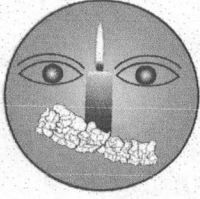




सिलबन्दी वोलपत्र आव्हान
(प्रथम पटक प्रकाशित मिति २०८०/०१/०५)

यस वित्तीय संस्थाको लागि Server, Firewall, Core Switch र NAS को आवश्यकता भएकोले ईच्छुक कम्पनीहरुले मिति: २०८०/०१/२१ गते भित्र सिलबन्दी वोलपत्र पेश गर्नुहुनका लागि जानकारी सहित यो सुचना प्रकाशन गरिएको छ ।

नोट: सर्भर सम्बन्धी थप विवरण सहितको वोलपत्र फर्मेट जीवन विकास लघुवित्त वित्तीय संस्थाको केन्द्रीय कार्यालय कटहरी, मोरङमा उपलब्ध हुनेछ । साथै वोलपत्र यस संस्थाको Website: www.jeevanbikasmf.com मा समेत उपलब्ध छ । (वोलपत्रको लागि रु.५,०००/- यस वित्तीय संस्थाको खातामा भुक्तानी गर्नुपर्ने हुन्छ । यस वित्तीय संस्थाको बैंक खातामा रकम जम्मा गरेको भौचर सहित वोलपत्र केन्द्रीय कार्यालय कटहरीमा दर्ता गराउन सकिनेछ । यो रकम फिर्ता हुने छैन ।)



जीवन विकास लघुवित्त वित्तीय संस्था लि.
कटहरी २, मोरंग
सम्पर्क नं: ९८०२७९६०१३, ९८०२७९६०४२, ९८०२७९६१९६



शर्तहरू:

शिलबन्दी बोलपत्र पेश गर्नको लागि

- १ विक्रेताको फर्म नेपाल सरकारको नियमानुसार सम्बन्धित निकायमा दर्ता भई मुल्य अभिवृद्धि कर (भ्याट) मा दर्ता भएको र गत आ.व.को कर चुक्ता गरेको प्रमाणित हुने प्रमाणपत्रको प्रतिलिपी पेश गर्नु पर्ने छ ।
- २ शिलबन्दी बोलपत्र पेश गर्दा प्राविधिक प्रस्ताव र आर्थिक प्रस्ताव भिन्ना भिन्नै खाममा राखी पुनः शिलबन्दी गरी यस संस्थाको केन्द्रीय कार्यालय कटहरीमा दर्ता गराउनु पर्ने छ ।
- ३ शिलबन्दी बोलपत्र पेश गर्दा विक्रेता फर्मको कर सहितको मुल्य उल्लेख गरी आधिकारिक ब्यक्तिको दस्तखत तथा छाप लगाएको बोलपत्रलाई मात्र मान्यता दिइने छ ।
- ४ अन्य कुनै शूलक वा सुविधाहरू उपलब्ध हुने भए सो समेत बोलपत्रमा स्पष्टरुपमा उल्लेख गर्नु पर्ने छ ।
- ५ बोलपत्र पेश गर्ने अन्तिम मिति: २०८०/०९/२९ गते सांभ ५ बजेसम्म हुने छ ।
- ६ बोलपत्रको फर्मेट रु.५,००० भुक्तानी गरी संस्थाको केन्द्रीय कार्यालयबाट संकलन गर्न सकिने छ वा फर्मेट अनलाईन डाउनलोड गरी यस वित्तीय संस्थाको तपसील अनुसारको बैंक खातामा रकम जम्मा गरेको भौचर सहित बोलपत्र केन्द्रीय कार्यालय कटहरीमा दर्ता गराउन सकिने छ । यो रकम फिर्ता हुने छैन ।

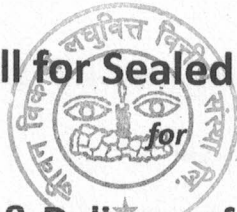
बैंकको विवरण

Bank	: Himalayan Bank Ltd.
Account No.	: 01308052520019
Account Name	: Jeevan Bikas Laghubitta Bittiya Sanstha Ltd.
Branch	: Biratnagar

बोलपत्र खोल्ने समय :

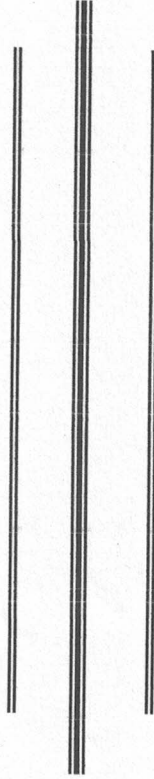
१. दर्ता भएको बोलपत्रहरू मिति: २०८०/०९/२४ गते दिउसो ०९:०० वजे केन्द्रीय कार्यालय कटहरी, मोरङमा खोलिने छ ।
२. खरिद सम्बन्धी सम्पूर्ण अधिकार संस्थामा निहित रहने छ ।

