



## HPCL, Bharatpur

<b>Location</b>	: Bharatpur, Rajasthan
<b>Site Area</b>	: 14,000 sq.m.
<b>Built up area</b>	: 640 sq.m.
<b>Typology</b>	: Commercial/Office
<b>SVA GRIHA rating</b>	: 3 star

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

- Landscape**
  - 10 new native trees have been planted on site.
- Energy**
  - Over 70% of total living area falls under daylight zone.
  - Lighting power density of the project is 7.35 W/sq.m, which is lower than the ECBC specified LPD limit, of 10.80 W/sq.m for offices.
  - All air-conditioners and fans installed in the residence are BEE 5 star rated.
  - Thermal efficiency of the building envelope is 166 W/sq.m.
- Water and waste**
  - Use of low-flow fixtures reduces the building water demand by 53.65% as compared to SVAGRIHA base case.
  - Rainwater storage tank of 12 kL capacity water has been constructed in the building to capture rainwater; surplus rainwater is recharged in groundwater aquifer through filtration bed.
- Materials**
  - Use of low-VOC and lead free paints has been used to maintain good indoor air quality.
  - The project has demonstrated a reduction in embodied energy of over 42.58% against the SVA GRIHA base case by using hollow concrete blocks.
  - Over 70% of interior finishes are low-energy.
- Lifestyle**
  - A dedicated toilet and resting area has been provided for service staff in the office building.
  - The project has taken initiative to spread green building awareness by installing a board at the entrance which lists all the green building features incorporated in the project.
  - Waste generated from the building (Dry waste, wet waste, paper waste, organic waste, electronic waste) is properly segregated on site.

## Integrated Team

<b>Client</b>	: Hindustan Petroleum Corporation Ltd.
<b>Developer</b>	: Worley Parsons India Private Ltd.

