



# IOLPL LNG TERMINAL ADMINISTRATIVE OFFICE, Ennore



<b>Location</b>	: Ennore, Tamil Nadu
<b>Site Area</b>	: 27,385 sq.m.
<b>Built up Area</b>	: 3,158.04 sq.m.
<b>Typology</b>	: Commercial
<b>Rating Category</b>	: GRIHA Provisional Rating
<b>Version</b>	: Version 3.1
<b>Date of Award</b>	: 2021
<b>Client</b>	: IOLPL LNG TERMINAL, ENNORE
<b>Integrated Design Team</b>	: VIRENDER SHARMA AND ASSOCIATES
<b>Green Building Consultant</b>	: Passive Design Consultants

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

#### **Sustainable Site Planning:**

- Air pollution control measures such as site barricading, wheel washing facility and other appropriate measures were strictly adhered to during construction
- All the utility corridors are consolidated along the proposed roads in order to minimize unnecessary cutting and trenching.

#### **Energy:**

- 83.2% of the regularly occupied spaces are day-lit and meet the daylight factor as prescribed by NBC 2005.
- EPI reduction of 86.18% from the GRIHA base case has been demonstrated through the integration of high performance systems.

#### **Water Management:**

- Reduction of 60.6% from the GRIHA base case has been demonstrated in the building water demand by installing efficient low-flow fixtures.
- Hessian cloths were used for curing of columns and ponding technique was used for curing of slabs.

#### **Renewable Energy Technology installed on site:**

- Solar photovoltaic system of capacity 7.8 kWp has been installed.
- Solar hot water system of flat plate collector of capacity 600 lpd has been installed.

#### **Sustainable Building Materials:**

- Flyash bricks have been used for walling in the project.
- 100% of paints, adhesives and sealants are low VOC.
- 92.4% of the materials used for internal doors, windows and frames are low energy.

#### **Waste Management:**

- Multi-colored bins have been provided for segregation of dry & wet waste.
- Central waste collection area has been provided for storage of segregated waste on site.