



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF BUDGET AND MANAGEMENT
 GENERAL SOLANO STREET, SAN MIGUEL, MANILA

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated October 29, 2021 for **Project No. DBM-2022-07, “CISCO Equipment Refresh,”** is issued pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of the Bidding Documents.

PARTICULARS				AMENDMENTS			
Section VI. Schedule of Requirements				Section VI. Schedule of Requirements			
Item	Description	Quantity	Delivery Schedule	Item	Description	Quantity	Delivery Schedule
1	Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals , as detailed in item 4.0 of Annex “A” (Detailed Technical Specifications)	1 lot	Within 120 calendar days from receipt of the Notice to Proceed	1	Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals , as detailed in item 4.0 of Annex “A” (Detailed Technical Specifications)	1 lot	Within 120 180 calendar days from receipt of the Notice to Proceed
Section VII. Technical Specifications				Section VII. Technical Specifications			
Annex “A” (Detailed Technical Specifications)				Annex “A” (Detailed Technical Specifications)			
xxx				xxx			
3.0 Implementation Period				3.0 Implementation Period			
The delivery, installation, configuration, testing, and commissioning of CISCO equipment and peripherals shall be within one hundred twenty (120) calendar days from receipt of the Notice to Proceed (NTP).				The delivery, installation, configuration, testing, and commissioning of CISCO equipment and peripherals shall be within one hundred twenty (120) EIGHTY (180) calendar days from receipt of the Notice to Proceed (NTP).			
4.0 Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals				4.0 Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals			

PARTICULARS	AMENDMENTS
<p>a. xxx</p> <p>CISCO Equipment</p> <p>i. Four (4) units of the latest model of CISCO Distribution Switch with the following minimum specifications:</p> <p style="text-align: center;">xxx</p> <p>10. Five (5) units of Network Advantage Licenses</p> <p style="text-align: center;">xxx</p> <p>Peripherals</p> <p>i. Other required components/materials, such as but not limited to the following:</p> <p>9. Twenty (20) units of CISCO 1G SFP Transceiver for Routers</p> <p>10. Seventy-six (76) units of CISCO 10G SFP+ Transceiver for uplink distribution of Access Switches and Routers.</p> <p>11. Eight (8) units of CISCO 40G QSFP Long Range Fiber Transceiver for the connectivity of Core Switch and Distribution Switch.</p> <p>12. Thirty-four (34) units of 1000BASE-T SFP transceiver module for connectivity of ABR Router.</p> <p style="text-align: center;">xxx</p> <p>o. The contractor shall provide Technical Training that can be a classroom type or online training based on the following schedule:</p>	<p>a. xxx</p> <p>CISCO Equipment</p> <p>i. Four (4) units of the latest model of CISCO Distribution Switch with the following minimum specifications:</p> <p style="text-align: center;">xxx</p> <p>10. Five (5) FOUR (4) units of Network Advantage Licenses</p> <p style="text-align: center;">xxx</p> <p>Peripherals</p> <p>i. Other required components/materials, such as but not limited to the following:</p> <p>91. Twenty (20) units of CISCO 1G SFP MULTI-MODE Transceiver for Routers</p> <p>102. Seventy-six (76) units of CISCO 10G SFP+ MULTI-MODE Transceiver for uplink distribution of Access Switches and Routers.</p> <p>113. Eight (8) units of CISCO 40G QSFP Long Range Fiber SINGLE-MODE Transceiver for the connectivity of Core Switch and Distribution Switch.</p> <p>124. Thirty-four (34) units of 1000BASE-T SFP MULTI-MODE transceiver module for connectivity of ABR Router.</p> <p><i>(Note: The sequence of succeeding items shall be adjusted accordingly)</i></p> <p style="text-align: center;">xxx</p> <p>o. The contractor shall provide Technical Training that can be a classroom type or online training based on the following schedule:</p>

PARTICULARS

AMENDMENTS

Technical Training	Schedule
Implementing and Administering Cisco Solutions	Within one hundred twenty (120) calendar days from the receipt of NTP

