



UCO BANK
Department of Information Technology

Request for Proposal (RFP) for Network Facility Management, AMC and Replacement of Network Devices

RFP Ref. No: DIT/BPR & BTD/OA/0007/2020-21 Date: 02/04/2020

Amendments, Addendums and Corrigendum's

RFP PART-1

DEFINITIONS:

- **"Gross Negligence"** means an indifference to, and/or a blatant violation of a legal duty with respect of the rights of others, being a conscious and voluntary disregard of the need to use reasonable care, which is likely to cause foreseeable grave injury or harm to persons, property, or both. Gross negligence involves conduct that is extreme, when compared with ordinary negligence. A mere failure to exercise reasonable care shall not be a gross negligence.
- **"Wilful Misconduct"** means any act or failure to act with an intentional disregard of any provision of this RFP/Contract, which a party knew or should have known if it was acting as a reasonable person, which would result in injury, damage to life, personal safety, real property, harmful consequences to the other party, but shall not include any error of judgment or mistake made in good faith.

3. ELIGIBILITY CRITERIA

SL No	Existing clause	Modified Clause
4	The proposed OEM product should be: 1. SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches & 10 Leaf switches for at least 1 years in 1 nos. of Financial Institution/Bank in India. 2. Core & peripheral Firewall, Core Router, VPN Concentrator and L3 Switch should be running in at least one Public Sector Banks/ Private Sector Banks/ BSE / NPCI / RBI/ PSUs.	The proposed OEM product should be: 1. SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches & 10 Leaf switches for at least 1 years in 1 nos. of Financial Institution/Bank/ BSE/NPCI/RBI/ PSUs in India. 2. Core & peripheral Firewall/VPN Concentrator , Core Router and L3 Switch should be running in at least one Public Sector Banks/ Private Sector Banks/ BSE /

	<p>3. Minimum 1000 nos. of Branch Router, L2 Switch should be running in at least one Public Sector Banks/ Private Sector Banks/ BSE / NPCI / RBI/ PSUs in India at time of submission of this RFP.</p>	<p>NPCI / RBI/ PSUs in India at time of submission of this RFP.</p> <p>3. Minimum 1000 nos. of Branch Router, L2 Switch should be running in at least one Public Sector Banks/ Private Sector Banks/ BSE / NPCI / RBI/ PSUs in India at time of submission of this RFP</p>
5	<p>The Bidder should have the experience in Supply, Installation, Configuration & Maintenance of</p> <p>1. SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches & minimum 5 Leaf switches for at least 1 year from the actual date of submission of RFP in 1 nos. of Financial Institution/Bank in India/PSU/ Government of India. (Document proof: Purchase order in the name of bidder and satisfactory experience /execution certificate/ completion certificate/Installation certificate from Existing customer(s).]</p> <p>2. Core & peripheral Firewall, Core Router, VPN Concentrator and L3 Switch should be running in at least one Public Sector Bank/ Private Sector Bank having 1000 branches in India at time of submission of this RFP.</p> <p>3. Minimum 1000 nos. of Branch Router, L2 Switch and MPLS links & facility Management services should be running in at least one Public Sector Bank/ Private Sector Bank in India for minimum of three years during the period of last 5 years.</p>	<p>The Bidder should have the experience in Supply, Installation, Configuration & Maintenance of</p> <p>1. SDN / SDN ready Data Centre Fabric of minimum 2 Spine switches & minimum 5 Leaf switches for at least 1 year from the actual date of submission of RFP in 1 nos. of Financial Institution/Bank in India/PSU/ Government of India. (Document proof: Purchase order in the name of bidder and satisfactory experience /execution certificate/ completion certificate/Installation certificate from Existing customer(s).]</p> <p>2. VPN Concentrator/Core & peripheral Firewall, Core Router and L3 Switch should be running in at least one Public Sector Bank/ Private Sector Bank having 1000 branches in India at time of submission of this RFP.</p> <p>3. The Bidder should have the experience in Maintenance of minimum 1000 nos. of Branch Router, L2 Switch and MPLS links & facility Management services should be running in at least one Public Sector Bank/ Private Sector Bank/State Data Centers in India for minimum of three years during the period of last 5 years.</p>

5. CONTRACT PERIOD

Existing clause	Modified Clause
The contract period will be for a period of Three Years from the date of Agreement (SLA). The	The contract period will be for a period of Three Years from the date of Agreement

