

# Office Building, Safdarjung Enclave, New Delhi

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| **Location** | : | A-2/18, Safdarjung Enclave, New Delhi |
| **Site Area** | : | 418.27 $m^2$ |
| **Built up area** | : | 998.39 $m^2$ |
| **Typology** | : | Office |
| **SVA GRIHA rating** | : | 2 star |

The following strategies were adopted to reduce the building impact on the natural environment:

- **Landscape**
  - 4 new trees of native/naturalized species have been planted on site.
- **Energy**
  - Good design ensures that over 71% of total living area falls under daylit zone.
  - Efficient interior artificial lighting design ensures that the lighting power density is 8.48 $W/m^2$, which is lower than the ECBC specified LPD limit of 10.80 $W/m^2$ (Office-Commercial).
  - Thermal efficiency of the building is 127.65 $W/m^2$ which is better than both the SVAGRIHA thresholds (135 $W/m^2$ & 170 $W/m^2$).
  - All air-conditioners installed in the building are BEE 5-star labelled. In addition, VRV system has been used in the building.
- **Water and waste**
  - Use of low-flow fixtures reduces the building water demand by about 42% compared to SVAGRIHA base case.
  - Rainwater storage tank of 40,000 litre capacity has been constructed on site to capture and utilize rainwater.
  - Rainwater recharge pit is constructed, along with filtration systems, to recharge the ground water table.
- **Materials**
  - PPC is replaced with OPC in the entire project.
  - Fly-ash bricks were used for external wall construction, which have lower embodied energy as compared to conventional burnt clay bricks.
- **Lifestyle**
  - There is provision for basic amenities like park, grocery store, convenience store, pharmacy etc. within a 5 minute walking distance (1/2 km) from the office.
  - There is a provision of a dedicated toilet and rest room for service staff in the office building.
  - The project is taking incentives through intense research in the field of climate change, sustainable growths etc., to mitigate/minimise environmental concerns in India.
- **Innovation**
  - Electric vehicles are used by the building occupants to commute for work.
  - Waste generated from the building (Dry waste, wet waste, paper waste, electronic waste) is properly segregated on site and sent for recycling.

## Integrated Design Team:

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| **Client** | : | G.I.Z India |
| **Architect** | : | Veera Group, New Delhi |
| **Green Building HVAC consultant** | : | Refcon Airconditioning, New Delhi |