Call for Sealed Tender



Supply & Delivery of IT Assets for

IT Infrastructure Upgradation



Tender Called By:

Jeevan Bikas Laghubitta Bittiya Sanstha Limited(JBLBSL)

Katahari-2, Katahari, Morang, Nepal

We, Jeevanbikas Laghubitta Bittiya Sanstha Ltd. Katakari, Katakari, Morang, Nepal licensed under the "Company Act 2063" with the Company Registrar's office of Nepal as a 'D' Class national level micro-finance institution. Institution is planning to upgrade our Data Center Infrastructure in near future. For this, we announced sealed bids from the concerned suppliers/vendors for their proposals of supplying & delivery of data center infrastructure assets along with copy of **VAT registration copies, authorized letter** of sales and support from original equipment manufacturer (OEM) or distributors within 15 days from the publication of notice addressing to under mentioned details.

Eligible interested supplier can get tender, necessary tender documents and specification details up on payment of NPR. 5000.00 from our head office at Katakari, Morang. We reserve the right to accept or reject the bid that fully or partially complies with the specification mentioned on the tender document.

General Information

Tender NO	IT/1/2079/80
Issue Date	2080/01/05
Title	Supply & Delivery of IT Assets for IT Infrastructure Upgradation
Last Submission Date, Time	2080/01/21 till 5:00 PM
Opening Date, Time	2080/01/24 at 1:00 PM at Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katakari-2, Morang
Contracting Authority	Jeevan bikas Laghubitta Bittiya Sanstha Limited, Katakari, Morang Phone: 9802796196 email: info@jeevanbikas.org.np , info@jeevanbikasmf.com

1. Scope of Supply

The subject of the invitation for bid is for the supply & delivery of Servers, , Core Switch, Firewall, NAS along with other required accessories at Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katakari-2, Morang premises as per the **bill of materials (BOM)** provided in **schedule – 2**.

2. Documents to be submitted by the bidders

- 2.1 Bid Submission Form as per Annex-1
- 2.2 Bid Document purchased from JLBLSL
- 2.3 Bid Bond Voucher
- 2.4 Power of Attorney and Specimen Signature Authorized person who shall sign on Bid Document
- 2.5 Price Schedule-2
- 2.6 Data sheets of the quoted equipments
- 2.7 Specification Schedule-3



- 2.8 Company registration certificate certified by Notary Public
- 2.9 VAT certificate certified by Notary Public
- 2.10 Tax Clearance Certificate of FY 2078/079 certified by Notary Public
- 2.11 Authorized letter of sales and support from original equipment manufacturer (OEM) or distributor certified by Notary Public

A. Supplier's Eligibility/Administrative Schedule-1:

S. No.	Evaluation/Qualification Criteria
1.	The bidder is required to sign all pages of bid document with office seal.
2.	The bidder is required to mention "Fully Compliant", "Partially Compliant" or "NonCompliant" under the bidder's offer in Specification Schedule-3. Any other offer other than above will be treated as "Non-Compliance".
3.	The bidder must submit a valid Manufacturer's authorization letter from OEM for the hardware products. For software, authorization is required but bidders may have the flexibility of submitting one from an authorized distributor along with a Support Assurance letter, indicating their support for the project.
4.	The bidder should have at least one Certified Professionals in Virtualization Technology and Network Administrator/Associate(CCNA)
5.	The bidder should have experience of Installation and Commissioning of Server, Virtualization, SAN, HA in at least three institutions and Preference will be given to vendors who has experience in deployment of similar architecture at local level.
6.	Servers & Server Core Switch should be of same brand.
7.	The bidder shall demonstrate at least one customer's reference in the form of end user. Certificate of track record of successful support of enterprise customer for enterprise hardware infrastructure.
8.	The bidder must present official document showing at least five crore rupees transaction in any one fiscal year among last three fiscal year.
9.	Bids should be submitted for all items with the requested quantity. Partial or incomplete bids will be considered non-responsive.
10.	Bidder shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Government of Nepal. The bidder and Manufacturer who are black listed or are under the process of being black listed shall not be eligible to participate this bidding process. The bid offered by such bidder and Manufacturer shall not be considered for the bid evaluation.
11.	Bidder found to be involved in fraudulent activity such as cratering in order to manipulate the bid price, submission of fake certificates, fake information may be blacklisted, and submitted bid shall be rejected.

