



SUPPLEMENTAL/BID BULLETIN NO. 2

Supply, Delivery, Installation and Commissioning for the Structured Cabling system

ITB No. EMB-GOODS-NCB-2018-0005

This clarification No. 5707291-2 is issued to clarify/amend item/s in the issued notice posted in PhilGEPS with reference No. 5707291. This Bid Bulletin shall form an integral part of the bid documents

Name of Project : **Supply, Delivery, Installation and Commissioning for the Structured Cabling system**

Date : October 29, 2018

Announcing the amendments/correction on the issued bidding documents:

Old Schedule	New Schedule
Deadline for Submission of Bids: November 05, 2018, 12:00 noon	Deadline for Submission of Bids at Record Section, AFMD Office, HRD Building DENR Compound on: November 08, 2018, 12:00 noon
Opening of Bids: November 05, 2018, 1:00 p.m.	Opening of Bids: November 08, 2018, 1:00 p.m.
Old Technical Specification	New Technical Specification
<p>Submittals for Qualification:</p> <ol style="list-style-type: none"> 1. Test Report on Worst Case Channel Performance Testing of the Cabling System as defined in the requirements of TIE/EIA 568-B.2-1 for Category 6 Cabling System. Typical or average value is not acceptable. 2. Letter from Cabling System Manufacturer that it manufactures end-to-end structured cabling system copper and fiber optic cables their associated connecting hardware. 3. Letter of Warranty from Cabling Systems Manufacturer stating that the cabling installation of the Contractor Both in CAT6 and Fiber Optics shall be a minimum of 25 years Systems Warranty covers products, cables and application guarantee. 4. Certificate of after -sales Service and Support Certification in the letterhead of the Cabling System Manufacturer 5. Letter of Guarantee from Cabling Systems Manufacturer stating the guarantee of parts, 	<p>Submittals for Qualification:</p> <ol style="list-style-type: none"> 1. Test Report on Worst Case Channel Performance Testing of the Cabling System as defined in the requirements of TIE/EIA 568-B.2-1 for Category 6 Cabling System. Typical or average value is not acceptable.(After Project Completion). 12. Installation Floor Plan Drawing printed in bond paper(signed and sealed).(After Project Completion). 1Yr. Warranty on all devices and Workmanship Administrator training on VLAN,HP manage Switch and Performance Monitoring Solution.(Lab. Type training for 2 technical staff) (see attachment for list of materials-technical specifications and floor plans)

<p>installation, Channel Performance, Application Support and Quality of Service.</p> <p>6. Warranty Statement that provides a clear definition of the Contractor's liability for labor, parts, cables and components.</p> <p>7. Letter of Warranty from Manufacturer for all supplied Network Switches.</p> <p>8. Certified Engineer who is currently employed in the Contractor's company trained and Must submit certificate.</p> <p>9. Letter from Manufacturer stating that the bidder is an authorized reseller or distributor of all supplied Network switches</p> <p>10. Systems Integrator must be at least 10 years in the IT industry. Must submit supporting documents</p> <p>11. Implementation Plan Gantt Chart for the whole Unified System Network Upgrade Project</p> <p>12. Installation Floor Plan Drawing printed in bond paper(signed and sealed).</p> <p>1Yr. Warranty on all devices and Worksmanship Administrators training on VLAN and Performance Monitoring Solution. (see attachment for list of materials-technical specifications and floor plans)</p>	
<p>Performance Network Monitoring Solutions:</p> <p>Network performance monitor, Netflow traffic analyzer, remote support, help desk</p>	<p>Performance Network Monitoring Solutions:</p> <p>Network performance monitor (NPM – SL 100 elements) Netflow traffic analyzer (NTA – SL 100 elements), remote support, help desk (1 to 5 Users)</p>

For guidance and information of all concerned.

