

# Caltex Lube Oil Blending Plant

## Client

Caltex Egypt S.A.E

## Scope of Work

Master plan  
Concept design  
Schematic design  
Preliminary design  
Design development  
Detailed design  
Procurement  
Construction management  
Construction  
Commissioning

## Location

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

## Types of Activities

Architectural  
Civil works  
Communications and security systems  
Electrical  
Fire Protection  
Instrumentation and control  
Piping design  
Process  
Roads  
Structural  
Tank design

Premised on a plot area of 26,000 m<sup>2</sup>, the 7 million dollar lube oil blending facility produces 23,000 tons of automotive, industrial and marine oil of different categories. The plant consists mainly of 3,200m<sup>2</sup> base oil storage area surrounded by a bund wall of soil embankment covered by a bituminous sand layer with eight steel tanks of 300 m<sup>3</sup> to 1,000 m<sup>3</sup> capacity; 2,400 m<sup>2</sup> steel-structured blend center / warehouse building comprises the blending area with five (20 m<sup>3</sup>) heated tanks (blending kettles) and filling machines; 600 m<sup>2</sup> mezzanine floor for storage of empty containers and cartons as well as finished product storage area of

780 m<sup>2</sup>; in addition to a two-storey building for offices and laboratory; 300 m<sup>2</sup> finished product storage area of reinforced concrete bund wall including two steel tanks of 50 m<sup>3</sup> to 100 m<sup>3</sup> capacity; utility building where the plant boiler and air compressor are located; and 3,000 m<sup>2</sup> of uncovered storage area for the storage of drummed additives and products in addition to an extra area for the plant future expansion.

ECG also designed and constructed the site infrastructure including roads, fire protection system, roads and plant fences.

