



LIST OF ITEMS

**Public Bidding for the Supply, Delivery, Configuration, Deployment, and Commissioning of the National Center for Mental Health (NCMH) Server-Farm Next Generation Firewall and Renewal Licenses of NCMH-Camarin Edge Next Generation Firewall CY 2024
IB No. E-019-2024-PB**

ITEM CODE	ITEM DESCRIPTION	QTY	UOM	UNIT PRICE	TOTAL PRICE
SF-01-2024	<p>Supply, Delivery, Configuration, Deployment, and Commissioning of the National Center for Mental Health (NCMH) Next Generation Firewall</p> <p>I. SCOPE OF WORKS</p> <p>A. General Works</p> <ol style="list-style-type: none"> 1. Delivery, configure, deploy, and commission the procured NCMH Next-Generation Firewall. 2. Configure routing design for server-farm firewall to Edge Firewall, DMZ Switch, and Server-farm Switch. 3. The bidder must configure the procured network active components based on the configuration provided by NCMH IHOMP/IT Unit and migrate all the configurations from the existing NGFW to the newly procured NGFW. 4. During the deployment and configuration, the supplier must ensure that the activity will only have minimal to no business disruptions. 5. The bidder must provide all components, cables, modules, or devices that are necessary for the project. The bidder must consult the system administrator for their preferred schedule before doing any major installation and/or fixes. 6. Define and configure administrative and system security policies, practices, and codes. 7. Prepare a hardened system and turnover of administrative rights to NCMH. 8. Test and debug the deployed network active components. 9. The bidder must provide detailed technical documentation of the project. 10. Any improvement and/or supplemental to the conceptual design, quantity, and/or deemed necessary to attain functionality, integrity, security, and completion of the project must be shouldered by the bidder with no additional cost. 11. Other works and materials that may have been omitted here but are necessary to put the system in operation and to complete the works to commission and implement the system within the required period. 	1	lot	₱ 4,298,590.55	₱ 4,298,590.55



