

# Softner Manufacturing Plant

## Client

Confidential

## Scope of Work

Design development  
Detailed design  
Shop drawing  
Construction supervisions

## Location

6<sup>th</sup> of October City, Egypt

## Types of Activities

Architecture  
Communications and security systems  
Electrical  
HVAC  
Interior design  
Mechanical  
Structure

The purpose of this project was to construct a new softener manufacturing facility on an area of approximately 5,500 m<sup>2</sup> within the existing plant. The project houses all the facilities required for the planned production including:

- Making Building: one-storey high, air conditioned, steel-structured space divided into few separated functional spaces for batch making system, raw material staging, buffer tanks and workshop.
- Packing building: one-storey high, air conditioned, steel-structured space divided into few separated functional spaces for packing and warehouse.
- Utilities building: two levels, subject to future expansion up to four levels including transformers in

the ground floor, ring main unit and medium & low voltage panels in the first floor, compressed air unit in the second floor, and chillers & cooling towers on the roof.

- Administration building: two levels, subject to future expansion up to 4 levels including IT room, Quality Assurance labs, 2 meeting rooms that could be converted to one larger room, 2 huddle rooms, breakout area, toilets (for 20 permanent workers), and office spaces accomodating 15 persons.
- Tank farm, which has reinforced concrete foundation to support the tanks.

ECG used Revit BIM Package throughout the design process.

