

**2100, Sheela Group**



2100 Sheela Group is a G+20 office building designed by White Studio Architects.

An office building located in Sector 135, Noida - 201304.

**1. PROJECT DETAILS**

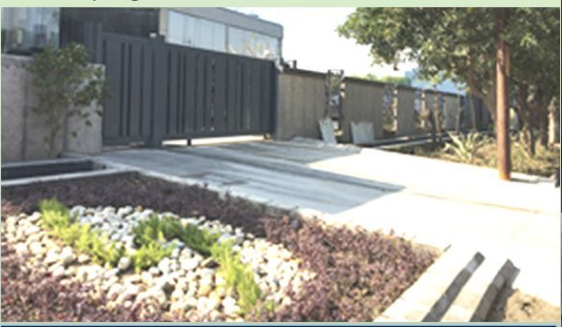
Structure : G+20 Storeyed plus 1  
 Building Footprint : Basement  
 General Services : 1221 m<sup>2</sup>  
 : Cooling - Variable Refrigerant Volume (VRV)  
 : Fresh Air - Heat Recovery Wheel (HRW)  
 : DG sets, UPS, Integrated Building Management System and closed circuit Television systems

Special Provisions : Lighting - Occupancy and Daylight sensors  
 : Fire - Fire alarms, fire sprinkling  
 : Fully Automated Double stacked parking  
 : Modular Furniture  
 : Sewage Treatment Plant of 50 Kilo Litre Discharge Capacity  
 : Day Lighting - 98.7% of Day-Light achieved.

Construction Completion : 31.10.2017  
 Inauguration: : 05-11-2017

**2.ARCHITECTURAL PLANNING AND LANDSCAPING**

-Building Envelope designed to ensure daylight in more than 75% of regularly occupied areas.  
 -Low water consuming native and drought tolerant plants planted as a part of Xeriscaping.



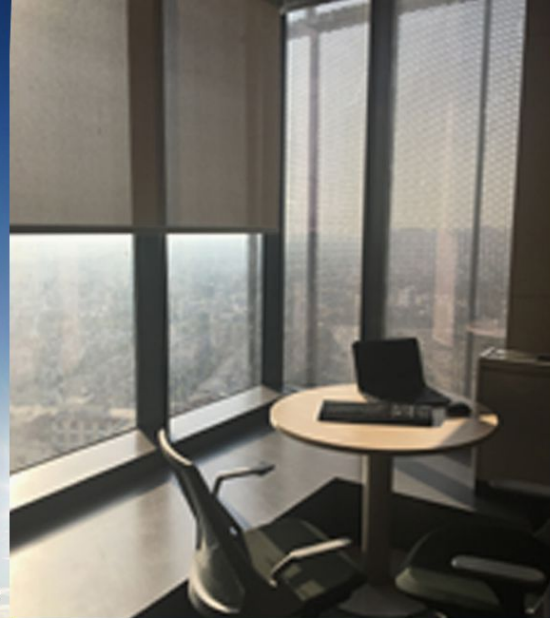
**3.SUSTAINABLE BUILDING MATERIALS**

- AAC bricks with 40% flyash content.  
 - AAC brick adhesive used in place of cement having non detectable VOC (Volatile Organic Compound) content.  
 - UPVC window with hermetically sealed double glass (SHGC - 0.28, u-value - 1.6, VLT - 0.42)  
 - High SRI crushed stones used in deck area of 1st floor.  
 - XPS (Expanded Polystyrene Insulation)



**4. ENERGY EFFICIENT SYSTEM**

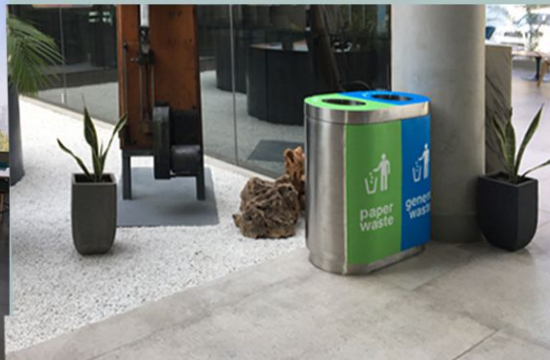
- Annual Energy requirement = 796.8 MWh  
 - HRW (Heat Recovery Wheel) provided in fresh air duct  
 - Variable speed VRF (Variable Refrigerant Flow) systems for cooling.  
 - 40% cost saving than conventional design.  
 - Efficient high power of ventillation fans. 1 cfm = 0.003 kw/cfm  
 - Daylight sensors  
 - Occupancy sensors  
 - Thermostat control for HVAC  
 - Dimmable lights



**5. WASTE SEGREGATION**

Waste are segregated based on their type i.e.

- Paper
- Glass
- General
- Plastic



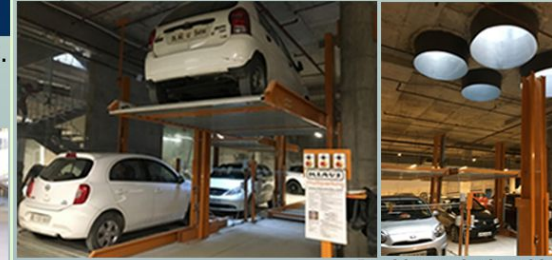
**6. WATER CONSERVATION**

- Recycling of waste water through Sewage Treatment Plant( STP)
- Low discharge flow fixtures
- Sensor Urinals and Dual flow Cisterns
- Low water demand plants in Landscaping
- Rain Water Harvesting
- STP water for Landscaping and flushing
- Infrared Sensor Faucets



**7. FULLY AUTOMATED DOUBLE STACKED PARKING**

Parking Capacity : 182  
 Single car retrieval time : 3 Minutes (Max)



**Conservation Scenario**

Annual Consumption	Conventional Design	Design in Project	Savings
Electricity Cost	1331.2 MWh	796.8 MWh	40%



**Project Team**

Project Owner : Sheela Group  
 Green Building Consultants : Kalpakrit Sustainable Environments Pvt. Ltd  
 Architecture & Interior Design : White Studito Architects



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 Sector 135, Noida, Uttar Pradesh - 201304