	<p>12. Bidder must provide manufacturer-certified network professional full course training on the existing network engineering technology.</p> <p>i. Curriculum-based and manufacturer training from a certified training center for two (2) NCMH network and security administrators on the following but not limited to installing, configuring, administration, and managing the Next Generation Firewall.</p> <p>B. Technical Specifications The specifications of the proposed network core active components will be the following:</p> <p>1. Physical interfaces</p> <p>i. Mounting: 1U rackmount</p> <p>ii. Multi-function LCD display and navigation</p> <p>iii. Micro USB, RJ45, 2 x USB 3.0, MGMT port</p> <p>iv. 4 x SFP+ fiber ports</p> <p>v. 4 x 2.5 GbE copper</p> <p>vi. 16 x GbE copper</p> <p>vii. 2 x expansion bay</p> <p>viii. Power supply: Internal Hot Swappable auto-ranging AC-DC 100-240VAC, 3.7-7.4A@50-60 Hz Internal Redundant PSU Option</p> <p>ix. Storage: 2 x at least 480 GB SATA-III SSD</p> <p>x. The existing brand utilized by NCMH will not be qualified because of defense-in-depth architecture.</p> <p>2. Performance</p> <p>i. Firewall throughput: at least 75,000 Mbps; 105 Mpps</p> <p>ii. Firewall IMIX: at least 37,000 Mbps</p> <p>iii. Firewall Latency: 4 μs on 64-byte UDP</p> <p>iv. IPS throughput: at least 12,000 Mbps</p> <p>v. Threat Protection throughput: at least 9,000 Mbps</p> <p>vi. NGFW: at least 10,000 Mbps</p> <p>vii. Concurrent connections: at least 7,000,000</p> <p>viii. New connections/sec: at least 500,000</p> <p>ix. IPsec VPN throughput: at least 55,000 Mbps</p> <p>x. IPsec VPN concurrent tunnels: at least 8,500</p> <p>xi. SSL VPN concurrent tunnels: at least 10,000</p> <p>xii. SSL/TLS Inspection: at least 8,000 Mbps</p> <p>xiii. SSL/TLS Concurrent connections: at least 800,000</p> <p>xiv. Application Control Throughput: 28 Gbps</p> <p>xv. CAPWAP Throughput: 65Gbps</p>			
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<p>3. Features</p> <ol style="list-style-type: none"> i. TLS 1.3 Inspection ii. Deep Packet Inspection iii. Can support Centralized Management iv. Synchronized Application Control v. Has sandbox capability; can analyze all unknown files using AI, ML, and sandboxing vi. Next-gen Intrusion Prevention System vii. Advanced Threat Protection viii. Extensive network and threat reporting ix. Web Control x. Web Threat Protection xi. App Control xii. Machine Learning xiii. Cloud-based intelligence and analysis xiv. Dynamic runtime analysis of unknown files xv. Email Protection xvi. Web Application Firewall <p>II. EXPECTED DELIVERABLES</p> <ol style="list-style-type: none"> i. One (1) configured, commissioned, and tested Next-Generation Firewall Appliance. ii. 8 SFP+ Transceivers iii. One 3-year firewall license for features indicated in the TOR. iv. Manufacture Certified Training <p>III. IMPLEMENTATION ARRANGEMENTS INCLUDING ROLES AND RESPONSIBILITIES</p> <p>Within the Project duration the NCMH shall:</p> <ol style="list-style-type: none"> 1. Provide a technical working committee to supervise and monitor the project. 2. Provide a technical contact person 3. Facilitate access to information, documents, facilities and other necessary things needed by the contractor to perform services. 4. Assist in coordinating with and issue instructions as may be necessary or appropriate to other government agencies for the prompt and effective implementation of the services. 5. Approve the proposed working schedule of the supplier. 6. Provide temporary ID to all personnel involved in the installation 7. Grant authorized representative access to premises as well as equipment and all facilities located therein to perform the supplier's obligations. 8. Make prompt review and revision, if necessary, which shall be not later than ten (10) working days from receipt of the work produced. 9. Pay the contractor upon presentation of requisite documents, the amount due him upon 				
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<p>receipt of claims supported with documents subject to acceptance by the NCMH.</p> <p>Within the Project duration the winning Contractor/Supplier shall:</p> <ol style="list-style-type: none">1. Perform services professionally based on industry standards and always protect the interest of the government in general and NCMH.2. Provide a list of certified engineers/technical support team with addresses and contact numbers, involved, and other activities related to the project.3. Secure the NCMH permits, licenses, and approvals that are or may be necessary to perform services.4. Provide a chief officer or program manager (licensed ECE, COE or EE) who will be directly in charge of managing the project, and day-to-day contact personnel in charge of operations.5. Complete the delivery, installation, and configuration within sixty (60) calendar days from the receipt of the Notice to Proceed. Otherwise, the winning Service Provider/Bidder shall pay the corresponding penalties/liquidated damages in the amount of one-tenth of one percent (1/10 of 1%) of the total contract price for every calendar day of delay.6. Submit a proposed working schedule for approval of NCMH and secure a security pass and working permit on their site.7. Ensure that all personnel involved in the project must be in proper uniform because it will be their identification from the rest of NCMH's employees and visitors.8. Protect the privacy of NCMH and ensure that all confidential information and data on its ICT infrastructure are kept confidential. <p>IV. QUALIFICATION OF THE SUPPLIER</p> <ol style="list-style-type: none">1. Bidder must attach to his/her proposal an assurance from his/her principal that the items called for will be supplied in full and on time2. Extensive knowledge, background, and technical experience in a great number of projects covering Network installation, configuration cabling, set-up of PABX, IP Telephony, VOIP, WLAN, VLAN Systems, and Maintenance.3. Extensive knowledge, background, and technical experience in the installation, configuration, interoperability, security, and industry standards on fiber and structured data cabling, wireless LAN, IP telephony, and other factors concerning cabling solutions.4. Should have been engaged for at least five (5) years in various ICT services such as IT project				
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	<p>management, computer networking, voice and data communications infrastructure development, and ICT facilities operation and management.</p> <ol style="list-style-type: none"> 5. The bidder should have locally-based manufacturer-certified engineers who will do the installation, configuration, and after-sales support of all proposed equipment for Firewall Technology. <ol style="list-style-type: none"> i. Licensed Electronics and Communications Engineer ii. Manufacturer Certified Associate or equivalent iii. Manufacturer Certified Professional or equivalent 6. Must have a 24x7 helpdesk support system. 7. All proposed items must be certified genuine and brand new. Bidder must be an authorized Philippine Distributor, Dealer or Value-Added Reseller of his/her proposed products and must provide local technical services on these. <p>V. ADDITIONAL REQUIREMENTS TO BE SUBMITTED WITH TECHNICAL PROPOSAL</p> <ol style="list-style-type: none"> 1. Plan of Approach and Methodology 2. Complete technology solution offered including detailed specification. 3. Corporate Profile which should include major achievements, service Portfolio or services offered by the firm, experience or engagements both local and international. 4. List of engineers. 5. Draft of Service Level Agreement <p>VI. WARRANTY PERIOD AND SERVICES</p> <ol style="list-style-type: none"> 1. Period: Three (3) years warranty is required on all delivered goods and shall take effect immediately after final acceptance of the project with NCMH. 2. Product upgrades: <ol style="list-style-type: none"> i. Provision, supply, and installation of announced improvements on the proposed product and/or any of its components, after the date of submission of proposals and before the date of implementation in the project sites without additional costs to NCMH. ii. Provision or entitlement of all applicable upgrades including hardware firmware or software upgrades without additional cost to NCMH. 3. Preventive and Remedial Services: <ol style="list-style-type: none"> i. Preventive maintenance services are done semi-annually on-site. 				
SF-02-2024	Supply, Delivery, Configuration, Deployment, and Commissioning of the Renewal Licenses of NCMH-Camarin Edge Next Generation Firewall	1	lot	₱ 1,861,800.00	₱ 1,861,800.00



