



QUOTATION DOCUMENT

for

Supply, Installation & Commissioning of Server, Storage,
Switch, UTM, Firewalls & Microsoft Licenses

At

The Calicut Co-operative Urban Bank Ltd.



Document No. CCUB/Edp/Quotation-01 /2021-22 Dated: 06st April, 2021

ISSUED BY

The Calicut Co-operative Urban Bank Ltd.
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01. Bid Information Sheet

Document Description	Quotation Document for "Supply & installation of Server, Storage, Switch, UTM & Fire Walls at Calicut Co- operative Urban Bank Ltd.
Quotation Document No.& Date	CCUB/Edp/Quotation-1/2021-22 Dt. 06-04-2021
Last date & Time of Submission of Response to Quotation Document	17-04-2021 (14:00 Hrs)
Technical Bid Opening	19-04-2021 (15:00 Hrs)
Declaration of bidders qualified for opening commercial bid	To be declared later
Validity of Quotation	90 (Ninety) days from the date of opening of Quotation
Cost of Quotation Document	Free-(Download from bank's web site or request on email)
Processing Fee	Nil
Bid Security/EMD	Nil
Name, Designation, Address and other details (For Submission of Response to Quotation Document)	General Manager, The Calicut Cooperative Urban Bank Ltd. Head Office, Kallai Road, Chalappuram P.O., Kozhikode – 673002. Tel. No. 495 – 2307200 & 20307225
Important Note: Prospective Bidders are requested to remain updated for any notices / amendments / clarifications etc. to the Quotation Document through phone and Email. So you are requested to provide the mobile number & Email ID in front of bid cover.	



2. Introduction

2.1. Objective:

- 2.1.1. The Calicut Co-operative Urban Bank Ltd. (hereinafter called “CCUB”) is a Reserve Bank licensed urban bank with 105 year of banking experience. The Bank has started Computerization in 1998 onwards.
- 2.1.2. To improve the bank’s IT infrastructure, CCUB plans to procure Server, Storage, Switch, UTM & Fire Walls.
- 2.1.3. We want to upgrade our Data-center Infrastructure & Networking accessories to update IT infrastructure of CCUB.

3. Bid Information and Instructions to Bidders

3.1. Obtaining Quotation Document.

- 3.1.1. The Quotation Document can be downloaded free of cost from the website of CCUB, www.calicuturbanbank.com from the date mentioned in the Bid Information Sheet.
- 3.1.2. Prospective Bidders interested to participate in the bidding process are required to submit their Project proposals in response to this Quotation Document.
- 3.1.3. The bids submitted without any of the required documents shall not be considered for evaluation process.

3.2. Bid Submission date and Bid Opening date

- 3.2.1. The bidding methodology adopted for this Project shall be Single Stage Two envelop system i.e. The Bidders shall submit their Project proposal (Both **Technical and Financial Bid** same time in separate sealed envelopes) in line with this Quotation Document. The last date for submission of bid is as mentioned in the Bid Information Sheet. No bids shall be accepted after the date and time mentioned above.
- 3.2.2. Techno-Commercial bids shall be opened on the same day as mentioned in the Bid Information Sheet.

3.3. Minimum Eligibility Criteria

3.3.1. General Eligibility:

- i. The bidder must have completed not less than 5 years of experience/ operation in the field of supply & Service in installation and support of Data Center equipment like Servers, Firewalls, Switches, etc.



- ii. The bidder should be OEM or authorized Dealers/ Channel partners/ Distributors of reputed brand having authorization for sales and after sales support for Servers, Storage, Switches, Firewalls and Microsoft Licenses (enclose OEM certificate/letter specific for this Quotation).
- iii. The bidder must have an in-house team of engineers who have experience in installation of Servers, Firewalls, Microsoft Products etc.
- iv. The bidder must have an office in Kozhikode District with sufficient resident engineers to provide the client support.

3.3.2. Financial Capability.

- i. Turn over should be minimum 3 Crore for either FY 2020-21 or average of three financial years FY 2018-19, 2019-20 and 2020-21. In case the audited annual accounts for the year 2020-21 are not available with the bidder, turnover shall be considered for the FY 2019-20 or average of three financial years FY 2017-18, 2018-19 and 2019-20.

3.3.3. Experience:

- i. The bidder should have successfully executed at least Three similar nature installations. Also, the bidder shall have expertise in documentation of installed products.

3.4. Documents to be signed and submitted by Bidders

- i. The bid shall be signed by the individual legally authorized to enter into commitments on their behalf. Only one submission of response to Quotation Document by each bidder will be permitted.
- ii. The documents required under the Quotation conditions for submission along with the Quotation are listed below. The bidder/s are advised to examine the various conditions and submit necessary documents accordingly. In case of non-submission of any of the desired information, the bid may be considered non-responsive and are liable to be rejected outright.



