

ANNEX "A"

TECHNICAL SPECIFICATIONS

Instruction: Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" 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 specifications and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. 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 prosecution subject to the provisions of ITB Clause 3.1(a)(ii) and/or GCC Clause 2.1(a)(ii)

Note:

1. Bidders are required to submit a datasheet of the goods/products to be supplied such as brochures, manuals, or other documentary references.
2. For easy referencing by the BAC, bidders are advised to indicate the section and page number of the supporting documents in the Statement of Compliance column.

Item	Description
1	<p>IP PBX with SIP Trunk</p> <p>1.1.1. Must be a Telecommunications Company/Provider and has a Tier-1 Telecommunications/ internet provider with multiple submarine cable link support and has fully redundant network routers connected to a high-performance fiber optic infrastructure. <i>"Tier-1 means registered "Telecommunications" Company in the Philippines"</i> The Provider must have a total network traffic capacity of at least 80 Gbps IP upstream (US and Asia)</p> <p>1.1.2. The provider must have at least ten (10) years as a telephone and internet service provider from the NTC.</p> <p>1.1.3. Must have an existing Wide Area Network (WAN) / fiber-optic Buildings.</p> <p>1.1.4. Must have a Metro-wide fiber optic network</p> <p>1.1.5. Must have a Tier 1 International Internet Exchange backbone connection with the corresponding type of connections (submarine cable, satellite, etc.)</p> <p>1.1.6. Must be able to change traffic with other Tier 1 providers, following strict peering agreements.</p>

	<p>(Peering is the internet traffic exchange between two networks that have agreed on a connection to exchange traffic without using a third party, reducing internet costs. Without Tier 1 internet providers, internet traffic could not be exchanged between countries.)</p> <p>1.1.7. Must be capable of connecting to wan failover and ISP internet load balancing appliance with stable bandwidth connection.</p> <p>1.1.8. Must be directly connected from the main pipe of the USA internet backbone and directly connected to the foundations of the internet, offering higher speed connections and more reliable networks.</p> <p>1.1.9. Must be connected from the Asia Pacific loop of a backbone with the East-Asia Crossing and Pacific Crossing.</p> <p>1.1.10. Must be a member of a Local Internet Exchange, e.g., Philippine Internet Exchange (PhiX), Matrix Internet Exchange (MIX), Common Routing Exchange (CORE), etc.</p> <p>1.1.11. Must guarantee a 1:1 ratio of bandwidth from the user's office to the global Internet</p> <p>1.1.12. Must have a flatter network optimized for IP with low latency</p> <p>1.1.13. Must be capable of a redundant node from PTA Site to the ISP's main hub.</p> <p>1.1.14. Must perform a Bit Error Ratio (BER) Testing after installation.</p> <p>1.1.15. Must Supply a Committed Information Rate (CIR): No less than 150Mbps each independent ISPs.</p> <p>1.1.16. Must provide Public IP addresses (PIP): IP allocation should be flexible and easier to access from a Tier 1 provider.</p> <p style="padding-left: 40px;">a. /30 and /27 for the ISP1, and</p> <p style="padding-left: 40px;">b. /30 and /27 for the ISP2</p> <p>1.1.17. The facility Must be owned and operated by the Internet Service Providers (ISPs).</p> <p>1.1.18. Must perform Local Area Network (LAN) and Wide Area Network (WAN) equipment configurations.</p>
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Item	Description
2	Managed PABX System
	2.1.1 Ten (10) SIP Trunks
	2.1.2 One Hundred (100) IP Phones
	2.1.2.a One (1) Matrix Operator IP Phone
	2.1.3.a Ninety-Nine (99) entry-level IP Phones
	2.2.1 IP PBX System
	2.2.2 10 SIP Trunk Ports
	2.2.3 IP-to-IP Calls
	2.2.4 100 IP Subscriber Licenses
	2.2.5 1 Matrix Operator IP Phone
	2.2.6 99 entry-level IP Phones
	2.2.7 5x 24Port PoE Switches
	2.2.8 PABX System Peripherals
	2.3.1 Installation, Testing, Commissioning and Acceptance
	2.4.1 Project Acceptance and Turnover
	2.5.1 Comprehensive Warranty & Support
	2.6.1 Ten (10) SIP Trunk Subscription for One (1) year