



### SAARRTHI Shimmer-N-Shine

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|------------------------------|---|---|
| Location                     | : | SAARRTHI Shimmer-N-Shine, Survey No. 19, Hissa 14-15-17-18-19, Hingane-Khurd district, Pune |
| Site Area                    | : | 7437.30 m <sup>2</sup>  |
| Built up Area                | : | 12859.84 m <sup>2</sup>   |
| Air-conditioned Area         | : | 7221.88 m <sup>2</sup>  |
| Non Air- conditioned Area    | : | 5637.96 m <sup>2</sup>  |
| Energy Consumption Reduction | : | 46.31% reduction in energy consumption compared to TERI GRIHA/GRIHA benchmark               |
| EPI                          | : | 140 KWh/ m <sup>2</sup> /year   |
| GRIHA provisional rating     | : | 2 Stars   |
| Year of completion           | : | 2015  |

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

- **Sustainable Site Planning:**
  - Hard paving was limited to driveways and parking sheds only since the site had less green areas. The native tree species provided along the site boundary act as a barrier for noise from the busy main road.
- **Reducing water consumption:**
  - Water consumption was reduced by planting native trees, installing low flow fixtures in building, rainwater harvesting on site & water from STP for landscape and flushing.
- **Reducing energy consumption (compared to GRIHA benchmarks) while maintaining occupant comfort:**
  - » For achieving visual comfort: Shading devices such as chajjas were designed to prevent disturbing glare and to secure maximum daylight.
  - » For achieving thermal comfort: Use of AAC blocks, roof gardens, natural ventilation and low - E glass has helped in achieving thermal comfort.
- **Renewable energy technologies installed on site:**
  - Solar water heaters are installed on site to provide hot water in the building thus reducing the energy bills.
- **Use of low energy materials:**
  - Low energy materials such as low - E glass for windows, fly ash in RMC and AAC blocks is used thus reducing the consumption of steel.

### Integrated Design Team:

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|---|---|---|
| Client                                  | : | Mr. Swapnil Shende, SAARRTHI Group, Pune                      |
| Project Coordinator                     | : | Mr. Mandar Bokil, SAARRTHI Group, Pune                        |
| Principal Architect                     | : | Mr. Kedar Kulkarni, Abhikalpan Architects and Planners, Pune  |
| Landscape Architect                     | : | Ms. Vandana Labba, Design Terra, Pune                         |
| Project Management Consultant           | : | Mr. Santosh Dimple, SAARRTHI Group, Pune                      |
| Structural Consultant                   | : | Mr. Hansal Parikh, Hansal Parikh & Associates, Pune           |
| Electrical Consultant                   | : | Mr. Mahesh Badade, Siddhivinayak electrical consultants, Pune |
| Green Building Design and Certification | : | Ms. Pranati Shroff, Sprout, Pune                              |