<p>machines shall carry warranty for a period of 3 years from each installation and accepted by the Bank. Bank reserves the right to extend the contract for a further period of 1 Years on mutually agreed terms and condition.</p> <p>SLA will cover performance and availability of the solution deployed for a period of three 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 & services rendered till the date of termination.</p> <p>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>(SLA). The machines shall carry warranty for a period of 3 years from each installation and accepted by the Bank. Bank reserves the right to extend the contract for a further period of 1 Years on mutually agreed terms and condition.</p> <p>SLA will cover performance and availability of the solution deployed for a period of three 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 provide bidder a cure period of 30 days. Post these 30 days, if the bank feels that the performance is not improved then the bank can terminate the contract at its sole discretion by giving 60 days notice. However, bank shall pay valid payment for the hardware & services rendered till the date of termination.</p> <p>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>

30 . LIMITATION OF LIABILITY

Existing clause	Modified Clause
<p>Bidder's aggregate liability under the contract shall be limited to a maximum of the contract value. This limit shall not apply to third party claims for</p> <p>a. IP Infringement indemnity. b. Bodily injury (including Death) and damage to real property and tangible property caused by Bidder/s' gross negligence. For the purpose of this section, contract value at any given point of time, means the aggregate value of the purchase orders placed by Bank on the Bidder that gave rise to claim, under this RFP.</p>	<p>Bidder's aggregate liability under the contract shall be limited to a maximum of the contract value (TCO). This limit shall not apply to third party claims for</p> <p>a) IP Infringement indemnity. b) Bodily injury (including Death) and damage to real property and tangible property caused by Bidder/s' gross negligence. For the purpose of this section, contract value at any given point of time, means the aggregate value of the purchase orders placed by Bank on the Bidder that gave rise to claim, under this RFP.</p>

Bidder shall be liable for any indirect, consequential, incidental or special damages under the agreement/ purchase order	<p>c) The Bidder shall not be liable to the Bank for –</p> <ul style="list-style-type: none"> (i) Any loss of profits, revenue, contracts, or anticipated savings or (ii) Any consequential or indirect loss or damage however caused, <p>Provided that the claims against customers, users and service providers of the Bank would be considered as a “direct claim”.</p> <p>Service Provider will ensure Bank's data confidentiality and shall be responsible for liability arising in case of breach of any kind of security and/or leakage of confidential customer/Bank's related information to the extent of loss cause (maximum upto TCO).</p>
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9. PAYMENT TERMS

Existing clause	Modified Clause
<ul style="list-style-type: none"> ➤ ATS for the software will be paid in advance. ➤ Payment of AMC/FM will be quarterly in arrears after deducting the penalties if any 	<ul style="list-style-type: none"> ➤ ATS for the software/license will be paid in advance ➤ The payment of AMC will be made quarterly in arrears after deducting the penalties, if any. ➤ The payment of FM will be made monthly in arrears after deducting the penalties, if any.

13. LIQUIDATED DAMAGE

Existing clause	Modified Clause
Any delay in delivery/installation/ commissioning/ shifting/upgradation of the device/equipment/ solution beyond the stipulated time period as per clause no. 47, Bank will charge penalty at 0.5 % of the respective items as per PO for that device/ equipment/implementation cost per week or part thereof, subject to a maximum of 10%. The bank may at its discretion also waive or reduce the penalty if the reasons	Any delay in delivery/ installation/ Commissioning / shifting/upgradation of the device/equipment/ solution beyond the stipulated time period as per clause no. 47, Bank will charge penalty at 0.5 % of the respective items as per PO for that device/equipment /implementation cost per week or part thereof, subject to a maximum of 10% of TCO . The bank may at its discretion also waive or reduce the penalty if the reasons for

for delay are considered to be justified. After elapsing of stipulated time period including 12 Weeks Liquidated damages period, if selected bidder fails to implement, the order will be deemed cancelled after imposing necessary penalty amount & Bank will deduct the same from Performance Bank Guarantee or from any outstanding payment	delay are considered to be justified. After elapsing of stipulated time period, if selected bidder fails to implement, the order will be deemed cancelled after imposing necessary penalty amount & Bank will deduct the same from Performance Bank Guarantee or from any outstanding payment.
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15. ORDER CANCELLATION

