



## “Green spaces” –Office building for Kalptaru builders

<b>Location</b>	: Nasik, Maharashtra
<b>Site Area</b>	: 283 Sq.m.
<b>Built up area</b>	: 253 sq m
<b>Typology</b>	: Commercial
<b>SVA GRIHA rating</b>	: 4 star

The following strategies were adopted to reduce the building impact on the natural environment:

### **Landscape**

- Almost 55% of the total open area on site is soft paved and/or shaded under trees.
- No trees were cut during construction of the building.

### **Energy**

- Building envelope and layout is designed to enhance natural ventilation inside the building.
- Over 94% of total living area falls under daylight zone.
- Fenestration design of the building reduces the direct incident heat penetration by about 48%, compared to SVAGRIHA base case for Nashik
- Lighting power density is 4.01 W/sq.m.
- Solar photovoltaic panels of size 1kWp have been installed at the office.
- All air-conditioning systems, fans and geysers comply with at least BEE 4-star efficiencies.

### **Water and waste**

- Use of low-flow fixtures reduces the building water demand by almost 66% compared to SVAGRIHA base case.
- Rainwater storage tank of 65000 litre capacity has been installed on site to capture and utilize rainwater.

### **Materials**

- Use of low-VOC and lead free paints helps in maintaining good indoor air quality.
- Over 75% of interior finishes are low-energy like rough granite stone, plywood etc.

### **Lifestyle**

- There is provision for basic amenities like grocery store, pharmacy etc. in vicinity of the project.

### **Integrated Design Team:**

<b>Client</b>	: Kalptaru builders, Nasik
<b>Architect</b>	: Mr. Sanjay Patil, Nasik
<b>Green Building Design and Certification</b>	: VK:e Environmental, Pune