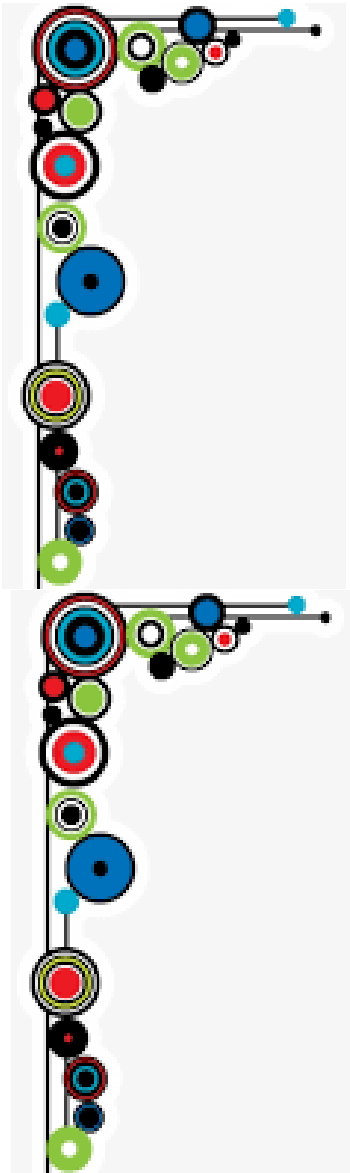


**IB 2022-23 – BACKHAUL/ INTERNET CONNECTIVITY FOR
BENGUET STATE UNIVERSITY CAMPUSES TWO (2)
YEARS**



***SECTION 7 –
TECHNICAL
SPECIFICATIONS***

TECHNICAL SPECIFICATIONS

IB 2022-23 – BACKHAUL/ INTERNET CONNECTIVITY FOR BENGUET STATE UNIVERSITY CAMPUSES TWO (2) YEARS

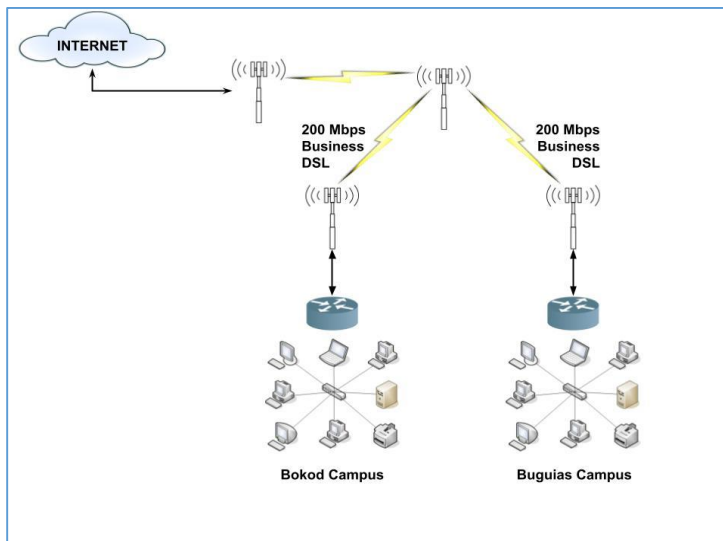
Item	Specifications	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported 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 specification 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 rejection. A statement either in the Bidder’s 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 applicable laws and issuances.]</i></p>
<p>LOT 1</p>	<p>1 Lot Installation of Wireless Backhaul/ Internet Connectivity for Bokod Campus</p> <p>I. Introduction</p> <p>This Project Technical Requirements and Conditions provides the description of the project, the technical specifications, terms and conditions as well as documentary requirements to support the procurement process of the backhaul and internet connectivity of Bokod Campus.</p> <p>II. Rationale</p> <p>Information today is a constantly changing resource. A resource that is needed by Benguet State University and its clientele whether students, faculty, researchers, staff, and the likes. The Internet has evolved and it not only holds the largest collection of information but also has become the</p>	

