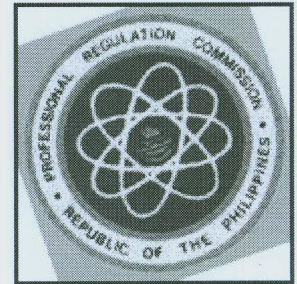




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## Section VII. Technical Specifications

### Lot 1: Procurement of Single Core Switch (ITB No. 018-017)

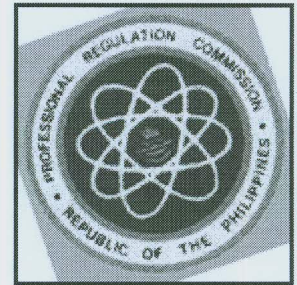
Items	Description		Quantity
LOT 1	1. SINGLE CORE SWITCH		1
	1.1. 32 Port 10G IP Base, Front-to-Back, No P/S		
	1.2. Switching Capacity	800 Gbps	
	1.3. Supported Throughput	Up to 250Mpps for IPv4	
		Up to 125Mpps for IPv6	
	1.4. Standard Memory	4Gb	
	1.5. Flash Memory	2 Gb	
	1.6. Management Port		
	1.7. Network Technology	10/100/1000Base-T	
	1.8. Redundant Power Supply		
	1.9. Uplink Port		
	1.10.Total VLANs min.	4,000	
	1.11. Total SVIs	4,000	
	1.12. 32 Port 10G IP Base, FRO		1
	1.13. 750W AC front to back cooling 2 <sup>nd</sup> PWR supply		1
	1.14. 750W AC front to back cooling PWR supply		1
	1.15. Network Module Blank		1
	1.16. NEMA 5-15 to IEC-C 8ft US		2
	1.17. Universal Crypto Image		1
	1.18. 1000BASE-SX SFP Transceiver module, MMF, 850nm, DOM		8
	1.19. 1000BASE-SX SFP Transceiver module for Cat5		3
	2. CORE SWITCH PHYSICAL SPECIFICATION:		
	2.1. Must have at least thirty-two (32) non-blocking 1/10G SFP port		
	2.2. Must have Hot Swappable Redundant AC Power Supply		
	2.3. Each chassis must include SFP Transceiver modules required for the network setup		
	2.4. Must include three units of 1000BASE-T SFP transceiver modules for connection to Firewall		
	2.5. Must include eight units of 1000BASE-SX transceiver modules for connection to Distribution Switches		
	3. PERFROMACE AND SCALABILITY		
	Must at least have the following:		
	3.1. 800 Gbps switching capacity		
	3.2. Can support up to 250 Mpps of throughput for IPv4 and 125Mpps for IPv6		
	3.3. Must be capable of Virus Switching System (VSS) or equivalent		





