



CASE STUDY: PRIMANTI RESIDENCES



KEY PARAMETERS

Occupancy Type	Homes
Completed	December 2011
Location	Gurgaon
Green consultant	En3 Sustainability Solutions
Rating System	IGBC Green Homes
Rating Achieved	Precertified - Gold

Primanti is a 36 acre residential development comprising of apartments and villas in Sector 72 of Gurgaon. This development has been Precertified Gold under IGBC Green Homes Rating System. The project is always striving to protect the environment and has taken enormous efforts along with En3 to implement various sustainability and green measures within its interior space.



SITE SUSTAINABILITY FEATURES

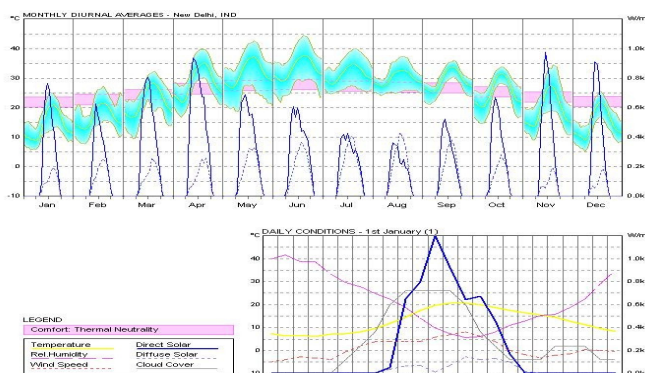
- The project is in ideal location with close proximity to public transportation thereby minimizing transportation pollution and strain on local infrastructure, protects green-field site and preserve habitat and natural resources.
- 75% of the net exposed roof area (i.e. 28,553.253 sq m) shall be covered with high reflective materials
- The project intends to provide battery charging points for 10% of the total car parks in an effort to reduce emissions from conventional fuels
- The project is implementing features for the differently abled like preferred parking spaces, Braille facility in lifts, toilets in common areas and ramps at suitable locations.
- The project proposes to plant drought tolerant species in 38% of the landscaped area which would be 43645 sq m.
- The project also proposes to have 36% turf area in the landscape.
- The project will prepare descriptive guideline for the occupants of the project which would include a brief on sustainable design, construction and operational features of the building. The project team has provided a list items (i.e. green features implemented, do's & don'ts, etc.,) which will be included in the guidelines.

WATER EFFICIENCY

- Water plays an integral part in the greening process of Primanti Homes. The project will harvest 100% of the rainwater runoff from roof by constructing 41 recharging pits having a capacity of 76 cu m each.
- The project is proposing to install sewage treatment plant of 9,00,000 Liters per day capacity based on MBBR technology to recover the effluent (recycled water) of quality suitable for use as make up to the cooling towers of the air conditioning system, landscaping and flushing.
- 100% of treated grey water will be used for landscaping purposes.
- The project will install water meters will be installed for measuring treated grey water consumption, landscape water consumption, municipal and bore well water consumption.
- The project has reduced potable water use by 33% from the calculated baseline design fixture performance requirements established by the Energy Policy Act of 2005 through the installation of low flow urinals, showers, kitchen faucets, flush water closets

ENERGISING THE BUILDING

- Provision of high reflective material on roof, high performance glazing, efficient HVAC design, VRV unit with R-410a refrigerant in the building which will contribute to significant HVAC energy savings
- Selection of CFC free and HCFC free refrigerants avoids global warming and ozone depletion.
- The project intends to install energy meters for external lights, municipal water pumping, grey water pumping and water pumping for landscaping.
- The project will install energy efficient external lighting fixtures which are at least BEE star rated and whose LPDs does not exceed 0.15 W/ sq ft.
- All the external lighting will have daylight cut off controls so that they can be automatically turnoff with arrival of daylight. The interior light fixtures that are in the common areas which are exposed to the outside or close to the external glazing shall be fitted with dimmers/daylighting sensors to turn off in case there is sufficient daylight.





RESOURCE MANAGEMENT

- The project has intends to divert 75% of the on-site generated construction waste from landfill.
- The project intends to install 20 organic waste converter units to treat 100% of the organic waste generated from the homes.
- The project intends to source materials with recycled content such that the recycled content constitutes to at least 20% of total materials cost.
- The project will source local materials such that at least 75% of the total material value is manufactured within a distance of 500 km from the project site.
- The project will reuse salvage materials such that it constitutes 5% of the total material value.
- The project will use Forest department certified wood for at least 75% of the new wood requirement

INDOOR ENVIRONMENTAL QUALITY



- In order to support enhanced IAQ and long-term well-being of all occupants, the project will provide 30% more openable area than the baseline standard.
- Smoking will be banned in common areas of the apartment thereby ensuring the health and safety of all its occupants.
- Adhesives, paints, carpets and composite wood products with a low VOC content have been used to enhance the indoor environment for all home owners.
- 75% of regularly occupied spaces will have daylighting.

En3 would be glad to answer any queries or questions you have on any green or sustainability related topics. Feel free to contact us at info@en3online.com and for more information visit us at www.en3online.com.