Commonwealth Games Village

<table>
<thead>
<tr>
<th>Location</th>
<th>New Delhi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Area</td>
<td>473000 m²</td>
</tr>
<tr>
<td>Built-up Area</td>
<td>156000 m²</td>
</tr>
<tr>
<td>Air-conditioned Area</td>
<td>Fully air-conditioned</td>
</tr>
<tr>
<td>Non Air-conditioned Area</td>
<td>Nil</td>
</tr>
<tr>
<td>Energy consumption reduction</td>
<td>61% reduction from TERI GRIHA benchmark</td>
</tr>
<tr>
<td>EPI</td>
<td>78 KWh/ m²/year</td>
</tr>
<tr>
<td>Occupancy hours</td>
<td>8760 hours/year</td>
</tr>
<tr>
<td>Renewable energy installed on site</td>
<td>128 KW</td>
</tr>
<tr>
<td>GRIHA rating</td>
<td>2 Stars</td>
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</tbody>
</table>

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

- **Sustainable Site Planning:**
  - Roads were regularly sprinkled with water for dust control; wheel-washing was done for vehicles at entry and exit of the site.
  - Dust screens provided around construction area to prevent air pollution.
  - Top soil stored and preserved on adjacent site for later use.
  - Utility corridors designed along roads and pathways on site.

- **Ensure health and well-being of construction workers on site:**
  - Sanitation/safety facilities for construction workers provided as per NBC 2005.
  - Clean and hygienic accommodation, toilet facilities and safe drinking water provided to all workers on site.

- **Reduction in water consumption (compared to TERI GRIHA benchmark):**
  - 61.1% reduction in building water consumption by use of low-flow fixtures.
  - Waste water recycled and reused within the complex.
  - Reduction in landscape water consumption by planting native species of trees and shrubs and by installing efficient irrigation systems.

- **Reduction in energy consumption (compared to TERI GRIHA benchmark) while maintaining occupant comfort:**
  - ECBC compliant building envelope.
  - Installed air conditioning system based on Variable Refrigerant Volume (VRV)
  - Energy efficient lighting systems.

- **Renewable energy technologies installed on site:**
  - 31% outdoor lighting powered by solar energy.
  - 10% annual energy requirement for internal artificial lighting proposed to be met by solar energy.

**Integrated Team:**
- Project Management : Emaar MGF Land Pvt. Ltd.
  Singapore, Sikka Associates New Delhi
- Landscape Design : Integral Designs
- Mechanical/Electrical/Plumbing Consultant : Spectral Services
- Green Building Design and Energy Consultant : The Energy and Resources Institute