CONSTUCTION OF STAFF QUARTERS 5 BLOCKS OF D-TYPE QRS AND 7 BLOCKS OF E-TYPE QRS FOR THE HIGH COURT OF ORISSA,CUTTACK ODISHA





Location : Cuttack, Odisha.
Site Area : 40468.56sqm
Built up area : 66153 sqm
GRIHA Rating : 4 star, Pre-certification

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

- **Sustainable Site Planning:**
  - This project will designed and constructed complying to all local statutory norms and land development plan.
  - Most of the basic amenities like hotel, petrol pump, convenience store, pharmacy, ATM etc. are in close proximity to the site.
  - The building architecture will be modified to adopt best possible low impact design features like - orientation of the longer facades of the building, arrangement of the internal buffer space to avoid heat, roof insulation, shading design on windows, high performance glazing and high SRI paint on roof.
  - UHIE will managed at this site by usage of grass pavers, green cover on building podium, high
  - SRI paint on surface parking and some preserved landscape area to balance the micro-climate.
  - The project will provided dedicated toilets for service staff, differently-able and gender neutral also within the office premise.

- **Reducing water consumption:**
  - Use of low-flow plumbing fixtures and faucets reduces the building water demand by 58.60% as compared to GRIHA base case.
  - The project has reduced its landscape water demand by 89.15% as compared to the GRIHA base case.

- **Reducing energy consumption while maintaining occupant comfort:**
  - The building is showing higher level of energy efficiency due to the adoption of energy efficient building envelope, efficient lighting and air-conditioning system. All electro-mechanical systems are compliant to ECBC norms.
  - 271 kWp solar photovoltaic panels will be installed on the roof of the building.
  - All air-conditioners and fans installed in the residence are BEE 5 star rated.
  - The circulation area inside the shopping floor are getting adequate daylight of over 74.30% of the public movement area.

- **Use of low energy materials:**
  - Use of low-VOC and lead free paints will used to maintain good indoor air quality.
  - The project has demonstrated a reduction in embodied energy in embodied energy by using fly-ash bricks, PPC cement, autoclaved aerated concrete (AAC) blocks and local sand stones on external structural wall.

Integrated Design Team

Client : Cuttack High Court
Contractor : Iron Triangle
GRIHA Consultant : Sustainability Leaders Odisha PVT. LTD

Sustainability Leaders Odisha Pvt. Ltd.
Mission Green Odisha