3.4.1. Basic documents:

- i. Letter of authorization in favor of the person to sign this Quotation and represent his/her company for this contract.
- ii. Duly signed and stamped Quotation Document (amendments if any) by the Authorized signatory

3.4.2. Documents in Support of Eligibility:

- i. Copy of VAT/Sales Tax/GST registration certificate, and PAN.
- ii. Self-attested copies of supply order and their respective completion certificates issued by clients for similar orders.
- iii. Certificate by Statutory Auditor / Practicing Chartered Accountant of the Bidding Company in support of turnover along with audited copies of annual accounts for all the FYs in support of financial capability.
- iv. A copy of Authorization letters issued by each different OEM of proposed items in Technical Bid to Authorized Distributors/ Partners/ Dealers to participate in the bid and for support to after sale service specific to Quotation. Non-submission of these certificates will result rejection of submitted bid.
- v. A Self attested document to prove the experience of your staff (with certifications details) in data center installation and support.

Note:

- a. Compliance with the minimum eligibility criteria mentioned above should be indicated item-wise in a separate sheet with the page number of the supporting document (in the following format).

Sl. No.	Eligibility Criteria	Compliance (Yes/No)	Reference of Enclosed Proof
01.	Copy of GST Registration Certificate		(page nos.)
02.	Copies of PAN No		
03.	Copies of supply order submitted		
04.	Copy of Authorization Letter		
05.	Copy of Audited balances Sheet(s)		
06.	Acceptance of terms and conditions on conditions		

- b. CCUB reserves the right to verify/confirm all original documentary evidence submitted by the bidder in support of above-mentioned clauses of eligibility criteria.



3.5. Validity of the Response to Quotation Document

The Bidder shall submit the response to Quotation Document which shall remain valid up to ninety (90) days from the date of opening of Quotation ("Bid Validity"). CCUB reserves the right to reject any response to Quotation Document which does not meet the aforementioned validity requirement. CCUB may solicit the bidders' consent to an extension of the validity period of the bid. The request and the response shall be made in writing.

3.6. Selection of successful Bidder

After bid opening, Technical bids submitted by those Bidders shall be evaluated by CCUB on the basis of Minimum Eligibility Criteria stipulated in clause 3.3.

3.7. Structuring of Bid Selection Process:

Two envelop system has been envisaged under this Quotation Document i.e. Bidders have to submit both Technical bid and financial bid together in response to this Quotation Document in separate sealed envelopes. Technical. In the first stage, Technical bids shall be evaluated as per Minimum Eligibility Criteria and acceptability of technical specification for Servers, Storage, Switches and Firewalls separately. In the second stage, financial bids submitted by the short-listed Bidders on which lowest will be considered as successful bidder.

3.8. Financial Bid

- 3.8.1. The prices quoted in the financial bid should be without any conditions.
- 3.8.2. The price bid must be filled in completely, without any error, erasures or alterations.
- 3.8.3. The prices should be mentioned in Indian Rupees only in clearly readable format without any overwriting.
- 3.8.4. The Financial bid shall be on a fixed price basis and, no price variation on any account shall be considered.
- 3.8.5. Price quotation accompanied by vague and conditional expression such as "subject to immediate acceptance", "subject to confirmation before sales", etc. will be treated as being at variance and shall be liable for rejection.
- 3.8.6. The envelop consisting of Financial Offer shall be marked as "Financial Bid"



- 3.8.7.** Prices quoted shall be for the entire period of Contract.
- 3.8.8.** It is the responsibility of the Bidder to clearly identify all costs associated with any item or series of items in this Quotation Document and submit the total cost in the financial bid.
- 3.8.9.** In the financial bid, prices of each item must be given individually- cost of item, amount of tax and tax inclusive price, incidental charges and customization charges if any.
- 3.8.10.** The bidder shall ensure that there is no discrepancy in the rates mentioned in figures and words. In case of any discrepancy, the small rate mentioned in the bid shall be taken as final and binding.
- 3.8.11.** In the event of arithmetic calculation mistake, the individual price in words shall be considered for calculation.
- 3.8.12.** The bidder must fill and submit the rates as per instructions given above. If the bidder does not quote a price/rate for any item in the Form of Bid, his Quotation may be summarily rejected.

3.9. Non-Transferable Bid

Neither the contract nor any rights granted under the contract may be sold, leased/sublet, assigned, or otherwise transferred, in whole or in part, by the vendor, and any such attempted sale, lease, assignment or otherwise transfer shall be void and of no effect. The vendor shall not subcontract or permit anyone other than its personnel to perform any of the work, service or other performance required of the vendor under the contract.

3.10. Deviations

The bidder should clearly read and understand all the terms and conditions, specifications, etc. mentioned in the original Quotation documents. Bidders are advised not to make any corrections, additions or alterations in the original Quotation documents. If this condition is not complied with, Quotation is liable to be rejected.

3.11. Deadline for submission of bid

The bid duly filled must be received by CCUB at the address specified, not later than the date and time mentioned in the "Bid Information Sheet". Bid received later than the deadline prescribed for submission of Quotation by CCUB will be rejected.



