Republic of the Philippines
Department of Budget and Management
PROCUREMENT SERVICE
BIDS AND AWARDS COMMITTEE

Supplemental/ Bid Bulletin No. 1
28 March 2019

PUBLIC BIDDING No. 19-090– 1

SUPPLY, DELIVERY, TESTING, INSTALLATION, COMMISSIONING AND DEVELOPMENT OF EXPANSION OF NETWORK CONNECTIVITY FOR TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY (TESDA)

Issued pursuant to Sec. 22.5 of the IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project, considering the issues raised and clarifications made by prospective bidders during the Pre-Bid Conference held on **March 21, 2019.**

A. AMENDMENTS

REFERENCE	BASES FOR AMENDMENT / INCLUSION
SECTION III. BID DATA SHEET	
ITB Clause No. 29.2 Page 43 x x x 3. List of at least ~~Three (3)~~ **One (1)** Service Center in NCR 4. Income Tax Returns for year ~~2018~~ **2017** 6. Valid and **updated** PhilGEPS Registration Certificate. x x x	*To effect change as approved by the Bids and Awards Committee (BAC) and concurrence of the End-User-Agency.*
SECTION VII. TECHNICAL SPECIFICATIONS	
Page 71-73 x x x	*To effect change as approved by the Bids and Awards Committee (BAC) and concurrence of the End-User-Agency, please see attached Appendix "1" for Revised Technical Specification.*

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE
Fiber Optic Main Bone	
Indoor Cabinet (for Central Office, TESDA Women's Center Building, Green Building NCR, LSI/TDI Region 4A, PEVOTI, Old Dorm): Rust Proof, Fiber Optic Distribution, Copper Wire Distribution, Security lock, Fully-perforated front and rear and on top allow maximum airflow, must be suitable with the proposed equipment, accessories,	

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cables and peripherals.
 	
The following documents/reference are included/required for the items:
 	
  a) Formulation of Solution Architectures (Documentations are required) - **Proposed Network Diagram**
 	
  b) Design, Configuration & Layout (Documentations are required) – **As built Network Diagram and Layout, documentation on the configuration of Switches**
 	
  c) Installation, Testing, Tuning (HW/SW) (Documentations are required) – **Documentation of Optical Time Domain Reflectometer (OTDR) test result**
 	
  d) Integrative, Testing, Tuning (HW/SW) (Documentations are required) – **Documentation of building to building connectivity test result**
 	
  e) Deployment and commissioning (Documentations are required) – **this is the compilation of documents item b to c**
 	
  f) Security Assessment
		To effect change as approved by the Bids and Awards Committee (BAC) and concurrence of the End-User-Agency, please see attached Appendix "1" for Revised Technical Specification.

7 Distribution Switch		
Architecture & Port Density Access Switch should support Stacking Switches Ports: Access Switch Should have Twenty-Four (24) RJ-45 and ~~4~~ 2 x 10GbE SFP+ transceivers installed		
Services: To be performed by OEM-certified engineers/technicians		

(Certifications & CVs required) Formulation of Solution Architectures (Documentations are required)-**Proposed Network Diagram** Design, Configuration & Layout (Documentations are required)-**As built Network Diagram and Layout, document on the configuration of Switches** Installation, Testing, Tuning (HW/SW) (Documentations are required)- **Documentation of Optical Time Domain Reflectometer (OTDR) test result**		*To effect change as approved by the Bids and Awards Committee (BAC) and concurrence of the End-User-Agency, please see attached Appendix "1" for Revised Technical Specification.*
Integrative, Testing, Tuning (HW/SW) (Documentations are required)- **Documentation of building to building connectivity test result**		
Deployment and commissioning (Documentations are required)-**this is the compilation of documents item b to c**		
Security Assessment ~~(Documentations are required)~~		
x x x		

B. CLARIFICATIONS

CONCERNS	CLARIFICATIONS
Preference: Globally recognized brand, de facto industry standard, state-of-the-art, latest technology **The acquired network system must coexist with TESDA's other hardware equipment.** Designed to withstand the rigors of outdoor installation for a lifetime of 20 years. The network is running a 10G network (The equipment and capable must support a 10G network) How are we going to write the reference of the coexist with TESDA's other hardware equipment? What reference we will attached?	The end-user agency will refer to the brochure of the proposed network switch, specifically on IP address support. The proposed switch must support IPv4 and IPv6.