(Sgd.) MS. CONSOLACION P. CRISOSTOMO
BAC Vice-Chairperson

Received by the Bidder:

Date: _____

LIST OF MATERIALS/EQUIPMENT:

UTP Cable CAT6 ,
Patch panel 24 port CAT6 loaded,
Information outlet CAT6,
2 mtrs. patch cord CAT6
3 mtrs. patch cord CAT6,
Long patch cord for end devices,
Faceplate quadruplex/duplex
Horizontal wire manager 1U,
Data cabinet 4 ft. w/ complete accessories(1pc.),
Data Cabinet: network rack 800mm x 7ft w/ complete accessories(2pcs.)
Fiber optic cable 6 core multimode OM4,
Fiber patch panel with SC coupler,
Fiber SC connector to pigtail
Fiber patch cord SC-LC multimode,
Fiber fusion termination,
Fiber consumables
UPS - 11 RT 3000VA Rack Mounted with 2 yrs. Warranty (3 pcs.),
Labor and Engineering(1lot)
Core Switch 12p PoE+/12p 1GbE SFP v3:

Technical Specifications:

12 twisted-pair,ports of 10/100/1000BASE-T,with support for HPE 12p PoE+/12p 1GbE SFP v3 z12 Mod IEEE 802.3at PoE+ and 12 SFP ports for Gigabit and Fast Ethernet connectivity using HPE SFP

transceivers.SFP ports do not support Power over Ethernet. auto-enabled ports—the ports are all configured,to be ready for network operation as soon as a viable network cable is connected ? auto-configuration—a default configuration is applied to the module when the switch is powered on and the module passes self test; this default configuration works well for most network installations ? LEDs that provide information for each port on the link status, network activity , connection bandwidth (speed),communication mode (half or full duplex) ?“hot swap modules” operation—you can add a module or replace a module without having to shut down the switch “hot swap SFPs” operation—you can add, replace,or change the type of any of the SFP, SFP+ and QSFP+ optical transceivers and cable assemblies without having to first remove the module, and without having to shut down the switch ? the RJ-45 ports on all modules have the HPE Auto-MDIX and the IEEE 802.3ab Auto MDI/MDI-X feature. These features operate the same way and allow you to use either straight-through or crossover twisted-pair cables for all the twisted-pair network connections.

Power Supply(for Core Switch)- 700W PoE+ z12 PSU(x2 for redundancy.)

Access Switch 24G 4SFP+ Switch(7pcs.):

Technical Specifications:

Ports:(24) RJ-45 autosensing 10/100/1000 ports (4) fixed Gigabit Ethernet SFP ports

Memory and processor:

ARM9E @ 800 MHz 128 MB flash, Packet buffer size: 1.5 MB dynamically allocated
256 MB DDR3 DIMM,Latency: 100 Mb Latency: < 7.4 μs 1000 Mb Latency: < 2.3 μs
Throughput: up to 41.6 Mpps Switching capacity:56 Gbps,Stacking capabilities: Virtual/16 switches,
Ethernet Interface MIB AirWave Network Management
Input voltage 100 - 127 / 200 - 240 VAC, rated
Power consumption 48 W (maximum)
Heat dissipation 164 BTU/hr (173.02 kJ/hr)

Deployment and on-site Support 8x5

Network Performance Monitoring Solutions:

Network performance monitor,Netflow traffic analyzer, remote support, help desk

Technical Specifications:

Performance Monitoring

1. Core Monitoring Capabilities- Monitoring solution should be able to monitor:
 - (a) routers (b)switches (c) firewalls (d) wireless devices (e)servers (f) other SNMP-enabled devices
2. Network Discovery,3.Graphical User Interface and Customization
4. Advanced Reporting 5. Advanced Alerting 6. Grouping 7. Network Maps 8. Multi-vendor Support
9. Extensibility 10. Application Aware Network Performance Monitoring 11.Additional Components

12.Integration 13.Enterprise Scalability 14.High Availability 15.Deployment 16.Frequency of Updates
17.Product Support Should provide 24x7 support