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12.	Any attempt by a Bidder to influence the buyer in the examination, evaluation, comparison, and post-qualification of the Bids or Contract award decisions may result in the rejection of its Bid. The buyer shall examine the technical aspects of the bid in particular, to confirm that all requirements of Schedule-3 have been met without any material deviation or reservation. To assist in the examination, evaluation, comparison and post-qualification of the Bids, the buyer may, at its discretion, ask any bidder for a clarification of its Bid. Any clarification submitted by a Bidder with regard to its Bid and that is not in response to a request by the Buyer shall not be considered. The Buyer's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Buyer in the evaluation of the Bids. The buyer shall evaluate and compare each Bid that has been determined, up to this stage of the evaluation, to be substantially responsive.
13.	Any deviation from the technical specifications as well as administrative clauses shall make the bid non-responsive.
14.	The buyer shall select to award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
15.	At the time the Contract is awarded, the Buyer reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Schedule-2 and 3.
16.	Local bidder are encouraged to participate in the bidding process.
17.	Delivery site and Time: The delivery site of items are defined at Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katahari, Morang. The bidders are required to submit their shortest time period for delivery of equipment and accessories. The delivery date should not exceed three months from the agreement date.
18.	Bid Bond: Bidder should present cash deposit voucher of 5% of the bid price Himalayan Bank Ltd., Biratnagar Branch, Account No. : 01308052520019 , Account Name: Jeevan Bikas Laghubitta Bittiya Sanstha Limited while submitting the bid document. Deposit amount may be forfeited in case of non-compliance of terms and conditions mentioned.
19.	Bid Validity: The bid must be valid for 120 days counting from the day of bid opening.
20.	Performance Bond: After notification by Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katahari, Morang and before signing agreement the successful bidder (the supplier) shall furnish to Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katahari, Morang a performance guarantee of Ten per cent (10%) of the total contract amount issued by reputable commercial bank acceptable for Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katahari, Morang or cash deposit to Jeevan Bikas Laghubitta Bittiya Sanstha Limited, Katahari, Morang account department.
21.	Prices: Prices shall be fixed prices. Prices shall be inclusive of VAT and other public charges. The prices shall include the costs of goods, packaging, transportation and all other local costs incidental to deliver the goods to the final destinations as well as the costs for loading and unloading.

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22.	<p>Payment Terms: Milestone 1: 25% Advance payment during agreement, Milestone 2: 50% after delivery of goods Milestone 3: And remaining will be paid after the successful supply, installation and successful testing of all items.</p>
23.	<p>Defaults: The buyer, without prejudice to any other remedy for breach of contract, by written notice sent to the supplier, may terminate this contract in whole or in part:</p> <ol style="list-style-type: none"> If the supplier fails to deliver any or all goods within the period specified in the contract, or within any extension granted by the buyer. If the supplier fails to perform any other obligation(s) under this contract. If the supplier, in the judgment of the buyer has engaged in corrupt or fraudulent practices in competing for or in executing the contract. <p>In any of the events above, the buyer may procure upon terms as it deems appropriate, goods similar those undelivered, and the supplier shall be liable to the buyer for any excess cost of such similar goods.</p> <p>The proceeds of the performance security shall be payable on first demand to the buyer as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract. Note:</p> <ul style="list-style-type: none"> In case of discrepancy between unit price and total, the unit price shall prevail. In case of discrepancy between unit price in figure and unit price in words, the lower amount shall prevail. Bidder must have to accept the correction and arithmetic error. The buyer shall deduct from source any TDS (tax deduction as source) that is due as per the prevailing rules and regulations of the Government of Nepal. The bid document should not have any corrections, overwriting. If required, there should be authorized signature. If the last date of bid submission and opening falls on a government holiday then the next working day shall be considered the last day.
24.	<p>Force Majeure: Neither party shall be considered to be in default nor in breach of its obligations under the contract if the performance of such obligations in prevented by any event of force majeure arising after the date of the contract becomes effective. For the purpose of this Article, the term "force majeure" means acts of God, storms, fire, war, civil war, military action, government emergency orders, strike as well as transportation accident, earthquake, tidal waves and any other similar unforeseeable events which are beyond the Parties' control and cannot be overcome by due diligence.</p> <p>If either Party considers that any circumstances of force majeure have occurred which may affect performance of its obligation, it shall promptly notify the other party and the Contracting Authority, giving details of the nature, the probable duration and the likely effect of the circumstances. Should the effect of force majeure continue for more than 20 consecutive days, JBLBSL and the supplier shall discuss through friendly negotiation as soon as possible their obligation to continue performance under the terms and conditions of this contract.</p>