<u>Clause No</u>	Existing clause	Modified Clause
G	In case the selected bidder fails to deliver the link to the mentioned branches as stipulated in the delivery schedule, BANK reserves the right to provide the same link or similar link from alternate sources at the risk, cost and responsibility of the selected bidder	In case the selected bidder fails to deliver the link to the mentioned branches as stipulated in the delivery schedule, BANK reserves the right to provide the same link or similar link from alternate sources at the risk, cost and responsibility of the selected bidder. The selected bidder is bound to make good the additional expenditure (limited to 25% maximum), which BANK may have to incur in executing the balance contract.
H	After award of the contract, if the selected bidder does not perform satisfactorily or delays execution of the contract, BANK reserves the right to get the balance contract executed by another party of its choice by giving one month's notice for the same. In this event, the selected bidder is bound to make good the additional expenditure, which BANK may have to incur in executing the balance contract. This clause is applicable, if for any reason, the contract is cancelled for any reason, whatsoever	After award of the contract, if the selected bidder does not perform satisfactorily or delays execution of the contract, BANK reserves the right to get the balance contract executed by another party of its choice by giving one month's notice for the same. In this event, the selected bidder is bound to make good the additional expenditure (limited to 25%) , which BANK may have to incur in executing the balance contract. This clause is applicable, if for any reason, the contract is cancelled for any reason, whatsoever.

16. INDEMNITY

Clause No	Existing clause	Modified Clause
ii	breach of any of the terms of this RFP or breach of any representation or warranty by the Vendor	Material breach of any of the terms of this RFP or breach of any representation or false representation or inaccurate statement or assurance or covenant or warranty of the service provider under this RFP.

23. EXIT OPTION AND CONTRACT RE-NEGOTIATION

Existing clause	Modified Clause
<p>a) 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"> ➤ Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 30 days of receipt of purchase contract; ➤ Delay in offering equipments for pre-delivery Inspection; ➤ Delay in delivery beyond the specified period; ➤ Delay in completing installation / implementation of Network devices / checks beyond the specified periods; ➤ Serious discrepancy in hardware noticed during the pre-dispatch factory inspection; and ➤ Serious discrepancy in functionality to be provided or the performance levels agreed upon, which have an impact on the functioning of the Bank. ➤ Serious discrepancy in completion of project. ➤ Serious discrepancy in maintenance of project. 	<p>a) 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"> ▪ Failure of the Selected bidder to accept the contract / purchase order and furnish the Performance Guarantee within 30 days of receipt of purchase contract; ▪ Delay in offering; ▪ Delay in commissioning project beyond the specified period; ▪ Delay in completing commissioning / implementation and acceptance tests / checks beyond the specified periods; ▪ Serious discrepancy in project noticed during the testing; ▪ Serious discrepancy in functionality to be provided or the performance levels agreed upon, which have an impact on the functioning of the Bank. ▪ Serious discrepancy in completion of project. ▪ Serious discrepancy in maintenance of project. <p>b) In addition to the cancellation of purchase contract, Bank reserves the right to</p>

<p>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>c) 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>d) 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>e) 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>f) 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>appropriate the damages through encashment of Bid Security / Performance Guarantee given by the Selected Bidder.</p> <p>c) The Bank will reserve a right to re-negotiate the price and terms of the entire contract with the Selected Bidder at more favorable terms in case such terms are offered in the industry at that time for projects of similar and comparable size, scope and quality.</p> <p>d) 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>e) As aforesaid the Bank would procure the equipment from the third party only in the event that the equipment was available at more favorable terms in the industry, and secondly,</p> <p>f) The Equipment procured here from third parties is functionally similar, so that the Selected Bidder can maintain such equipment.</p> <p>g) The modalities under this right to re-negotiate /re-procure shall be finalized at the time of contract finalization.</p> <p>h) 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>i) The Bank and the Selected Bidder shall together prepare the Reverse Transition</p>
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	<p>Plan. However, the Bank shall have the sole decision to ascertain whether such Plan has been complied with.</p> <p>j) 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 and facility management</p>
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26. EFFECT OF TERMINATION

