

COMPARATIVE ANALYSIS OF GRIHA CERTIFIED BUILDINGS											
NAME	Saarthi Sovereign	CISF Group Headquarters	Manipal Hospitals –Mangalore	Extension of Hostel 10 building at Indian Institute of Technology, Bombay	Hostel Block – 1 & 2 For Manipal Integrated Services Private Limited at Manipal Campus.	IIM Udaipur	ENGINEERS INDIA BHAWAN	South Asian University	Coal India Limited Office Building	Gandhi Research Foundation	University of Petroleum and Energy Studies, Dehradun
Location	Phase 2, Hinjewadi, Pune, Maharashtra	Ahmedabad	Mangalore	Mumbai	Bangalore	Udaipur, Rajasthan	SPDCOT IT Park, Sriruteri, Chennai	Maidan Garhi, New Delhi	Chennai	Jain Hills, Jaigalon	Bidoli, Dehradun, Uttarakhand
Site Area	18,030 m <sup>2</sup>	19360 m <sup>2</sup>	2,994.78 m <sup>2</sup>	5964 m <sup>2</sup>	25494 m <sup>2</sup>	1214550 sq.m	394 m <sup>2</sup>	379122.6 sq.m	9000 m <sup>2</sup>	1,08,717 m <sup>2</sup>	1,08,717 m <sup>2</sup>
Built up Area	33,235.72 m <sup>2</sup>	2771.37 m <sup>2</sup>	15065 m <sup>2</sup> including parking	43124 m <sup>2</sup>	13938 m <sup>2</sup>	155000 sq.m	10734 m <sup>2</sup>	34425.1 sq.m	13258 SqM	6,000 m <sup>2</sup>	33,787.34 m <sup>2</sup>
Air- conditioned Area	N/A	11642.73 m <sup>2</sup>	11642.73 m <sup>2</sup>	69 m <sup>2</sup>	1460 m <sup>2</sup>	NA	1430 m <sup>2</sup>	1430 SqM	13258 SqM	6,000 m <sup>2</sup>	33,787.34 m <sup>2</sup>
Non-Air - conditioned Area	33,235.72 m <sup>2</sup>		18422.27 m <sup>2</sup>	43055 m <sup>2</sup>	11000 m <sup>2</sup>		9304 m <sup>2</sup>		NA	1,400 m <sup>2</sup>	26476 m <sup>2</sup>
Typology	Residential			Residential			Commercial/Office				
Energy Consumption Reduction		60.93% over the Benchmark EPI				25.70%		21% below GRIHA LD base case	41.3% reduction from GRIHA benchmark	83% reduction in energy consumption compared to GRIHA benchmark	42.73% from GRIHA benchmark
Waste Reduction								100% Organic waste reduction			
Water Consumption Reduction								56.63% below GRIHA LD base case	50.7% reduction from GRIHA benchmark		33.16% from GRIHA benchmark
Energy Performance Index (EPI)	28.80 kWh/m <sup>2</sup> /year	48.28 kwh/m <sup>2</sup> /year	223.89 kWh/m <sup>2</sup> /year	48.23 kWh/m <sup>2</sup> /year	35.66 kWh/m <sup>2</sup> /year		104 kWh/m <sup>2</sup>		186 kWh/SqM/year	41 kWh/m <sup>2</sup> /year	35.22 kWh/m <sup>2</sup> /year
Renewable Energy installation	None	5 kWp solar PV panel installation	20 KWp Solar PV Installation	6 Wwp solar PV panel installation	150 Kwp Solar PV Installation	2917.6 kw	35 KwP Solar PV Panels	2000 kw	12600 KWP	Rated capacity of solar PV installed on site is 20.24 KWP	100KWP
GRIHA provisional rating	3 Stars	3 Stars	4 Stars	4 Stars	5 Stars	5 stars	4 Stars	5 stars	5 stars	5 Stars	4 Stars
Year of completion	2016	2015	2015	2016	2015		2014			2013	
Strategies Adopted											
Sustainable Site Planning	<ul style="list-style-type: none"><li>Measures were adopted for soil erosion control, preservation of fertile top soil, protection and preservation of existing mature trees on site.</li><li>The services have been planned to cause minimum site disturbance.</li><li>Project is built on a densely vegetated site and priority was to preserve as many trees as possible.</li><li>The only existing tree on site was protected during construction and additional plantation has been done along the site boundary post construction.</li><li>Air pollution control measures such as site barricading, coverage of dusty material and appropriate stack height of DG sets were implemented during construction to contain pollution.</li><li>Hard paving has been reduced and landscape is interspersed between the building clusters to reduce the increase in outdoor ambient air temperature.</li><li>Sustainable Urban Drainage systems such as bio swales, retention ponds have been integrated to reduce peak run-off quantity.</li><li>Utilities were planned in such a way that the on site circulation efficiency was optimized.</li><li>Grass pavers are provided to reduce imperviousness of project site.