Bandwidth Monitoring:

1.Core Monitoring Capabilities

The proposed monitoring solution should be able to monitor network traffic by capturing flow data from network devices, including Cisco NetFlow v5 or v9, Juniper J-Flow, IPFIX, sFlow, NetStream data and also sampled NetFlow data

Should identify which users, applications, and protocols are consuming the most bandwidth

Should highlight the IP addresses of the top bandwidth consumers on the network and find out unwanted bandwidth usage

Should be able to associate traffic coming from different sources to application names

Should be able to receive flows from non-SNMP-enabled devices, like VMware vSwitch

2.Network Discovery 3.Graphical User Interface and Customization 4.Advanced Reporting

5.Advanced Alerting 6. Grouping 7. Multi-vendor Support 8. Extensibility

9.Additional Features 10.Integration 11. Enterprise Scalability 12.High Availability

13.Deployment 14. Frequency of Updates 15.Product Support Should provide 24x7 support

Help Desk

1.Core Helpdesk Capabilities

The proposed helpdesk solution should provide easy to use ticketing system that automates the creating, tracking and closing of tickets as well as tracking data over time

Should have a highly configurable workflow engine to ensure change management policies and procedures are adhered to

Should provide hardware and software asset management for licensing, warranties, maintenance and more

Should have flexible and schedulable reporting

Should be able to automate links to related knowledgebase articles or self help tools for specific issues or requests

Should have options for actions to be performed before and after package deployment to ensure that complicated patches get deployed without scripting

Should have Dashboard view of data, with drill down capabilities

Should have Web based console providing easy access to the application and critical data from any internet ready location

Should have interface to manage approval requests

2.Graphical User Interface 3.Service Request fulfillment

4.Integration 5.Ease of Deployment

6.Account Management 7.Scalability 8.Discovery and Inventory assests

9.Dashboard and Reporting 10.Service Level Agreement Management

11. Frequency of Updates 12. Product Support Should provide 24x7 support

Remote Support

1.Core Features –

Should provide the ability to do remote administration to all Windows systems for servers and workstations

Provide remote management for Windows process and service

Provide remote management for Windows Events

Provide remote management for Windows shares

Provide remote domain or local user management

Ability to do remote Power down, Restart and Log off

Ability to send broadcast message to all Windows computers

Provide basic TCP utilities

Provide Remote Control ability via different protocol (RDP, VNC or proprietary connection).

3. Other advanced features Provide Terminal Service management Ability to send Wake-ON-LAN request

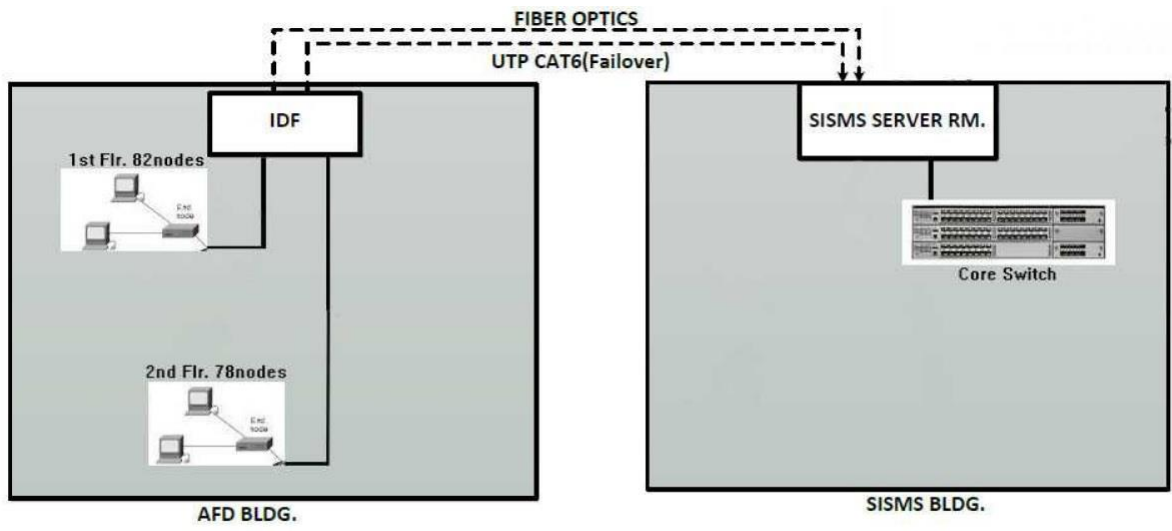
Ability to send remote command 4. Scalability-Should be able support a large number of client users

