

# ENGINEERING, PROCUREMENT AND CONSTRUCTION OF A MODULAR WATER PURIFICATION PLANT IN BUENA ESPERANZA, EQUATORIAL GUINEA



## PROJECT INFORMATION

This project is currently in the implementation phase. It includes the engineering, procurement and construction of a water purification plant with a capacity of 300 m<sup>3</sup>/h to supply drinking water to the Buena Esperanza residential district and the surrounding area on the island of Malabo, Equatorial Guinea.

In addition to the water purification plant, Inclam is also responsible for construction of the domestic water supply and sewage network and connection of Buena Esperanza, where more than 10 km of high-density polyethylene piping and all the necessary fittings have been installed. Water is extracted from 5 wells near to the plant.

The Buena Esperanza plant has two drinking water storage tanks with a capacity of 1,250 m<sup>3</sup> each and an elevated water tank with a capacity of 100 m<sup>3</sup>. It also has two clarifiers and five filters. In addition to the clarifiers and filters, the Buena Esperanza plant has three containers under a unique façade skin which contain: Dosing room, reagent store, pump room and a technical office with toilet, all in the form of a unique value-added product with state-of-the-art aesthetics.



3D IMAGE – WATER PURIFICATION PLANT OF BUENA ESPERANZA



SLAB FOR DRINKING WATER TANKS



SLAB FOR PURIFICATION PLANT



FORMWORK AND MESH OF ELEVATED WATER TANK



SLAB FOR ELEVATED WATER TANK

## RELEVANT INFORMATION

Year: 2014/2015

Customer: National Project Planning and Monitoring Office

Budget: \$6,000,000

## PROJECT INFORMATION:

COUNTRY:	Equatorial Guinea
LOCATION:	Buena Esperanza, Malabo
TREATMENT FLOW:	300 m <sup>3</sup> /h
PURPOSE:	Supply of drinking water to the Buena Esperanza residential district and new housing estates (5,000 houses)
WATER TANK CAPACITY:	2,500 m <sup>3</sup>
ELEVATED WATER TANK CAPACITY:	100 m <sup>3</sup>
PURIFICATION TECHNOLOGY:	Continuous cleaning