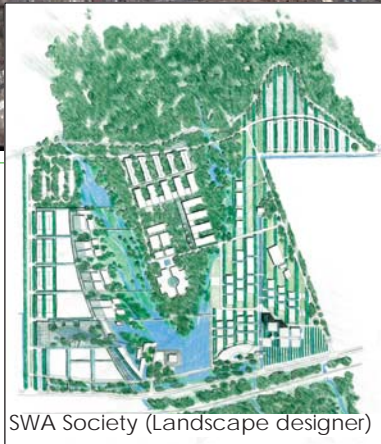


# Reliance Corporate Park

## Hydraulics and pollution studies



SWA Society (Landscape designer)

**Country**  
India

**Client**  
Reliance

**Date**  
2006-2007

### Sogreah's services

- Hydrological and pollution audit
- Detailed hydraulic and pollution studies

### Context

The Reliance Industries Limited Group (RIL) has taken the decision to construct a company park on the NOCIL site, located in the new Navi Mumbai metropolitan area. The purpose of the company park is to supply the RIL Group with the instruments for guiding, monitoring and developing all its activities inside India and for export.

The Reliance Corporate Park (RCP) is developing various activities of the Reliance Industries Limited Group:

- The Group's registered office, that will need to be installed within a group of buildings, essentially consisting of twin towers (Corporate Area).

- A Knowledge Area, dedicated to the company's leadership and to the development of the retail activity: University, Data Centre and Research Centre.
- A Retail and Public Area with a mall, a public temple and a hotel. Various tertiary units, which might contain other activities of the Group.
- All the facilities allowing the park to live and function on a daily basis.

### Objectives

The major objectives are:

- Under optimal working and environmental conditions, receive some 25,000 people on a daily basis;

- Give the RIL Group a company image to match its potential and development ambitions;
- Provide each of the entities present on the site with highest performance working tools, at the leading edge of technology;
- Promote the efficiency of staff and their relaxation and leisure activities within a pleasant and healthy setting, respecting the environment, designed to ensure sustainable development on a continuous basis.

### Services provided by Sogreah

#### Mission 1: hydrological and pollution audit

- Hydrology study.

GNB/KDS/ebd/0108

- ◆ Surface Water Management: possible uses of surface water (fire hydrants, landscape irrigation), needs for storage dams, solutions for the collection and storage of surface water for fire hydrants, irrigation, water chanel, lakes, ...
- ◆ Surface water quality: assessment of surface water pollution sources and risks and solutions for quality preservation.
- ◆ Soils and underground water quality: collection of data on the previous industrial use of the selected site, soils and water quality campaigns and remedial measures.
- ◆ Review the Master plan / Landscaping plan.

**Mission 2 : Detailed hydraulic and pollution studies**

- ◆ Hydrology / hydraulics:
  - collection and statistical analysis of all meteorological and hydrological data necessary for the hydraulics calculations: seasonal distribution of rains and discharges, water levels, peak floods, dry season flows (discharges and volumes);
  - 1D modelling of flows;
  - flows distribution on the Project site during the dry and wet seasons.
- ◆ Surface water management:
  - conceptual design of flood protections (dykes, landscaping, riverworks);
  - conceptual design of surface

water collection and storage equipments;

- remedial solutions for surface water quality preservation.

- ◆ Surface water quality:
  - detailed assessment of surface water pollution sources and risks;
  - conceptual design of solutions for quality preservation.
- ◆ Soils and Underground Water quality:
  - preparation and co-ordination of contractors for site investigations (e.g. fieldwork contractors, laboratory);
  - assessment of environmental liability and associated risks;
  - conclusions and recommendations.