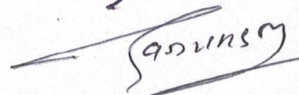
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25.	<p>Liquidated Damages for Delay: Subject to force majeure, if the supplier fails to deliver any of the goods or to perform any of the services within the time period specified in the Contract, JBLBSL may, without prejudice to any other rights and remedies, deduct from the total price stipulated in the Contract an amount of 2.5% of the price of such goods for each commenced week of delay.</p> <p>However, the ceiling of these penalties is 10% of the total contract price.</p>
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B. Price Schedule-2

S. No.	Items	Brand & Model (To be mentioned)	Qty	Rate	Total
1)	Rack Server		2		
2)	Managed Giga Switch-A (Server)		1		
3)	Managed Giga Switch-B (Network)		1		
4)	Firewall – with 1 year subscription		2		
5)	Cable Manager		2		
6)	Aten KVM console Cable		2		
7)	Patch Cord 3m FC		10		
8)	Patch Cord 3m Ethernet 10G		10		
9)	NAS		1		
10)	Installation, Migration Configuration, User training & 1 year Post Implementation Support		1		
Taxable Amount Total					
VAT (13%)					
Grand Total Amount					
Amount in words:					



C. Specification Schedule-3

1. Rack Server

Quantity-2

Item	Minimum Specifications	Comply	Specify
		(Yes/No)	Comments
Server Brand	Should be a brand from a reputable infrastructure company.		
Model	Specify the exact model name of the proposed System		
Country of Origin	Specify the Country of origin of the proposed system		
Server type	Performance Server 2U, 2-socket		
Server CPU	Upto two Intel Xeon Gold 5318Y 2.1G, 24C/48T, 11.2GT/s, 36M Cache, Turbo, HT (165W) DDR4-2933 or Higher		
Server Memory	Include 8 x 64GB RDIMMs, 3200MT/s		
	Must have 32 DDR4 DIMM slots, supports RDIMM 2 TB MAX, speeds up to 3200 MT/s, support upto 8TB MAX.		
Raid Controller	PERC H755 Raid Controller, 8GB NV Cache		
Internal Storage	Include 7 x 1.92TB SSD SAS ISE Read Intensive 12Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD 4		
	Front bays: 2.5" Chassis with up to 24 bays (16 SAS/SATA Drives+ 8 Nvme drives), 2 CPU		
Embedded NIC	Include 2 x 1 GbE LOM Embedded		
Network Connectivity	2*10G Ethernet port, 2* 10G SFP+ Port		
	with Transceiver module		
Cooling	Support Air cooling		
Fans	Standard Fan x6		
PCIe	Riser Config 1, 6x8, 2x16 slots		
Operating System	<ul style="list-style-type: none"> • Canonical Ubuntu Server LTS • Citrix Hypervisor • Microsoft Windows Server with Hyper-V • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi 		
Server Management and Platform Security	iDrac Enterprise, Support the server infrastructure management included with below security and management features.		
	Support Agentless architecture		
	Support Ability to use for template / policy based bare-metal server deployment		
	Support for Operating system deployment		
	Support Automate backup of hardware settings and firmware image		

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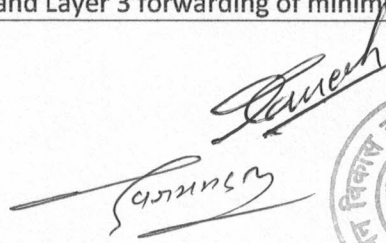



	Support Server management module should have tight integration with VMware vCenter and Microsoft System Center		
	Support Alerts and notification for hardware issues and baseline configuration drifts		
	Support All events related to hardware and configurations should be logged and should be persistent		
	Support lockdown the system to prevent system configuration and firmware changes		
	Support BIOS recovery		
	Support BIOS and Chipset level security – Should include Silicon based hardware-root-of-trust for boot authentication		
	Support management/monitoring of the server such as wireless management module will be an added advantage		
Physical Security	Support lockable Metal front Bezel to provide physical security		
Power Supplies	Dual, Hot-Plug, Fully Redundant Power Supply (1+1), 1400W, Mixed Mode		
Accessories	Include all required accessories for rack mounting and cabling management.		
Warranty and Maintenance	The Tender should provide 36 months Warranty for all equipment and software included in the proposed solution and one year on-site service warranty		
Manufacturer Authorization Letter	Tenderer must attach Original manufacturer's authorization letter		

2. Managed Giga Switch – A

Quantity-1

Features	Description	Comply	Specify
		(Yes/No)	Comments
Brand	Specified by the Bidder		
Model	Specified by the Bidder		
Performance	The proposed solution must have dual power supply from day one		
	Switch should have 24 x 1/10G SFP+ ports and 2x QSFP28 Ports. 12x Copper SFP and 10G SFP+ transceiver should be provided from Day one.		
	The proposed solution must support a minimum 960 Gbps wire-speed switching throughput and distributed Layer 2 and Layer 3 forwarding of minimum 700 Mpps.		