Technical Training	Schedule
Implementing and Administering Cisco Solutions	Within one hundred twenty EIGHTY (180) calendar days from the receipt of NTP

xxx

xxx

p. The contractor shall provide as-built documentation of the CISCO Equipment set-up/diagram in both hard and soft copies, including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project, as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within one hundred twenty (120) calendar days from the receipt of NTP.

p. The contractor shall provide as-built documentation of the CISCO Equipment set-up/diagram in both hard and soft copies, including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project, as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within one hundred ~~twenty~~ **EIGHTY (180)** calendar days from the receipt of NTP.

5.0 Service Level Agreement

5.0 Service Level Agreement

xxx

xxx

Component	Description	Liquidated Damages
Delivery, installation, configuration, testing, and commissioning	The contractor shall deliver, install, configure, test, and commission the CISCO equipment and peripherals within one hundred twenty (120) calendar days from receipt of the NTP.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.

Component	Description	Liquidated Damages
Delivery, installation, configuration, testing, and commissioning	The contractor shall deliver, install, configure, test, and commission the CISCO equipment and peripherals within one hundred twenty EIGHTY (180) calendar days from receipt of the NTP.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.

PARTICULARS	AMENDMENTS
	<p><u>Attached are the following documents which should be used as part of the Bidding Documents to be submitted by the bidders:</u></p> <ol style="list-style-type: none"> 1. Section VI. Schedule of Requirements (Revised); and 2. Annex “A” (Detailed Technical Specifications) (Revised).
<p>Queries:</p> <p>CISCO Equipment:</p> <ol style="list-style-type: none"> 1. Why are there five (5) units of Network Advantage Licenses for the four (4) CISCO Distribution Switch? 2. On the eighteen (18) units of the latest model CISCO Router, why does the router have specifications with support Software-Defined WAN (SDWAN) iOS and iOS Application Experience (AX) universal version? CISCO commercial workspace does not allow AX license and SDWAN iOS together. 3. Is there a need for an additional AOE port for the router? 4. How many active onboard Interface ports are required for the CISCO ABR Router? 5. Is it correct to require twenty-two (22) units of switches while there are twenty-one (21) units for the network modules? <p>Peripherals:</p> <ol style="list-style-type: none"> 6. Are transceivers for multi-mode or single-mode? 7. Are the quantities validated and designation for the devices? 	<p>Clarifications:</p> <ol style="list-style-type: none"> 1. Amended to four (4) units of Network Advantage Licenses. Please see item 4.a.i (10) on CISCO Equipment of Annex “A” (Detailed Technical Specifications) (Revised). 2. Item 4.a.v (10) on CISCO Equipment of Annex “A” (Detailed Technical Specifications) (Revised) specifies that the licenses required for the CISCO Routers are for AX. Item 4.a.v (6) merely requires that the CISCO Routers to be delivered by the winning bidder can support SDWAN in the event that the DBM will utilize the said feature. 3. There is no requirement for an additional module. Only the indicated ports are required. 4. The total number of onboard Interface ports is 16 (8 x SFP ports, 4 x SFP+ and 4 configurable 1GE/10GE ports), as indicated in item 4.a.vii on CISCO Equipment of Annex “A” (Detailed Technical Specifications) (Revised). 5. The quantities stated are correct since one of the switches does not require a module. 6. The details are effected as amendments to item 4.a.i on Peripherals of Annex “A” (Detailed Technical Specifications) (Revised). 7. Yes.

<p>Other matters:</p> <p>8. Can site survey be done before the submission of the bid?</p>	<p>8. Please send the request for site inspection to the BAC Secretariat via procurement@dbm.gov.ph. The BAC Secretariat shall coordinate the requests to the End-User Unit for scheduling.</p>
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Other matters:

- The “No Contact Rule” shall be strictly observed. Bidders are not allowed to call or talk to any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective November 5, 2021 right after the opening of bids.
- For guidance and information of all concerned.