Existing clause	Modified Clause
<p>...</p> <p>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 and maintenance. Same terms (including payment terms) which were applicable during the term of the contract/ purchase order should be applicable for reverse transition services.</p> <p>...</p>	<p>...</p> <p>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 and maintenance. Same terms (including payment terms) which were applicable during the term of the contract/ purchase order should be applicable for reverse transition services.</p> <p>In the event of expiration or termination (for any reason whatsoever) of the contract, reverse transition period shall be for a period of 3 to 6 months from the date of expiry or effective termination of the contract. In case transition period is within the contract period then reverse transition to be delivered at no additional cost, however, if reverse transition exceeds the contract period then same may be delivered at mutually agreed terms and conditions for the additional period.</p> <p>...</p>

34. WARRANTY & AMC (NEW CLAUSE ADDED)

All the new network equipments purchased under this RFP should be covered under **3 years** warranty. Bidder need to submit declaration from OEM for the same mentioning proposed product make, model, part no and qty. Bank may extend the comprehensive AMC for after 3 years of contract at mutually agreed terms & conditions.

PROFORMA FOR DEED OF INDEMNITY

(To be stamped as per the Stamp Law of the Respective State)

This Deed of Indemnity executed at On the ____ day of _____ by M/s _____ (hereinafter referred to as "the Obligor" which expression shall unless it be repugnant to the context, subject or meaning thereof, shall be deemed to mean and include successors and permitted assigns);

IN FAVOUR OF

UCO Bank a body corporate constituted under the Banking Companies (Acquisition and transfer of undertakings) Act, 1970, having its Head Office at No. 10, BTM Sarani, Kolkata-700001 (hereinafter referred to as "UCO Bank", which expression unless expressly excluded or repugnant to the context shall also include its successor, assigns, attorneys, agents, representatives, authorized officer and all and any such officer having the power and authority to represent the Bank)

WHEREAS

The Obligor has

- A. offered to supply and install about _____ Network Facility Management, AMC and Replacement of Network Devices with the specifications as prescribed in the Agreement / Contract dated _____ during the period of one year from the date of acceptance of the purchase orders issued by the Bank from time to time. RFP for Network Facility Management, AMC and Replacement of Network Devices by the obligor is herein after referred to as "**Supply**".
- B. Agreed to install and provide comprehensive maintenance for the Equipments, material used and workmanship by them in terms of the Agreement / Contract dated _____ and respective Purchase Orders issued from time to time during the warranty period of **36 months** and during the post warranty period if required at the discretion of UCO BANK. (The installation and maintenance are herein after collectively referred to as "**Service/s**").
- C. Represented and warranted that they have all permissions, consents, approvals from all authorities, both regulatory and non-regulatory, for Network Facility Management, AMC and Replacement of Network Devices and provide other Service/s to UCO BANK.
- D. Represented and warranted that the aforesaid supply/services offered to UCO BANK do not violate any provisions of the applicable laws, regulations or guidelines including legal and environmental. In case there is any violation of any law, rules or regulation, which is capable of being remedied, the same will be got remedied immediately during the installation, maintenance and contract period to the satisfaction of UCO BANK.
- E. Represented and warranted that they are authorized and legally eligible and otherwise

entitled and competent to enter into such Contract/ Agreement with UCO BANK.

2. UCO BANK, relying and based on the aforesaid representations and warranties of the Obligor, has agreed to getting supplied and installed about _____ Network Facility Management, AMC and Replacement of Network Devices with the specifications contained in its Agreement/Contract dated _____ with the Obligor;
3. One of the conditions of the aforesaid Agreement is that the Obligor is required to furnish an indemnity in favour of UCO BANK indemnifying the latter against any claims, losses, costs, actions, suits, damages and / or otherwise arising due to or on account of Obligor's violations of any trademarks, patents, copyrights and licenses, the applicable laws, regulations, guidelines during the Supply / Services to UCO BANK as also for breach committed by the Obligor on account of misconduct, omission and negligence by the Obligor.
4. In pursuance thereof, the Obligor has agreed to furnish an indemnity in the form and manner and to the satisfaction of UCO BANK as hereinafter appearing;

NOW THIS DEED WITNESSETH AS UNDER:-

In consideration of UCO BANK having agreed to award the aforesaid contract to the Obligor, more particularly described and stated in the aforesaid Agreement/Contract, the Obligor do hereby agree and undertake that:-