	<p>I. SCOPE OF WORKS</p> <p>A. General Works</p> <ol style="list-style-type: none"> 1. Delivery, configure, deploy, and renew the existing NCMH-Camarin Next-Generation Firewall. 2. The bidder must configure the procured network active components based on the configuration provided by NCMH IHOMP/IT Unit and migrate all the configurations from the existing NGFW to the newly procured NGFW license. 3. During the deployment and configuration, the supplier must ensure that the activity will only have minimal to no business disruptions. 4. Deploy, deliver, commission, and configure the next-generation firewall connected through site-to-site VPN to NCMH – Mandaluyong. 5. The bidder must provide all components, cables, modules, or devices that are necessary for the project. The bidder must consult the system administrator for their preferred schedule before doing any major installation and/or fixes. 6. Define and configure administrative and system security policies, practices, and codes. 7. Prepare a hardened system and turnover of administrative rights to NCMH. 8. Test and debug the deployed network active components. 9. The bidder must provide detailed technical documentation of the project. 10. Any improvement and/or supplemental to the conceptual design, quantity, and/or deemed necessary to attain functionality, integrity, security, and completion of the project must be shouldered by the bidder with no additional cost. 11. Other works and materials that may have been omitted here but are necessary to put the system in operation and to complete the works to commission and implement the system within the required period. 12. Bidder must provide manufacturer-certified network professional full course training on the existing network engineering technology. <ol style="list-style-type: none"> i. Curriculum-based and manufacturer training from a certified training center for one (1) NCMH network and security administrators on the following but not limited to installing, configuring, administration, and managing the Next Generation Firewall. <p>B. Technical Specifications</p> <p>The specifications of the proposed license will be the following:</p> <ol style="list-style-type: none"> 1. Physical interfaces <ol style="list-style-type: none"> i. Mounting: IU rackmount 				
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	<ul style="list-style-type: none"> ii. Multi-function LCD and navigation iii. Micro USB, RJ45, 2 x USB 3.0, MGMT port iv. 2 x SFP fiber ports v. 2 x SFP+ fiber ports vi. 8 x GbE copper vii. 1 x expansion bay viii. Storage: at least 240 GB SATA-III SSD <p>2. Performance</p> <ul style="list-style-type: none"> i. Firewall throughput: at least 58,000 Mbps ii. Firewall IMIX: at least 27,000 Mbps iii. Firewall Latency: 4 μs on 64-byte UDP iv. IPS throughput: at least 14,000 Mbps v. Threat Protection throughput: at least 3,000 Mbps vi. NGFW: at least 12,500 Mbps vii. Concurrent connections: at least 13,700,000 viii. New connections/sec: at least 257,000 ix. IPsec VPN throughput: at least 31,000 Mbps x. IPsec VPN concurrent tunnels: at least 6,500 xi. SSL VPN concurrent tunnels: at least 5,000 xii. SSL/TLS Inspection: at least 3,100 Mbps xiii. SSL/TLS Concurrent connections: at least 100,000 <p>3. Features</p> <ul style="list-style-type: none"> i. TLS 1.3 Inspection ii. Deep Packet Inspection iii. Can support Centralized Management iv. Synchronized Application Control v. Has sandbox capability; can analyze all unknown files using AI, ML, and sandboxing vi. Next-gen Intrusion Prevention System vii. Advanced Threat Protection viii. Extensive network and threat reporting ix. Web Control x. Web Threat Protection xi. App Control xii. Machine Learning xiii. Cloud-based intelligence and analysis xiv. Dynamic runtime analysis of unknown files xv. Email Protection <p>II. EXPECTED DELIVERABLES</p> <ul style="list-style-type: none"> i. One configured, commissioned, and tested Next-Generation Firewall Appliance. ii. One 3-year renewed firewall license for features indicated in the TOR. iii. Manufacture Certified Training 				
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<p>III. IMPLEMENTATION ARRANGEMENTS INCLUDING ROLES AND RESPONSIBILITIES</p> <p>Within the Project duration the NCMH shall:</p> <ol style="list-style-type: none"> 1. Provide a technical working committee to supervise and monitor the project. 2. Provide a technical contact person 3. Facilitate access to information, documents, facilities and other necessary things needed by the contractor to perform services. 4. Assist in coordinating with and issue instructions as may be necessary or appropriate to other government agencies for the prompt and effective implementation of the services. 5. Approve the proposed working schedule of the supplier. 6. Provide temporary ID to all personnel involved in the installation 7. Grant authorized representative access to premises as well as equipment and all facilities located therein to perform the supplier's obligations. 