JANET B. ABUEL

Undersecretary

Chairperson, DBM-BAC

Section VI. Schedule of Requirements (Revised)

The delivery schedule stipulates hereafter the date of delivery to the project site.

Item	Description	Quantity	Delivery Schedule
1	Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals , as detailed in item 4.0 of Annex "A" (Detailed Technical Specifications)	1 lot	Within 180 calendar days from receipt of the Notice to Proceed

- * The period for the performance of the obligations under the Contract shall not be beyond the validity of the appropriation for the Project.

I hereby certify to comply and deliver all the above requirements.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

**DETAILED TECHNICAL SPECIFICATIONS
(REVISED)**

1.0 Project Title

CISCO Equipment Refresh

2.0 Objective

To replace obsolete¹ CISCO Equipment to ensure the connectivity and availability of the Department of Budget and Management (DBM) Information and Communication Technology (ICT) Infrastructure and Information Systems.

This Project covers equipment which should be compatible and interoperable with the existing equipment in the DBM Data Center. Hence, reference to brand names is authorized under Section 18 of the 2016 Revised IRR of RA 9184 which provides that, “[r]eference to brand names shall not be allowed **except for items or parts that are compatible with the existing fleet or equipment of the same make and brand, and to maintain the performance, functionality and useful life of the equipment**”. (emphasis supplied)

3.0 Implementation Period

The delivery, installation, configuration, testing, and commissioning of CISCO equipment and peripherals shall be within one hundred eighty (180) calendar days from receipt of the Notice to Proceed (NTP).

4.0 Delivery, Installation, Configuration, Testing and Commissioning of CISCO Equipment and Peripherals

- a. The contractor shall deliver, install, configure, test, and commission the CISCO equipment and peripherals:

CISCO Equipment

- i. Four (4) units of the latest model of CISCO Distribution Switch² with the following minimum specifications:
 - 1. Switching capability up to 2.0 Tbps

¹ End of useful life and end of support

² To replace Cisco Distribution Switch acquired year 2013 and 2014

2. 24 ports 1/10/25G Gigabit Ethernet and 4x 40/100G Uplink ports
 3. 16 GB DRAM
 4. Support IEEE 802.1ba AV Bridging (AVB)
 5. Support Cisco StackWise Virtual technology
 6. Advanced security capabilities like ETA, MACSec-256, and TrustWorthy systems
 7. IPV4/IPV6 Routing entries: Up to 212,000 indirect + direct Up to 90,000 host/ARP
 8. 98,000 Flexible NetFlow (FNF) entries
 9. 1 Bpps Forwarding rate
 10. Four (4) units of Network Advantage Licenses
- ii. Twenty-two (22) units of the latest model of CISCO Access Switch³ with the following minimum specifications:
1. 176 Gbps Switching capability
 2. 10/100/1000 or PoE+ copper ports 48 Ports full PoE+ 4x 1G/10G
 3. IEEE 802.3at PoE+ (up to 30W per port)
 4. 4GB DRAM
 5. Resiliency with Field-Replaceable Units (FRU) and redundant power supply
 6. Supports Modular Uplinks: 4x10G SFP+ Ports
 7. Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems
 8. 4,000 IPV4 Routing entries
 9. 2,000 IPV6 Routing entries
 10. 16,000 flows of Flexible NetFlow (FNF) entries
 11. Forwarding rate of 130.95 Mpps
 12. 250 Mpps Forwarding rate with stacking
 13. Network Essentials License
- iii. Twenty-one (21) units of CISCO 1G/10G Module for Access Switch with the following minimum specifications:
1. 4 ports 10GE SFP+
 2. 10 Gbps Data Transfer Rate
 3. 10 Gigabit Ethernet Data Link Protocol
 4. Plug-in module form factor
- iv. Thirty (30) units of the latest model of CISCO Access Switch⁴ with the following minimum specifications:
1. 128 Gbps Switching capacity