3.12. *Withdrawal of bid*

No Quotation can be withdrawn after submission and during Quotation validity period. Submission of a Quotation by a bidder implies that he had read all the Quotation documents including amendments if any, visited the site and has made himself aware of the scope and specifications of the job to be done, local conditions and other factors having any bearing on the required job.

3.13. *Sealing and marking of bids*

All completed Quotation documents shall be sealed in an envelope super scribed with the name of the Bidder, the Quotation Document Number and the name of package "Supply & Installation of Servers and Other Devices" or specify Item Names, as indicated in "Bid Information Sheet". In addition to the above, the envelope shall also contain the name, address and phone no. of the bidder.

3.14. *Opening of the bid*

Bids will be opened at the address mentioned in "Bid Information Sheet" in presence of bidders or authorized representatives of bidders who wish to attend the opening of Quotations. CCUB reserves the right to open the bid/s even if only one bid is received.

Bidders or their authorized representatives who are present shall sign in register for evidence of their attendance.

3.15. *Clarification of the bid*

To assist the examination, evaluation and comparison of the Quotations, CCUB may at their discretion ask the bidders for any clarifications as considered essential. All such correspondence shall be in writing and no change in price or substance of the Quotation shall be either sought or permitted. Above clarification and their response shall form part of the Quotation and shall be binding on the bidder.

3.16. *Examination of the bids*

CCUB shall determine whether each bid is of acceptable quality, is generally complete and is substantially responsive to the bidding documents. For purposes of this determination, a substantially responsive bid is one that confirms to all the terms, conditions and specifications of the bidding documents without material deviations, objections, conditionally or



reservation. If a bid is not substantially responsive, it shall be rejected by the CCUB. In case of Quotations containing any conditions or deviations or reservations about contents of Quotation document, CCUB may ask for withdrawal of such conditions/deviations/reservations. If the bidder does not withdraw such conditions/deviations/ reservations, the Quotation shall be treated as non-responsive. CCUB'S decision regarding responsiveness or non-responsiveness of a Quotation shall be final and binding.

3.17. *Canvassing*

No bidder is permitted to canvass to CCUB on any matter relating to this Quotation. Any bidder found doing so may be disqualified and his bid may be rejected.

3.18. *Right to accept any bid or reject all bids*

CCUB reserves the right to accept, split, divide, negotiate, cancel or reject any bid or to annul and reject all bids at any time prior to the award of the contract without incurring any liability to the affected bidders or any obligation to inform affected bidder, the grounds of such action. If the bidder, as individual or as a partner of partnership firm, expires after the submission of his bid but before award of services, the CCUB shall deem such bid as invalid.

3.19. *Award of Contract*

CCUB shall issue Purchase Order in duplicate to the successful bidder in writing. Duly signed and stamped duplicate copy of the letter has to be returned by the selected bidder within a week of receipt of letter as token of acknowledgment. Issuance of PO against an offer made shall constitute a legal and binding contract between CCUB and the selected bidder.

3.20. *Method of Submission*

The response to Quotation Document is to be in the following manner: -

3.20.1. "Covering Envelope" – Super scribed as "Covering Envelope containing bids" at the top of the Envelope; and "Name & Address of the Bidder" on the left hand side bottom;

It should be addressed to CCUB and shall contain:

- i. Covering Letter.



- ii. Technical Quotation
- iii. Commercial Quotation

3.20.2. The technical bid must be as - Super scribed as “**Technical Proposal in response to Quotation Document 01/2021-22** (Mention the Quotation Document No)” at the top of the Envelope; and “Name & Address of the Bidder” on the left-hand side bottom;

3.20.3. “**Financial Envelope**” - Super scribe as “**Financial Bid in response to Quotation Document 02/2020-21** (Mention the Quotation Document No)” at the top of the Envelope; and “Name & Address of the Bidder” on the left-hand side bottom;

It shall be sealed and shall contain:

- i. Quotation Document 01/2021-22
- ii. (Covering letter of Financial Proposal
Financial Envelope for<<item name>>.....” - Super scribed as “Financial Bid for<<item name>>..... in response Mention the Quotation Document No)” at the top of the Envelope. It shall be sealed and shall contain Financial Bid for Servers, Storage, Switches Firewalls and Microsoft Licenses.

Important Note: The Bidders shall not deviate from the naming and the numbering formats mentioned above, in any manner.

3.21. *Right of CCUB to reject a Bid*

CCUB reserves the right to reject any or all of the responses to Quotation Document or cancel the Quotation Document without assigning any reasons whatsoever and without any liability.

3.22. *Cancellation of Contract*

The CCUB reserves the right to cancel the contract of the selected bidder and recover expenditure incurred by the CCUB on the following circumstances:

3.22.1. The bidder has made misleading or false representations in the forms, statements, and attachments submitted in proof of the eligibility requirements.



