

Harsco Corp FZE Main Office Building



LEED® for New Construction v3

Total** **59/110**

Sustainable Sites	16/26
Water Efficiency	5/10
Energy & Atmosphere	13/35
Material & Resources	5/14
Indoor Environmental Quality	11/15
Innovation in Design	5/06
Regional Priority	4/04

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

FAST FACTS

LEED Certification: USGBC LEED NC v3 Silver Certified Building
Built Up Area: 8422.17 sq. ft
Location: Plot No. TP030304 at Techno Park, Jebel Ali, Dubai, UAE
Completed: 2014
Date of Certification: 6th January' 2015

BENEFITS

- More than 63% Reduction in Total Irrigation Water Consumption
- More than 27% Reduction in Annual Energy Costs
- More than 35% Reduction in Annual water usage through efficient water fixtures
- More than 23% of total materials used with recycled content
- More than 72% of total materials used are harvested/manufactured locally
- Use of high albedo materials for roofing, 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
- Improved daylight & outdoor views

PROJECT BACKGROUND

The project is Ground Floor Main Office Building for Harsco Corp FZE located in Techno Park, Jebel Ali, Dubai, UAE.

The project has been designed, developed and will be operated as per local regulatory Environment, Health & Safety Division (EHS) guidelines and United States Green Building Council (USGBC)- Leadership in Energy & Environmental Design (LEED) Green Building Requirements for New Construction, LEED 2009 Edition.

Harsco Corp FZE

Main Office Building

Plot No. TP030304 at Techno Park, Jebel Ali, Dubai, UAE

BUILDING

The project is an Office Building for Harsco Corp FZE located in Techno Park, Jebel Ali, Dubai, UAE. The project is regulated by Trakhees of 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

- Encourages building occupants to practice car and van pooling
- Provided 100% parking under cover
- Provided 100% roofing materials meet the SRI requirements

ENERGY AND ATMOSPHERE

- High-efficiency HVAC equipment
- Efficient lighting controls & systems
- High-performance building envelope and insulation

GREEN EDUCATION

The Harsco Corp FZE is engaging in an ongoing initiative to educate all of their employees, professional organizations and the general public to continuously promote awareness and increase adoption of sustainable products and design process.

OTHERS GREEN FEATURES INCLUDE

- The project installed Waterless Urinals, Low Flow Bathroom Faucets and Showers which are a standard practice in this water constrained region.
- The Project has achieved the breathing zone outdoor air ventilation rates to all occupied spaces as per the minimum rates required by ASHRAE 62.1-2004
- The project uses low emitting materials for construction

LESSONS LEARNED

- Incorporated green building requirements early on design stage
- Involvement of all the stakeholders in green building requirements to secure the certification
- Be sure to gain expert assistance in energy analysis

THE TEAM

Owner: Harsco Corp FZE

Design Consultant: Al Wasl Al Jadeed Consultants

MEP Consultant: Consistent Engineering Consultant

Contractor: System Construct LLC

Green Building Consultant: GlobalTech Safety & Environmental Consultancy

LEED AP: Alokmay Behera, Aparna Chintakunta

Commissioning Authority: Vishal Nair

Photograph Courtesy of: Harsco Corp FZE



Harsco Corp FZE

Main Office Building,
Plot No. TP030304 at Techno Park,
Jebel Ali, Dubai

- 27%** reduction in annual energy costs
- 35%** reduction in annual water use

HARSCO

LEED® Facts

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Main Office Building,
Plot No. TP030304 at Techno Park,
Jebel Ali, Dubai, UAE

Silver	59*
Sustainable Sites	16/26
Water Efficiency	5/10
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*Out of a possible 110 points

