

## Environment Engineering Initiatives

Environmental Engineering department, Sobha Developers is constantly striving to keep up the good practices of Environment, Health & Safety in construction sector. It is indeed a great honor that we have been awarded a **Certificate of Recognition** for our efforts in sustainable practices in **Energy Symposium & Vendor's Conclave – 2011** organized by the "**Centre for Sustainable Development**". We were the only realty company to be recognized on the occasion.



## Water Management

Water is a precious resource and to ensure its judicious use and conservation, the following best practices are followed in all our projects.

**Sewage Treatment Plant** - STP is installed in our projects to treat the wastewater generated from the apartments. Treated water of STP is used for flushing, gardening and other secondary urban uses. This reduces the demand for fresh water.

The various technologies used in STP are Conventional Activated Sludge Process, Membrane Bio Reactor, Sequential Batch Reactor etc. In-house team is responsible for its design, installation and commissioning of the STP.

**Rain Water Harvesting** - Rain water-harvesting system is provided to conserve water and to reuse rain water. During monsoons, rain water is collected and stored in tanks and reused for domestic purposes. During monsoons, this saves 50% to 60% of the water consumed. Ground water is recharged by diverting the run-off water from paved areas of the building to rain water percolation pits through external drains thereby recharging the water table.

**Dual Plumbing System** – STP treated water is reused for flushing after tertiary treatment by dual piping system. Water efficient plumbing fixtures which consume less water are also used for water conservation. Eg: Dual Flush, Low flow fixtures etc.

## **Waste Management**

Waste is an unavoidable outcome of any process but effective management practices help in minimizing waste generation and controlling the pollution caused by its disposal. Waste management practices are based on the Reduce, Recycle and Reuse principle. Some of the waste management practices are

- Segregation of waste at the source into organic and inorganic portions from apartments post handover.
- Inorganic materials, recyclables (Wooden pallets, plywood, runners, cardboard boxes, cement bags, jute bags, aluminum cut pieces, steel cut pieces, PVC pipes, electrical and plumbing etc), surplus building materials are recovered & given to authorized recyclers for recycling and reusing.
- Organic waste converter is installed to convert organic waste into manure which is used for landscaping. It reduces the manure procurement cost and also avoids burden and costs associated with disposal of such waste.
- Hazardous waste is disposed through authorized recyclers.

## **Energy Conservation**

We are focused on Energy conservation practices and provide energy efficient solutions to our customers thereby reducing carbon emission. Some of the best practices followed in Sobha are

- Continuous focus on highly energy-efficient lighting system design and usage of CFL/FTL/metal halide fittings.
- Solar lighting is used in all common areas and solar heating is deployed, thereby reducing the use of conventional energy.
- Internal and external electrification is designed keeping in mind the need to reduce energy loss and running costs.
- Highly efficient transformers, DG sets and other equipment are installed with an effective, preventive and predictive maintenance system to protect all energy-intensive equipments.

## **Green cover / Landscape**

Exquisite landscape is provided in all our projects. This increases the carbon sequestration and provides cool atmosphere with good aesthetics and live able environment.