- 3.22.2.** The selected bidder commits a breach of any of the terms and conditions of the bid/contract.
- 3.22.3.** The bidder goes into liquidation voluntarily or otherwise during the execution of contract.
- 3.22.4.** The progress regarding execution of the contract, made by the selected bidder is found to be unsatisfactory.
- 3.22.5.** After the award of the contract, if the 'selected bidder' does not perform satisfactorily or delays execution of the contract, the CCUB 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 the CCUB may have to incur to carry out bidding process for the execution of the balance of the contract. This clause is applicable, if for any reason, the contract is canceled.

3.23. *Important notes and instructions to Bidders*

- 3.23.1.** Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from any deviations and referring to any other document for providing any information required in the prescribed format.
- 3.23.2.** If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its response to Quotation Document, in any manner whatsoever, CCUB reserves the right to reject such response to Quotation Document and/or cancel the PO., if issued. Bidder shall be solely responsible for disqualification based on their declaration in the submission of response to Quotation Document.
- 3.23.3.** CCUB reserves the right to recover any dues payable by the selected bidder from any amount outstanding to the credit of the selected bidder, including the pending bills and/or invoking Bank Guarantee, if any, under this contract or any other contract/order.
- 3.23.4.** Response submitted by the Bidder shall become the property of the CCUB and the CCUB shall have no obligation to return the same to the Bidder.
- 3.23.5.** Bidders may carefully note that they are liable to be disqualified at any time during bidding process in case any of the information furnished by them is



found to be not true. The decision of CCUB in this respect shall be final and binding.

- 3.23.6.** The bidder must obtain for itself on its own responsibility and its own cost all the information including risks, contingencies & other circumstances in execution of the installation and commissioning. It shall also carefully read and understand all its obligations & liabilities given in Quotation documents.
- 3.23.7.** CCUB may at its discretion extend the deadline for submission of the bids at any time before the time of submission of the bids.
- 3.23.8.** Bidders shall mention the name of the contact person and complete address of the Bidder in the covering letter.
- 3.23.9.** Response to Quotation Document that are incomplete, which do not substantially meet the requirements prescribed in this Quotation Document, will be liable for rejection by CCUB.
- 3.23.10.** Bidders delaying in submission of additional information or clarifications sought will be liable for rejection.
- 3.23.11.** Non-submission and/or submission of incomplete data/ information required under the provisions of Quotation Document shall not be construed as waiver on the part of CCUB of the obligation of the Bidder to furnish the said data/information unless the waiver is in writing.
- 3.23.12.** CCUB reserves the right to delete items from the schedule of requirements specified in the Quotation. CCUB also reserves the right to alter the quantity and vary specifications.
- 3.23.13.** CCUB reserves the right to make any changes in the terms and conditions of the Quotation.
- 3.23.14.** CCUB shall be under no obligation to accept the lowest or any other offer, including those received late or incomplete offers, without assigning any reason whatsoever.
- 3.23.15.** CCUB will not be obliged to meet and have discussions with any bidder, and or to listen to any representations.
- 3.23.16.** The bidder shall not make any addition or alteration in the Quotation documents. The requisite details should be filled in by the bidder wherever required in the documents. Incomplete Quotation or Quotation not submitted as per instructions is liable to be rejected.



3.23.17. Bidders can bid for either Hardware (Servers, Switches, UTM, Firewalls etc.) or Microsoft Licenses, Separately or both together.

3.23.18. Items with higher specifications than those are mentioned in the specification section of this document will not attract any leniency for prices.

4. SPECIFICATION DETAILS & QUANTITY

Group A

4.1. Documentation and Support

The Total Item in **Group A** Shall be under 5 year Manufacturer's Warranty. The bidder shall be responsible to provide the support for the whole 5 years and they shall prepare and provide the documents of items provided, the specification, configurations made in each items. They also must be ready to provide the service in bank's existing infrastructures like servers, Cisco routers, manageable Switches, etc. In these periods the bidder shall attend all calls and do the necessary support required for bank, and update and maintain all security patches, supports required for the devises supplied and existing with bank.

4.2. Specification & Quantity

4.2.1. Branded Server (For DC at HO)– 1 No.

Sl. No.	Category	Description	Nos.
01.	Chip-set From Factor Configured CPU Memory Slots Memory Configured Drive bays	Intel Chip-set 1 U rack-mount Intel Xeon Silver 4216 16 C 100W 2.1 GHz Processor Up to 16 DIMM Sockets or higher (8 DIMMs per processor; six memory channels per processor with two DIMMs per channel). Support for RDIMMs, LRDIMMS, or 2 DS RDIMMs. Memory speed up to 2666 MHz 256 GB (4 x64GB) TruDDR4 2933 MHz (2Rx4 1.2V) RDIMM Up to 6 SAS/SATA hot-swap drive bays: 4x 3.5" (front) + 2x 2.5" (rear) 4 LFF Any Bay hot-swap drive bays: 4x 3.5" (front) Up to 10 SFF SAS/SATA hot-swap drive bays: 8x 2.5" (front) + 2x 2.5" (rear) Up to 12 SFF hot-swap drive bays: 6x 2.5" SAS/SATA & 4x 2.5" Any Bay (front) + 2x 2.5" SAS/SATA (rear)	1



