Bina Panki pipeline project. Panki receipt terminal, Kanpur

SVA GRIHA

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4 STAR

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

Sustainable Site Planning:
- 69.07% of the total paved area on site was shaded by trees.
- More than 200 new native trees have been planted on site.

Energy:
- 61.20% of the total living area is day-lit.
- LPD of the project is 5.20 W/m^2, which is lower than the ECBC specified limit of 10.80 W/m^2 for office buildings.
- VRV system was installed in the project which is equivalent to BEE 5-star rated air conditioner.
- Thermal efficiency of the building envelope is 304.85 sq.ft/TR which is more than the higher threshold 275 sq.ft/TR.

Water Management:
- Reduction of 64.52% from the SVA GRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Reduction of 55.72% from the SVAGRIHA base case has been demonstrated in landscape water demand by using native trees.
- Rain water storage tank of capacity 5,400 litres has been constructed on site.

Sustainable Building Materials:
- 100% of interior paints used in the project are low VOC and lead- free.
- Granite, vitrified tiles, ceramic tiles and engineered wood have been used as flooring material.
- Mineral fiber boards has been used as false ceiling material.

Lifestyle:
- Most of the basic amenities such as grocery store, ATM, park, pharmacy, restaurant, and community centre are in close proximity to the site.
- Environmental awareness posters have been displayed at various locations.

Location	: Kanpur, Uttar Pradesh
Site Area	: 4,388 m^2
Built up Area	: 1,275 m^2
Typology	: Office
Rating Category	: SVA GRIHA Rating
Version	: Version 2.2
Year of Award	: 2022
Client	: Bharat Petroleum Corporation Limited
Green Building Consultant	: I-Nat Studio LLP