</li><li>The site planning is in synchronization with the lake concept of Udaipur city.</li><li>Excavation and Construction activities were interspersed prior to monsoon season to prevent soil erosion and soil run-off from project site.</li><li>More than 71 trees were planted though the site was benefit of trees.</li><li>Plants were planned in such a way that the on site circulation efficiency was optimized.</li><li>Grass pavers are provided to reduce imperviousness of project site.</li><li>Hard paving has been reduced and landscape is interspersed between the building clusters to reduce the increase in outdoor ambient air temperature.</li><li>Sustainable Urban Drainage systems such as bio swales, retention ponds will be integrated to reduce peak run-off quantity.</li><li>The project will generate 69% of their existing site features.</li><li>Existing trees were preserved and transplanted along the periphery of the site.</li><li>Excavation and construction started after the monsoon season to prevent soil erosion and soil run off from the site.</li><li>Top soil was preserved and re-used to raise the ground level along the periphery.</li><li>Service corridors are planned to cause minimum damage to the site and natural topography.</li><li>Orientation of the building is east west but zoning of the building has been appropriately done to reduce negative impact of bad orientation.</li><li>The building blocks have been designed in accordance to the terrain of the site ensuring that there is minimum site disturbance.</li><li>All existing trees have been retained on site and are a part of the building post occupancy.</li><li>Minimum impact on environment is ensured by planting native trees, employing efficient storm water management, installation of pervious paving on site for more than 60% of the paved area, use of e-vehicles on site.</li><li>Barricading of the site to prevent air pollution.</li><li>Existing trees preserved and native species of trees planted.</li><li>Top soil preserved and protecting for later use.</li><li>Minimum damage to the existing topography of the site.</li></ul>										
Water management	<ul style="list-style-type: none"><li>Reduction of 42.34% from the GRIHA base case has been demonstrated in landscape water demand through drip irrigation and planting native/naturalized species.</li><li>&gt;100% storm water run-off from roof is being recharged into the ground through recharge pits.</li><li>Reduction of 57.73% from the GRIHA base case has been demonstrated in building water demand through provision of low flow plumbing fixtures and use of STP treated water for flushing through dual plumbing system.</li><li>Construction water requirement was minimized by adopting curing and ponding techniques.</li><li>Potable water demand reduced by reclaiming 37.2% STP treated water for landscaping, flushing and air conditioning make-up water.</li><li>Reduction of 51.77% from the GRIHA base case has been demonstrated in building water use by installing water efficient flush systems and flow fixtures.</li><li>The buildings are designed to be about 47% more energy efficient than GRIHA LD base case.</li><li>Strategies such as ponding for curing of slabs, use of wet hessian cloth for curing of columns and use of curing compounds were adopted during the construction to ensure efficient water use during construction.</li><li>A zero-discharge site has been achieved through managing water efficiently on site by reducing the overall water demand, efficient water reuse and recharge.</li><li>Reduction of 53.26% from the GRIHA base case has been demonstrated in landscape water demand through use of efficient water methodologies &amp; native plant species.</li><li>Reduction of 58% from the GRIHA base case has been demonstrated in building water use by installing water efficient flush and flow fixtures.</li><li>Project shall be utilizing 100% rainwater, which shall be collected in lakes/ and underground tanks, and will be used for various purposes including drinking after required treatment.