RAID Controller	10 SFF U.2 NVMe PCIe SSD hot-swap drive bay
Disks configured	RAID Controller with 2 GB Flash PCIe 12 GB adapter. RAID 0, 1, 5, 6, and 10
I/O slots	2 * 2.5" 500GB 15K SAS 12GB Hot Swap 512n HDD
Ethernet ports	Up to four slots. Slot 4 is the fixed slot on the system planar, and the remaining slots depend
Storage	on the riser cards installed
Connectivity	10Gb 2-port Base-T LOM
Power Supply	16Gb Gen6 FC Dual-port HBA
Support	(230/115V) Platinum Hot-Swap Redundant Power Supply
Warranty	Microsoft Windows Server VMWare Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Essential Service – 5 Year onsite warranty for Parts, Labor, Support

4.2.2. Branded SAN Storage (For DC at HO)– 1 No.

Sl. No.	Category	Description	Nos.
02.	Controllers	Dual FC Controllers	1
	HDD	4 * 1.8TB 10K 2.5" HDD 2U24 (5 TB Usable)	
	Host Connectivity	10Gb iSCSI/16Gb FC Universal 4* SFP+ Module	
	Internal storage	24 x 2.5" drive bay	
	System memory	8 GB per controller	
	RAID support	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools.	
	Power Supply	Two hot-swap for redundant AC power supply (100 - 240 V)	
	Warranty	Essential Service – 5 Year onsite warranty	

4.2.3. Branded Managed Switch (For DC at HO) – 1 No.

Sl.	Category	Description	Nos.
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No.			
04.	Managed Switch	<p>24 ports of Gigabit Ethernet (GbE) 10/100/1000 desktop connectivity</p> <p>1 GbE Small Form-Factor Pluggable (SFP) uplinks</p> <p>Single IP address management for up to 16 switches</p> <p>Limited lifetime hardware warranty, GbE for data connectivity</p> <p>The switch should support security features</p> <p>IEEE standard support</p> <p>MAC address and Mac notification support</p> <p>Essential Service – 5 Year on site warranty</p> <p>VLAN supported</p> <p>19” Rack mountable</p> <p>IEEE802.3Z standard SFP module</p> <p>230 v AC input with 3 pin Indian std power plug</p> <p>Accessories for mounting switch in 19” rack</p> <p>SNMP Manageable</p> <p>Configurable SNMP parameters</p> <p>etc</p>	1

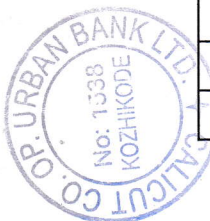
4.2.4. Branded UTM Appliance (For Head Office) – With 5 Year License – 1

No.

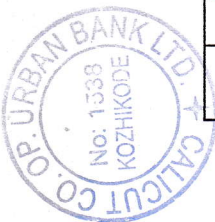
SL.	Specifications
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No.	
A.	General
1	Integrated Security Appliance which is capable of supporting Firewall, VPN, IPS, Web filtering, Botnet Filtering and Geo-IP protection etc.
2	The device should be IPv6 ready (Both phase 1 and Phase2), and should support multi-core architecture.
3	Should support minimum 250 or more VLAN interfaces (802.1P)
4	Appliance should support IPsec NAT traversal.
5	Should support BGP, OSPF, RIP V1 and V2 routing protocol.
6	Should support NAT without degrading the performance of the firewall.
7	Should support authentication using XAUTH/RADIUS, Active Directory, SSO, LDAP, Novell, Internal user database, terminal Services, Citrix
8	Should have Layer 2 bridge or transparent mode, Wire mode, Sniffer mode /Tap mode
9	Multiple WAN/ISP Support : Should support automatic ISP fail-over as well as ISP load balancing for outbound traffic
10	Product Support should be (24 x 7)
11	Vendor & OEM should support the appliance with all necessary upgrade for at least 3 years from the date of purchase installation
12	The proposed solution should be scalable and offer fault tolerance to safeguard against hardware failures. The fail-over should be capable of taking over the traffic without any manual intervention and session loss.
13	Should support deep packet SSL to decrypt HTTPS traffic for scanning(IPS, Gateway Antivirus, Content Filtering, Application control) transparently for future requirement and then re-encrypt and send to destination if no threat found.
14	Firewall should have the capability to deploy through Zero-Touch registration & provisioning
B	Hardware and Interface Requirements
1	The product should have minimum of 2x10 GbE SFP+/SFP, 8x1 GbE
2	WWAN USB card support (5G/LTE/4G/3G)
3	Minimum 4GB RAM
4	Should have 1 console Port
5	Should have 2 USB 3.0 Interface
6	Appliance should be a Desktop Form Factor
C	Firewall Performance Requirement
1	Firewall inspection throughput at least 5.0 Gbps or higher
2	VPN throughput at least 2.10 Gbps or higher



