

### **1. Design Phase**

- Charrette

At the beginning of the project, collaboration of all project stake holders joined the discussion about how to develop environment-friendly.

- Restoration of woodland

Originally hilly woodland spread around here.

One day a decision to develop this woodland was made to construct buildings.

What happened to many trees around here?

Those trees were temporarily planted in a different place during construction.

Then the trees were put back when the buildings were completed.

### **2. Construction Phase**

- Under construction

- ① Environmental education to the constructors at the first stage
- ② Use of an bicycle to move within the construction site
- ③ Use of construction machinery that emits less exhaust gas and noise
- ④ Construction wastes sorting
- ⑤ Spreading excavated soil in the site
- ⑥ Collecting micro climate data on site by measuring the temperature, humidity, earth temperature and rainfall in order to make use of it
- ⑦ Use of steel deck instead of rainforest wood for form board
- ⑧ Delivery with minimum packing
- ⑨ Utilization of harvested rainwater for cleaning, washing cars and flushing toilet.
- ⑩ Use of energy saving equipments for the on site house

### **3. Preparation for the future**

- Photovoltaic system

Foundation base is provided on the roof for photovoltaic panels

- Recycling system of gray water

Piping is provided for the future adaptation.