

# Greenolution *Digest*

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## COVER STORY

1

## Green heroes take up biodiversity conservation!



## GLOBAL CASE STUDY

## Green Buildings

5

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## GREEN CLICK

8

## GREEN QUIZ

7



## COVER STORY

# Green heroes take up biodiversity conservation!



Tata Power has always been committed to preserve biodiversity and co-existed with nature. Celebrating the biodiversity with full zeal, Tata Powerites pledged to conserve the eco-systems around them by planting trees which support the bird & animal symbiotic relations.



Following are some of the efforts by our Green Brigade:



Innovative organic vegetable farming at roof top at home by Mr Biju k, Bangalore, Tata Power Solar





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Utilising the solid waste generated from kitchen, **Mr Abdul Salam, from Carnac Bunder-Tata Power**, with his family has been able to nurture a small vegetable garden of his own, effectively utilising waste in a sustainable manner creating a small eco-system in itself.





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## Team 'Ashwath', CGPL envisions Green Mundra

The concept of 'Green Companions for Tree Plantation' has been initiated at CGPL with the vision of involving employees in making Mundra a cleaner and greener place. Team Construction Department, CGPL as team 'Ashwath' had undertaken a massive plantation drive at the area near the 400 KV switchyard, under the leadership of Mr. Owen Doulton, General Manager, Construction. About 700 saplings have been planted in two phases.



Mr. Doulton, GM Construction encouraging his team member



Mr. Khetwani, DGM Construction preparing for planting sapling



Members planting saplings behind 400 KV Switchyard



Team Ashwath – Green Champions

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## The Bird Lover's Club!



Mr Trupesh Patel, CGPL feeds birds with grains & water



Mr Pragnesh Satapara, CGPL has a chirpy balcony



A pair of Sepoy Bulbuli are a regular visitors with Ms Monolina Bhattacharya, Jojobera



Mr Indraneel Maitra, Noida, too feeds the birds around his house



## GLOBAL CASE STUDY

### Green building practices



**G**reen building practices are increasingly being used in new and retrofitted developments, mainly for energy and water efficiency and to reduce hazardous waste.

The Orchid Hotel located in Mumbai, India, is a prime example of a "green" hotel that attracts up-scale clientele and provides state-of-the-art technology and luxury in an "environmental friendly context" (Jones, 2002). The hotel is made of re-usable wall panels made from fertilizer waste and environmentally friendly cement called "Portland Pozzolana Cement" and "autoclaved aerated concrete" to deplete the topsoil and provide thermal insulation, which both use a large percentage of fly ash (Jones, 2002). In terms of architecture, The Orchid

Hotel has positioned some of their rooms to avoid facing external cements to prevent heat load, constructed ceilings to invite natural light into the building, in addition to a rooftop swimming pool to protect the building from heat. The hotel has also taken into consideration energy-savings and reducing their air pollution by installing a compact fluorescent light systems to reduce energy, wireless key card readers to turn off unnecessary lighting and CFC-free (chlorofluorocarbons) refrigerators. The hotel has also installed a modified tank to their air conditioners in order to store energy during off-peak hours and reduce overall use of energy, as well as installed scrubbers in their chimneys to reduce the fumes released in the air. With the hotel being situated in a



Orchid Hotel, Mumbai

large city, it is an exceptional example of how a city hotel can successfully go green using the 'reduce, reuse, recycle' method (Jones, 2002).

Six Senses Hotels and Resorts use materials from renewable sources, such as wood, adobe, mud and thatch.

One prominent example of green construction is the **Six Senses Hua Hin Spa, Thailand**, which is made of clay-like mud, straw and rice husks. They are also launching a new brand that will be carbon positive and LEED Gold Standard certified. It also plans of making its company's flagship resort, Soneva Fushi, a zero-carbon emitting resort by 2010 (Ernst and Young, 2008).

**The Kingfisher Bay Resort** located on Fraser Island in Australia was opened in 1992 and built to the highest environmental design and sustainability standards. Buildings carefully constructed around trees were designed to be energy efficient and are

restricted to two levels to promote environmental harmony.

It is also important to design the hotel with the community and its culture in mind. **The Al Maha Desert Resort and Spa** pioneered environmentally friendly lodging in the Middle East. The resort is located within the 225 square kilometers of the Dubai Desert Conservation Reserve and was awarded by National Geographic as one of the world's best ecotourism models. It was constructed to represent a traditional Bedouin camp and embraces the indigenous culture, wildlife, desert habitat and environment of the region (Ernst and Young, 2008).

Even using only environmentally sensitive paints and building materials will significantly reduce the impact on the environment. Initiatives such as green roofs and using natural materials also significantly reduce building and energy cost



The Kingfisher Bay Resort, Fraser Island, Australia



## GREEN QUIZ

# Quiz

**1** The Gir forest was declared a protected area to ensure the safety of this animal and to protect its last habitat. This forest in Gujarat is famous for

- A. Lion
- B. Tiger
- C. Leopard
- D. Elephant

**2** One of the following bird species was thought to be extinct but has been rediscovered in India by the BNHS ( Bombay Natural History Society) in 2002. Name the species.

- A. Pink-headed Duck
- B. Himalayan Mountain Quail
- C. Forest Owlet
- D. Masked Finfoot

**3** Mangroves are salt-tolerant forest ecosystems. Name the largest mangrove forests in the world that constitute 7% of the world's mangroves, house a variety of wildlife sanctuaries, and are also a potential site to harness tidal energy.

- A. The Sunderbans in West Bengal
- B. Muisue Forests in Ecuador
- C. The Mekong Delta in Vietnam

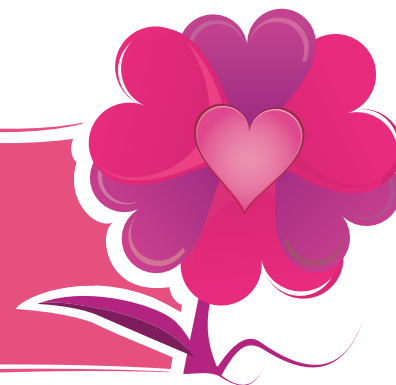
**4** This state with the largest forest cover in the country is also the second-richest in mineral deposits. Its forests are being destroyed due to effects of open-cast mining of coal, iron ore, bauxite, and copper. Name it.

- A. Uttar Pradesh
- B. Himachal Pradesh
- C. Arunachal Pradesh
- D. Madhya Pradesh

The winner for last issue

**Paresh Kadam, Tata Power SED**

Congratulations!





## GREEN CLICK

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**Mr.M Venkatesh Kini**, *Technopolis, Mumbai*



**Ms Utkarsha H Kachare**, *Trombay*



**Mr.Narayan Sirdesai**, *Lower Parel, Mumbai*



**Charu Gupta**, *Bombay House, Mumbai*