purposes, log report and future Scalability. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period.
23	<p>Dedicated Processor should perform the following functions in hardware :</p> <ul style="list-style-type: none"> <li>• QoS classification, policing and shaping.</li> <li>• NAPT44, NAPT64, NAT-PT, NAPT66, NAT44, 6to4, Twice-NAT44, 6in4, PAT-PP, Dynamic-NAT.</li> <li>• 8000 VPLS instances.</li> <li>• Multicast replication, Security access control lists (ACLs).</li> <li>• 5000 IPSec VPN tunnels.</li> <li>• Support flow mechanism</li> </ul> <p>The Services Processor should additionally support the following functions in hardware &amp; should be enabled using appropriate software licenses only if required, without the need for additional hardware:</p> <ul style="list-style-type: none"> <li>• Firewalls &amp; detection of denial-of-service (DoS) attacks .</li> <li>• Nested Application Recognition</li> <li>• Network Address Translation (NAT) as per 1631.</li> </ul> <p>The Service Processor should meet the following performance specifications:</p> <ul style="list-style-type: none"> <li>• More than 3500 ACLs/filters</li> <li>• 4000 GRE tunnels, minimum 2 million flows</li> <li>• 128000 MAC addresses.</li> <li>• 7000 VRFs.</li> <li>• Should support at least 3 Million 1Pv4 and IPv6 routes.</li> </ul>	<p>Dedicated Processor should perform the following functions in hardware :</p> <ul style="list-style-type: none"> <li>• QoS classification, policing and shaping.</li> <li>• NAPT44, NAT-PT, Dynamic-NAT.</li> <li>• 8000 VPLS instances.</li> <li>• Multicast replication, Security access control lists (ACLs).</li> <li>• 5000 IPSec VPN tunnels.</li> <li>• Support flow mechanism</li> </ul> <p>The Services Processor should additionally support the following functions in hardware &amp; should be enabled using appropriate software licenses only if required, without the need for additional hardware:</p> <ul style="list-style-type: none"> <li>• Firewalls &amp; detection of denial-of-service (DoS) attacks .</li> <li>• Nested Application Recognition</li> <li>• Network Address Translation (NAT) as per 1631.</li> </ul> <p>The Service Processor should meet the following performance specifications:</p> <ul style="list-style-type: none"> <li>• More than 3500 ACLs/filters</li> <li>• 4000 GRE tunnels, , minimum 2 million flows</li> <li>• Minimum 60000 MAC addresses</li> <li>• Minimum 4000 VRFs</li> <li>• Should support at least 3 Million 1Pv4 and IPv6 routes</li> </ul> <p>However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period.</p>

### **LEAF SWITCH (COPPER) REQUIREMENTS**

Clause No	Existing Clause	Modified Clause
3.3	Must have 4 or more no. of 40G/100G QSFP based Fiber ports per switch for uplinks with spine switch.	Minimum fiber uplink bandwidth between leaf (copper) switch to spine switch should be 100 Gbps. Copper leaf switch should have minimum 40 Gbps fiber port or higher bandwidth fiber port for connecting with spine switch.

## **2 PAIR OF CORE FIREWALL (TYPE 1) TECHNICAL REQUIREMENTS AT DC & DR**

Clause No	Existing Clause	Modified Clause
<b>2</b>	Firewall should have at least 6 no. of 10 G ports SFP port and 4 nos. of 40G/100 G port and 2 nos. 1 Gbps Ethernet port.	Firewall should have at least 6 no. of 10 G ports SFP port and 4 nos. of 40G port and 2 nos. 1 Gbps Ethernet port.
<b>44</b>	The solution should support the following File/Media Types for Malware Identification: PDF, ZIP, 7Z, RAR, CAB, PKZIP, EXE, SCR, CPL, Java, Flash, MS Office files.	The solution should support the following File/Media Types for Malware Identification: PDF, ZIP/7Z/RAR/CAB/PKZIP, EXE, SCR/CPL/Java, Flash, MS Office files etc. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period
<b>54</b>	The solution should provide the ability to upload gold image and analyse threats under conditions of actual host environment.	Clause stands deleted