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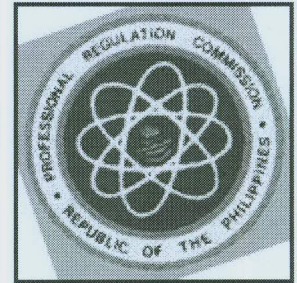
3.4. 4 GB of SDRAM	
3.5. 2GB NVRAM	
3.6. Total VLANs min. 4,000	
3.7. Total switching virtual interfaces (SVIs) 4,000	
3.8. Jumbo frame min. 9198 bytes	
<b>4. FEATURES</b>	
4.1. Port aggregation technology, where ports should not be contiguous or on the same module when configuring LACP (IEEE 802.3ad LACP or any other)	
4.2. Port Security and DHCP Snooping	
4.3. Traffic storm control	
4.4. IEEE 802.1Q VLAN Trunking	
4.5. Platform must have the ability to apply QoS configuration on a Per Port or Per Vlan or Per Port, Per Vlan Granularity	
4.6. Management and Troubleshooting Requirements	
- Switched Port Analyzer (SPAN) and Remote Switched Port Analyzer (RSPAN) that support for source ports and destination ports that are distributed across multiple switches, allowing remote monitoring of multiple switched across your network	
- Integrated Security Features include Port Security	
4.7. Dual stack support for IPv4/IPv6 and Dynamic hardware forwarding-table allocations for ease of IPv4-toIPv6 migration	
4.8. In-Service Software Upgrade (ISSU) support	
4.9. Ethernet: IEEE 802.3	
4.10. 10 Gigabit Ethernet: IEEE 802.3ae	
4.11. IEEE 802.1D Spanning Tree Protocol	
4.12. IEEE 802.1w Rapid Reconfiguration of Spanning Tree	
4.13. IEEE 802.1s Multiple VLAN Instances of Spanning Tree	
4.14. IEEE 802.3ad LACP	
4.15. IEEE 802.1p CoS Prioritization	
4.16. IEEE 802.1Q VLAN	
4.17. IEEE 802.1X User Authentication	
4.18. IEEE 802.1x-Rev	
4.19. RMON I and II standards	
4.20. USGv6 IPv6 Gold Logo Certified	
4.21. Support for IPv4 and IPv6 routing	
4.22. Must have IP unicast routing protocols (Static, Routing Information Protocol Version 1 [RIPv1], and RIPv2, RIPv6)	
4.23. Must support dynamic routing protocol and advance Layer 3 features such as EIGRP Stub Routing, OSPF, BGP, PIM, and IPv6 routing such as OSPFv3.	





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### Lot 2: Procurement of Uninterruptible Power Supply (UPS) (ITB No. 018-018)

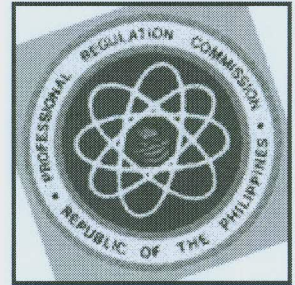
Items	Description	Quantity
LOT 2	<b>1. UNINTERRUPTIBLE POWER SUPPLY (UPS)</b>	<b>600</b>
	650VA/325 Watts Back-UPS	
	1.1. Output	
	650VA/325W	
	1.2. Output Voltage / frequency (On Utility)	
	230V/45-62Hz	
	1.3. Output Voltage / Frequency (On Battery)	
	230V+/- 10%, 50 or 60Hz +/- 1Hz (auto sensing)	
	1.4. Output connections	
	Minimum of 2 Universal Outlets (with battery back-up and surge protection)	
	1.5. Waveform Type	
	Stepped Approximation to Sine Wave	
	1.6. Input Voltage / Frequency	
	170 – 280V / 50/60Hz +/-1Hz (default : 50Hz)	
	1.7. Input Connection	
	NEMA 5-15P	
	1.8. AC Power Surge Protection	
	ALL Outlets	
	1.9. Unit Dimension (H x W x D)	
	142 x 101 x 300 mm	
	1.10. Unit Weight	
	4.4 Kg	
	1.11. Battery Type	
	Maintenance-free, sealed lead-acid battery, leak proof	
	1.12. Battery Size	
	12V, 7Ah	
	1.13. Alarms	
	Visual (LED) and audible alarms	
	1.14. Adjustable Sensitivity and Transfer Voltage	
	Low Medium (default), High Low, Medium (default), High	
	1.15. Warranty	
	1 Year	

1. Compliance with the statements 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.
2. 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.



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3. A statement either in the Bidders 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 provisions of **ITB** Clause 3.1 (a) (ii) and/or **GCC** Clause 2.1 (a) (ii).

### ACKNOWLEDGEMENT AND COMPLIANCE WITH THE OF TERMS OF REFERENCE FOR THE PROCUREMENT OF VARIOUS IT EQUIPMENT (INSERT LOT NUMBER & TITLE)

SIGNATURE OVER PRINTED NAME  
OF AUTHORIZED REPRESENTATIVE,  
DESIGNATION AND PRINTED NAME OF COMPANY