CASE STUDY

Water/ Infrastructure Projects
AL GABL AL ASFAR WASTEWATER TREATMENT PLANT - CONTRACT 19
PHASE 2 - PART 1

ENOIA was awarded by the Construction Authority for Potable Water & Wastewater (CAPW) to supervise and monitor the operation and maintenance works for Al Gabl Al Asfar wastewater treatment plant Contract 19 serving the metropolitan area of Cairo: with a total treatment capacity of 500,000 m³/day, this plant represents the largest wastewater treatment facility over the world. With a 2,800,000m³ nominal daily capacity, the project provides a complete treatment of the organic pollution of the collected sewage, along with a comprehensive sludge treatment line which includes anaerobic digestion and biogas production (enabling 60% power supply autonomy for the plant operation).

Scope of Services

ENOIA was appointed as the Engineering Consultant for the following services:

- Operation and Maintenance supervision of all components of the station as per the Owner’s standards and specifications;
- Review of the quality and quantity of inflow and outflow, as well as the sludge quality vs. specifications;
- Daily supervision of the operation procedures, recording the rates and providing observations and recommendations to the Owner;
- Supervising the laboratory tests stipulated in the operation and maintenance contract, whether carried out in the plant or in external labs;
- Supervise the distribution of electric loads in the plant to achieve full utilization of the biogas produced through anaerobic digestion;
- Supervise the storage and management of spare parts and consumables;
- Supervise and assess the implementation of the Quality Control procedures for all works and the internal Auditing procedures in accordance with the of ISO 9001 requirements;
- Supervise and monitor the implementation of HSE procedures by the operator in accordance with the recommendations of the relevant Governmental Agencies;
- Supervise and monitor the performance of the operator towards the obligations of Civil Defense Department, including the firefighting system, according to the instructions from Civil Defense;
- Assess the training programs provided by the Operator for approval by the Owner and supervision of their implementation.

Country
Egypt

Owner
CAPW

Dates
2013 till 2018

Overall Project Value
43.806.450 USD

ENOIA’s Consulting Value
947.370 USD