- (1) the Obligor shall, at all times hereinafter, save and keep harmless and indemnified UCO BANK, including its respective directors, officers, and employees and keep them indemnified from and against any claim, demand, losses, liabilities or expenses of any nature and kind whatsoever and by whomsoever made in respect of the said contract and any damage caused from and against all suits and other actions that may be instituted taken or preferred against UCO BANK by whomsoever and all losses, damages, costs, charges and expenses that UCO BANK may incur by reason of any claim made by any claimant for any reason whatsoever or by anybody claiming under them or otherwise for any losses, damages or claims arising out of all kinds of accidents, destruction, deliberate or otherwise, direct or indirect, from those arising out of violation of applicable laws, regulations, guidelines and also from the environmental damages, if any, which may occur during the contract period.
- (2) The Obligor further agrees and undertakes that the Obligor shall, during the contract period, ensure that all the permissions, authorizations, consents are obtained from the local and/or municipal and/or governmental authorities, as may be required under the applicable laws, regulations, guidelines, orders framed or issued by any appropriate authorities.
- (3) The Obligor further agrees to provide complete documentation of all of Network Devices and other software, they are having. The Obligor shall also indemnify and keep indemnified UCO BANK against any levies/penalties/claims/demands, litigations, suits, actions, judgments, in this regard.

- (4) If any additional approval, consent or permission is required by the Obligor to execute and perform the contract during the currency of the contract, they shall procure the same and/or comply with the conditions stipulated by the concerned authorities without any delay.
- (5) The obligations of the Obligor herein are irrevocable, absolute and unconditional, in each case irrespective of the value, genuineness, validity, regularity or enforceability of the aforesaid Agreement/Contract or the insolvency, bankruptcy, reorganization, dissolution, liquidation or change in ownership of UCO BANK or Obligor or any other circumstance whatsoever which might otherwise constitute a discharge or defence of an indemnifier.
- (6) The obligations of the Obligor under this deed shall not be affected by any act, omission, matter or thing which, would reduce, release or prejudice the Obligor from any of the indemnified obligations under this indemnity or prejudice or diminish the indemnified obligations in whole or in part, including in law, equity or contract (whether or not known to it, or to UCO BANK).
- (7) This indemnity shall survive the aforesaid Agreement.
- (8) Any notice, request or other communication to be given or made under this indemnity shall be in writing addressed to either party at the address stated in the aforesaid Agreement and or as stated above.
- (9) This indemnity shall be governed by, and construed in accordance with, the laws of India. The Obligor irrevocably agrees that any legal action, suit or proceedings arising out of or relating to this indemnity may be brought in the Courts/Tribunals at Kolkata. Final judgment against the Obligor in any such action, suit or proceeding shall be conclusive and may be enforced in any other jurisdiction, by suit on the judgment, a certified copy of which shall be conclusive evidence of the judgment, or in any other manner provided by law. By the execution of this indemnity, the Obligor irrevocably submits to the exclusive jurisdiction of such Court/Tribunal in any such action, suit or proceeding.
- (10) UCO BANK may assign or transfer all or any part of its interest herein to any other person. Obligor shall not assign or transfer any of its rights or obligations under this indemnity, except with the prior written consent of UCO BANK

IN WITNESS WHEREOF the Obligor has signed these presents on the day, month and year first above written.

Signed and Delivered on behalf of (_____)

By the hand of (_____) the authorized official of the Obligor)

RFP PART-II

[NOTE- In the technical specifications/requirement: Type-2 Firewall (at DC DR for Extranet & Internet) has been dropped and Type-3 Firewall with specifications/requirement has been renamed as Type-2 Firewall]

SCOPE OF THE WORK (PART-IV)

SL No	Existing clause	Modified Clause
6 (i)	One project manager of DR site (should be available during business hours (9 am - 7pm) for overall managing the project apart from the manpower mentioned in the manpower table	One project manager of DR site (should be available during business hours (10 am - 7pm) for overall managing the project apart from the manpower mentioned in the manpower table
48	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 7 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank.	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years.
69	The latency in-between proposed leaf, spine and Type-1 core firewall should be less than 1 Microsecond at maximum load	The latency in-between proposed leaf, spine and Type-1 core firewall (i.e. within complete fabric) should be less than 1 Millisecond at maximum load
<u>76.4 (III)</u>	VPN concentrator must support 8Gbps of Crypto throughputs for IPSEC tunnel and 5000 IPSEC full loaded (1 Mbps) tunnels from day 1. The VPN concentrator must have redundant power supply & at least 6x1GE interfaces and 6no. of 10 G interface (SFP) from Day 1. VPN concentrator should have capabilities to handle 5000 IPSEC fully loaded (1 Mbps)	VPN concentrator must support 8Gbps of Crypto throughputs for IPSEC tunnel and 4000 IPSEC full loaded (1 Mbps) tunnels from day 1. The VPN concentrator must have redundant power supply & at least 4x1GE interfaces and 2 no. of 10 G interface (SFP) from Day 1. VPN concentrator should have capabilities to handle 4000 IPSEC fully loaded (1 Mbps) tunnel