³ To replace CISCO Access Switch acquired year 2009, 2013, and 2014

⁴ To replace CISCO Access Switch acquired year 2007, 2009 and 2014 (including additional units due to change of office layout and service units)

2. 10/100/1000 or PoE+ copper ports 24 Ports full PoE+ 4x 1G/10G
 3. IEEE 802.3at PoE+ (up to 30W per port)
 4. 4GB DRAM
 5. Resiliency with Field-Replaceable Units (FRU) and redundant power supply, fans, and modular uplinks
 6. Modular Uplinks: 4x10G SFP+ Ports
 7. Enhanced security with AES-128 MACsec encryption, policy-based segmentation, and trustworthy systems
 8. 4,000 IPV4 Routing entries
 9. 2,000 IPV6 Routing entries
 10. 16,000 flows of Flexible NetFlow (FNF) entries
 11. Forwarding rate of 95.23 Mpps
 12. Mpps Forwarding rate with stacking
 13. Network Essentials License
- v. Eighteen (18) units of the latest model of CISCO Router⁵ with the following minimum specifications:
1. 500 Mbps Aggregate Throughput
 2. Four (4) total onboard WAN or LAN 10/100/1000 ports
 3. Four (4) RJ-45-based ports
 4. Four (4) SFP-based ports
 5. Support POE
 6. Support Software-Defined WAN (SDWAN)
 7. Cisco Digital Network Architecture (Cisco DNA)
 8. 4GB DDR3 ECC DRAM (control/services plane)
 9. Redundant hot-swappable power supply
 10. License: Application Experience (AX)
- vi. Forty-eight (48) Units of Branded and Brand New CISCO Wireless Access Point⁶ and its licenses with the following minimum specifications:
1. Should be compatible with DBM's existing Wireless Lan Controller CISCO 5520.
 2. Flexible radio assignment that allows the access points to intelligently determine the operating mode of serving radios based on the RF environment.
 3. Dual 5-GHz radio support that enables both radios to operate in 5-GHz client serving mode, allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speeds while increasing client capacity.
 4. Smart antenna connector that provides advanced network design flexibility for high density and large open-area environments such as auditoriums, libraries, cafeterias, and conference rooms, allowing two sets of antennas to be connected and active on a

⁵ To replace CISCO Router acquired year 2014 and 2016 (including additional service units)

⁶ To replace Forti AP (Forti-AP 221C) acquired year 2014 (including additional units due to change of office layout)

single access point. Supporting channels up to 160 MHz wide, Dynamic Bandwidth Selection allows the access point to dynamically switch between 20-, 40-, 80-, and 160-MHz channels, depending on the RF channel conditions, providing the industry's best-performing wireless network. Optimized access point roaming to ensure that client devices associate with the access point in their coverage range that offers the fastest data rate available.

5. Zero impact application visibility and control that uses dedicated hardware acceleration to improve the performance of line-speed applications such as Application Visibility and Control.
6. Auto link aggregation (LAG) allowing both Gigabit Ethernet interfaces to automatically LAG, increasing overall throughput to the access point.
7. ClientLink 4.0 technology to improve downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11a/b/g/n/ac while improving battery life on mobile devices such as smartphones and tablets.
8. Multipole-Input and Multiple-Output (MIMO) equalization capabilities, which optimize uplink performance and reliability by reducing the impact of signal fade. 802.11n version 2.0, 802.11ac Wave1/Wave2 capabilities:
 1. 4x4 MIMO with three spatial streams
 2. Maximal Ratio Combining (MRC)
 3. 802.11n/802.11ag/802.11ac beamforming
 4. 20- /40-/80- /160-MHz channels
 5. PHY data rates up to 450 Mbps (40 MHz with 5 GHz)/1.3 Gbps (80 MHz in 5GHz/ 5.2 Gbps.
 6. Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)
 7. 802.11 Dynamic Frequency Selection (DFS)
 8. Cyclic Shift Diversity (CSD) support
9. Integrated antenna, flexible radio (either 2.4 GHz or 5 GHz)
 1. 2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth.
 2. 5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90°
 3. Dedicated 5 GHz radio, gain 5 dBi, internal antenna, omnidirectional in azimuth
10. System memory
 1. 1024 MB DRAM
 2. 256 MB flash

11. Interfaces and Indicators

1. Management console port (RJ-45)
2. USB 2.0 (enabled via future software)
3. Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors.

