LIFE DESIGNED™ FOR SUSTAINABILITY
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Innovation & Design Process
SUSTAINABILITY AT BIRLA

At Birla Estates, sustainability is an inherited value system that comes from the legacy of the group.

OUR VALUES

The Birla legacy champions trust and transparency; the driving force behind everything that we do.

We were built on the values of

- INTEGRITY
- EMPATHY
- COMMITMENT
- AGILITY
- SEAMLESSNESS
- SPEED
THE CORE PILLARS OF THIS VALUE SYSTEM BEING:

TRANSPARENCY:
Through open communication with all the stakeholders.

STAKEHOLDER ENGAGEMENT:
Educating the employees, customers, and the entire community through various channels, about measures such as waste reduction and energy savings / efficiency.

FORWARD THINKING:
Envisioning the future centered around social, environmental and economic factors with innovative ideas for implementation.

With these, we bring you Birla Vanya – a Gold rated Pre-Certified IGBC Green Homes development with the idea of green living.
Indian Green Building Council (IGBC) Green Homes is the first rating programme developed for India, exclusively for the residential sector.

It is based on accepted energy and environmental principles, and strikes a balance between known established practices and emerging concepts.

The rating system has been developed based on materials and technologies that are presently available.
THE OBJECTIVE OF IGBC GREEN HOMES® IS TO:

Facilitate the effective use of site resources | Water conservation | Energy efficiency | Handling of household waste | Optimal material utilization | Design healthy, comfortable and environment friendly homes.

SOME OF OUR GREEN CERTIFIED PROJECTS:

Both Birla Centurion and Birla Aurora are Platinum certified under the Indian Green Building Council’s (IGBC) Leadership in Energy and Environmental Design (LEED) India Green Building Rating system. The projects pursued certification under the Core and Shell program where only the design and construction of structural shell, façade and envelope, service and circulation cores, common facilities is in the developer’s scope.
Green Building Highlights

Double glazed, Low-E, high performance glass façade ensuring savings in energy through reduced thermal radiation and optimum use of natural light

Efficient water management system through STP and rain-water harvesting ensuring substantial reduction in water consumption

Integrated Building Management Systems to control and monitor HVAC (Heat Ventilation and Air-Conditioning) equipment making it energy efficient

Ventilation and Outdoor Air Delivery System that exceed the ASHRAE Standard 62.1.2004 (Ventilation for Acceptable Indoor Air Quality)
RAINWATER HARVESTING

Rainwater harvesting is a technique of collection and storage of rainwater in the ground water table, so it is not lost during the surface runoff process.

| 0% WATER DISCHARGE DURING NON-MONSOON PERIODS | WATER REDUCTION UP TO 49%* | SAVING AND REUSE OF OVER 35%* OF WATER |

*All values mentioned in brochure are derived from the IGBC Green Homes Version 2 Guidelines
WASTE WATER TREATMENT & REUSE

Through this method we will save and reuse over 35%* of the natural water.

Water use reduction up to 49%* through the use of efficient flush & flow fixtures as well as use of treated water for flushing.

100%* of the wastewater will be treated and reused.

We will be using treated water for flushes to ensure reuse and conservation in the residences.

100%*

USAGE OF TREATED WASTE WATER

*All values mentioned in brochure are derived from the IGBC Green Homes Version 2 Guidelines
THE LANDSCAPE IS DESIGNED TO ENSURE MINIMAL WATER USAGE

Ensuring 36%* water usage across open lawns.

Up to 64%* of the plants being planted will be draught tolerant.

36%* ACROSS OPEN LAWNS

64%* DRAUGHT TOLERANT PLANTS

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MANAGEMENT OF IRRIGATION SYSTEMS

WE WILL INSTALL WATER EFFICIENT TECHNIQUES ACROSS THE PROJECT THROUGH MULTIPLE MEASURES:

- Installation of a centrally-located safety shut-off valve.
- Implementation of drip irrigation.
- Installation of time-based controllers & pressure regulating devices.

