



Construction of New ATC Tower cum Technical Block, Fire Station and other associated works at Devi Ahilyabai Holkar (DABH) Airport, Indore, Madhya Pradesh



Location	: Indore, Madhya Pradesh
Site Area	: 10,884.61 sq.m.
Built up Area	: 5,638.77 sq.m.
Typology	: Commercial
Rating Category	: GRIHA Provisional Rating
Version	: Version 2015
Year of Award	: 2025
Client	: Airports Authority of India, D.A.B.H. Airport, Indore
Green Building Consultant	: D2O

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, water sprinkling on the unpaved roads and exhaust height of DG set above average human height were strictly adhered to during construction
- Total 611.31 cum soil was excavated and same was reused on site for landscaping.

Energy:

- EPI reduction of 51% from the GRIHA base case has been demonstrated through the integration of high-performance systems.
- Solar photovoltaic system of capacity 60.48 kWp has been installed.

Occupant Comfort:

- More than 75% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- Low-VOC paints, containing less than 50 g/L of volatile organic compounds and free from lead, have been utilized in the project.

Water Management:

- Reduction of 62.61% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Reduction of 53.26% in landscape water demand from the GRIHA base case has been achieved through the plantation of native shrubs.
- Moving Bed Biofilm (MBBR)-based STP with a capacity of 30 KLD was installed in the project.

Sustainable Building Materials:

- Pozzolana Portland cement with more than 25% fly ash content were used in structural concrete, plaster and masonry mortar.
- Flyash bricks with 40% of fly ash content have been used for walling in the project.

Waste Management:

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