5. Integration-Able to integrate with a helpdesk tool for providing direct access to client assets.

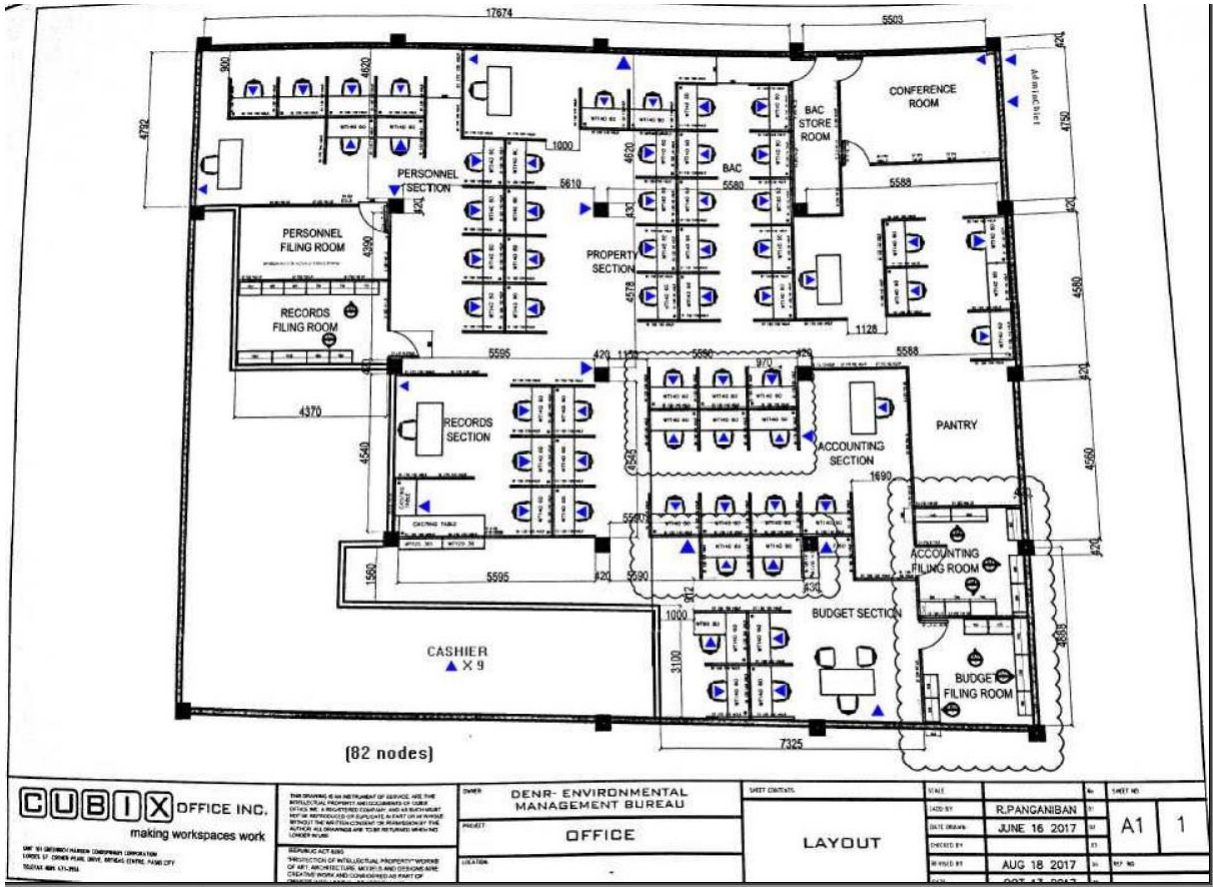
6. Frequency of Updates-New features to be added to product versions frequently, preferably twice every year or more

