Crown Home Consultants
كراون هوم للإستشارات الهندسية
Egypt - Dubai - Saudi Arabia - Sudan

B+G+5 Residential + Commercial Bldg.

MR. ANWAR A M A ABDULGHAFOUR & LAMA S A A ESBAITH

JVC15CMRA005 Jumeirah Village, Dubai

LEED-NCv3 NC		
Points Achieved		**55**
Sustainable Site	26	8
Water Efficiency	10	6
Energy & Atmosphere	35	20
Material & Resources	14	5
Indoor Environmental	15	8
Innovation & Design	6	4
Regional Priority	4	4
Available Points	**110**	

FAST FACTS:

EHS In-House Certifications: Certified, LEEDv3 NC
BUA: 12,236 m^2
Location: JVC15CMRA005 Jumeirah Village, Dubai
Approx. Construction Cost: AED 36,000,000.00
Construction Completion: April 2019
Date of Certification: July 7, 2019

BENEFITS:

- 27.96% Savings on Energy Use
- 33% Savings on Potable Water Use by Water Fixtures
- 54.8% Construction Waste diverted from landfill
- 32.9% Materials Use with Recycle Content
- 35.4% Regional Materials Use

THE GREEN BUILDING TEAM

Owner: MR. ANWAR A M A ABDULGHAFOUR & LAMA S A A ESBAITH
Main Consultant: Next Engineering Consultants
Main Contractor: Corners Capital Contracting LLC
GB Consultant: Crown Home Engineering Consultants
LEED APs:
Faiz Mohammad
Aike Fatima Palagawad

PROJECT BACKGROUND:

As per the resolution issued by H.H. Sheikh Mohammed bin Rashid Al Makhtoum, Vice-President and Prime Minister of UAE and ruler of Dubai on January 2008, that all owners of residential and commercial buildings and properties in the emirates of Dubai must comply with the recognized environment friendly specifications to turn Dubai into a healthy city that meets the demands of best practices and benchmarks of pollution-free sustainable development.

In response to the above resolutions and as mandated by EHS-Trakhees, to follow the EHS-Trakhees Green Building mandatory regulation and requirements, the project has registered for the EHS In-House Certification based on LEEDv3 NC.

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RESIDENTIAL + COMMERCIAL BLDG.

DESIGN

The building owners has created sustainable facility by incorporating sustainable designs and measures which can help the occupants save energy throughout the building life span. The owner has envisaged tranquil and livable buildings dual with vitality or serenity and environmentally friendly residential building and have created the same.

LIFESTYLE

Welcome to a world of style and elegance combined with comfort and accessibility of Dubai, one of the fastest growing modern metropolis of the region. Exceptionally designed and laid out apartments located at Jumeirah Village Circle Dubai, centrally located with ready access to all the amenities and facilities to make your leisure moments memorably enjoyable and fulfilling.

G R E E N B U I L D I N G F A C T S H E E T

SUSTAINABLE SITE:

- During construction, the Construction Team has formulated an appropriate plan and implemented erosion control measures relevant to the site. Such as stabilization of site entrance, dust control by watering, temporary fencing, protection of excavated soil, proper storing of construction materials and proper segregation of constructions waste, etc. for preventing the site erosion.
- The Residential-Commercial Building has provided covered car parking spaces in basement and ground floor.
  - Assigned several Car Parking spaces for low-emitting fuel efficient (LEFE) or hybrid car.
  - Assigned drop-off area for car / van pool vehicle.
- 100% of the car parking spaces are covered by the building.

WATER EFFICIENCY:

The project installed efficient sanitary wares with low flush and flow rates which gives the project 33% water savings.

ENERGY & ATMOSPHERE:

- The project is estimated to achieve 27.96% annual energy savings through installation of the following:
  - Efficient building envelope. Wall, roof and glazing are having higher u-value.
  - Installation of Dx units with high EER value.
  - FAHUs with heat recovery having 75% efficiency.
  - Installation of LED lights
  - Installation of automatic lighting controls such as motion/occupancy sensors in the common areas and timer control for external lighting.
- Dx units have environment friendly, R410 refrigerants.
- The project's HVAC equipment & lighting controls has been commissioned and tested and balanced.
- Project is served by solar water heater to meet hot water demand.

MATERIAL & RESOURCES:

- The building owner encourage recycling of recyclable waste which are derived from daily living by providing 5 recycled waste bins for paper, cardboard, metal-can, plastic & glass storage.
- The Construction Team had formulated and implemented proper Construction Waste Management Plan and has successfully diverted 54.8% waste construction from landfill.
- The Construction Team has successfully monitored the construction materials used in the project:
  - 32.9% Construction Materials are having Recycled Content.
  - 35.4% Construction Materials has been harvested, manufactured and procured locally.

INDOOR ENVIRONMENTAL QUALITY:

- 100% of the project indoor space has been provided with fresh-air meeting requirements of ASHRAE 62.1-2007.
- 100% Non-Smoking Building (inside and outside building).
- Densely occupied spaces have been provided with CO2 sensors and all FAHUs has been provided with air flow monitoring devices with alarm system.
- 100% Building flush-out has been done simultaneously with commissioning.
- 100% of the Adhesives & Sealants and Paints & Coatings use in the project is complying with LEED requirements.
- FAHUs are installed with F7/ MERV 13 rated filter.
- 10ft travel length roll mat has been installed in the main entrance of the building to filter out dust from incoming building users.