Letter of Microbase Inc.	
1. May we request to add in the category that the switches that will be provided "must be enterprise class and not for small business"? This is to ensure that the vendors are on the same level of proposal.	The requirement is retained as: **"Core Switch**: should offer Switching & Routing Performance at Layer 2 and Layer 3 Port: Core Switch have a Twelve (12) port RJ-45 10/100/1000 Mbps Transceiver: Core Switch should have at least Four (4) port 10GbE SFP+ transceivers installed The Core switch must have fiber and copper (RJ-45) ports"
2. Performance Switching Bandwidth or Capacity: 250 Gbps or more Query: Since you only require a small number of ports, May we request to bring down the Switching Capacity to 208 Gbps?	**"Performance** Switching Bandwidth or Capacity: 250 Gbps or more"
3. Which of the 7 buildings will be having multiple switches? 4. What will be the required number of copper and fiber interface of the distribution switch for that building? 5. May we request for an ocular visit within this week? Please advice	The switches are distributed one (1) each building Access Switch Should have Twenty-Four (24) RJ-45 You may visit TESDA on March 28, 2019, at 10:00AM
Letter of TRENDS	

All other portions of the Bidding Documents affected by these amendments shall be made to conform to the same.

Amendments/inclusions/clarifications made herein shall be considered an integral part of the Bidding Documents.

The changes made in the Philippine Bidding Documents (5th Edition, August 2016) are deemed integrated in the terms and conditions for this project.

ENGR. ROSANA D. YAMBAO
Chairperson, DBM-PS BAC I

TECHNICAL SPECIFICATIONS

Item	: **Expansion of Network Connectivity within Tesda Complex**
QUANTITY	: 1 lot
APPROVED BUDGET PER UNIT	: P 8,846,000.00
APPROVED BUDGET FOR THE CONTRACT	: P 8,846,000.00

AGENCY SPECIFICATIONS	BIDDER'S STATEMENT OF COMPLIANCE	REFERENCE FROM THE BROCHURE SUBMITTED
Expansion of Network Connectivity within TESDA Complex, complies with the following minimum specifications:		
Preference: Globally recognized brand, de facto industry standard, state-of-the-art, latest technology The acquired network system must coexist with TESDA's other hardware equipment. Designed to withstand the rigors of outdoor installation for a lifetime of 20 years. The network is running a 10G network (The equipment and capable must support a 10G network)		
Connecting the Central Office, TESDA Women's Center Building, Green Technology Building, NCR, LSI/TDI Region 4A, PEVOTI, Old Dorm using Ring Topology via Fiber Optics Cable		
Switches must be included in the Gartner's Magic Quadrant for the year 2017 or 2018.		
Fiber Optic Main Backbone		
	Brand and Model:	
Operating Frequency: Single Mode Fiber		
Number of Cores per Cable: 8 Cores or higher		
Transmission & Access Node: Ethernet Ring Protection Switching Technology		

RD4

Network Terminal Equipment (NTE): 10/100/1000 Based T and 10G SFP+ (Supported interfaces)		
Indoor Cabinet (for Central Office, TESDA Women's Center Building, Green Building NCR, LSI/TDI Region 4A, PEVOTI, Old Dorm): Rust Proof, Fiber Optic Distribution, Copper Wire Distribution, Security lock, Fully-perforated front and rear and on top allow maximum airflow, must be suitable with the proposed equipment, accessories, cables and peripherals. The following documents/reference are included/required for the items: a) Formulation of Solution Architectures (Documentations are required) - **Proposed Network Diagram** b) Design, Configuration & Layout (Documentations are required) – **As built Network Diagram and Layout, documentation on the configuration of Switches** c) Installation, Testing, Tuning (HW/SW) (Documentations are required) – **Documentation of Optical Time Domain Reflectometer (OTDR) test result** d) Integrative, Testing, Tuning (HW/SW) (Documentations are required) – **Documentation of building to building connectivity test result** e) Deployment and commissioning (Documentations are required) – **this is the compilation of documents item b to c** f) Security Assessment		
1 Core Switch		

