

HPCL Control Room Building, Rewari-Kanpur pipe line project, Mathura, Uttar Pradesh

Location	: Mathura, Uttar Pradesh
Site Area	: 2225.88 sq.m.
Built up area	: 621.75 sq.m.
Typology	: Commercial/Office
SVA GRIHA rating	: 3 star

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

Landscape

- 100% of existing mature trees have been preserved on site.
- 10 new trees have been planted on site.

Energy

- Over 67% of total living area falls under daylight zone.
- The LPD of the project is 6.96 W/sqm which is lower than the ECBC specified LPD limit of 10.80 W/sqm for offices.
- The thermal efficiency of the building envelope is 145.90 W/sq.m.
- VRV system has been installed in the building. Energy efficiency ratio of the same is more than that of a 5 star BEE rated air-conditioner.

Water and waste

- The project has reduced building water demand by 53.65% below the SVAGRIHA base case through the use of low-flow fixtures.
- Rainwater storage tank of 19000 litre capacity and recharge pit is constructed on site to capture and utilize rainwater. Excess rainwater is recharged in ground water aquifer after passing it through a filtration system.

Materials

- PPC has been used for 100% structural, masonry and plaster works.
- Low-VOC and lead free paints have been used to maintain good indoor air quality.
- More than 70% of the panelling, false ceiling and in-built furniture installed in the building are low energy.
- The project has demonstrated a reduction in embodied energy by 41.58% by using Hollow Concrete Blocks for external walling application.

Lifestyle

- All basic amenities like park, grocery store, convenience store, pharmacy etc. are in close proximity to the site.
- There is a provision of dedicated rest room and toilet for the service staff within the site.
- The project has taken environmental awareness initiative by displaying all the green building measures taken by the project on a board installed at the entrance of the building.
- Ramps have been provided at the entrance of the building for providing accessibility to differently abled persons.
- The project has provided a septic tank within the site boundary.

Integrated Team

Client	: Hindustan Petroleum Corporation Ltd.
Developer	: Worley Parsons India Private Ltd.