## **3 PAIR OF INTERNET & EXTRANET FACING FIREWALL (TYPE-2) TECHNICAL REQUIREMENTS AT DC & DR**

Clause No	Existing Clause	Modified Clause
<b>45</b>	The solution should support the following File/Media Types for Malware Identification: PDF, ZIP, 7Z, RAR, CAB, PKZIP, EXE, SCR, CPL, Java, Flash, MS Office.	The solution should support the following File/Media Types for Malware Identification: PDF, ZIP/7Z/RAR/CAB/PKZIP, EXE, SCR/CPL/Java, Flash, MS Office etc. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period.

## **CORRIGENDUM-5**

Clause No	Existing Clause	Modified Clause
<b>12 (5)</b>	Type-1 Firewall should have at least 6 no. of 10 G ports fiber port and 4 nos. of 40G/100 G fiber port and 2 nos. 1 G (Copper) Ethernet port. Type -1 Firewall should be fully populated with fiber module (10 G and 40/100 G) for fiber connectivity with proposed leaf/spin switches OS per requirement	Type-1 Firewall should have at least 6 no. of 10 G ports fiber port and 4 nos. of 40G fiber port and 2 nos. 1 G (Copper) Ethernet port. Type -1 Firewall should be fully populated with fiber module (10 G and 40 G) for fiber connectivity with proposed leaf or spin switches OS per requirement

## **5. CONTRACT PERIOD**

Clause No	Existing Clause	Modified Clause
<b>5</b>	The contract period will be for a period of Five Years from the date of Agreement (SLA). The machines shall carry warranty for a period of 3 years from each installation	The contract period will be for a period of Five Years from the date of Agreement (SLA). The machines shall carry warranty for a period of 3 years from each installation

	<p>and accepted by the Bank and 2 Years AMC after warranty period.</p> <p>SLA will cover performance and availability of the solution deployed for a period of Six years from the date of each installation and acceptance by the bank. The performance of the vendor shall be reviewed monthly, if not found satisfactory, Bank may terminate the contract at its sole discretion by giving three months' notice without assigning any reasons. Any offer falling short of the contract period is liable for rejection. The vendor however shall keep the price valid for a period of one year from the date of agreement</p>	<p>and accepted by the Bank and 2 Years AMC after warranty period.</p> <p>SLA will cover performance and availability of the solution deployed for a period of Six years from the date of each installation and acceptance by the bank. The performance of the vendor shall be reviewed Quarterly, if not found satisfactory, Bank may terminate the contract at its sole discretion by giving three months' notice without assigning any reasons. However, bank shall pay valid payment for the hardware &amp; services rendered till the date of termination. Any offer falling short of the contract period is liable for rejection. The vendor however shall keep the price valid for a period of one year from the date of agreement.</p>
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## **20. EXIT OPTION AND CONTRACT RE-NEGOTIATION**

Existing Clause	Modified Clause
<p><b>a)</b> The Bank reserves the right to cancel the contract in the event of happening one or more of the following Conditions:</p> <ul style="list-style-type: none"> <li>➤ Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 30 days of receipt of purchase contract;</li> <li>➤ Delay in offering equipments for pre-delivery Inspection;</li> <li>➤ Delay in delivery beyond the specified period;</li> <li>➤ Delay in completing installation / implementation of Network devices / checks beyond the specified periods;</li> <li>➤ Serious discrepancy in hardware noticed during the pre-dispatch factory inspection; and</li> <li>➤ Serious discrepancy in functionality to be provided or the performance levels agreed upon, which have an impact on the functioning of the Bank.</li> <li>➤ Serious discrepancy in completion of project.</li> <li>➤ Serious discrepancy in maintenance of project.</li> </ul> <p><b>b)</b> In addition to the cancellation of purchase contract, Bank reserves the right to appropriate the damages through encashment of Bid Security/ Performance Bank Guarantee given by the Selected Bidder.</p> <p><b>c)</b> The Bank will reserve a right to re-negotiate the price and terms of the entire contract with the</p>	<p><b>a)</b> The Bank reserves the right to cancel the contract in the event of happening one or more of the following Conditions:</p> <ul style="list-style-type: none"> <li>➤ Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 30 days of receipt of purchase contract;</li> <li>➤ Delay in offering equipments for pre-delivery Inspection;</li> <li>➤ Delay in delivery beyond the specified period;</li> <li>➤ Delay in completing installation / implementation of Network devices / checks beyond the specified periods;</li> <li>➤ Serious discrepancy in hardware noticed during the pre-dispatch factory inspection; and</li> <li>➤ Serious discrepancy in functionality to be provided or the performance levels agreed upon, which have an impact on the functioning of the Bank.</li> <li>➤ Serious discrepancy in completion of project.</li> <li>➤ Serious discrepancy in maintenance of project.</li> </ul> <p><b>b)</b> In addition to the cancellation of purchase contract, Bank reserves the right to appropriate the damages through</p>

