

Technical Requirements and Conditions

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

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 of the backhaul and internet connectivity of Bokod Campus.

II. 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.

III. 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:

- 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

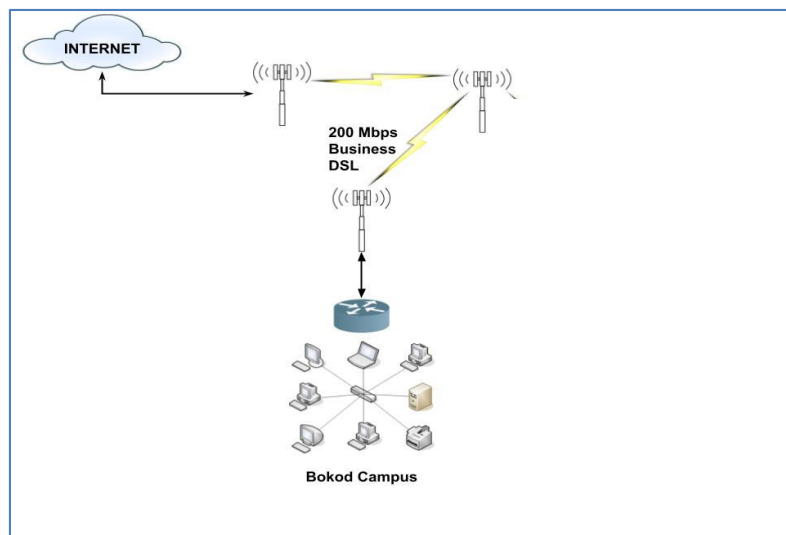
IV. Qualification Requirements

The service provider:

- 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

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

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 anytime after the contract period.