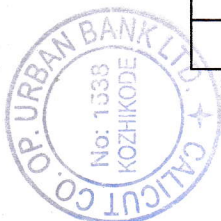
3	The Firewall should support at least 15,00,000 concurrent sessions and at least 25,000 new sessions per second.
4	The Firewall should have at least 3.0 Gbps of IPS throughput or higher.
5	Should have minimum 2.50 Gbps or higher of Anti-Malware inspection throughput.
6	Firewall should support TLS 1.3 with enhanced security
7	Should support full DPI/Threat Protection throughput of 2.50 Gbps or higher.
D	Licensing and Certification
1	The devices should not have license restriction on number of users
2	The device should be IPv6 Ready.
3	The device should be appliance-based firewall.
4	The device should be appliance-based firewall, Antivirus certification .
5	HA appliance should not carry any additional licensing and should share all license from primary appliance.
E	Bandwidth Management & Application control
1	Bandwidth Control/ Restriction per IP Address group & per Policy should be available.
2	Traffic management: Option to configure traffic shaping on a per policy basis for specific application/ Specific networks and should be able to define guaranteed bandwidth and maximum bandwidth per policy.
3	Should have application control feature for 1500 or more applications
4	Should block P2P applications, block Anonymous proxies etc.
F	VPN
1	Should support at least 250 IPsec Site-to-Site VPN tunnels and 500 IPsec Client Remote access VPN
2	Should support at least 250 concurrent SSL VPN users
3	Solution should support IPSEC & SSL VPN
4	Solution Should support Layer 2 Tunneling protocol (L2TP)over IPSEC
F	IPS
1	IPS shall be able to detect incidents that originate from inside the network perimeter as well as from outside the network perimeter and shall be able to take action on the basis of configured policies.
2	Appliance should protect against DOS & DDOS attacks .
3	Should have all security functionality inbuilt and activated on single appliance.
4	Signatures should have a severity level defined to it so that it helps the administrator to understand and decide which signatures to enable for what traffic (eg. For severity level:



	high, medium, low)
5	Should be able to generate graphical reports on top attacks, source for attack etc.
6	Should have the option to schedule reports for automatic generation & email it to admin.
7	The OEM should have regular update of its attack signature database and the same should be configurable to update the signatures automatically without manual intervention.
8	The new attack signatures and new major software releases should be available in OEM website for free download.
9	Should not buffer traffic before scanning for IPS.
10	Should be integrated solution with appliance based firewall on a single chassis with multi-core processor.
11	Firewall must support inbound and outbound IPS scanning
G	Anti-Virus
1	Antivirus should provide real-time detection of viruses and malicious code at the gateway for SMTP, POP3, HTTP, FTP etc. internet traffic.
2	The proposed solution should be licensed per unit as against per user.
3	The device should be featured with Gateway Antivirus and DPI SSI Scanning
4	Automatic Frequent updates of virus pattern files should be available from the vendor without manual intervention
5	Should not buffer traffic before scanning for virus
6	Should have facility to block files based file extensions.
7	Should be an unlimited user based appliance.
8	Should have capacity to scan unlimited file size without buffering them.
9	There should not be any file size limitation to be scanned at GAV level.
10	Firewall must support inbound and outbound Anti-malware/Anti-spyware scanning
H	Web Content Filtering
1	Should have facility to block the URL's based on categories.
2	The proposed solution should be licensed per unit as against per user.
3	URL database should have at least 15 million sites and 60+ categories.
4	URL database should be updates regularly by the OEM automatically.
5	Should be able to block different categories / sites based on users/groups.
6	Should have facility to configurable policy options to block web sites based on banned words.
7	Appliance should be able to re rate website into custom URL category.
8	Should have configurable policy options to define the URL exempt list.



9	The solution should be able to block spy-wares/ad-ware's etc.
1 0	Firewall should have a Unified policy model with app control
I	Logging and reporting
1	Should have reporting facility to generate reports on virus detected over different protocols, top sources for viruses, destination for viruses, top viruses etc.
2	Logging and reporting solution should be supported.
3	The solution should generate the reports for the firewall, gateway level AV, IPS web filtering requested.
4	The solution shall have ready-made templates to generate reports like complete reports or attack reports, bandwidth report etc.
5	The solution should help to analyze/understand attacks over various protocols like HTTP , FTP , SMTP etc.
6	The solution should help to analyze/understand the live application usage in the network.
7	Should have options to generate reports in terms of which are the frequent attacks as well as top sources and destination for attacks.
8	Should have options to generate reports in different formats
9	The solution should have configurable options to send the reports as a mail to the designated email address
1 0	Should have configurable parameters to send alert emails based on event type.
1 1	Should have configurable parameters to set alert
1 2	The solution should have configurable options to schedule the report generation.
1 3	The solution should be running its own syslog server or integrated server to collect the logs. If separate server and/or appliance is required for the logging & reporting , the BOM & cost should be included in the proposed solution.
1 4	Solution should support Application reporting over Net Flow/IPFIX
J	Sand-boxing
1	Solution should support on premise or cloud based Sand-boxing for preventing zero day threats
2	Proposed sand-boxing solution should employ multiple sand-boxing engines for effective scanning
3	Proposed sand boxing solution should scan protocols like HTTP,SMTP,FTP,IMAP,POP,CIFS,TCP Stream
4	Proposed sand boxing solution should support file types like executable, Archives, PDF,