	<p>medium of communication, sharing and collaboration. The new normal for the university requires events and activities to be conducted online such as online teaching, live streaming, webinars, e-conferences, e-meetings, virtual programs/events and the likes.</p> <p>The Bokod Campus has existing internet service however, the resource is limited and unstable due to distance, rugged terrains and mountainous geography. Also, there is no physical wired facility to directly connect the campus to the internet.</p> <p>This project seeks for deployment of an upgraded wireless last mile or backhaul network which can transmit at least up to 200 Mbps internet service considering various losses within the infrastructure.</p>	
	<p>III. Scope of Work</p> <p>The project requires the installation of wireless backhaul network for Bokod Campus inclusive of up to 200 Mbps business DSL internet services.</p> <p>The service provider shall:</p> <ol style="list-style-type: none"> a. Deploy the backhaul network inclusive of installation, labor, engineering services, and maintenance service throughout the contract period for Bokod campus b. Provide the necessary telecommunications equipment such as radio, power sources, surge arresters, routers, connectors, cable, UPS, poles, and other required hardware devices c. Provide and configure the internet resource to connect to the campus local area network (LAN) d. Comply with applicable laws on licenses and other required permits required by the government and LGU e. Provide local technical support and maintenance service during the contract duration f. Provide billings online or via eMail g. Provide rebates on outages h. Provide a single point of contact person for communication and technical support 	

	<p>IV. Qualification Requirements</p> <p>The service provider:</p> <ul style="list-style-type: none"> a. Must be a registered IT telecommunications service provider with digital network installation as one of its major service b. Must have the capacity and ability to provide local maintenance services and technical support within the next business day c. Must have a proven track record with at least five (5) years in business in digital wired/wireless networking deployments catering to government and private companies d. Have implemented at least 2 similar projects in the deployment of a backhaul network 	
	<p>V. Technical Requirements</p> <ul style="list-style-type: none"> a. Bidders must submit detailed work plan specifying installation design, detailed activities, connectivity diagram up to the end user premise b. Service provider shall provide of technical support services through phone or email with 8 hours response time. c. Complete the delivery of the functional network within 60 calendar days from the receipt of the Notice to Proceed d. Network Infrastructure Testing <ul style="list-style-type: none"> 1. Upon installation, the connectivity will be tested for 3 working days. During the testing period, the connectivity shall be tested for its compliance to the technical terms and conditions provided. 2. There must be no interruption during the testing period except for causes that is out of the university and the service provider's control. Examples are power interruptions and natural disasters. 3. If any of the foregoing conditions are not met, the testing period shall be reset until all conditions are satisfied continuously for 3 working days. An inspection and acceptance report shall be issued by the 	

university inspection team once all conditions are met.

4. Envisioned scenario



Note: The number of nodes will depend upon the evaluation of the service provider

VI. Contract Period

The service contract period is 2 years. The contract may be extended upon agreement by the university and the service provider subject to conditions. The contract may be terminated by the university any time after the contract period.

LOT 2 1 Lot Internet Connectivity for Buguias Campus

I. Introduction

This Project Technical Requirements and Conditions provides the description of the project, the technical specifications, terms and conditions as well as documentary requirements to support the procurement process for the internet service for Buguias Campus.

II. Rationale

Information today is a constantly changing resource. A resource that is needed by Benguet State University and its off-campus site, its clientele whether students, faculty, researchers, staff, and the likes. The

	<p>Internet has evolved and it not only holds the largest collection of information but also has become the medium of communication, sharing and collaboration. The new normal for the university requires events and activities to be conducted online such as online teaching, live streaming, webinars, e-conferences, e-meetings, virtual programs/events and the likes.</p> <p>The Buguias campus has existing internet service however, the resource is unstable due to distance, rugged terrains and mountainous geography. Also, the connectivity is affected by various factors such as power outages and frequency congestion thus affecting the connectivity to its worst.</p> <p>With the timely availability of fiber optics in the area, this project seeks to upgrade the infrastructure and provide a better internet service.</p>	
	<p>III. Scope of Work</p> <p>The project requires the Installation and maintenance of internet service for Buguias campus</p> <p>The service provider shall:</p> <ol style="list-style-type: none"> a. Up to 500 Mbps business DSL via fiber connectivity up to the network of the campus with a hand-off compatible with the university's LAN b. Provide additional necessary telecommunications equipment and materials as needed c. Comply with applicable laws on radio licenses and other required permits d. Provide local technical support and maintenance service on next day business day e. Provide billings online or via eMail f. Provide rebates on outages g. Provide a single point of contact person for communication and technical support 	
	<p>IV. Qualification Requirements</p> <p>The service provider:</p> <ol style="list-style-type: none"> a. Must be a registered IT telecommunications service provider with digital network installation as one of its major service b. Must have the capacity and ability to provide local maintenance services and technical support. 	

