



Republic of the Philippines
NATIONAL POLICE COMMISSION
PHILIPPINE NATIONAL POLICE
INFORMATION TECHNOLOGY MANAGEMENT SERVICE
Camp BGen Rafael T. Crame, Quezon City



TERMS OF REFERENCE

Procurement of ICT Equipment for PRBS

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I. PROJECT OVERVIEW

The name of this project is *Supply, Delivery and Implementation of Philippine National Police Retirement and Benefits Administration Service 1-Lot of Enterprise Server and its enclosures and peripherals.*

II. PROJECT OBJECTIVE

The project aims to procure enterprise server and its enclosure and peripherals as part of the enhancement IT capabilities of Philippine National Police Retirement and Benefits Administration Service (PRBS) in the delivery of services to the retirees and their beneficiaries.

III. TECHNICAL REQUIREMENTS

A. General Requirements

The Project requires for the procurement of the following:

Quantity	ITEM
1 Lot	Enterprise Server
2 units	8 TB HDD
2 units	42U Cabinet Rack
2 units	Rack Mountable UPS

B. Detailed Technical Requirements (Minimum)

QTY	ITEM	SPECIFICATION
1	Enterprise Server	
	Category	Branded and Brand New
	Processor	10 Core Processor or Better, 2.4 GHz
	Type	Rack Mount
	Memory	32-GB, 25MB L3 Cache DDR4 or better
	Controller	Embedded 1 GB 4-port Network Adapter
		Smart HBA controller
		RAID 0/1/5/10/6 SAS
	Drive Bays	8 x 3.5" Hot-swap SAS HDD trays (ready for PCI-E storage controller card)
	Hard Disk	4 x 300GB SAS HDD (3.5 inch) Hot swappable/hot plug functionality

	PCI Express Slots	3 PCIe slots (+3 PCI slots available with upgrade option, second processor required)
	Additional NIC/LAN card	4 x RJ45 PCIE Quad 10/100/1000Mbps Gigabit Ethernet Server NICS
	Other	High Quality Special Server Guide Rail
	Optical Drive	Must have Optical Drive

	Software	<ul style="list-style-type: none"> • Latest Licensed Operating System (Compatible with the Existing) • Antivirus for server – 1-year subscription • Latest software on Relational Database Management System (RDBMS) (Compatible with the existing system)
	Features	SNMP or better
	Power Supply and Fans	<ul style="list-style-type: none"> • 2 x 500watts Power Supply Kit; (hot-swappable) • 4 hot plug fans, redundant
	USB Port	USB 3.0 Rear and Front
	Warranty and Bundle	<ul style="list-style-type: none"> • Server Warranty includes 3-year parts; 3- year labor; 3-year onsite support with next business day response; • 3 year 24x7 Support Physical 1 Server License; • With a 3 year 24x7 Server Support Service.

2	Hard Disk Drive	
	Category	Branded and brand new
	Hard drive Type	SAS
	Form Factor	3.5"
	Storage Capacity	8 TB
	Speed	7200 rpm - 15000 rpm
	Reliability	1.2M - 1.6M hours at 45°C , Can be use 24/7

2	Data Cabinet	
	Category	Branded and brand new
	Rack Size; Height	EIA Standard 19" Rack Rails; 42U; closed-type
	Color	Black or dark color
	Integrated Features	8 Ports Integrated keyboard video monitor and mouse (KVM) switch Integrated rack mount 17" (or higher) flat panel (LCD) monitor console kit or better

		Rack accessories
	Surge Protector	1U PDU 8 Outlet Metal Power Strip Surge Protector 250V 10A 2500W with Long Extension Cord or better (2 units)
	Others	24-port patch panel (3 units) Cable manager (3 units)

2	UPS	
	Category	Branded and brand new
	Output Power	3-kVA/2400W
	Input Voltage	110V-240V
	Output Voltage	220V AC
	Typical Recharge	3 hours or better
	Typical Backup at Full Load	Battery power backup time should be at least 3 minutes or better
	Interface Ports	DB9, RS-232, USB or better
	Form Factor	Rack-mount

C. Installation

The supplier shall provide the necessary installation, setup and configuration services of all deliverables, to include but not limited to hardware, software, network, and electrical.

D. Training - Training for at least five (5) personnel on the following:

- a. Operating System Management Training; and
- b. Configuration and troubleshooting of hardware.

E. TECHNICAL SUPPORT AND WARRANTY

Quality assurance is expected from the SUPPLIER, such that any error or fault in any hardware, peripherals, pre-installed mandatory software and installation tools delivered during the implementation shall be acted upon, resolved, mitigated and/or replaced accordingly at no cost to the organization. Likewise, upon final project acceptance, the SUPPLIER is required to after sales service and assurance that all equipment and installation are accurate, complete, operable, uncompromised, and error-free during warranty period.

All IT Equipment must be covered with warranty of at least three (3) years on parts and services.

In addition, the following are required from the SUPPLIER:

- 1. Remote and on-site support. The bidder should have its own Technical Support team, based in the Philippines to perform the

technical support duties for the procuring entity covering all functions of the embedded archiving system.

2. At least 4 hours response time and a resolution time within 12 hours pertaining to any technical issues.

IV. PROJECT DURATION

The project's duration shall not be more than the specified number of days in the Schedule of Activities. The Supplier is expected to follow the scheduled delivery **strictly**. Extending the period of delivery (45 days from Notice to Proceed) of the machines will subject the Supplier to liquidated damages as stipulated in RA No. 9184.

V. APPROVED BUDGET

The Philippine National Police (PNP)' Approved Budget for the Contract (ABC) for the Supply, Delivery and Implementation of Philippine National Police Retirement and Benefits Administration Service (PRBS) Enterprise Server with enclosures and its peripherals is Eight Hundred Thirty-Five Thousand Four Hundred Nineteen Pesos and Twenty Centavos (Php 835,419.20).

VII. POST-QUALIFICATION

The Post-qualification of the items to be delivered will be based on the submitted brochures.

VIII. TESTING AND EVALUATION

The visual test, conformity with the specifications, and functional test shall be conducted in accordance with PNP Memorandum Circular No. 2016-079 "Guidelines in the Conducts of Test for PNP Various Equipment/Devices" and the Bidding Documents and Terms of Reference.

IX. REFERENCES

ITEM	REQUIREMENT
Enterprise Server	NAPOLCOM RESOLUTION NO. 2016-648 <i>Approving the PNP-UESB Resolution No. 2016-094 dated July 21, 2016 on the Minimum Standard Specifications for the Enterprise Server</i>
Hard Disk Drive	NAPOLCOM RESOLUTION NO. 2012-314 <i>Approving the Minimum Standards in the Specifications for Network Attached Storage (NAS)</i>

Data Cabinet	NAPOLCOM RESOLUTION NO. 2009-709 <i>Prescribing the Standard Specifications for the PNP Data Warehouse</i>
UPS	NAPOLCOM RESOLUTION NO. 2009-653 <i>Approving the Proposed Standard Specifications for Uninterruptible Power Supply (UPS)</i>