

DP World T2 Inspection Facility and Trailer Parking at JACT0202



48	110
SUSTAINABLE SITES	9 / 26
WATER EFFICIENCY	10 / 10
ENERGY AND ATMOSPHERE	10 / 35
MATERIALS AND RESOURCES	5 / 14
INDOOR ENVIRONMENTAL QUALITY	8 / 15
INNOVATION IN DESIGN	3 / 6
REGIONAL PRIORITY CREDITS	3 / 4

Points Achieved
 Points Available

FAST FACTS

EHS Certification: Certified
 Area: 80,000 ft²
 Neighborhood: Jebel Ali Free Zone, UAE
 Construction Cost: \$120/ ft²
 Completed: Aug 2013
 Date of Certification: Oct 2015

BENEFITS

17.86% Savings on Energy Use
42% Savings on Potable Water Use
26.32% Materials Use with Recycled Content
22.78% Regional Materials Use
57.14% Savings on Irrigation Water Use
53% reduction in sewage conveyance

PROJECT BACKGROUND

A new resolution on the implementation of green building specifications and standards in the emirates of Dubai has been issued by H.H. Sheikh Mohammed bin Rashid Al Maktoum, Vice-President and Prime Minister of UAE and ruler of Dubai. As per the new resolution, effective on January 2008, all owners of residential and commercial buildings and properties in the emirates of Dubai must comply with the internationally recognized environment friendly specifications to turn Dubai into a sustainably developed city that meets the demands of best practices and benchmarks of environment friendly growth pattern.

In response to this resolution, we are proud to inform that "DP World T2 Inspection Facility and Trailer Parking at JACT0202" has been awarded with Prestigious EHS Green Building Certification established by EHS Trakhees, Government of Dubai.

The project is an Inspection facility and Trailer parking for Dubai ports World (DP World) on plot no JACT0202 at JAFZA, Dubai, U.A.E. The Organization is a winner of several international awards for quality, environmental sustainability and service standards. The organization is a leading enabler of global trade and an integral part of the supply chain. DP World operates multiple, yet, related businesses – from marine and inland terminals, maritime services, logistics and ancillary services to technology-driven trade solutions.

DP World T2 Inspection Facility and Trailer Parking at JACT0202 is a new construction project which was decided to target EHS Green Building certification during the design stage in 2011. Design development and construction completion happened during the period 2011-2013. Plot area of the project is 80,000 ft². The building uses energy from electricity and uses water from a municipal potable water system.

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PROJECT PROFILE

SUSTAINABLE SITES

- ❖ Provides Bicycle Storage
- ❖ Provides preferred parking and low-emitting and fuel-efficient vehicles on-site
- ❖ Provides car/van pool parking
- ❖ On-site parking is located under cover
- ❖ Roofing materials meet the SRI requirement avoiding heat island effect
- ❖ External lighting has been reduced to eliminate night pollution reduction

ENERGY, WATER AND MATERIAL RECOURSE CONSERVATION

Global Engineering Systems FZC as a Sustainability Consultant for DP World T2 Inspection Facility and Trailer Parking at JACT0202, has created an energy model to evaluate the effectiveness of the building's energy conservation measures, in compliance with ASHRAE Std. 90.1-2007 Appendix G methodology.

The following are the Energy Efficiency Measures incorporated in the project:

- ❖ Giving the right orient for the building reducing the solar heat gain
- ❖ Highly insulated building envelope elements
- ❖ Optimized glazing and incorporation of skylights in the warehouse and workshops
- ❖ Efficient lighting design and controls with optimal power density
- ❖ Efficient HVAC systems
- ❖ Conducted enhanced commissioning to ensure results of holistic building energy system design

The following are the water and resource conservation measures incorporated in the project:

- ❖ Uses low flow fixtures in faucets, sinks and showers and dual flush water closets
- ❖ Incorporated native adaptive vegetation and micro controlled irrigation
- ❖ Incorporated recycled content in the building materials
- ❖ Boosting the local market and reducing the foot miles by purchasing more regional materials

INDOOR ENVIRONMENTAL QUALITY

- ❖ The IAQ performance complies with the minimum requirements of ASHRAE Std 62.1-2007
- ❖ Installed air flow monitoring device for each mechanical ventilation to monitor the fresh air
- ❖ Developed and implemented a Construction Indoor Air Quality (IAQ) Management Plan in reference to SMACNA guidelines
- ❖ Use of building finishes materials with low emission of volatile organic compounds (VOC) for adhesives, sealants, paints and coatings and had installed carpet which is CRI certified

THE TEAM

Owner: DP World

Design Consultant: QHC Architects and Engineers

Contractor: Amana Contracting

Green Building Consultant: Global Engineering Systems FZC Dubai, UAE

LEED AP: S. Nagarajan, Shyam Chandra V

Commissioning Authority: Global Engineering Systems FZC Dubai, UAE

To
M/s DP World
Dubai
UAE

Ref : EHS/GB/15/2036
Date : 01/10/2015

Attn: The CLIENT

Sub: Green Building Certification

Ref: Our Final review report EHS/GB/15/2035 dated 1 October 2015
Your acknowledgement dated 01 October 2015

Further to the above, we are glad to advise you that we have completed the certification process and accordingly your project is “CERTIFIED” as per the details below

Project Name	Inspection Facility at JACT0202
Registration No	EHSCN2038

STATUS	CERTIFIED
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EHS would be communicating with your offices in due course to proceed with the certificate formalities. We strongly encourage you to work towards operational sustainability to maximize and reap the benefits of sustainable buildings. We reckon this plays a crucial role in the protection of the environment

Trakhees-EHS is committed to providing quality regulatory services to our business units and clients in protecting the environment, human health and safety. As always, we look forward to your cooperation, support and a very successful working relationship.

Should you have any queries, please feel free to approach the Green Buildings department or contact us at EHS.GreenBuilding@trakhees.ae

We wish the project team all the best.

Best Regards,

P.R.Jagannathan
Sustainability Manager
Trakhees - Environment, Health & Safety

Note

Please read the disclaimer clause of the EHS Green Building Certification program as stated in the procedure EHS-GBP-11