12. CISCO AP Licenses

- vii. One (1) unit of the latest model of CISCO ABR Router⁷ with the following minimum specifications:
 1. ESP Bandwidth: 60 Gbps
 2. Total onboard Interface ports: 16 (8 x SFP ports, 4 x SFP+ and 4 configurable 1GE/10GE ports)
 3. Supports software redundancy
 4. Embedded hardware-based encryption: Up to 16-Gbps crypto support throughput
 5. 8 GB RAM Memory
 6. Route processor: Cisco ASR 1001-HX Series Route Processor
 7. Redundant hot-swappable power supply
 8. License: Advanced IP Services

Peripherals

- i. Other required components/materials, such as but not limited to the following:
 1. Twenty (20) units of CISCO 1G SFP multi-mode Transceiver for Routers
 2. Seventy-six (76) units of CISCO 10G SFP+ multi-mode Transceiver for uplink distribution of Access Switches and Routers.
 3. Eight (8) units of CISCO 40G QSFP Long Range Fiber single-mode Transceiver for the connectivity of Core Switch and Distribution Switch.
 4. Thirty-four (34) units of 1000BASE-T SFP multi-mode transceiver module for connectivity of ABR Router
 5. Five (5) units of 24 ports rack-mountable Fiber Patch Panel with multi-mode LC couplers.
 6. Sixty (60) units of 2M LC to LC fiber patch cord.
 7. Fifteen (15) units of 2m MPO to MPO fiber patch cord.
Roughing-in materials such as cable trays (metal/concrete), cable ties, moldings, EMT pipes, connectors, junction boxes, hangers, and support.
- ii. Branded and brand-new high-quality Fiber Optic Cable with the following minimum specifications:
 1. Suitable for outdoor application

⁷ To replaced CISCO ABR Router acquired year 2014

2. Can withstand any temperature
 3. Pressure resistance, corrosion resistance, and tensile strength
 4. Laser-optimized 50 μ m fiber having 4700 MHz-km EMB (Effective Modal Bandwidth)
 5. Designed for 10 Gbps, 40 Gbps, and 100 Gbps transmission
 6. Armored OS2 Single-Mode, 8-core
 7. Armored OM4 Multi-Mode, 24-core
- b. The contractor shall provide and activate all the necessary CISCO licenses to make the CISCO equipment operational. Pilot deployment of APs and routers in two DBM Regions (i.e., NCR, and IV-A) near DBM Central Office
- c. The contractor shall integrate the CISCO wireless controller with the Active Directory for wireless authentication.
- d. The contractor shall install, rough-in, terminate, test, and commission the fiber optic cable as the backbone of DBM Network Infrastructure. Fiber Optic Cables Test Results (OLTS and OTDR) should pass the industry standard (TIA 568-3.D and ISO/IEC 14763-3).

FROM	TO	TYPE OF CABLE
DBM Building 1 Ground Floor	DBM Building 2 DBM Data Center	OS2 Single-Mode, 8-cores
DBM Building 3 Ground Floor	DBM Building 2 DBM Data Center	OS2 Single-Mode, 8-cores
DBM Building 1 Ground Floor	DBM Building 1 2 nd Floor	OM4 Multi-Mode, 24 cores
DBM Building 3 Ground Floor	DBM Building 3 2 nd Floor	OM4 Multi-Mode, 24 cores