7. Product Support Should provide 24x7 support

Single Line Diagram and Floor Plan:



SINGLE LINE DIAGRAM



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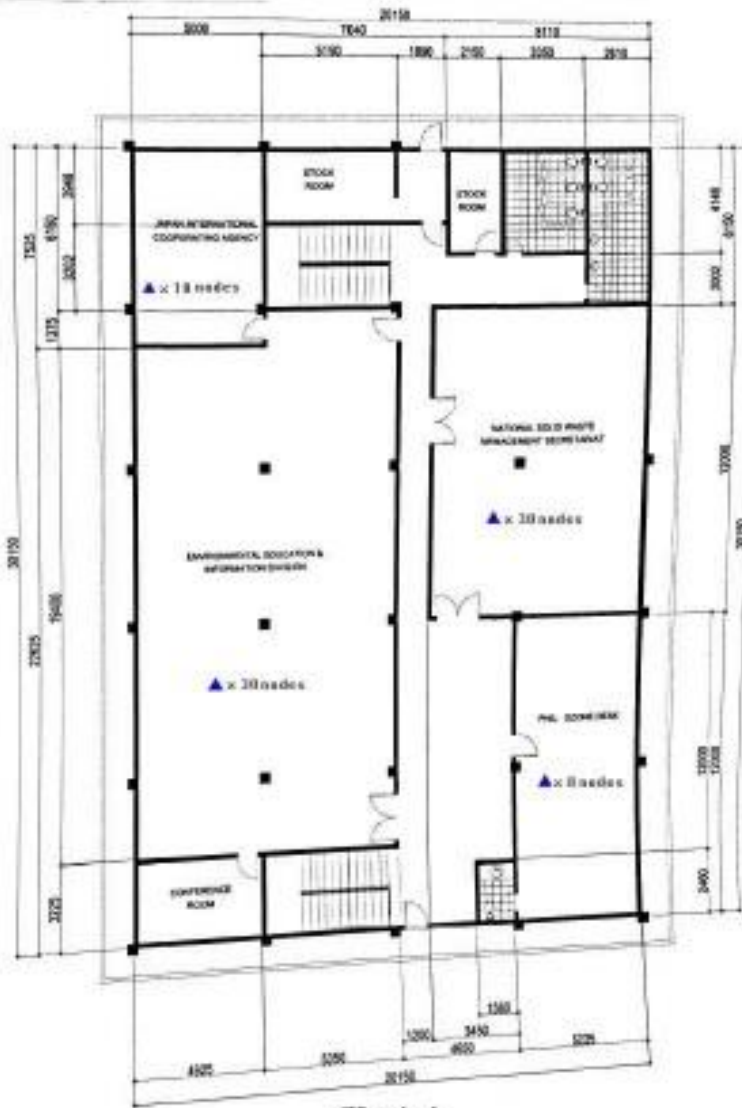
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OWNER	DENR- ENVIRONMENTAL MANAGEMENT BUREAU
PROJECT	OFFICE
LOCATION	

SHEET DESIGNATION	LAYOUT
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DATE	BY	NO.	SHEET NO.
	R.PANGANIBAN	1	1
SITE DESIGN	JUNE 16 2017	1	
CHECKED BY		1	
BY FILED BY	AUG 18 2017	1	

HRD BUILDING



(78 nodes)
SECOND FLOOR PLAN
 SCALE 1:150 MTS.

