



Pick N Drive Petrol Pump, Meera Bagh, New Delhi



Location	: New Delhi
Site Area	: 1,080 m ²
Built up Area	: 100 m ²
Typology	: Office building
Rating Category	: SVA GRIHA Rating
Version	: Version 2.2
Year of Award	: 2023
Client	: HPCL Delhi
Integrated Design Team	: Ar. Harish Saini
Green Building Consultant	: Vaastu Consultants

The following strategies were adopted by the project team to reduce the building impact on the environment:

Sustainable Site Planning:

- 54.36% of the total paved area on site was shaded by trees.
- 12 new native trees have been planted on site.
- More than 50% of the external wall surface area had buffer spaces, such as service areas.

Energy:

- 100% of the total living area is day-lit.
- LPD of the project is 4.83 W/m², which is lower than the ECBC specified limit of 10.80 W/m² for office buildings.
- BEE 5-star rated air conditioners and fans have been installed.
- Solar photovoltaic system of capacity 10 kWp has been installed.

Water Management:

- Reduction of 57.57% from the SVA GRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Reduction of 94.58% from the SVA GRIHA base case has been demonstrated in landscape water demand by using native trees.
- Rainwater storage tank of 1,200 litres capacity has been constructed on site.

Sustainable Building Materials:

- Reduction of 55.47% in embodied energy by using PPC for slab and flyash bricks in masonry walls.
- Granite and polished glazed vitrified tiles have been used as flooring material.

Lifestyle:

- Most of the basic amenities such as grocery, ATM, park, pharmacy, restaurant, community centre, metro station, theatre and gym are in close proximity to the site.
- Environmental awareness signage's have been displayed at multiple locations.
- Electric charging point has been provided to encourage the use of electric vehicles and reduce carbon emission.