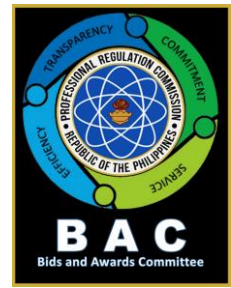




Republic of the Philippines
Professional Regulation Commission
Bids and Awards Committee
Central Office

P. Paredes St., Sampaloc, Metro Manila
 Tel. Fax: 5-310-0037
 Email: bac@prc.gov.ph



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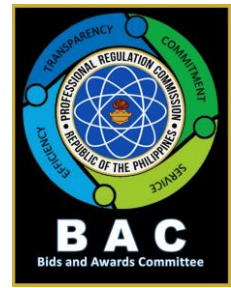
Section VII. Technical Specifications

No	Item	Specification	Statement of Compliance
1Lot	1	<p>PROCUREMENT OF INTERNET CONNECTION REDUNDANCY FOR PRC CENTRAL OFFICE</p> <p>I. Internet Features:</p> <ol style="list-style-type: none"> 1. Must deliver 300 Mbps Dedicated Internet for PRC Main Office 2. Must capable to provide /28 IP Block 3. At least 4.5 Tbps of International IP Port Capacity 4. At least 15 Unique Global Internet upstream partners for IPV4 5. IPV6 Ready Network 6. Diverse Internet peer connections in Asia - Singapore, Hong Kong, Taiwan, Japan and US - Los Angeles 7. With five (5) International Internet Gateways/Point of Presence in Asia and US 8. Peered to at least 8 International Exchange points (IXPs) – AMIX, ANY2, EQUINIX IX, NYIX, LAIX, HKIX, DE-CIX and JPNAP 9. Peered to at least 4 Local Exchange points (IXPs): PHOPENIX, VIX, GIX, PHIX 10. Diverse and Distributed cables routes using trans-asia and trans-pacific submarine cable systems; with redundancy 11. Utilizing six (6) Cable Landing Stations in the Philippines going outside the country for diversity and redundancy 12. Provider must build and managed its own a domestic fiber optic backbone network that is used to carry traffic of business customers 13. Vendor must be peered with PHOpenIX advertising all its prefixes, must provide certification from PHOpenIX. 	



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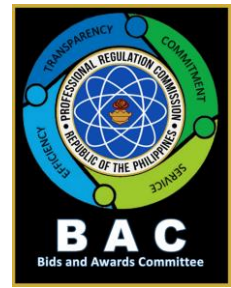
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		<p>14. Provider must provide symmetrical upload and download bandwidth allocation.</p> <p>15. Existing Professional Regulation Commission ISP provider cannot join the bidding.</p> <p>16. All installation fee is at cost of the winning bidder</p> <p>II. Certifications:</p> <ol style="list-style-type: none"> 1. Must have an NTC certification/Permit/License/Authority 2. Must peer with PHOpenIX with 20G peering capacity. 3. Must be MEF 2.0 certified <p>III. Service Level Agreement:</p> <ol style="list-style-type: none"> 1. Dedicated access to the Internet via end to end Pure Fiber Optic Cable with at least 99.7% Service Availability Level 2. Latency: <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 60%;"> <thead> <tr> <th style="text-align: center;">Origin / Destination</th> <th style="text-align: center;">Latency (in milliseconds)</th> </tr> </thead> <tbody> <tr> <td>PH POP to US POP</td> <td style="text-align: center;">200 ms</td> </tr> <tr> <td>PH POP TO ASIA POP</td> <td style="text-align: center;">70 ms</td> </tr> <tr> <td>DOMESTIC LUZON</td> <td style="text-align: center;">10 ms</td> </tr> </tbody> </table> 3. Packet/Frame Loss and Jitter: <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 60%;"> <thead> <tr> <th style="text-align: center;">Criteria</th> <th style="text-align: center;">Measurement</th> </tr> </thead> <tbody> <tr> <td>Packet / Frame Loss</td> <td style="text-align: center;">≤ 1%</td> </tr> <tr> <td>Jitter</td> <td style="text-align: center;">≤ 20ms</td> </tr> </tbody> </table> 4. Provide 24 x 7 technical assistance and customer service accessible via telephone and email. 5. The service provider must submit detailed escalation and restoration procedure for network or service outages including the contact details. 6. The service provider must provide MRTG access for bandwidth reporting and monitoring. 7. Provider must operate its own aftersales technical support and not outsourced 	Origin / Destination	Latency (in milliseconds)	PH POP to US POP	200 ms	PH POP TO ASIA POP	70 ms	DOMESTIC LUZON	10 ms	Criteria	Measurement	Packet / Frame Loss	≤ 1%	Jitter	≤ 20ms	
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IV. Network:

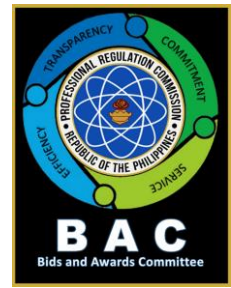
1. The network shall have full redundancy in the physical level, i.e. core switches and multiple gateway boarder routers for guaranteed QoS (Quality of Service).
2. The service provider must provide the modem/router for the internet link
3. Redundant and geographically connected with 800G Core Network
4. Diverse and geographically connected via Nx10G network nodes and PoP's.
5. Must allow a Full -BGP routing on ALL of the available internet backbone, thus limited and/or one IP transit gateway to the internet is not acceptable.
6. Utilized its own pure Fiber End to End, from Core Network to the last mile facility to deliver the service.
7. Telco shall be the owner of Fiber facility and shall not rely with other last mile provider to deliver the service requirement, sub-contracting is not allowed.
8. Must provide a Fiber Facility last mile connection from Telco core network up to customer premise.
9. Service Provider Network must be DWDM ASON (Automatically Switched Optical Network) protected. ISP equipment must have a regular maintenance check to maintain the up time of the equipment.
10. Service provider's Network Utilization threshold should be at least 50%.

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 4.

**ACKNOWLEDGMENT AND COMPLIANCE
WITH THE TERMS OF REFERENCE FOR THE
PROCUREMENT OF INTERNET CONNECTION REDUNDANCY FOR
PROFESSIONAL REGULATION COMMISSION**

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