	Switch should support Active/Active cluster of two core switches to provide sub-second failover and full utilization of all links connected.		
	The switch have dual power supply		
	The proposed solution must support Jumbo frames 9,000 bytes		
	The Proposed Solution must Support Support for up to 128K IPv4 and 64K IPv6 routes		
	Minimum number of MAC address: 200K		
QoS Features	Class-Based Weighted Fair Queuing (CBWFQ), hierarchical QoS (H-QoS), packet redirection, WRR, DRR,SP, WRR+SP queue scheduling algorithms		
	Switch should support VXLAN gateway functionality support for bridging and routing the non-virtualized and the virtualized overlay networks with line rate performance		
	Switch should support integration with Openstack SDN orchestrator		
	Should support Cloud-ready and zero-touch provisioning (ZTP)		
	Switch should support VLAN Trunking Protocol (VTP), Trunking, Private VLAN (PVLAN), dynamic voice VLAN, 802.1Q tunneling (Q-in-Q)		
	Switch should support Routed Access – OSPF and RIP, Policy-Based Routing (PBR), Virtual Router Redundancy Protocol (VRRP), 802.1X, MACsec-128,802.1X, MACsec-128 , EVPN and VXLAN		
Management and Reporting	SSH, SNMP, Syslog, Switched Port Analyzer (SPAN), Remote SPAN (RSPAN)		
Warranty	3 years warranty, Hardware replacement including training and local support.		
Manufacturer Authorization Letter/Form	Must provide manufacturer authorization letter/form from Original Equipment Manufacturer (OEM)- it should be provided both hardcopy as well as softcopy via respective OEM email domain to client email id mentioned in bidding document.		

3. Managed Giga Switch – B

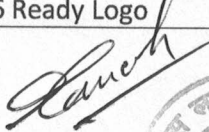
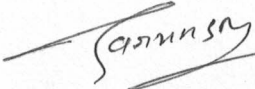

Quantity-1

Features	Description	Comply	Specify
		(Yes/No)	Comments
Brand	Specified by the Bidder		
Model	Specified by the Bidder		
	Switch must be enterprise grade in 1 RU form-factor with internal power supply.		
	Switch Should have minimum 512 MB RAM		
	Switch Should have minimum 256 MB Flash		

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Performance			
	Switch shall have minimum 56 Gbp of switching fabric and 41.67 Mpps of forwarding rate		
	Shall have minimum 15 K MAC Addresses and 256 active VLANs.		
	Shall have minimum IPv4 and IPv6 multicast routes and 1024 IGMP groups		
	Should have minimum 64 STP instances		
	Switch should have 28 Gbp forwarding bandwidth and Switch should have 56 Gbps switching bandwidth		
Functionality			
	Should support IEEE Standards of Ethernet: IEEE 802.1D, 802.1s, 802.1w, 802.1x, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.3, 802.3u, 802.3ab, 802.3az.		
	Switch must have features like static routing 16 for IPv4 and 16 for IPv6		
	Shall have 802.1p class of service, marking and classification & eight egress queues.		
	Switch should support QoS through Differentiated Services Code Point (DSCP) mapping and filtering.		
	Switch should support Shaped Round Robin (SRR) scheduling and Weighted Tail Drop (WTD) congestion avoidance.		
	Switch should support management features like SNMPv3, NTP, RADIUS and TACACS+ .		
	Switch should support advance mechanism to handling link failures and improving convergence time in ring topologies with industry standard like Resilient Protocol or equivalent.		
	Switch should support DHCP, Auto Negotiation, DTP, LACP, UDLD, MDIX, VTP, TFTP, NTP, Per-port broadcast, multicast and unicast storm control.		
	Must have the capabilities to enable automatic configuration of switch ports as devices connect to the switch for the device type.		
	Switch management support with over-the-air access via Bluetooth, Simple Network Management Protocol (SNMP), RJ-45, or USB console access		
	Should have trunk failover capabilities to ensure server NIC adapters teamup to provide redundancy in the network so that in case of the link is lost on the primary interface, network connectivity is transparently changed to the secondary interface.		
	Security with 802.1X support for connected devices, Switched Port Analyzer (SPAN), and Bridge Protocol Data Unit (BPDU) Guard		
	Switch should support MTBF of 2026793		
	Industry Standard : 60950-1, CISPR32 Class A, EN55024, RoHS and IPv6 Ready Logo		