Core Switch: should offer Switching & Routing Performance at Layer 2 and Layer 3 Port: Core Switch have a Twelve (12) port RJ-45 10/100/1000 Mbps Transceiver: Core Switch should have at least Four (4) port 10GbE SFP+ transceivers installed The Core switch must have fiber and copper (RJ-45) ports		
Performance Switching Bandwidth or Capacity: 250 Gbps or more		
Layer 2 Features: Support 4K active VLANS, Support 64K MAC addresses or more, Should support Jumbo Frames (up to 9,216 bytes)		
Layer 3 Features Should support IPv4/v6 layer 3 routing Dynamic IPv4 and IPv6 Routing protocols RIP, PIM. Should support DHCP		
Security Switch should support RADIUS, TACACS or TACACS+ Should support secure communications to the management interface and system through SSL, Secure Shell (SSH), and SNMP		
Manageability Integrated Web based Network Management or Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
Physical Attributes, Power Supply and Fans The switch should be provided with 19" Universal 4 post rack mount kit Should be loaded with dual hot swappable, redundant load sharing AC power supplies to provide 1:1 power supply		
Mandatory Compliance All categories of Switches, Transceivers & Switch OS should be from same OEM		

All Transceivers and Licenses required should be included and from the same OEM All Switches should be brand new		
Warranty Switch should be quoted with Technical Assistance Center Support and Warranty for 3 years with Next Business Day Hardware Replacement		
Product brochure Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features		
7 Distribution Switch		
Architecture & Port Density Access Switch should support Stacking Switches Ports: Access Switch Should have Twenty-Four (24) RJ-45 and 2 x 10GbE SFP+ transceivers installed		
Must support Power over Ethernet Plus **PoE+**		
Performance • Switching Bandwidth or Capacity: 120 Gbps or more.		
Layer 2 Features Support 4k active VLANs Support 64K MAC addresses or more Should support Jumbo Frames (up to 9,216 bytes)		
Security Switch should support RADIUS, TACACS/TACACS+ Should support secure communications to the management interface and system through SSL, Secure Shell and SNMPv3		
Manageability Integrated Web based Network Management or Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
Physical Attributes, Power Supply and Fans The switch should be provided with 19" Universal 4 post rack mount kit Should be loaded with dual hot		

swappable, redundant load sharing AC power supplies to provide 1:1 power supply		
Mandatory Compliance All categories of Switches, Transceivers & Switch OS should be from same OEM All Transceivers and Licenses required should be included and from the same OEM All Switches should be brand new		
Warranty Switch should be quoted with TAC support and Warranty for 3 years with NBD Hardware Replacement		
Product brochure Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features		
Services: To be performed by OEM-certified engineers/technicians (Certifications & CVs required) Formulation of Solution Architectures (Documentations are required)- **Proposed Network Diagram** Design, Configuration & Layout (Documentations are required)-**As built Network Diagram and Layout, document on the configuration of Switches** Installation, Testing, Tuning (HW/SW) (Documentations are required)- **Documentation of Optical Time Domain Reflectometer (OTDR) test result**		
Integrative, Testing, Tuning (HW/SW) (Documentations are required)-**Documentation of building to building connectivity test result**		
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Security Assessment		
Training		
Persons for training of TESDA Personnel		

ROY

Technical Training for Fiber Optic technologies: Fiber Network Management Concepts, Design, Configuration, Testing, Operation and Maintenance (3 persons), Switch Concepts, Design, Configuration, Testing, Operation and Maintenance (3 persons) Course materials with references		
Accessories		
Integrated Data Frames (cabinets) for switches: 1 MDF and 7 IDF per building		
Fiber cablings, power cords, plugs, terminators, roughing, etc.: As may be necessary to implement the project (not to be bought by TESDA; for the account of the Product Provider		
Warranty: **Network Equipment:** 3 years warranty in parts and labor, onsite, 24x7x365 Certifications by the Principal Product Provider and OEM/Manufacturer that all equipment to be supplied are NEW and UNUSED. Certifications are to be issued from the OEM/Manufacturer's local office. Technical support-Local 24x7 online/onsite support; 3 years on part & labor		
For complete Technical Specifications please refer to attached Terms of Reference of the Technical Education and Skills Development Authority		

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found false either during evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

