

Date: 7/12/2015

To
Life Gospel Ministries

Att: Mr. Lubari Thomas

Proposal for Installation of KA-Band VSAT for Provision Broadband Internet Services:

Introduction:

Ka-band geostationary satellite systems are typically architected with hub-and-spoke connectivity between gateways and the user terminals. Gateways are high-capacity, large-antenna earth stations with connectivity to the terrestrial telecommunications network and to the satellite feeder links.

The Very Small Aperture Terminals (VSATs) are located at end-user locations, providing two-way broadband connectivity over the satellite to the gateways. User data passes from the VSAT to the gateway to the terrestrial telecommunications network and back.

Traffic over the satellite network tends to be asymmetric, with more aggregate forward traffic flowing to the VSAT than return traffic flowing from the VSAT.

VSAT system Architecture



The VSAT installation consist of the following Hardware

1. **Indoor Unit (IDU):** Includes the high performace HN9260/9460/9800 satellite Modem which connects to the Router.
2. **Outdoor Unit (ODU):**
ODU consists of 74cm Antenna, Low Noise Block (LNB) for receiving of Signal.
Transmittther for the transimitting of signal.
Two IFL (Intra Facility Link) enables connection between the outdoor unit assembly and the indoor unit assembly. The IFL cabling carries the internet and the Out band signal and the24VDC for the LNB.

Benefits of Ka-band Internet Connectivity

- **Instant Access**
 - No dial up or wireless connection
 - Just a single hop directly onto the international internet backbone
- **Realiable**
 - The system is independent of any terrestrial telecommunication infrastructure
 - Available 24hours a day, 7days of week and 365 day per year
 - Full redundancy on international internet Access point
- **Fast**
 - Fast and reliable internet connection which allows to enjoy upto 7mbps download and upload speeds
- **Affordable**
 - Highly efficient, which lowers bandwidth cost at the same time High bandwidth & speed
- **Flexibility**
 - Customer premises are equipped with Small antenna -74cm,98cm and 1.2m which increases Mobility
 - Our solution enable you to maximize all potentials of your internet connection and also serve as a avenue for revenue generation.

Financial Consideration

Pricing is under three areas:

- ✓ **Investment cost**
This includes intial cost of procurement of VSAT Hardware and Installtion
- ✓ **Operational cost**
This includes Monthly subscription of the bandwidth capacity service plan.
- ✓ **Proposed budget**
This includes total cost of Investment and operational costs.

Investment Cost

Item	Description	Qty	Unit Price	Total Cost
01	Hardware Complete Jupiter 2 system, 74cm Antenna	1	\$500	\$500
02	Wireless AP Router- RB951	1	\$100	\$100
03	Standard Installation and commission of VSAT Equipment	1	\$200	\$200
	Sub Total per Unit			\$800

Operational Costs

Proposed Monthly access subscription

Service Plan	Monthly Allowance (GB)	Down Stream	Upstream	Night Time Quota	Price
Linksat-10	10	5mbps	3mbps	\$21 a month	\$55
Linksat-25	25	5mbps	3mbps	\$125	\$125
Linksat-50	50	20mbps	5mbps	yes	\$235
Linksat-Unlimited	unlimited	5mbps	5mbps	yes	\$475

Volume Boosters

Volume Boosters	Validity	Price
10GB	3 month	\$70
20GB	3 month	\$112
50GB	3 month	\$238

Proposed Budget/Quotation

Item	Description	Qty	Unit Price	Total Cost Price
01	Hardware Complete Jupiter 2 system, 74cm Antenna	01	\$500	\$500
02	Wireless AP Router- RB951	01	\$100	\$100
03	Standard Installation and commission of VSAT Equipment	01	\$200	\$200
04	Linksat-Unlimited 5mbps/5mbps	01	\$475	\$475
	Grand Total			\$1275

Terms and Conditions

- These prices are valid only for 30 days from Invoice date
- Local Purchase Order is required.
- All active device should be protected by UPS
- Delivery time is two weeks from receipt of LPO
- 100% cash down is required on order.
- Monthly operation fees are payable quarterly in advance.
- All Payment is paid to Linksat Account, we do not receive cash.
- The equipment supplied carries a warranty for a period of one year from the date of delivery against manufacturing defects on back base basis. No warranty against inadvertent use negligence, power surges and acts of God like lightening, flood among others.

Prepared by Festus