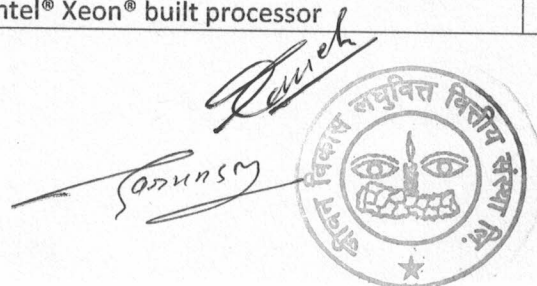




Operating Temperature range : -5 to +50 degC		
Interface		
Mimimum 24 x 10/100/1000 Base-T ports and additional 4 nos. SFP uplinks ports		
Uplink ports can be used to connect up to eight switches and manage them via a single IP address.		
Certification:		
Safety and compliance		
Safety certification UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1		
Second Edition, IEC 60950-1 Second Edition, AS/NZS 60950-1		
EMC: Emissions certification 47CFR Part 15 (CFR 47) Class A, CISPR32 Class A, EN55032 Class A, ICES003 Class A, VCCI Class A, EN61000-3-2, EN61000-3-3, KN32 Class A, CNS13438 Class A		
EMC: Immunity, certification EN55024 (including EN 61000-4-5), EN300386, KN35		
1 years OEM warranty		

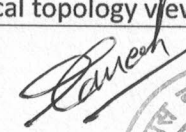

4. Firewall

Quantity-2

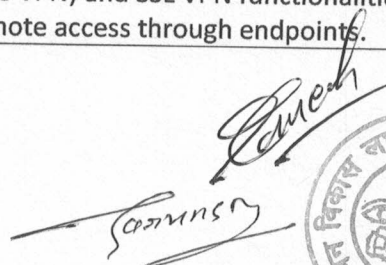

	Technical Requirements	Comply (Yes/No)	Specify Comments
Brand/Model :	To be mentioned by the bidder		
General Features			
	The proposed solution must be in the Leaders Quadrant of Gartner's Magic Quadrant for Enterprise Network Firewall for the last 5 years.		
	The proposed Hardware should not have End of Sale for next five years.		
	The proposed solution should be Next Generation Firewall for enterprise level with best security features in the market.		
	Should have dedicated security and network processors to enhance system performance		
	The proposed solution should have separate built-in processors to offload resource intensive traffic from CPU and memory like most of the IPv4 and IPv6 traffic, IPSec VPN encryption/decryption, IPS, SSL VPN encryption etc		
	The proposed solution must have minimum 8 core CPU with Intel® Xeon® built processor		



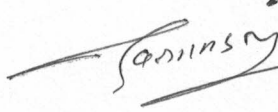
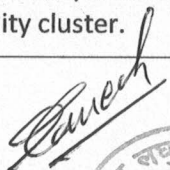

	The proposed solution must have minimum 8 GB RAM		
System Performance			
Interface	Must have 4x 10 GE SFP+, 18x GE RJ45, 8x GE SFP		
Firewall Throughput	should have or higher than 27 Gbps		
NGFW Throughput	should have or higher than 3.5 Gbps		
IPS Throughput	should have or higher than 5 Gbps		
Concurrent Sessions	should have or higher than 3Million		
New Connection/Sec	should have or higher than 280,000/sec		
Threat Protection Throughput	should have or higher than 3 Gbps		
IPSec VPN throughput	should have or higher than 13 Gbps		
SSL VPN throughput	should have or higher than 2 Gbps		
Advanced Features			
	The proposed system should have SD-WAN features without the need of extra device or license.		
	The proposed solution must support Advanced Routing Protocols such as: RIP, OSPF, BGP, Multicast, IPV4, IPV6		
	Solution should support Static routes, Multicast routes & Policy-based routing and should support static NAT, Dynamic NAT and PAT		
	Should support dynamic path selection over multiple WAN links to provide optimum application experience via self-healing SDWAN features		
	Threat Prevention must have a software-based fail-open mechanism, configurable based on thresholds of security gateways CPU and memory usage		
	The proposed solution should have the ability to identify attacks based on Geolocation and define per policy to block on the basis of Geolocation and tag public IP Address with the physical geo location		
	The Firewall should be Hardware based, Reliable, purpose-built security appliance supporting State full policy inspection technology. It should have network's physical and logical topology view		