- e. The contractor shall install the concrete cable trays from building to building and undertake the necessary civil works, minor masonry, carpentry, painting, and restoration tasks.
- f. The contractor shall re-organize all the network cablings in all IDFs of Building 1/2/3 and provide the following to ensure the orderliness/cleanliness of every IDF:
- i. CAT6 UTP Cables and RJ 45 (for re-cabling purposes)
 - ii. Ceiling mounted Cable Trays (if necessary)
 - iii. Rack-mounted Patch Panels (Fiber and CAT6)
 - iv. Patch Cords (Fiber and CAT6)
 - v. Cable organizers, hooks, latch straps, cable ties, and pull out shelf
 - vi. Labeling of cables and numbering of patch panel ports
- g. The contractor shall conduct a pre-implementation meeting with DBM representatives so that all the necessary preparations, ideal set-up, contractor's

familiarization of the computing environment, and other implementation matters are clearly discussed and finalized.

- h. The contractor shall provide a work plan of activities for the duration of the project and a Deployment and/or Solution Architecture within a week from the pre-implementation meeting with DBM representatives. Said work-plan shall be validated, subject to the approval of the Director of the DBM-ICTSS.
- i. The contractor shall provide the Optical and Non-Optical Documentations for the Fiber Optic Cable including installation and testing, such as but not limited to the following:
 - i. Non-Optical Documentation must have the following details:
 1. Cable route diagrams
 2. Splice Plans
 3. Connector labeling schemes
 4. Cable sheath markings
 5. Cable datasheets/reel numbers
 6. Cable/fiber specifications
 7. Bill of Materials used in the installation
 - ii. Optical Documentation includes link attenuation, component loss, distance readings, and test results as per industry standards:
 1. Optical Loss Test Set (OLTS) test results must have the following details:
 1. Date of the test
 2. Test personnel
 3. Description of the field instrument used (manufacturer model number and serial number)
 4. Test equipment calibration date
 5. Type and length of the reference jumpers
 6. Fiber ID
 7. Test procedures and reference methods used
 8. Link-loss results
 2. Optical Time Domain Reflectometer (OTDR) test results must have the following details:
 1. Date of the test
 2. Test personnel
 3. Description of the field instrument used (manufacturer model number and serial number)
 4. Test equipment calibration date
 5. Type and length of the launch cables
 6. Fiber ID
 7. Trace file
 8. Tested wavelengths

- j. The contractor must have the following Certified Professionals, with each certification represented by a different individual who will handle DBM requests and activities:
 - i. CISCO Certified Network Professional Enterprise
 - ii. Certified Fiber Optics Designer
 - iii. Certified Fiber Optics Installer
 - iv. Certified Fiber Optics Technician

The corresponding certificates shall be required during post-qualification.

- k. During the warranty period, technical support shall be available twenty-four hours a day, seven days a week. Technical support may be delivered in the form of a telephone call, electronic mail, and/or on-site support as requested by the DBM.

Problems on software and hardware components, reported during the implementation period, shall be resolved to the satisfaction of the DBM within four (4) hours from receipt of the report by contractor.

- l. During the warranty period, defective parts/accessories of the subject ICT equipment shall be replaced, at no additional cost to the DBM, with the same or better brand, model features, quality, and functionalities if the same is not repaired within the allowable resolution time of four (4) hours.
- m. During the warranty period, conduct regular CISCO Equipment preventive maintenance as required by the ICTSS. The results of such shall be documented in a report (e.g., status report, health check, performance, updates, recommendations, etc.) submitted within three (3) calendar days from the conduct of the activity.
- n. The contractor shall extend the support services (including the provision of parts replacement and service unit) for the following existing CISCO Equipment to ensure continuous operation during the transition and until acceptance of the project -
 - i. Fifteen (15) units of CISCO 2901/K9 Router
 - ii. One (1) units of CISCO 3925/K9 Router
 - iii. One (1) unit of CISCO 2801 Router
 - iv. Seventeen (17) units of CISCO Switch WS-2960S-48FPS-L
 - v. Four (4) units of CISCO Switch WS-C3750X-24P-S
 - vi. Five (5) units of CISCO Switch WS-C2960+48TC-L
- o. The contractor shall provide Technical Training that can be a classroom type or online training based on the following schedule:

Technical Training	Schedule	No. of Participants	Duration
Implementing and Administering CISCO Solutions	Within one hundred eighty (180) calendar days from the receipt of NTP	Five (5) participants	Minimum of eight (8) working days

The contractor shall issue individual training certificates and training materials for each of the participants.

