

PROJECT OUTLINE OF THE PILOT PROJECT – POMIO DISTRICT

INTRODUCTION

The proposed pilot project is regarded as a complete package solution to solving one of East New Britain's remaining remote districts', telecommunication woes, which for many years, have prevented the efficient delivery of services to the rural populace. Hence the reason this very district of Pomio has lagged behind the rest of the province in terms of development.

The proposed project will incorporate all mediums of telecommunications including:

1. Fixed Line services for voice and data, within the District HQ/Township of Palmalmal
2. 3G/4G coverage for both mobility and fixed wireless broadband services in three LLGs of rural Pomio District
3. FM Radio broadcasting which has been non-existent resulting in People in the district missing out on important announcements from Government and Emergencies Agencies.
4. Television Broadcasting which also been non-existent in the district
5. And Two-Way Radio communications which is vital for rural communication as well.

PALMALMAL GATEWAY SITE

The Project shall be implemented in three phases, beginning with the Entrance Link site at Palmalmal, from where it will branch out to other 3G/4G sites within the district via smaller IP radio links. The main Gateway site at Palmalmal will have:

1. A 3 Legged RDS 45m Heavy Duty tower to cater for 3G/4G antennas, IP radio backhaul to other sites, FM Radios, TV and other VHF radio services.
2. An Equipment Hut to house all Electronics and equipment for the different telecommunications services and service providers.
3. A Full Hybrid self-sustaining Power system to power all telecommunications systems
4. A remote Domsat Link to connect Servers/Nodes in Kokopo via Tomavatur mini Hub; this will be the ENTRANCE LINK into Palmalmal District Headquarters.

IMPLEMENTATION

Phase 1 Scope:

- a) Construction of Full Hybrid Power System including Genset and Solar System
- b) Erect the 45m Heavy Duty RDS tower and Construct Equipment Hut to house all electronics
- c) General site upgrade with gravel laying

Phase 2 Scope:

- a) Install Domsat for ENTRANCE LINK
- b) Impalement Cable Rehabilitation and expansion within the Palmalmal Township
- c) Install BA1000 at Palmalmal site to cater fixed line voice and ADSL broadband internet

Phase 3 Scope:

Install 3G/4G at Palmalmal and three additional sites; Drina, Rano and Central Inland Pomio

