

## Section VII. Technical Specifications

ITEM NO.	SPECIFICATION	STATEMENT OF COMPLIANCE			
	<p><b>Procurement of Firewall - PhP 4,230,000.00</b></p> <p><b>LOT 1 – PROCUREMENT OF NEXT GENERATION FIREWALL APPLIANCE (EXTERNAL CAMPUS) – PHP 1,580,000.00</b></p> <p><b>LOT 2 – PROCUREMENT OF GENERATION FIREWALL WITH UNIFIED THREAT MANAGEMENT – PHP 2,650,000.00S</b></p>	<p>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</p>			
	Specification	UNIT	QTY	BRAND	Statement of Compliance
	Lot 1	<b>Next Generation Firewall Appliance</b>			
1	Firewall	unit	2		
	<p><b>Next Generation Firewall Appliance</b></p> <p>Performance:</p> <ul style="list-style-type: none"> <li>2.6 Gbps IPS throughput</li> <li>1.6 Gbps NGFW throughput</li> <li>1 Gbps Threat Protection throughput</li> <li>20/18/10 Gbps IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)</li> <li>4.97 µs Firewall Latency (64 byte, UDP)</li> <li>15 Mpps Firewall Throughput (Packet per sec)</li> <li>1.5 Million Concurrent Sessions (TCP)</li> <li>56,000 New Sessions/second (TCP)</li> <li>10,000 Firewall Policies</li> <li>11.5 Gbps IPsec VPN Throughput (512 byte)</li> <li>2000 Gateway-Gateway IPsec VPN Tunnels</li> <li>16,000 Client-Gateway IPsec VPN Tunnels</li> <li>1 Gbps SSL-VPN Throughput</li> <li>500 Concurrent SSL-VPN users</li> <li>1 Gbps SSL Inspection Throughput</li> </ul> <p>Connectivity:</p> <ul style="list-style-type: none"> <li>12 × GE RJ45 ports</li> <li>4 × GE SFP slots</li> <li>2 × 10GE SFP+ slots</li> <li>2 × RJ45 HA ports &amp; MGMT, USB, Console port</li> <li>1U rackmount form factor</li> <li>Redundant Power Supply</li> </ul> <p><b>(For Leon and Barotac Nuevo Campuses Deployment)</b></p>				

2	Firewall	<p><b>Next-Generation Firewall Appliance</b></p> <p><i>Performance:</i>  5.3 Gbps IPS throughput  3.1Gbps NGFW throughput  2.8 Gbps Threat Protection throughput  39/39/28 Gbps IPv4 Firewall Throughput  (1518 / 512 / 64 byte, UDP)  3.17 µs Firewall Latency (64 byte, UDP)  42 Mpps Firewall Throughput (Packet per sec)  3 Million Concurrent Sessions (TCP)  140,000 New Sessions/second (TCP)  10,000 Firewall Policies  35 Gbps IPsec VPN Throughput (512 byte)  2000 Gateway-Gateway IPsec VPN Tunnels  16,000 Client-Gatewal IPsec VPN Tunnels  1.5 Gbps SSL-VPN Throughput  500 Concurrent SSL-VPN users  3 Gbps SSL Inspection Throughput  1 x 480 GB SSD Internal Storage</p> <p><i>Connectivity:</i>  16 × GE RJ45 ports  8 × SFP ports  4 × 10GE SFP+ slots  2 × RJ45 HA/Management ports, USB, Console port</p> <p>1U rackmount form factor  Redundant Power Supply  <b>(For Miagao Campus Deployment)</b></p>	unit	1		
		<p><b>For both types of firewall, the subscriptions includes:</b>  (1 year subscription)  1. Intrusion Prevention System  2. Anti-Malware Protection (AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct 3, AI-based Heuristic AV, Cloud Sandbox)  3. URL, DNS and Video Filtering  4. Anti-Spam  5. Application Control  6. Integrated SD-WAN, ZTNA, and Security Fabric Support</p> <p><b>Scope of Works</b>  *Delivery of three (3) unit NGFW) appliances  Installation, configuration, and integration into the existing network infrastructure.  *Testing and commissioning of the firewall solution.  *Conduct of knowledge transfer and basic training for technical staff.  *Provision of project documentation (hard/soft copy).</p> <p><b>Supplier Certifications And Qualifications</b>  *Service center within the locality  *The bidder must have at least one team member certified in a globally recognized network security program for the product offered.</p>				