8. Make prompt review and revision, if necessary, which shall be not later than ten (10) working days from receipt of the work produced. 9. Pay the contractor upon presentation of requisite documents, the amount due him upon receipt of claims supported with documents subject to acceptance by the NCMH. <p>Within the Project duration the winning Contractor/Supplier shall:</p> <ol style="list-style-type: none"> 1. Perform services professionally based on industry standards and always protect the interest of the government in general and NCMH. 2. Provide a list of certified engineers/technical support team with addresses and contact numbers, involved, and other activities related to the project. 3. Secure the NCMH permits, licenses, and approvals that are or may be necessary to perform services. 4. Provide a chief officer or program manager (licensed ECE, COE or EE) who will be directly in charge of managing the project, and day-to-day contact personnel in charge of operations. 5. Complete the delivery, installation, and configuration within sixty (60) calendar days from the receipt of the Notice to Proceed. Otherwise, the winning Service Provider/Bidder shall pay the corresponding penalties/liquidated damages in the amount of one-tenth of one percent (1/10 of 1%) of the total contract price for every calendar day of delay. 				
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<ol style="list-style-type: none">6. Submit a proposed working schedule for approval of NCMH and secure a security pass and working permit on their site.7. Ensure that all personnel involved in the project must be in proper uniform because it will be their identification from the rest of NCMH's employees and visitors.8. Protect the privacy of NCMH and ensure that all confidential information and data on its ICT infrastructure are kept confidential.				
<p>IV. QUALIFICATION OF THE SUPPLIER</p> <ol style="list-style-type: none">1. Bidder must attach to his/her proposal an assurance from his/her principal that the items called for will be supplied in full and on time.2. Extensive knowledge, background, and technical experience in a great number of projects covering Network installation, configuration cabling, set-up of PABX, IP Telephony, VOIP, WLAN, VLAN Systems, and Maintenance.3. Extensive knowledge, background, and technical experience in the installation, configuration, interoperability, security, and industry standards on fiber and structured data cabling, wireless LAN, IP telephony, and other factors concerning cabling solutions.4. Should have been engaged for at least five (5) years in various ICT services such as IT project management, computer networking, voice and data communications infrastructure development, and ICT facilities operation and management.5. The bidder should have locally-based Manufacturer Certified Engineers who will do the installation, configuration, and after-sales support of all proposed equipment for cabling, WLAN, and Network Engineering.<ol style="list-style-type: none">i. Licensed Electronics and Communications Engineerii. Manufacturer Certified Associateiii. Manufacturer Certified Architect6. Must have a 24x7 helpdesk support system.7. All proposed items must be certified genuine and brand new. Bidder must be an authorized Philippine Distributor, Dealer or Value-Added Reseller of his/her proposed products and must provide local technical services on these.				
<p>VII. ADDITIONAL REQUIREMENTS TO BE SUBMITTED WITH TECHNICAL PROPOSAL</p> <ol style="list-style-type: none">1. Plan of Approach and Methodology2. Complete technology solution offered including detailed specification.3. Corporate Profile which should include major achievements, service Portfolio or services offered by the firm, experience or engagements both local and international.				



	<p>4. List of engineers. 5. Draft of Service Level Agreement</p> <p>V. WARRANTY PERIOD AND SERVICES</p> <p>1. Period: Three (3) years warranty is required on all delivered goods and shall take effect immediately after final acceptance of the project with NCMH.</p> <p>2. Product upgrades:</p> <p>i. Provision, supply, and installation of announced improvements on the proposed product and/or any of its components, after the date of submission of proposals and before the date of implementation in the project sites without additional costs to NCMH.</p> <p>ii. Provision or entitlement of all applicable upgrades including hardware firmware or software upgrades without additional cost to NCMH.</p> <p>3. Preventive and Remedial Services:</p> <p>i. Preventive maintenance services are done semi-annually on-site.</p>				
GRAND TOTAL					₱ 6,160,390.55

Submitted by:

WILLIAM WALLACE L. ARIAS
End-user, IHOMP Unit

Recommending Approval:

ALDEN C. CUYOS, MD, FPPA, IFAPA, MMHoA
Chairperson, BAC for Equipment

Approved by:

-SGD-

NOEL V. REYES, MD, FPPA, MMHoA
Medical Center Chief II