<p>Selected Bidder at more favourable terms for Bank in case such terms are offered in the industry at that time for projects of similar and comparable size, scope and quality.</p> <p><b>d)</b> The Bank shall have the option of purchasing the equipment from third-party suppliers, in case such equipment is available at a lower price and the Selected Bidder's offer does not match such lower price. Notwithstanding the foregoing, the Selected Bidder shall continue to have the same obligations as contained in this scope document in relation to such equipment procured from third-party suppliers.</p> <p><b>e)</b> As aforesaid the Bank would procure the equipment from the third party only in the event that the equipment was available at more favourable terms in the industry, and secondly,</p> <p><b>f)</b> The Equipment procured here from third parties is functionally similar, so that the Selected Bidder can maintain such equipment.</p> <p><b>g)</b> Notwithstanding the existence of a dispute, and/or the commencement of arbitration proceedings, the Selected Bidder will be expected to continue the services. The Bank shall have the sole and absolute discretion to decide whether proper reverse transition mechanism over a period of 6 to 12 months, has been complied with. In the event of the conflict not being resolved, the conflict will be resolved through Arbitration.</p> <p><b>h)</b> The Bank and the Selected Bidder shall together prepare the Reverse Transition Plan. However, the Bank shall have the sole decision to ascertain whether such Plan has been complied with.</p> <p><b>i)</b> Reverse Transition mechanism would typically include service and tasks that are required to be performed / rendered by the Selected Bidder to the Bank or its designee to ensure smooth handover and transitioning of Bank's deliverables, maintenance.</p>	<p>encashment of Bid Security/ Performance Bank Guarantee given by the Selected Bidder.</p> <p><b>c)</b> Clause stands deleted.</p> <p><b>d)</b> The Bank shall have the option of purchasing the equipment from third-party suppliers, in case such equipment is available at a lower price and the Selected Bidder's offer does not match such lower price. Notwithstanding the foregoing, the Selected Bidder shall continue to have the same obligations as contained in this scope document in relation to such equipment procured from third-party suppliers.</p> <p><b>e)</b> Clause stands deleted,</p> <p><b>f)</b> Clause stands deleted.</p> <p><b>g)</b> Notwithstanding the existence of a dispute, and/or the commencement of arbitration proceedings, the Selected Bidder will be expected to continue the services. The Bank shall have the sole and absolute discretion to decide whether proper reverse transition mechanism over a period of 6 to 12 months, has been complied with. In the event of the conflict not being resolved, the conflict will be resolved through Arbitration.</p> <p><b>h)</b> The Bank and the Selected Bidder shall together prepare the Reverse Transition Plan. However, the Bank shall have the sole decision to ascertain whether such Plan has been complied with.</p> <p><b>i)</b> Reverse Transition mechanism would typically include service and tasks that are required to be performed / rendered by the Selected Bidder to the Bank or its designee to ensure smooth handover and transitioning of Bank's deliverables, maintenance.</p>
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**Note:**

- Bidders are requested to submit their commercial bid in the revised commercial format only.
- The bid submission date has been extended to 18.02.2020 upto 4:00 pm. Bidders are requested to adhere the timeline.

**Date: 07.02.2020**

**Place- Kolkata**