	c. Philgeps registered	
	<p>V. Technical Requirements</p> <p>a. Bidders must submit detailed work plan specifying installation design, detailed activities, connectivity diagram up to the end user premise</p> <p>b. Service provider shall provide of technical support services through phone within the next business day.</p> <p>c. Complete the delivery of the functional network within 30 days from the receipt of the Notice to Proceed</p> <p>Note: The number of nodes will depend upon the evaluation of the service provider</p>	
	<p>VI. Contract Period</p> <p>The service contract period is 2 years. The contract may be extended upon agreement by the university and the service provider subject to conditions. The contract may be terminated by the university any time after the contract period.</p>	
	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	

I have hereby certified to comply with the above Technical Specifications

Name of Bidder over Printed Name

Designation

Date

Technical Requirements and Conditions

IB 2022-23 – LOT 1- BACKHAUL/INTERNET CONNECTIVITY FOR BOKOD CAMPUS FOR TWO (2) YEARS

VI. Introduction

This Project Technical Requirements and Conditions provides the description of the project, the technical specifications, terms and conditions as well as documentary requirements to support the procurement process of the backhaul and internet connectivity of Bokod Campus.

VII. Rationale

Information today is a constantly changing resource. A resource that is needed by Benguet State University and its clientele whether students, faculty, researchers, staff, and the likes. The Internet has evolved and it not only holds the largest collection of information but also has become the medium of communication, sharing and collaboration. The new normal for the university requires events and activities to be conducted online such as online teaching, live streaming, webinars, e-conferences, e-meetings, virtual programs/events and the likes.

The Bokod Campus has existing internet service however, the resource is limited and unstable due to distance, rugged terrains and mountainous geography. Also, there is no physical wired facility to directly connect the campus to the internet.

This project seeks for deployment of an upgraded wireless last mile or backhaul network which can transmit at least up to 200 Mbps internet service considering various losses within the infrastructure.

VIII. Scope of Work

The project requires the installation of wireless backhaul network for Bokod Campus inclusive of up to 200 Mbps business DSL internet services.

The service provider shall:

- i. Deploy the backhaul network inclusive of installation, labor, engineering services, and maintenance service throughout the contract period for Bokod campus
- j. Provide the necessary telecommunications equipment such as radio, power sources, surge arresters, routers, connectors, cable, UPS, poles, and other required hardware devices
- k. Provide and configure the internet resource to connect to the campus local area network (LAN)
- l. Comply with applicable laws on licenses and other required permits required by the government and LGU
- m. Provide local technical support and maintenance service during the contract duration
- n. Provide billings online or via eMail

- o. Provide rebates on outages
- p. Provide a single point of contact person for communication and technical support

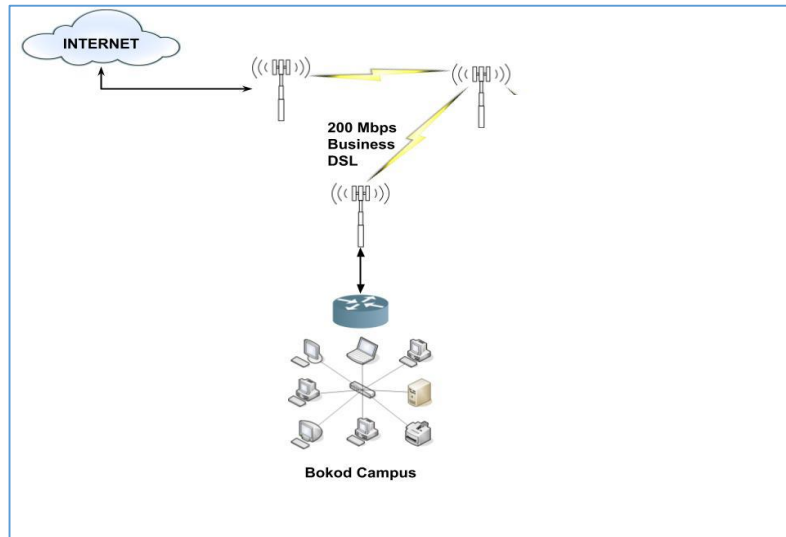
IX. Qualification Requirements

The service provider:

- e. Must be a registered IT telecommunications service provider with digital network installation as one of its major service
- f. Must have the capacity and ability to provide local maintenance services and technical support within the next business day
- g. Must have a proven track record with at least five (5) years in business in digital wired/wireless networking deployments catering to government and private companies
- h. Have implemented at least 2 similar projects in the deployment of a backhaul network

V. Technical Requirements

- a. Bidders must submit detailed work plan specifying installation design, detailed activities, connectivity diagram up to the end user premise
- b. Service provider shall provide of technical support services through phone or email with 8 hours response time.
- c. Complete the delivery of the functional network within 60 calendar days from the receipt of the Notice to Proceed
- d. Network Infrastructure Testing
 - a. Upon installation, the connectivity will be tested for 3 working days. During the testing period, the connectivity shall be tested for its compliance to the technical terms and conditions provided.
 - b. There must be no interruption during the testing period except for causes that is out of the university and the service provider's control. Examples are power interruptions and natural disasters.
 - c. If any of the foregoing conditions are not met, the testing period shall be reset until all conditions are satisfied continuously for 3 working days. An inspection and acceptance report shall be issued by the university inspection team once all conditions are met.
- d. Envisioned scenario



Note: *The number of nodes will depend upon the evaluation of the service provider*

VII. Contract Period

The service contract period is 2 years. The contract may be extended upon agreement by the university and the service provider subject to conditions. The contract may be terminated by the university any time after

Technical Requirements and Conditions

IB 2022-23 – LOT 2- INTERNET CONNECTIVITY FOR BUGUIAS CAMPUS FOR TWO (2) YEARS

X. Introduction

This Project Technical Requirements and Conditions provides the description of the project, the technical specifications, terms and conditions as well as documentary requirements to support the procurement process for the internet service for Buguias Campus.

XI. Rationale

Information today is a constantly changing resource. A resource that is needed by Benguet State University and its off-campus site, its clientele whether students, faculty, researchers, staff, and the likes. The Internet has evolved and it not only holds the largest collection of information but also has become the medium of communication, sharing and collaboration. The new normal for the university requires events and activities to be conducted online such as online teaching, live streaming, webinars, e-conferences, e-meetings, virtual programs/events and the likes.

The Buguias campus has existing internet service however, the resource is unstable due to distance, rugged terrains and mountainous geography. Also, the connectivity is affected by various factors such as power outages and frequency congestion thus affecting the connectivity to its worst.

With the timely availability of fiber optics in the area, this project seeks to upgrade the infrastructure and provide a better internet service.

XII. Scope of Work

The project requires the installation of:

- a. Installation and maintenance of internet service for Buguias campus

The service provider shall:

- q. Up to 500 Mbps business DSL via fiber connectivity up to the network of the campus with a hand-off compatible with the university's LAN
- r. Provide additional necessary telecommunications equipment and materials as needed
- s. Comply with applicable laws on radio licenses and other required permits
- t. Provide local technical support and maintenance service on next day business day
- u. Provide billings online or via eMail
- v. Provide rebates on outages
- w. Provide a single point of contact person for communication and technical support

XIII. Qualification Requirements

The service provider:

- i. Must be a registered IT telecommunications service provider with digital network installation as one of its major service
- j. Must have the capacity and ability to provide local maintenance services and technical support.
- k. Philgeps registered

XIV. Technical Requirements

- e. Bidders must submit detailed work plan specifying installation design, detailed activities, connectivity diagram up to the end user premise
- f. Service provider shall provide of technical support services through phone within the next business day.
- g. Complete the delivery of the functional network within 30 days from the receipt of the Notice to Proceed

Note: The number of nodes will depend upon the evaluation of the service provider

VII. Contract Period

The service contract period is 2 years. The contract may be extended upon agreement by the university and the service provider subject to conditions. The contract may be terminated by the university any time after the contract period.