

Al-Gabal Al-Asfar WasteWater Treatment Plant (Stage II-Phase II)

Client

Misr Sons Development (Hassan Allam Sons)

Scope of Work

Preliminary design
Design development
Detailed design

Location

Al-Gabal Al-Asfar, Cairo, Egypt

Types of Activities

Architectural
Civil works
Communications and security systems
Electrical
HVAC
Landscape
Mechanical
Structural

The treatment plant is located in the northeast of Cairo. It receives wastewater from Cairo City via culverts and pumping stations forming a wastewater conveyance system. Following treatment, the final chlorinated effluent is discharged into Al-Gabal Al-Asfar Drain, and the thickened sludge is dewatered before disposal.

The existing Al-Gabal Al-Asfar Wastewater Treatment Plant involves two stages, each consisting of two phases. Stage I (under operation) is designed to provide treatment for an average raw wastewater inflow of one million square meters per day.

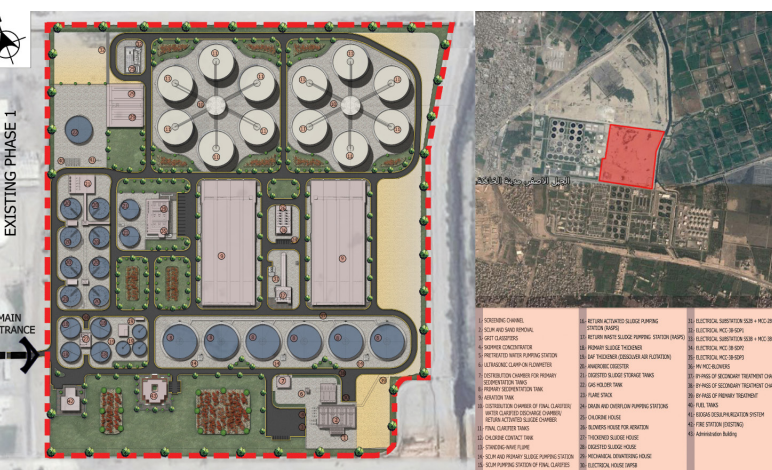
Stage II is constructed in two phases and has been designed to handle an average raw sewage inflow of

one million square meters per day. Phase I of Stage II is currently under operation with a capacity of 500,000 m³ / day.

Phase II of Stage II consists of the following processes:

- Preliminary treatment;
- Secondary treatment;
- Sludge thickening;
- Sludge digestion;
- Sludge dewatering.

ECG's scope of work encompasses the design of Phase II of Stage II, with a capacity of 500,000 m³ /day.



Al-Gabal Al-Asfar WasteWater Treatment Plant (Stage II-Phase II)

