



Rudraksha International Cooperation and Convention Center, Varanasi, U.P.



Location	: Varanasi, Uttar Pradesh
Site Area	: 13,196.40 sq.m.
Built up Area	: 4,573.80 sq.m.
Typology	: Commercial
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2024
Client	: Ministry of Housing & Urban Affairs
Integrated Design Team	: Oriental Consultants Global Co., Ltd. and Nikken Sekkei Ltd.
Green Building Consultant	: Godrej Green Building Consultancy Services

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

Sustainable Site Planning:

- Air pollution control measures such as site barricading, wheel washing facility and covering of fine construction materials were strictly adhered to during construction
- 91 new trees of native species were planted on site.

Energy:

- EPI reduction of 43.74% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 109 kWp has been installed.

Occupant Comfort:

- 55.86% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- 100% of paints, adhesives and sealants are low VOC.

Water Management:

- Reduction of 63.11% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.

Sustainable Building Materials:

- Pozzolana Portland cement with more than 25% fly ash content have been used in plaster and masonry mortar.
- AAC blocks with 40% of fly ash content have been used for walling in the project.
- Granite and kota stone have been used as flooring materials in the project.
- Calcium silicate and gypsum false ceiling have been used as false ceiling in the project.

Waste Management:

- Centralized waste collection facility has been provided in the project.
- Multi-colored bins have been provided for segregation waste.