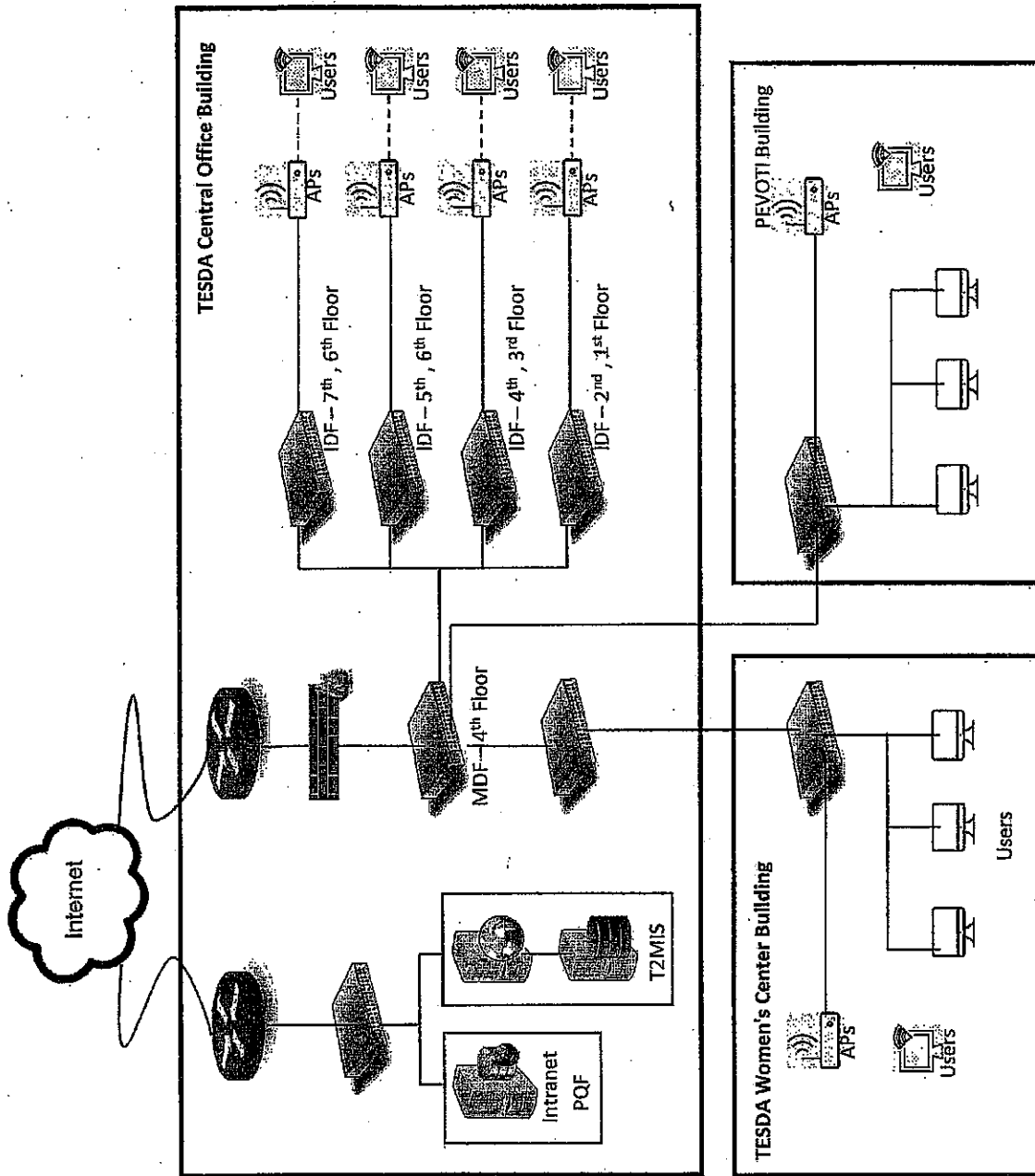|		
Name of Company	Signature Over Printed Name of Authorized Representative	Date

RDY

Current TESDA
Network Diagram

Legend:

——— Fiber Optic

——— Copper

TESDA Central Office Building

IDF — 7th, 6th Floor

IDF — 5th, 6th Floor

IDF — 4th, 3rd Floor

IDF — 2nd, 1st Floor

APS — Users (×4)

MDF — 4th Floor

Internet

Intranet PQF

T2MIS

PEVOTI Building

APS — Users

TESDA Women's Center Building

APS — Users

Users