		<p>*The bidder must have at least one team member certified by an internationally recognized cybersec organization.</p> <p><b>Warranty And Technical Support</b>  One (1) year warranty on service  One (1) year license subscription</p> <p><b>Payment Term</b>  One-time payment (After Testing and Commissioning)</p> <p>Delivery Period: 45 days  Warranty Period: 1 year on parts/services  Includes 1 year subscription  After Sales Services: Service center within the locality</p>				
	Lot 2	<b>Next Generation Firewall with Unified Threat Management</b>				
1	Firewall	<p><b>Next Generation Firewall with Unified Threat Management</b></p> <p><b>Performance:</b>  Firewall Throughput: 80 Gbps  Firewall IMIX Throughput: 37 Gbps  Next-Gen Firewall (NGFW) Throughput: 30 Gbps  Threat Protection Throughput: 31 Gbps  IPS Throughput: 35.7 Gbps  TLS/SSL Inspection Throughput: 10.6 Gbps  IPsec VPN Throughput: 75 Gbps  Latency (64-byte UDP): 4 μs (microsecond)  Concurrent Connections: 17,200,000  New Connections per Second: 450,000</p> <p>Form Factor: 1U rackmount</p> <p><b>Connectivity and Interfaces</b></p> <p><b>Fixed Ethernet Interfaces:</b>  4 x GbE copper ports (with 2 bypass pairs)  4 x 2.5 GbE copper ports  4 x SFP+ 10 GbE fiber ports  Flexi Port Slots: 2 bays for optional add-on modules to e</p> <p><b>Management Interfaces:</b>  1 x RJ45 MGMT port  1 x COM RJ45 port  1 x COM Micro-USB port  2 x USB 3.0 (front)</p> <p>Have at least eight (4) 10Gbe Fiber Transceiver  Short Range</p> <p>Have at least two (2) expansion slots</p>	unit	1		

		<p>Have at least 240 GB of storage  Have hot-swappable redundant power supply  Have dedicated management port</p> <p><b>Firewall Management, Networking, Routing</b>  Shall include Application Programming Interface (API) to enable integration with 3rd-party systems  Support cloud-based license management  Incorporate high-performance, unified Deep Packet Inspection (DPI) engine capable of performing stream-based scanning for intrusion prevention, antivirus, web filtering, application control, and TLS inspection.  Customizable Network Address Translation (NAT) policies, including IP masquerading  Robust flood protection mechanisms to mitigate Denial-of-Service (DoS), Distributed Denial-of-Service (DDoS), and port scan attacks.  Routing protocols: Static routing, multicast routing, (PIM-SM), RIP, BGP, OSPFv3(IPv6), BGPv6.  Flexible traffic shaping(Quality of Service QOS)</p> <p><b>Network Protection</b>  Intrusion Prevention System (IPS)  Creation of custom IPS signatures  Incorporate new IPS patterns</p> <p><b>VPN Support and Portals</b>  Support site-to-site VPN connectivity using both SSL and IPSec protocols  Support 256-bit AES and 3DES, IKEv2  Perfect Forward Secrecy (PFS), RSA, X.509 certs  Support route-based VPNs with traffic selectors  Provide users to download SSL remote access clients for Windows OS.</p> <p><b>Email Protection</b>  Support SMTP, POP and IMAP  Support reputation service with spam outbreak monitoring based on Recurrent-Pattern-Detection  Block spam &amp; malware during transaction  Detect phishing URLs within emails</p>				
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	<p><b>Application Visibility and Control</b>  Offer signature-based application control  Application control capabilities including: based on application categories, application characteristics, technologies used by the application, assessed risk level of application, per user or network enforcement</p> <p><b>Web Server Protection</b>  Must be able to harden the web servers  Reverse Proxy technology  URL hardening engine</p> <p>Support Form Hardening, SQL injection protection, cross-site scripting protection, HTTPS (TLS/SSL) encryption offloading, cookie signing with digital signature, reverse authentication, virtual server, wildcard for server paths and domains, allow/block IP ranges</p> <p><b>DNS Security</b>  Cloud-based DNS Service to enhance web security  Capable of blocking access to unsafe and unwanted domains across all ports, protocols, and applications, protecting both managed &amp; unmanaged devices  Continuously updated by a dedicated threat intelligence team using advanced analysis techniques to identify and block malicious &amp; unwanted sites  Updates should be applied in real-time as soon as new threats are discovered.</p> <p><b>Zero Day Protection</b>  Includes zero-day threat protection service, backed by a leading threat intelligence and analysis platform  Leverage advanced static and dynamic file analysis techniques, powered by AI</p> <p>Capable of analyzing file types such as exe, com, dll, doc, docx, docm, rtf, pdf, zip, bzip, gzip, rar, tar, lha/lzh, 7z, and MS cabinet  Provides detailed threat intelligence reports</p>				
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		<p><b>Supplier Certifications And Qualifications</b>  Supplier must have a local store/office  (within the locality)  Authorized Distributor/Dealer/Reseller  certificate from the manufacturer  Manufacturer's certificate of Gold/Platinum/Tier 1  Partner  Locally-based, full-time employee of the prospective  bidder with proof of certificate:  a. Two (2) Certified Architects  b. Two (2) Senior Certified Project Manager</p> <p><b>Warranty And Technical Support</b>  One (1) year warranty on service  One (1) year license subscription  Firmware updates during the subscription period,  24/7 via phone, web portal, and remote assistance  Onsite support, if necessary</p> <p><b>Payment Term</b>  One-time payment (After activation of license)  Installation and configuration of all  system component</p> <p><b>Trade-up: To replace the existing firewall as it is  approaching end-of-life</b></p> <p>Delivery Period: 45  days  Warranty Period: 1 year on parts/services  Includes 1 year subscription of the following:  <i>Xstream Protection</i>  <i>Webserver Protection</i>  <i>Email Protection</i></p> <p>After Sales Services:  With After Sales Support / Knowledge Transfer</p>			
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