



# Bespoke, Robust, Weather-tolerant Airport Terminal at Kieta (Aropa) Airport in Bougainville Island of Papua New Guinea

## CLIENT SUCCESS STORY



*RSHS fulfilled the dream project of rebuilding the aerodrome terminal en-suite with all utilities units despite the harsh weather conditions, remote location, and restricted logistics. They designed, manufactured, and constructed the terminal in exceptional speed and quality.*

# About the client

Aropa Airport (or Kieta Airport) is an airport in Kieta, Bougainville Island, Papua New Guinea. Aropa airport was re-opened in December 2014 by the Prime Minister, Hon. Peter O'Neill after it was closed for 25 years. The opening of the Kieta (Aropa) Airport is another vital part of Papua New Guinea's national infrastructure that will create new opportunities for the men, women and children of Bougainville.

## Project Snapshot

<b>Project</b>	▶	Bespoke Airport Terminal
<b>Customer</b>	▶	Kieta (Aropa) Airport
<b>Industry</b>	▶	Building and Construction
<b>Location</b>	▶	Bougainville Aerodrome, Papua New Guinea
<b>Completion Date</b>	▶	Sept 2014 to Dec 2014
<b>Products Utilized</b>	▶	Sitemaster 25 Seaway Series
<b>Project Units Implemented</b>	▶	Generators, Ablution Block, Site Engineer Office, Storage Shed, Residential Home, a Two Man Sleeper Accommodation Unit, and Steel fabricated Tilt Wall System
<b>Services Offered</b>	▶	Engineering & Design, Transportation & Delivery, Site Installation

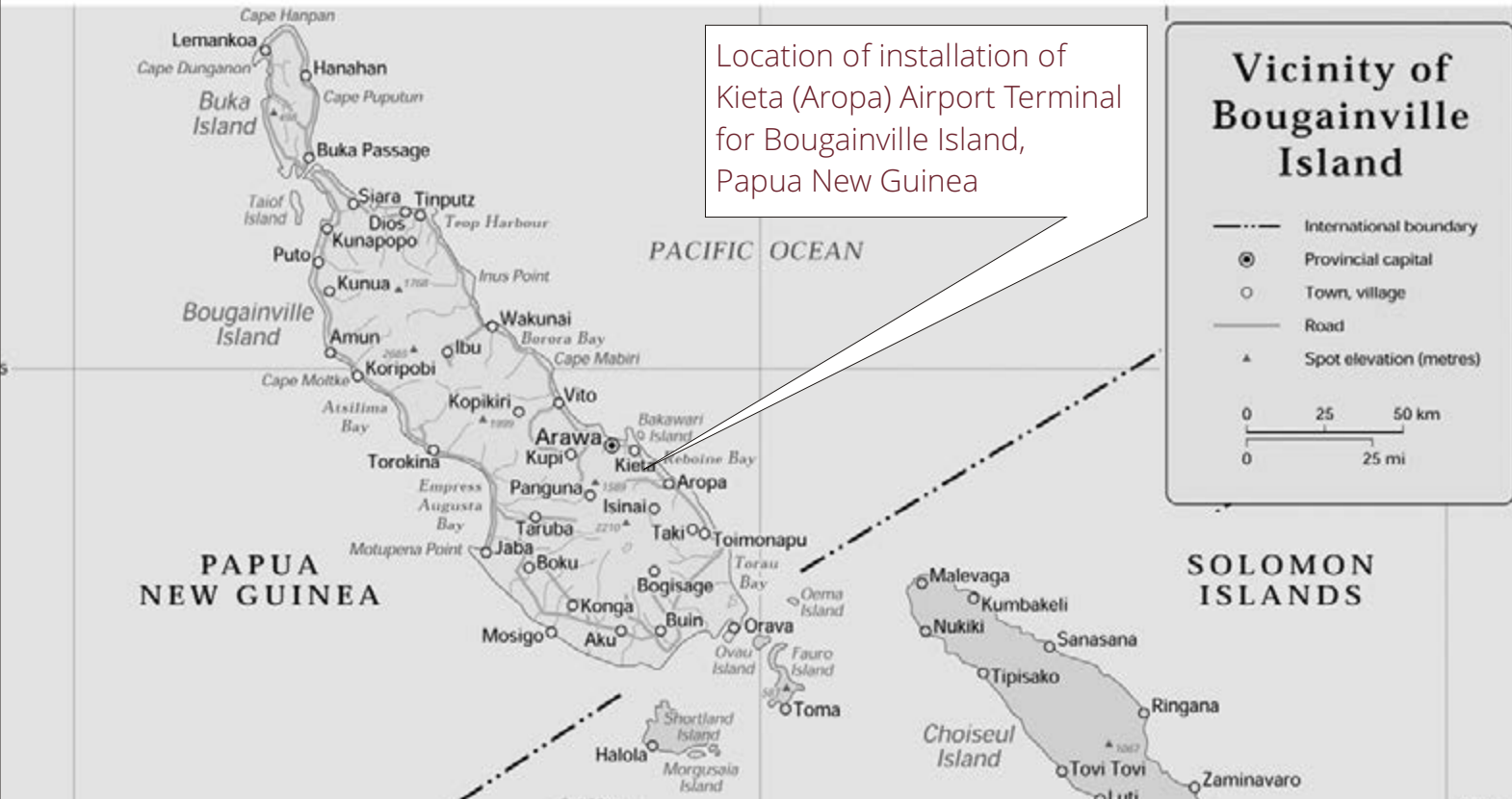
## Key Challenges

- ◉ Remote location and harsh weather.
- ◉ Long complex logistics route
- ◉ Tight project commissioning deadline
- ◉ Tough living conditions for RSHS personnel
- ◉ Adapt RSHS modules to customize material construction to suit client requirements

# The Need

After destruction of the former airport during the civil war in 1988, Red Sea Housing Services (RSHS) was required to construct and design an airport terminal for the region of Bougainville including utilities, amenities and housing for managers/engineers. At this remote location, the project also required to have Generators, Ablution Block, Site Engineer Office, Storage Shed, Residential Home and a Two Man Sleeper.

## Location map



## The Project

The Red Sea Housing Services (RSHS) team of experts were able to design, manufacture, ship, and commission a remote airport terminal for the Bougainville region, despite the difficult logistical challenges posed by the area. To ensure the longevity and strength of the terminal constructed, RSHS utilized its Site Master 25 Series which was utilised for the internal wall structure and steel fabricated tilt wall system for the external construction, making this a very strong and durable construction design. The project also included Generators, Ablution Block, Site Engineer Office, Storage Shed, Residential Home and a Two Man Sleeper.

### Logistics and Terminal Installation of RSHS modules



## Laying foundations for Utilities



# Inauguration and Opening of the Terminal



## Housing units and other Utilities



## Highlights of the project

- ⦿ Bespoke construction of arrival and departure lounge, ablution blocks, site offices, housing
- ⦿ Custom made materials require to ensure strength and durability
- ⦿ Remote Location
- ⦿ Harsh Weather Conditions
- ⦿ Logistics
- ⦿ First time use of a tilt wall system
- ⦿ Tight time schedule: Sept 2014 to Dec 2014

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