

# GeoChem Middle East LLC. Office cum Archive Block Plot No. TP010305, Technopark, Dubai.



## EHS In House Certification NC v2009

**Total\*\*** **44/110**

|                              |       |
|------------------------------|-------|
| Sustainable Sites            | 8/28  |
| Water Efficiency             | 2/10  |
| Energy & Atmosphere          | 23/37 |
| Material & Resources         | 2/13  |
| Indoor Environmental Quality | 7/12  |
| Innovation in Design         | 2/06  |
| Regional Priority            | 0/04  |

**\*\*Certified 40+ points, Silver 50+ points,  
Gold 60+ points, Platinum 80+ points**

### FAST FACTS

**EHS In House Certification:** New Construction v2009 "Certified Building".

**Built Up Area:** 13,151 sq. ft

**Location:** Technopark, Dubai, UAE

**Completed:** 2016

**Date of Certification:** 14<sup>th</sup> February 2016

### BENEFITS

- More than 42% Reduction in Annual Energy Costs
- More than 22% Reduction in Annual water usage through efficient water fixtures
- More than 20% of total materials used with recycled content
- Use of albedo materials for car park covers and pavements to reduce heat island effect
- Use of eco-friendly materials for construction
- Improved indoor environmental quality and thermal comfort with the use of high efficiency mechanical systems

### PROJECT BACKGROUND

The project is an Office cum Archive for Block GeoChem Middle East LLC. at Plot No. TP010305, Technopark, Dubai.

The Project has been designed, developed and will be operated as per local regulatory Environment Health and Safety (EHS) In House Certification guidelines for LEED New Construction Version 3.0 Rating System.

## **GeoChem Middle East LLC. Office cum Archive Block Plot No. TP010305, Technopark, Dubai.**

### **BUILDING**

The project is known as GeoChem Middle East LLC. Office cum Archive Block at Plot No. TP010305, Technopark, Dubai, that is regulated by Trakhees Ports & Custom Free Zone Corporation (PCFC) of Dubai Government, and as a part of the local regulatory building engineering design and permitting process, it is lawfully required to adhere to the Trakhees's Environmental Health and Safety (EHS) Division's Green Building Regulations.

### **SUSTAINABLE SITES**

- Preferred parking spaces for low emitting & fuel efficient vehicles as well as car/van pools
- 100% covered parking spaces

### **ENERGY AND ATMOSPHERE**

- Optimized energy performance through efficient building envelope, HVAC & lighting systems
- Stratospheric ozone layer protection through zero use of CFC based refrigerants
- Proper and efficient equipment operation achieved through harmonized EHS/LEED commissioning
- Tracked building-level energy use through installed energy meter

### **OTHERS GREEN FEATURES INCLUDE**

- Installed low flow features for toilets, urinals, faucets and showers which is a standard practice in this water constrained region.
- Achieved the breathing zone outdoor air ventilation rates to all occupied spaces as per the minimum rates required by ASHRAE 62.1-2007
- Used low emitting materials for construction

### **LESSONS LEARNED**

- Incorporating green building requirements early in design stage
- Involvement of all the stakeholders in implementing the green building requirements to secure the certification
- Ensure expert assistance in energy analysis to achieve maximum savings.

### **THE TEAM**

**Owner:** GeoChem Middle East LLC.

**Design Consultant:** Corporate Planners Engineering Consultants

**Contractor:** Pravarthi Building Contracting LLC.

**Green Building Consultant:** GlobalTech Safety & Environmental Consultancy

**LEED AP:** GlobalTech Safety & Environmental Consultancy

**Commissioning Authority:** GlobalTech Safety & Environmental Consultancy





## GeoChem Middle East LLC.



**GeoChem Middle East LLC.**  
Office cum Archive Block  
Plot No. TP010305,  
Technopark, Dubai, UAE.



**42%** reduction in annual energy costs



**22%** reduction in annual water use

### EHS In House Certification Facts

#### GeoChem Middle East LLC.

Office cum Archive Block  
Plot No. TP010305,  
Technopark, Dubai, UAE.

**Certified 44\***

|  |                              |       |
|--|------------------------------|-------|
|  | Sustainable Sites            | 8/28  |
|  | Water Efficiency             | 2/10  |
|  | Energy & Atmosphere          | 23/37 |
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|  | Regional Priority            | 0/04  |

\*Out of a possible 110 points

**GEOCHEM**