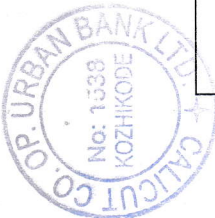
	Office 97- 2003,Office.
K	High Availability
1	Proposed Solution should support Hardware redundancy for future expansion.
2	Proposed solution should support Active/Passive with synchronization
3	Proposed solution should fail over in case of an primary hardware failure without session loss and manual intervention.

4.2.5. Firewall (For Branches) – With 5 Year License – 11 Nos.

S.no	General Requirements
1	The Firewall must be appliance based
2	The proposed NGFW must have build in GUI and CLI to make on the go changes to Firewall policies without any dependency to management and troubleshoot any issue related to network outage.
3	NGFW must support Secure SD - WAN feature along with advance routing protocols such as BGP
4	SD-WAN must be able to link and fail-over between various connections such as Internet , MPLS , leash line and even Routed based VPN interfaces.
5	Build-in SDWAN must be able to do load balancing of various links based on source address, User group , protocol and/or applications
6	SLA for SDWAN must be defined based on packet loss or latency or jitters. Even combination of all 3 option must be possible
7	Central management solution for the next generation Firewall must be able to Manage all the SDWAN link centrally and should give clear dashboard showing which links are down and which are up . This help the NOC to take action accordingly
8	NGFW must support multi-cast routing as well as fire-walling
9	The proposed solution should also support policy routing. Policy routing should work along with SD-WAN and ISP load-balancing.
10	The proposed solution must also support identity based routing option allowing traffic to be forced out of specific Internet/MPLS gateway based on authentication rather then IP address
11	The proposed system should have integrated Traffic Shaping functionality this feature should have option to be configured on same firewall policy along with option to configure it separately if required.
12	Build-in GUI on the NGFW should have option to display logical topology of the network the NGFW is protecting. The display should also be able to give security recommendation for the NGFW.
13	Device should support Static routing, RIP, OSPF,BGP, IS-IS, RIPng, OSPFv3 and BGP4+



	Performance Parameters
1	The solution should support a minimum of at least 275 M bps IPS throughput & Minimum 180 M bps NGFW throughput on real-world / enterprise mix traffic test condition
2	Should support 70 M bps IPSEC VPN throughput and 150 GW to GW Tunnels
3	The Firewall must support at least 800,000 concurrent connections and 12,000 new sessions per second
4	The platform must be having minimum of 5 interfaces with auto sensing 10/100/1000 capability
	Firewall Features
1	Firewall policy should be single policy where all the feature get applied
2	Firewall must support Zoning option along with User based authentication. It must have automatic option to group all the same zone policy
3	There must be option to configure the said Firewall policy from GUI of the NGFW appliance without requiring any Management solution. This is in the case of emergency where management solution is no available and policy needs to be changed.
4	Firewall must support NAT46, NAT66 and NAT64 along with policy for such NAT along with option to configure DNS64.
5	Firewall must support NAT policy for multi-cast traffic for both IPv4 and IPv6
6	Firewall must support option to configure FQDN server rather than IP address in case server have dynamic IP address or site have multiple IP addresses for single domain.
7	There must be option to even configure wildcard FQDN
8	Firewall should allow policy based on port or service to protect attack at L3 not just application based policy which might be vulnerable to L3 attacks.
9	Firewall must support Geo-based IP address blocking option.
10	DNS translation option must be available in Firewall to change only the specific DNS reply from public to private IP. This is required for allowing user to access local resources using Private IP rather than their public IP address
11	Build-in GUI/CLI must support option to configure firewall policy which allow packet capture for troubleshooting purposes
12	The security appliance should be having configurable option to quarantine attack generating source address
	Virtualization
1	The proposed solution should support Virtualization (Virtual Firewall, Security zones and VLAN). Minimum 3 Virtual Firewall license should be provided.
2	Virtualization must be for every feature which are IPS , Application control, Antivirus/Anti-malware , URL filtering , SSL inspection , SSL VPN , IPSEC VPN , Traffic shaping and user authentication.
3	Enabling Virtualization shouldn't require any kind of downtime or reboot. It must be done seamless even if the NGFW is live in the network.
4	Global option of virtualized NGFW shouldn't take much of CPU and memory
5	When creating virtualized NGFW it should give mode option to configure each virtualized system such as first system can work in NAT/route mode and second system can work in transparent mode.



