



REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL RESEARCH
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TERMS OF REFERENCE (TOR)

ICT EQUIPMENT - FIREWALL DEVICE

ABC: PhP1,800,000.00

A. RATIONALE

As the bureau continuously embraces technological innovation to improve the delivery of services, Bureau of Agricultural Research (BAR) maximizes the use of information and communication technology (ICT).

The Knowledge Management and Information Systems Division-Information Management Section of BAR is in charge of providing continuing assistance on information and communication technology (ICT) and its application to R4D management among BAR and NaRDSAF institutions.

Hence, consolidating the procurement of office productivity software subscriptions ensures that staff can continually produce outputs necessary for the continuous delivery of the services of the bureau.

A. SCOPE OF WORK

1. The Supplier shall Supply, Deliver, Install and Configure the Firewall Appliance.
2. To include technical support-service and warranty **equivalent to the number of months of subscription;**
3. The proposed item shall be delivered at the **Bureau of Agricultural Research, RDMIC Building, Elliptical corner Visayas Avenue, Diliman, Quezon City (if applicable);**
4. Delivery Period: **Forty five (45) Calendar Days;**
5. Payment: **Full-payment inclusive of tax** after issuance of certificate of final acceptance;
6. Awarding shall be done by **LOT**

B. TECHNICAL DESCRIPTION


ITEM	DESCRIPTION	QTY	UNIT COST	TOTAL
1	Firewall Device	1	1,800,000	1,800,000
LOT	SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF 1 UNIT FIREWALL APPLIANCE Minimum Technical Specifications or Equivalent: Interfaces and Modules <ul style="list-style-type: none"> - The proposed firewall must have minimum of 14 x hardware accelerated GE RJ45 - The proposed firewall must have 8 x hardware accelerated GE SFP slots - The proposed firewall must have 4 x hardware accelerated 10GE SFP+ slots - The proposed firewall must have 4 x hardware accelerated 10GE SFP+ ultra low latency slots - The proposed firewall must have 2 x GE management port - The proposed firewall must have 1 x USB port 			

ITEM	DESCRIPTION	QTY	UNIT COST	TOTAL
	<ul style="list-style-type: none"> - The proposed firewall must have 1 x RJ45 console port - Proposed firewall must have Trusted platform module included - The proposed firewall must have 2x SFP transceiver module included - Must include 2x SFP+ transceiver - Must Include Network Processor 7 and Content Processor 9 hardware acceleration included - Must Include 1-year unified threat protection license included: IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service, and Premium Hardware and Software Support <p>System Performance</p> <ul style="list-style-type: none"> - IPS Throughput: 12 Gbps - NGFW Throughput: 10Gbps - Threat Protection Throughput: 9Gbps - Firewall throughput: 79.5 / 78.5 / 70Gbps - Firewall latency: 4.19 μs / 2.5 μs* - Firewall throughput (Packet per Second): 105 Mpps - Concurrent Sessions (TCP): 7.8 Million - New Sessions/Second (TCP): 500,000 - Firewall policies: 10,000 - IPsec VPN throughput: 55Gbps - Gateway-to-Gateway IPsec VPN tunnels: 2,000 - Client-to-Gateway IPsec VPN tunnels: 50,000 - SSL-VPN throughput : 3.6Gbps - SSL inspection throughput: 8Gbps - SSL inspection CPS: 6,000 - SSL inspection concurrent session: 800,000 - Application control throughput: 28Gbps - CAPWAP throughput (HTTP 64K): 65Gbps - High Availability configurations: Active-Active, Active-Passive, Clustering <p>Dimensions and Power</p> <ul style="list-style-type: none"> - Form factor: Rack mount, 1RU - Power Supply: 100-240VAC, 50/60 Hz - Power Consumption: 154.8 W / 189.2 W - Power supply efficiency rating: 80Plus Compliant - Redundant hot swappable AC power supplies included, comes with 2 power supplies by default <p>Operating Environment and Certifications</p> <ul style="list-style-type: none"> - Operating temperature: 32°-104°F (0°-40°C) - Storage temperature -31°-158°F (-35°-70°C) - Humidity: 5%-90% non-condensing - Airflow: Side and Front to Back - Operating altitude: up to 10,000 ft (3,048 m) - Compliance: FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB - Certifications: USGv6/IPv6 			

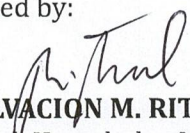
C. ADDITIONAL TECHNICAL DOCUMENTS

1. The supplier shall provide in-house training relative to the Firewall Administration.
2. The training logistics shall be composed but not limited to the following:
 - i. Training Manuals (user manual, administration manual, training handouts)
 - ii. Certificate of Completion
3. Warranty for parts, labor and service must be 1 year upon delivery and acceptance of items.
4. Certification that the bidder must have at least one (1) local technical support engineer NSE 4 certified or equivalent.
 - i. The technical support engineers shall be local and regular employees and have been working under the bidder's organization at least (2) years prior to the submission of the proposal.
 - ii. Shall submit valid certification documents, CV, and Company ID of the certified engineer.
5. Certification from the manufacturer that the supplier is an authorized reseller or partner of the equipment being offered.
6. Certificate of Acceptance and completion from at least two (2) clients within the last three (3) years.
7. ISO 9001:2015 Certification that covers scope of the Quality Management System which includes the design, development and manufacturing of network security products and the delivery of associated security services and support.
8. The bidder must provide Duly Notarized Certificate that they will provide four (4) hours response time for technical support
9. The firewall should be in the leader in Gartner Magic Quadrant not later than 2022

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