Development of a GRIHA rated Multi-user Commercial Green Building project, Sem III, 2014

The objective of this studio is to create a building project which has minimal consumption of energy and other resources, while reducing the impact of the building during its entire life cycle. The design studio challenges students to make their buildings GRIHA compliant and up to the highest level possible – i.e. five star rating.

The site is the current location of Phoenix Mall, Kurla, Mumbai. It is in the air funnel area of airport thus height restriction is one of the main criteria that is to be considered during designing of the building. Site has existing trees and bore wells and a natural gradient towards south. It is also well connected with remaining part of the city by public as well as private means of transport.

Project:
The design objectives should result in an environmentally sustainable building which should integrate the following design elements/ issues:

- Geography, local conditions and Climatic conditions
- Development control legislations
- Zero pollution approach,
- Self-sufficiency in power- water requirement, and use of Passive systems in Design,
- Treatment/disposal of effluent-waste etc.,
- Building materials, appropriate technology,
- Case study/ies to substantiate the design philosophy
- Impact of the development on adjacent areas,
- Evolving Design Brief for the Project

The final outcome of the architectural design process will include Architectural drawings & relevant details, case study/ies, reports for the research/documentation for the project and should also mention what GRIHA rating the design will attain.