6	Each virtualized NGFW system must have option to configure various parameter to limit the resources utilization such as number of session , etc.
VPN Features	
1	NGFW must have build in support IPSEC VPN and SSL VPN. There shouldn't be any user license restriction
2	IPSEC VPN must include gateway to gateway and gateway to client vpn. In case of gateway to client the administrator must have option to assign private IP address to remote user without requiring any additional license
3	Route based IPSEC VPN must be supported along with SD-WAN in case of two or more ISPs.
4	IPSEC VPN must include gateway to gateway and gateway to client vpn. In case of gateway to client the administrator must have option to assign private IP address to remote user without requiring any additional license
5	IPSEC VPN must support SHA-1 and SHA-2 (SHA 256, 386 and 512) along with DH group 2,5,14,15,16,17,18,19,20,21,27,28,29,30 and 31.
6	SSL vpn must support high level algorithm along with TLS v1.2
7	SSL VPN must not have any user license and should have option to integrate with local AD or RADIUS server
8	Both VPN must support 2-factor authentication with option to have locally imported tokens on the NFGW appliance itself , if required.
High Availability	
1	The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component
2	The device shall support session maintenance in the event of a fail-over to a standby unit.
3	High Availability Configurations should support Active/Active or Active/ Passive
OEM should be having the following certifications/Ratings	
1	Firewall module should be ICSA Labs or EAL 4 certified
2	Network Intrusion Prevention System (NIPS) and should be ICSA Labs certified.

Group B

4.2.6. Microsoft License(s)

Sl. No.	Category	Description	Nos.
01.	MS SQL 2019 Device CAL	CALs are required for existing SQL Server	17
02.	MS Windows Server CAL 2019	CALs are required for existing MS Windows Server	14



5. OTHER DETAILS

5.1. Warranty Period

This contract will **include supply, installation, testing and commissioning** of Servers, Storage and Firewall with 5 years on-site comprehensive warranty, License and support as per **OEM from date of installation**. The bidder wants to produce the documentary proof the item quoted. Also after the installation the bidder shall submit an installation certificate for the commencement of warranty.

5.2. AMC Rate

The bidder shall submit AMC rate for each items. The AMC rate must be calculated on the cost of the item without taxes, all installation charges and other service charges for commissioning the item.

5.3. Service response time and mode of service

For complaints not requiring spare parts, the system will be made operational within one working day or two calendar days, whichever is earlier, from the day of complaint is registered.

5.4. Delivery & Installation

5.4.1. The delivery and installation period of the supplies shall be provided with the purchase order issued by CCUB. In case bidder fails to supply or installation within the accepted period, liquidated damages at the rate of 1% of contract value of the order, for per week of delay subject to maximum of 10% of the order value will be levied.

5.4.2. The Delivery place will be communicated by bank to the supplier in time. CCUB have the right to transport any of the items from one branch to another, the supplier required to be provided the support & service at any branch of CCUB.

5.5. Payment Terms

5.5.1. 80% of the price of supplied items shall be paid by the bank on delivery of material in good conditions along with Certificate of receipt.



- 5.5.2.** Balance 20% will be released within 15 days from date of successful installation, testing & commissioning. The supplier shall provide the signed copy of certificate of installation from our branches.
- 5.5.3.** The support and installation charges will be paid only after the successful installation & commissioning of the products and submission of completed documents mentioned in 4.1. If any additional charges occurred for the support up to 5 years will be released at the end of each quarter. Also any charges for additional support for existing system (switches, routers, etc.) shall be specified separately, and which will be released on completion of the specified work completed.
- 5.5.4.** Payment will be released only on submission of Invoice/Bill duly completed in all respect.

6. OTHER CONDITIONS.

- 6.1.1.** If any failure of hard disks occurs the vendor shall take the necessary action to ensure prevention of the data loss through the hard disk or any other peripherals.
- 6.1.2.** Any deduction by CCUB on the amount of bill due to any pending issue related to the bill period will be paid after receipt of written confirmation by the contractor that the pending issue has been satisfactory attended to. If the pending issue is not resolved till the subsequent bill is submitted, the same shall not be entertained and adjustments made from further payments of the contractor for which he will be responsible.
- 6.1.3.** The contractor shall be liable for any breach, non-performance or delay in carrying out any obligation contained in the contract. In case a job is not attended within one week of reporting, it may be carried out through some other source at the risk and cost of the contractor, after issue of one written warning.
- 6.1.4.** All the items must be installed, tested and commissioned as per guidelines of the OEMs. Bank should not be held responsible for any type of on-site accidents during installation, testing and commissioning of the project.



7. Letter of Acceptance

Every bidder shall submit the attached statement in their letter head, with the Technical bid document submitted by them.

ACCEPTANCE OF CCUB'S QUOTATION CONDITIONS

1. Quotation document for supply of Computers, Peripherals and Microsoft License has been received from CCUB, directly / website. I/We hereby unconditionally accept the terms and conditions mentioned in the tender document.
2. I/We herewith submitting the Quotation documents as requested by CCUB.
3. Upon selection as the supplier we hereby undertake the responsibility of supply of the items as per the specifications and conditions mentioned in the tender document

Signature with Seal of bidder