</li><li>DWATS system will be installed to treat the sewage generated on site.</li><li>All fixtures in the project will be low-flow.</li><li>High efficient drip irrigation has been utilized for irrigating landscapes which results in reduction of more than 70% of landscape water demand.</li><li>Reduction of 67% has been demonstrated on building water use by installing water efficient flush and flow fixtures.</li><li>A 50 KLD capacity of Foulified Bed Reactor is installed to treat waste water on-site and reuse for flushing, landscaping and cooling tower makeup.</li><li>The project plans to reduce its annual water demand by 56.63% through reuse of treated waste water.</li><li>All waste from campus will be segregated and sent for recycling through authorized recyclers.</li><li>Three Pytford Sewage Treatment Plants will be installed to treat the sewage generated on site.</li><li>All fixtures in the project will be low-flow.</li><li>Reduction in building water consumption by use of low flow fixtures - 50.7%</li><li>Water recycled and reused within the complex - 100%</li><li>Reduction in landscape water consumption by planting native species of trees and shrubs and by using efficient irrigation systems - 62.3%</li><li>Native plantation and use of efficient irrigation system.</li><li>Use of low flow and flush fixtures.</li><li>Use of non-potable water for landscaping.</li><li>Reduction in building water consumption by use of low-flow fixtures.</li><li>33.16% reduction in landscape water consumption by using native species and efficient irrigation systems.</li><li>Waste water treated and re-used for landscape water requirement.</li><li>More than 50% of the paved area topped with loss aggregate to allow penetration of water.</li></ul>										
Solid Waste Management	<ul style="list-style-type: none"><li>Multi-coloured bins have been provided on floor level to collect and segregate waste at source.</li><li>A dedicated place has been provided on site to store segregated waste prior to dispose of.</li><li>Sledge from Sewage Treatment Plant is proposed to be used as fertilizer for landscapes.</li><li>The projects plan to convert all organic kitchen waste into biogas.</li><li>All waste from campus will be segregated and sent for recycling through authorized recyclers.</li><li>Double Glazing Windows with a Solar Heat Gain Coefficient of 0.18 used as Building Envelope.</li><li>Reduction of 25.7% from GRIHA established Energy Performance Index for office building has been demonstrated.</li><li>Water cooled chiller with high COP of 6.05 has been installed for space cooling application.</li><li>ECEC mandatory criteria compliance lighting HVAC and electrical power system have been implemented.</li><li>35 kWp Solar PV panels have been installed to reduce use of electricity from fossil fuel.</li><li>More than 52% of the living spaces is daylighted and meets the daylight factor as prescribed by National Building Code of India.</li><li>All organic kitchen waste shall be converted to Biogas.</li><li>All waste from campus will be segregated and sent for recycling through authorized recyclers.</li><li>Multi-coloured bins have been provided on floor level to collect and segregate waste at source.</li><li>A dedicated place has been provided on site to store segregated waste prior to dispose of.</li><li>Sledge from Sewage Treatment Plant is proposed to be used as fertilizer for landscapes.</li><li>The projects plan to convert all organic kitchen waste into biogas.</li><li>All waste from campus will be segregated and sent for recycling through authorized recyclers.</li><li>Double Glazing Windows with a Solar Heat Gain Coefficient of 0.18 used as Building Envelope.</li><li>Reduction of 25.7% from GRIHA established Energy Performance Index for office building has been demonstrated.</li></ul>										
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