- p. The contractor shall provide as-built documentation of the CISCO Equipment set-up/ diagram in both hard and soft copies, including information in the deployment, system resource/overhead requirements of the software/IT equipment employed in the project, as well as procedures for installation, uninstallation, configuration, integration, usage, backup and restoration within one hundred eighty (180) calendar days from the receipt of NTP.

5.0 Service Level Agreement

DBM shall maintain a Service Level Agreement (SLA) with the contractor, with provisions for liquidated damages as indicated below for their non-compliance which shall be charged against any money due or which may become due to the contractor, or collected from any securities or warranties posted by the contractor.

Component	Description	Liquidated Damages
Delivery, installation, configuration, testing, and commissioning	The contractor shall deliver, install, configure, test, and commission the CISCO equipment and peripherals within one hundred eighty (180) calendar days from the receipt of the NTP.	1/10th of 1% of the contract price for the undelivered portion shall be imposed per day of delay.

6.0 Warranties of the Contractor

For the procurement of the project, the warranties shall include the following:

- a. The contractor warrants that it shall conform strictly to the terms and conditions of this Detailed Technical Specifications.
- b. The contractor warrants that the technical staff assigned are qualified to provide the deliverables required to the satisfaction of the DBM.
- c. The contractor shall secure, maintain at its own expense all registration, licenses, or permits required by National or Local Laws and shall comply with the rules, regulations, and directives of Regulatory Authorities and Commissions. The

contractor undertakes to pay all fees or charges payable to any instrumentality of government or any other duly constituted authorities relating to the use or operation of the installation.

- d. The contractor's technical staff assigned to support DBM shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.
- e. The contractor's technical staff assigned to support DBM shall coordinate with the DBM ICTSS in the implementation of this project.
- f. The contractor shall be liable for loss, damage, or injury caused directly or indirectly by the fault or negligence of its technical staff assigned. It shall assume full responsibility thereof and the DBM shall be fully released from any liability arising therefrom.
- g. The contractor shall neither assign, transfer, pledge, nor subcontract any part or interest to the contract being bid out.
- h. The contractor shall identify the certified technical support personnel that will be given authority to access and operate the specified equipment. The DBM shall be informed within five (5) calendar days, through a formal notice, of any change or replacement of technical staff assigned and will be required to submit equivalent certification mentioned in Item 1.0 (f).
- i. The contractor shall provide a three (3)-year comprehensive warranty which shall include technical support, provision of the service unit, parts replacement for the hardware/appliance, and preventive maintenance.

7.0 Confidentiality of Data

- a. All technical staff assigned by the contractor shall be required to sign a Non-Disclosure Agreement (NDA).
- b. The DBM Enterprise Network System, its component, parts and all products, products samples and specifications, data, ideas, technology, and technical/non-technical materials, all or any which may be derived from any of the foregoing are strictly confidential.
- c. The contractor agrees to hold all the foregoing information in strict confidence. The contractor further agrees not to reproduce or disclose any confidential information to third parties without the prior written approval of the DBM.

8.0 **Terms of Payment**

One-time payment shall be made, subject to the submission of the following documentary requirements, and in accordance with budgeting, accounting, and auditing laws, rules, and regulations:

- a. Delivery Receipts
- b. Sales Invoice/Billing Statement
- c. Certificate of Acceptance issued by the ICTSS Director
- d. Training Manual
- e. Documentation⁸
 - i. Optical
 - ii. Non-Optical
 - iii. As-built
- f. Non-Disclosure Agreement

⁸ Document redacted before submission to offices outside ICTSS for confidentiality