



Solar Installation

Ashaiman / Ghana, 2019



Installation Description

We installed 3 poles with 2 lamps and 14 poles with single lamp. The lamps are constructed with a metal pole of 6m height. The batteries are fixed in a metal box, which is buried in a concrete basement in the soil. Since batteries don't like heat, we considered it better to keep the batteries at a cool place in the underground. Each lamp is equipped with a 12V / 24V / 20A charge controller, including the night light function. It was a challenge to get all the different materials together and to coordinate the work and purchasing of all the items.

This process delayed the installation of the solar street lamps. Some places are water locked and in the raining season the boxes get flooded. Therefore we fixed the metal boxes inside a concrete basement and sealed the boxes with silicon to make them water prove.

Facts

Location

Tema / Ashaiman, the harbor city of Ghana, about 20km east of the capital Accra in Ghana.

Installation Date

June to August 2019 in phases

End Users

The Provincial House, PDO, DBTI, Guest House, Boy's Hostel.

Technical Data

Double arm lamps:

- 2 x 24V / 50W LED lamps
- 2 x 12V / 200Ah Batteries

Single arm lamps:

- 1 x 24V / 50W LED lamp
- 2 x 12V / 100Ah Battery