	tunnel at any point of time (at start, restart or throughout the day)	at any point of time (at start, restart or throughout the day)
77 (ii)	Required manpower should be deputed at Bank DC & DR site within 1 week from the date of Purchase Order	Required manpower should be deputed at Bank DC & DR site within 2 week from the date of Purchase Order.

REQUIRED MINIMUM TECHNICAL FEATURES OF ROUTER- TYPE A FOR BRANCHES

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>4</u>	Should have at least 2 No. of Gigabit Ethernet WAN Port and 1 no. of GigE fiber WAN port from day one	Should have at least 2 No. of Gigabit Ethernet WAN Port and out of that one port should be OFC WAN port from day one
<u>5</u>	Routers should have at least 1 open slots for V.35 serial Interfaces with serial cable from day one	Routers should have at least 1 -V.35 serial Interfaces with serial cable from day one
<u>18</u>	The router should be capable of WAN protocols like PPP, Multilink PPP, etc.	The router should have WAN protocols like PPP / Multilink PPP / PPPoE, etc
<u>44</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contract period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years
<u>45</u> <u>New</u> <u>Clause</u> <u>added</u>		should be at least EAL2/EAL3/or above/NIAP/NDPP/ NDcPP or above Certified

REQUIRED MINIMUM TECHNICAL FEATURES OF SWITCH (L3) TYPE A for DC, DR and Head Office/ZOs

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>4</u>	Switch should have minimum 1 Tbps Switching capacity all the services enabled on switch	Switch should have minimum 176 Gbps Switching capacity all the services enabled on switch
<u>13</u>	<p>Must support minimum 32K IPv4 Unicast entries</p> <p>Must support minimum 16K or more IPv6 Unicast entries</p> <p>Must support minimum 4K IPv4 Multicast entries</p> <p>Must support minimum 4K ACL</p> <p>Must support basic layer-3 routing – static routes, BGP, OSPF, ISIS VRF: VRF-lite (IP VPN), VRF-aware unicast (BGP, OSPF, and RIP), and VRF-aware multicast from day-1.</p> <p>Must support VRRP or equivalent.</p> <p>Must support 64-way ECMP routing for load balancing and redundancy...</p>	<p>Must support minimum 32K IPv4 Unicast entries</p> <p>Must support minimum 16K or more IPv6 Unicast entries</p> <p>Must support minimum 4K IPv4 Multicast entries</p> <p>Must support minimum 4K ACL</p> <p>Must support basic layer-3 routing – static routes, BGP, OSPF, ISIS VRF: VRF-lite (IP VPN), VRF-aware unicast (BGP, OSPF, and RIP), and VRF-aware multicast from day-1.</p> <p>Must support VRRP or equivalent.</p> <p>Must support 32-way ECMP routing for load balancing and redundancy...</p>
<u>23</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contact period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years.
<u>24</u> <u>New</u> <u>Clause</u> <u>added</u>		L3 Switch OS should be at least EAL2/EAL3/or above/NIAP/NDPP/ NDcPP or above Certified

REQUIRED MINIMUM TECHNICAL FEATURES OF SWITCH (L2) TYPE B FOR BRANCHES

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>23</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contact period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years
31	The Switch should support VLAN ACLs on all VLANs prevent unauthorized data flows from being bridged within VLANs.	Clause stands deleted
32	The Switch should support IPv6 ACLs that can be applied to filter IPv6 traffic.	Clause stands deleted
<u>55</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contact period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years

SPINE SWITCH REQUIREMENTS

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
8.7	The proposed switch must have minimum 100 Ether Channel support	The proposed switch must have minimum 32 Ether Channel support

<u>20</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contract period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years
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LEAF SWITCH (COPPER) REQUIREMENTS

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>3.1</u>	Switch should have 48 ports or more, fiber ports	Switch should have minimum 48 ports, out of which at least 4 no. of 40G/100G QSFP based Fibre ports per switch for uplinks with spine switch and minimum 44 ports should be copper port capable of 1/10 Gbps.
<u>16.12</u>	Should Support IEEE 802.3by 25 Gigabit Ethernet (desirable)	Clause stands deleted
<u>20</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contract period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years

