

# CASE STUDY

## ZAMBIA

## KALUMBILA

## AIRPORT

### PROJECT KEY FACTS

**Airport:** Kalumbila Airport

**Location:** Zambia

**Application:** Mine Airstrip

**Runway Length:** 2 760 m

**Solution:** Portable Runway Lighting

**Products:** Portable Runway Edge Lights, Portable Runway Threshold End Lights, Portable Halogen PAPI Lights, Telescopic Floodlight Mast, UR-101 Handheld Controller, Trailer

**Buyer:** First Quantum Minerals

**Year of Delivery:** 2021



### OVERVIEW

First Quantum Minerals (FQML), one of the biggest mining and metal companies in the World, has acquired S4GA Airfield Lighting System in a Trailer for Kalumbila Airport in Zambia. The Company was looking for a mobile runway illumination which can be easily transported and deployed on a few different runways.

### CHALLENGE

The Airport has been already equipped with the solar-powered runway and taxiway lighting supplied by another manufacturer. However, the technical personnel reported about non-sufficient brilliancy of the lights which caused the Airport's inability to use runway for medical emergency evacuations at night time.

To keep the runway operational, the Company had to find another runway illumination. Permanent lighting system was not considered as the Customer was going to use the lights occasionally on two airfields. First Quantum contacted NTEC - an S4GA partner in South Africa - and requested a portable runway lighting they could rely on.

### SOLUTION

S4GA Portable Airfield Lighting in a Trailer has been offered to Kalumbila Airport. The system was able to address all challenges and meet all requirements provided by the Customer:

- 20 min fast deployment
- easy transportation
- high autonomy and reliability
- official approval by Zambia CAA.

In the end, S4GA solution was found the only one among all systems offered, addressing all Customer's requirements. As a result, FQML made a decision to acquire S4GA System for Kalumbila Airport. NTEC provided supply, installation and commissioning of S4GA lighting as well as onsite training for airport personnel. S4GA airfield lights and mobile PAPI have been installed on special rubber pads allowing to quickly deploy/remove the lights and providing jet-blast resistance. Remote activation of S4GA illumination makes it very easy to use.



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## S4GA PRODUCTS

①



PORTABLE  
RUNWAY EDGE  
LIGHT W/W

②



PORTABLE  
RUNWAY  
THRESHOLD END  
LIGHT



PORTABLE  
PAPI LIGHT



UR-101 HANDHELD  
CONTROLLER



TRAILER



TELESCOPIC  
FLOODLIGHT  
MAST

## APPLICATION PHOTOS

