

# Smart Village Central Chiller Plant

## Client

Smart Villages Company

## Scope of Work

Detailed design  
Construction management  
Construction supervision

## Location

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

## Types of Activities

Architectural  
Communications & security systems  
Electrical  
HVAC  
Mechanical  
Structural

The Smart Villages Company supplies the Smart Village buildings with a centralized air-conditioning and heating system provided through a central gas-fired HVAC plant built over several stages. The centralized heating and air-conditioning system requires a plant for producing chilled and heated water in addition to a network for distributing such water to all buildings housed in the Smart Village and the Ministry of Communication Complex.

With a built-up area of 12,000m<sup>2</sup>, the cooling station produces hot/cold water & distributes it to the different buildings in Smart Village. The station is operated by BOO system. The station capacity is 24,000 cooling tons/hr which is accomplished in 4 stages:

1<sup>st</sup>: 8,000 cooling tons/ hr

2<sup>nd</sup>: 6,000 cooling tons/ hr

3<sup>rd</sup>: 6,000 cooling tons/ hr

4<sup>th</sup>: 4,000 cooling tons/ hr