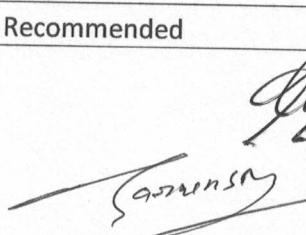

	Should provide full visibility into network users, hosts, applications		
	Should have capability to perform deep inspection of SSL encrypted traffic with TLS 1.3		
	Should support 3G/4G external modems for redundant WAN connectivity		
	The Firewall should be Hardware based, Reliable, purpose-built security appliance supporting State full policy inspection technology. It should have network's physical and logical topology view		
	The proposed system should have in-built 802.11 a/c Wireless Controller feature.		
	The proposed system should support audit trail feature for tracking activities performed by admin.		
	The proposed system should have QoS management feature		
	Should have advanced reporting in real-time for visibility into network performance		
	Firewall should support Link Aggregation functionality to group multiple ports as single port.		
	Should have in-built two factor authentication system atleast 2 if any add on than license should be included.		
	Should have feature of configuration and log back up via USB.		
	Should support sandboxing feature for analyze the behaviour of the suspicious files.		
	Should have revision features to previous configuration and firmware with an roll back option.		
	The solution should be supported with the third party integration for Endpoint, private/public SDN and threat feeds.		
	Should have basic feature of NAC which shall be integrated with switch.		
	Solution should support Zero Touch Provision.		
	Firewall Management system should also provide the real time health status of all the firewall modules on the dashboard for CPU & memory utilization, state table, total number of concurrent connections and the connections/second counter		
VPN			
	Proposed Solution framework should have IPSec VPN (Site to Site VPN) and SSL VPN functionalities for secure remote access through endpoints.		

	Should support secure VPN remote application for connecting to IPSEC and SSL VPN.		
	Should support automated VPN tunnels with bandwidth aggregation features		
	The proposed system should support Auto Discovery VPN.		
Security Features			
	The proposed system should have features to support IPS, Application Control, Antivirus features, anti-malware features.		
	should support advanced feature like creating new IPS signatures to filter the incoming and outgoing traffic as required		
	Must have atleast 16 built in Application control categories to filter application traffic with Application and Filter Overrides features.		
	should support advanced feature like WAF to protect internal server against top 10 Owasp		
	Proposed solution should identify common applications, supports application-specific access control, and combines application identification with intrusion prevention, antivirus, and data filtering to improve detection performance and accuracy.		
	The proposed solution should be able to constitute Gartner's Cybersecurity Mesh Architecture.		
	The proposed solution should be able to automate action on firewall events such as HA failover, Interface down, configuration changes and so on.		
Management			
	The proposed solution should support single pane management using external manager to manage the proposed firewall.		
	Must have feature to be integrated and controlled by the external device manager, to control the entire device.		
	Should have one console port		
	The proposed solution should support packet capture and view in realtime from the GUI.		
	The proposed solution should support debug flow output displayed in realtime from the GUI.		
High availability and virtual System Feature			
	The solution should support Active/Active and Active/Passive High Availability cluster.		

	Should be able to do HA between two virtual systems i.e.first firewall virtual systems to another firewall virtual systems.		
Log/Reporting			
	The proposed solution logs must contain information about the firewall policy rule that triggered the log.		
	The proposed solution must provide at a minimum basic statistic about the health of the firewall and the amount of traffic traversing the firewall.		
	The proposed should have support to log (in detail) all connections which are blocked or pass through the firewall.		
	The proposed solution should have support to generate performance statistics on real-time basis.		
	The proposed solution should have the capability to produce reports which measure usage.		
	The proposed solution should have application-based and user-based logs.		
	The proposed solution should be able to resolve hostname and unknown application in logs.		
	The proposed solution should be able to send logs to four syslog server or SIEM solution.		
	The proposed solution should be able to hide usernames in traffic and UTM logs to generate anonmyized logs.		
	The proposed solution should be able to send notification to mail upon detection of event.		
	The proposed solution should support local reporting and send email to admin either recurringly or on-demand.		
	The proposed solution should be able to protect log data by performing log backups to FTP, TFTP, or USB in LZ4 format.		
	The proposed solution should be able to schedule the report that which gives an overview of Application Visibility, Web Traffic Analysis and User Behavior Analysis.		
Industry Certifications			
	ICSA Labs certified – Firewall		
	ICSA Labs certified – IPS		
	ICSA Labs certified – Antivirus		
	Virus Bulletin VB100		
	NSS Labs Recommended		

Warranty			
	The Proposed Appliance should have one(1) year OEM warranty and 24x7 support.		
Licenses			
	The Proposed Appliance should have 1 year security subscriptions for(IPS, Advanced Malware Protection Service, Application Control) from day one.		
	The Proposed Appliance should support 1 week of free log retention service on cloud with no extra charge.		

5. Cable Manager

Quantity-2

Description	Bidder's Offer
<ul style="list-style-type: none"> • BRAND to be specified by Bidder • 1 U, Horizontal cable management • Standard EIA 19" rack and Cabinet mount. 	

