Sustainable Design of Amenities at Sanjay Gandhi National Park (SGNP), Mumbai, Sem I, 2014

Design Brief: Borivali National Park is the miraculously preserved green oasis in the center of urban sprawl. The rich and diverse forest holds more than one thousand species of plants, 40 species of mammals, 251 of birds, covering migratory, land and water birds, 38 species of reptiles, 9 species of amphibians besides a large variety of fishes.

The park attracts huge number of tourists for the various attractive features provided by the Park. But, tourists complain about the lack basic amenities like toilets, drinking water outlets and signages.

Thus the Design Studio was aimed to design the following:
- Entrance + Ticket counter (improvisation)
- Designated Parking lot
- Signages
- Street furniture’s
- Restaurant / Eateries
- Botanical Nursery
- Amenities – Toilets / Drinking water / Dustbins
- Tent facility
- Watch towers / Viewing decks / Observation decks / Machans
- Nature interpretation centre
- Workshops / Exhibition area – Activity
- Information kiosk / Display area – Medical help / Audio visuals
- Electric charging points for vehicles running on electricity
- Forest officer patrolling points / Security check post
- Rented cycles – Cycle stand

Each group is supposed to consider all the above mentioned facilities for their design.
Aspects to be considered for the design:

- Geography, local conditions and Climatic conditions
- Zero pollution approach
- Self-sufficiency of resources – Energy & Water
- Use of Passive systems in Design

Appropriate building materials & construction technology