LEAF SWITCH (FIBRE) REQUIREMENTS

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>20</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contact period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years

REQUIRED MINIMUM TECHNICAL FEATURES OF LEASED LINE MODEM

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
<u>15</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contact period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years

CORE FIREWALL (TYPE 1) TECHNICAL REQUIREMENTS AT DC & DR

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
49	The solution should provide detection, analysis and repair capability against malware-based attacks	The solution should provide detection, analysis and repair/block capability against malware-based attacks.
82	The solution should be capable of providing network -based detection of malware by checking the disposition of known files in the cloud using the SHA -256 file -hash as they transit the network (SHA -256 and target IP address should be given to aid remediation efforts) with enabling just advance malware license if require in near future	The solution should be capable of providing network -based detection of malware by checking the disposition of known files in the cloud using the SHA -256 file -hash as they transit the network(SHA -256 and target IP address should be given to old remediation efforts) all the license required for said functionality should be available from day-
<u>164</u>	Should have 3 years warranty service. Product must not be End of Life and Support for next 7 years. If offered product declared End of Life and Support within 7 years contract period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	The successful bidder should ensure that the equipment proposed in this RFP, should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years

(TYPE-2) FIREWALL TECHNICAL REQUIREMENTS AT DC & DR for Intranet Traffic

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
50	The solution should provide detection, analysis and repair capability against malware-based attacks	The solution should provide detection, analysis and repair/block capability against malware-based attacks
55	The solution should provide the ability to upload image and analyze threats under conditions of actual host environment.	Clause stands deleted
<u>166</u>	Should have 3 years warranty service. Product must not be End of Life and Support	The successful bidder should ensure that the equipment proposed in this RFP,

	for next 7 years. If offered product declared End of Life and Support within 7 years contract period, then bidder should provide latest product with same specification or higher without any cost to the Bank. Offer product must not be End of Life and Support for next 7 years	should not be declared as End of Life (EOL) or End of Support (EOS) by the OEM within next 5 years from the date of installation. In the event of the supplied equipment being declared End of support/End of Life during the contract period, the bidder has to replace the equipment with compatible equipment having equivalent or higher configurations without any additional cost to the Bank. Offered product must not be End of Life and Support for next 5 years
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TECHNICAL REQUIREMENTS OF VPN MODULES

<u>SI NO</u>	<u>Existing clause</u>	<u>Modified Clause</u>
12	Fan trays & Power supplies should be hot swappable/ Fixed base. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period.	Fan trays / Power supplies should be hot swappable/ Fixed base. However bidder can quote higher specification to meet the technical requirement, SLA, uptime and performance during the contract period
<u>19</u>	VPN concentrator must support 8 Gbps of Crypto throughput for IPSEC tunnel and 4000 IPSEC full loaded (1 Mbps) tunnels from day 1. In case of an external box, The VPN concentrator must have redundant power supply & at least 4 x 1GE interfaces and 2 no. of 10 G interface (SFP+) from Day 1. VPN concentrator should have capabilities to handle 5000 IPSEC fully loaded (1 Mbps) tunnel at any point of time (at start, re-start or throughout the day)"	VPN concentrator must support 8Gbps of Crypto throughputs for IPSEC tunnel and 4000 IPSEC full loaded (1 Mbps) tunnels from day 1. The VPN concentrator must have redundant power supply & at least 4x1GE interfaces and 2 no. of 10 G interface (SFP) from Day 1. VPN concentrator should have capabilities to handle 4000 IPSEC fully loaded (1 Mbps) tunnel at any point of time (at start, restart or throughout the day)
<u>23</u>	<ul style="list-style-type: none"> • 5000 IPSec VPN tunnels. • Should support at least 3 Million 1 Pv4 and IPv6 routes 	<ul style="list-style-type: none"> • 4000 IPSec VPN tunnels. • Should support at least 1 Million 1 Pv4 or IPv6 routes
53	The proposed router should support modular OS and simply the changes through In-Service OS upgrade mechanism	The proposed router should support modular OS
57 New Clause Added		VPN Concentrator OS should be at least EAL2/EAL3/or above/NIAP/NDPP/ NDcPP or above Certified