



# WORK ORDER

**DELIVERY DUE DATE:** 2/20/2022

Procurement Unit  
Tel No.: 045-606-8142/606-8157

Supplier : **IP SOLUTIONS, INC.**  
Address : **Unit 502 Solare Bldg., Capri Oasis, Pasig Dr. Sixto Antonio Ave., Maybunga, Pasig City**  
TIN: **008-924-552-000 VAT Reg.**  
Tel. No. : **(02) 514-4575/ 505-2946/ 643-8944**

Work Order No.: **2021-108**  
Date : **11/23/2021**  
JO No. : **2021-094**  
Date : **7/16/2021**  
Mode of Procurement: **Public Bidding**  
Mode of Payment: **N/30**

SIR/MADAM:

You are hereby advised to accomplish/deliver the following job/work within **Sixty (60)** Calendar days upon receipt of the Notice of Award as per quotation submitted by you duly approved by the TSU Committee on Bids and Awards and the President of the Agency

QTY.	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
1	lot	<p><b>SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND CONFIGURATION OF NEXT GENERATION FIREWALL APPLIANCE FOR TSU</b></p> <p><b>Scope of Work</b> - The project covers the acquisition and implementation of Supply, Delivery, Installation, Commissioning and Configuration of Next Generation Firewall (NGFW) for the university's network unit</p> <p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>-Product must have a 5-year license period and machine warranty</li> <li>-Offered product must be from the latest product line and must not reach end-of-life during its license validity and warranty period</li> <li>-Product aftersales support (via telephone or online) must include labor and on-site visits for five (5) years</li> <li>-Provide technical training for 5 persons via online or on-site. Certifications included</li> <li>-Product must be sold by an authorized partner/ reseller of the product being offered. Present certificate of partnership signed by the product's brand authorized personnel. This is to ensure the Authenticity of the product being offered and have access to official support of the brand</li> <li>-Conduct a controlled penetration test to benchmark the actual performance of the firewall against cyber threats prior acceptance of the project</li> </ul> <p><b>Product Specifications:</b></p> <p><b>-Next Generation Firewall (1 unit), Fortigate FG-601E, Interfaces and Modules:</b></p> <p>Hardware Accelerated 10 GE SFP+ Slots: 2, Hardware Accelerated GE RJ45 Interfaces: 8, Hardware Accelerated GE SFP Slots: 8, GE RJ45 Management Ports: 2, USB Ports: 2, RJ45 Console Port: 1, Onboard Storage: 2x 240GB SSD, Included Transceivers: 2x SFP (SX 1 GE), System</p>	2,999,112.00	<u>2,999,112.00</u>

COMMISSION ON AUDIT - TSU  
**RECEIVED**  
By: [Signature] Date: 15 DEC 2021

(Please read carefully at the back hereof)

Charge to: 05  
ROA No.: 2021-12-0036  
CONFORME & RECEIVE COPY:

[Signature]  
**IP SOLUTIONS, INC.**  
Firm/Dealer/Supplier/Contractor  
Date: **Dec 14 2021**  
Bank Account Name: \_\_\_\_\_  
Bank Account Number: \_\_\_\_\_  
Bank Name: \_\_\_\_\_  
Bank Address: \_\_\_\_\_

**FUNDS AVAILABLE:**  
[Signature]  
**RYAN R. RONQUILLO**  
OIC, Budget Office  
**APPROVED:**  
[Signature]  
**DR. ARMEE N. ROSEL**  
VP, Research & Extension Services  
Authorized Official



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		Performance — Enterprise Traffic Mix: IPS Throughput: 10Gbps, NGFW Throughput: 9.5Gbps, Threat Protection Throughput: 7Gbps, System Performance and Capacity: IPv4 Firewall Throughput (1518/512/64byte, UDP): 36/36/27Gbps, IPv6 Firewall Throughput (1518/512/64byte, UDP): 36/36/27Gbps, Firewall Latency (64byte, UDP): 1.54µs, Firewall Throughput (Packet per Second): 40.5Mpps, Concurrent Sessions (TCP): 8 Million, New Sessions/Second (TCP): 450,000, Firewall Policies: 10,000, IPsec VPN Throughput (512byte): 20Gbps, Gateway-to-Gateway IPsec VPN Tunnels: 2,000, Client-to-Gateway IPsec VPN Tunnels: 50,000, SSL-VPN Throughput: 7Gbps, Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode): 10,000, SSL Inspection Throughput (IPS, avg. HTTPS): 8Gbps, SSL Inspection CPS (IPS, avg. HTTPS): 5,500, SSL Inspection Concurrent Session (IPS, avg. HTTPS): 800,000, Application Control Throughput (HTTP 64K): 15Gbps, CAPWAP Throughput (HTTP 64K): 18Gbps, Virtual Domains (Default / Maximum): 10/10, Maximum Number of FortiSwitches Supported: 96, Maximum Number of FortiAPs (Total/Tunnel): 1,024/512, Maximum Number of FortiTokens: 5,000, High Availability Configurations: Active-Active, Active-Passive, Clustering, Dimensions and Power: HxWxL (inches): 1.75x17.0x15.0 (mm): 44.45x432x380, Weight: 16.6lbs (7.5kg), Form Factor: Rack Mount, 1 RU, Power Source: 100-240V, 50/60Hz, Power Consumption (Average/Maximum): 129W/244W, Current (Maximum) 6A@100V, Heat Dissipation: 832BTU/h, Redundant Power Supplies (Hot Swappable): Optional, Operating Environment and Certifications: Operating Temperature: 32-104°F (0-40°C), Storage Temperature: -31-158°F (-35-70°C), Humidity: 10-90% non-condensing, Noise Level: 59 dBA, Forced Airflow: Side		

COMMISSION ON AUDIT, TSU  
RECEIVED  
By: *AS* Date: *15 DEC 2021* Time: *11:50*

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Charge to: *05*  
ROA No.: *2021-12-0030*  
CONFORME & RECEIVE COPY :

**IP SOLUTIONS, INC.**

Firm/Dealer/Supplier/Contractor

Date: *Dec 14 2021*  
Bank Account Name: \_\_\_\_\_  
Bank Account Number: \_\_\_\_\_  
Bank Name: \_\_\_\_\_  
Bank Address: \_\_\_\_\_

**FUNDS AVAILABLE:**

*[Signature]*  
RYAN R. ROMQUILLO  
OIC, Budget Office

**APPROVED:**

*[Signature]*  
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VP, Research & Extension Services  
Authorized Official *[Signature]*



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		and Front to Back, Operating Altitude: Up to 9,843ft (3,000m), Compliance: FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB, Certifications: ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN, USGv6/IPv6 <b>-10 GE SFP+ 3Km Transceiver module, Fortinet,</b> Compatible with hardware accelerated 10 GE SFP+ slots  *****		

COMMISSION ON AUDIT - TSU  
**RECEIVED**  
By: AKJ Date: 11/25 Time: DEC 2021

(Please read carefully at the back hereof)

Charge to: 05  
ROA No.: 200441-2021-12-0036  
CONFORME & RECEIVE COPY:

[Signature]  
**IP SOLUTIONS, INC.**  
Firm/Dealer/Supplier/Contractor

Date: Dec 14 2021  
Bank Account Name: \_\_\_\_\_  
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