DRIP IRRIGATION  SAFETY SHUT-OFF VALVE  TIME BASED CONTROLLER

*All values mentioned in brochure are derived from the IGBC Green Homes Version 2 Guidelines*
PARKING FACILITY FOR VISITORS

10% of the parking spaces are dedicated for the visitors, available across the project.

The design has kept in consideration both 2-wheeler and bicycle parking spaces.

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<thead>
<tr>
<th></th>
<th>Spaces for Residents</th>
<th>Spaces for Visitors</th>
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<tbody>
<tr>
<td>Cars</td>
<td>1179**</td>
<td>117**</td>
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<tr>
<td>2-wheeler</td>
<td>2950**</td>
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<tr>
<td>Cycle</td>
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ELECTRIC CHARGING FACILITY FOR VEHICLES

We have kept in mind facilities that make for a greener future.

There are multiple charging facilities for electrical cars and 2-wheelers across the project: specifically, 61 car and 151 two-wheeler charging stations have been provided.

61** CAR CHARGING

151** 2-WHEELER CHARGING

**Numbers for full project potential
Values for Car Charging & 2-wheeler Charging are derived from the IGBC Green Homes Version 2 Guidelines
CFC-FREE EQUIPMENT

Provision of 3-star* air conditioners with environment-friendly refrigerant.

The air conditioners in the clubhouse will use only BEE 5-star* rated.

AIR CONDITIONER
ENERGY SAVING MEASURES

We have ensured that the most energy efficient options are used.

All the domestic use pumps and motors will be having more than 60%* & 75%* energy efficiency respectively

25%* of the street lights are solar powered.

There is a provision of 1 solar water heater per apartment.

BUILDING ELEVATOR | WATER PUMP

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SEPARATION OF HOUSEHOLD WASTE

We have simplified the process of recycling waste.

Separate waste bins for segregation equipped with OWC are provided for use.

ORGANIC WASTE MANAGEMENT POST-OCCUPANCY

The organic waste management system installed will be able to treat 100%* of the waste generated on site, equalling to 750 kgs* per day. The converted manure will be used in landscape and the indoor plants within residences.

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**RENEWABLE MATERIAL USE**

The door frames in all apartments will use 100%* FSC certified wood, ensuring responsible usage of wood.

**LOW VoC MATERIALS, PAINTS & ADHESIVES**

For better health, we will only use low Volatile Organic Compound (VOC)* paints and adhesives.
Concrete Built-up areas are hotter than nearby green areas

Air temperature in a city with 1 million people is warmer by $5.4^\circ - 1.8^\circ F$ (3$^\circ - 1^\circ C$).

In the evening, the difference is as high as $22^\circ F$ (12$^\circ C$).

HEAT ISLAND EFFECTS

Summertime peak energy demand

Air conditioning costs

Air pollution and greenhouse gas emissions

Heat-related illness and mortality

Water quality

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MEASURES UNDERTAKEN TO REDUCE THE HEAT ISLAND EFFECT:

Residents can enjoy lower temperatures in open spaces (spread across approximately 11,500 sq. meters*) due to:

- The use of light colored grey concrete in open driveways
- Landscape features like open grid pavers on sidewalks that add to the greenery
- Minimal hard paved surfaces.
- Additional trees planted across the project to ensure maximum shade during the warm months.
- Using treated water for flushing.

*All values mentioned in brochure are derived from the IGBC Green Homes Version 2 Guidelines
ADEQUATE DAY LIGHTING

All common areas have the adequate daylight level

Naturally daylighted apartments

FRESH AIR VENTILATION

Adequate natural fresh air ventilation in all apartments
Through design methods, we have ensured that 40% of the entire project is green so that the residents and their families can experience uninterrupted greens.

40%*
GREEN

*All values mentioned in brochure are derived from the IGBC Green Homes Version 2 Guidelines
The Project "Birla Vanya – Phase 1" comprising of towers Avishi (Tower A), Aaral (Tower B), Anila (Tower F) and Ashmi (Tower G) is registered with MahaRERA under the Registration No. P51700019178 and can be viewed at https://maharera.mahaonline.gov.in. Plans for the project are subject to further approvals/modifications from the concerned authority/ies and/or the Promoter.

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