6. ATEN KVM Console VGA Cable

Quantity-2

<ul style="list-style-type: none"> • Model to be specified by Bidder • USB support 	
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7. Patch Cord 3m (FC)

Quantity-10

Description	Bidder's Offer
<ul style="list-style-type: none"> • BRAND to be specified by Bidder • LC to LC Fiber Patch Cable Single Mode Duplex - 3m - 9/125um OS1 LSZH PureOptics Optic Patch Cable Series 	

Sansar

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8. Patch Cord 3m(Ethernet)

Quantity-10

Description	Bidder's Offer
<ul style="list-style-type: none"> • BRAND to be specified by Bidder • 3 meter • Component rated CAT 6A patch cords assuring high signal quality, minimal cross talk and return loss, and minimizing alien crosstalk • Creates a high speed CAT 6A Connection for cross and direct connects by patching cables runs to subsystems and equipment • Designed with a low profile snagless boots for high density applications without any compromise in performance • Exceeds ANSI/TIA-568 Category 6A standard • Supports 10GbE bandwidth • Shielded construction reduces EMI/RFi interference 	

9. Network Attached Storage (NAS)

Quantity-1

Features	Description	Comply (Yes/No)	Specify Comments
Brand	Specified by the Bidder		
Model	Specified by the Bidder		
	• 2x 10GbE SFP+ LAN Integrated		
	• 2x2.5GbE LAN Integrated		
	• 8-Bay Hot swappable Drive Bays		
	• 6 x 8TB NAS Storage SATA HDDs Included		
	• AL Quad-Core 1.7 GHz Processor		
	• Rack Mount Chassis with Rail Kits		
	• 250W Redundant Power Supply		
	• RAID 0, 1, 5, 5+, 6, 6+, 10, 10+		
	• 4GB DDR4 UDIMM RAM (max 16GB)		
	• SSD, SATA NAS Storage Drives supports		
	• 4 * USB 3.2 Gen 1 Port		
	• 1x PCIe Gen2 x2 slot		
Features included with			
	• SSD Caching, iSCSI Target, iSCSI LUN Snapshot/Backup		
	• Thin-Provisioned Volume		
	• Snapshot Protection		
	• Hardware Encryption Engine –AES-NI		

Handwritten signatures and marks.



· Volume Encryption		
· SED Encryption		
· RTRR- Real Time Remote Replication		
· Client Backup Software - NetBak Replicator		
· Active Directory Authentication		
· 3 Years Parts and service warranty included, Manufacture Authorisation Letter.		





10. Installation, Migrations, Configuration & User Training

Quantity-1 Lot

Description	Bidder's Offer
<ul style="list-style-type: none"> • Installation, Configurations and migrations of Servers, VMs, Firewalls and other required items at Data Center • Installation and configuration of MS SQL Always on configuration and replication between DC & DR site • High Availability Configuration on Firewall and CBS. • Installation, Configuration of HyperV. • Installing Windows Server • Preparing required virtual machines with required software • Configuring backup software, replication • Testing of HA, DR etc. • Tagging/labeling of nodes, points, equipment • Installation & configuration documentation with all password configured 	
<ul style="list-style-type: none"> • Installation to be done by certified professional with industry standard workmanship • Post installation, one-week orientation training of overall system to Jeevan Bikas Laghubitta Bitiya Santha LTD IT Team and 12 (Twelve) months post implementation support. 	






Annex-1

Bid Submission Form

(The Bidder shall accomplish the Bid Submission Form in its Letter Head Clearly showing the Bidders Complete name and address)

Date: _____
Contract No.: _____
Invitation for Bid No.: _____

To: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____;
(b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule specified in the Schedule of Requirements, the following Goods and Related Services: _____;
(c) The total price of our Bid, excluding any discounts offered in item (d) below is: _____;
(d) The discounts offered and the methodology for their application are: _____;
(e) Our Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
(f) If our Bid is accepted, we commit to obtain a Performance Security in the amount of 10 percent of the Contract Price for the due performance of the Contract;
(g) We are not participating, as Bidders, in more than one Bid in this bidding process in accordance with the Bidding Document;
(h) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the GoN;
(i) The following commissions, gratuities, or fees, if any, have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Table with 4 columns: Name of Recipient, Address, Reason, Amount. Contains three rows of blank lines for data entry.

(If none has been paid or is to be paid, indicate "none.")

- (j) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.
(k) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
(l) We declare that we are not ineligible to participate in the procurement proceedings; have no conflict of interest in the proposed procurement proceedings and have not been punished for a profession or business related offense.
(m) We agree to permit JBLBSL or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the JBLBSL.

Name : _____

In the capacity of : _____

Signed : _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

Handwritten signature and official circular stamp of the organization.