



Grape County Eco Resort & Biodiversity Park



Grape County



Vasudhaiva Kutumbakam

‘The world is one Family’ is the philosophy reflected in our Biodiversity Park where innumerable plants, animals, birds and insects coexist peacefully.



TOP '4' OBJECTIVES

GRAPE COUNTY ECO-RESORT

1 MINIMIZING
CARBON
FOOTPRINT



2 MINIMIZING
RESOURCE
WASTAGE



3 MAXIMIZING
REUSE AND
RECYCLING



4 MINIMIZING
DAMAGE TO
NATURE

Grape County Resort – Project Details

Total area of the project is 26600 sq. m.

Net area of project (after deductions) and SVAGRIHA project boundary = 21433.00 sq. m.

Total built-up area of the project = 1475.43 sq. m.

For SVAGRIHA certification, building meant for dining and banquet hall and two cottage structures / villas have been considered.



Eco-friendly material



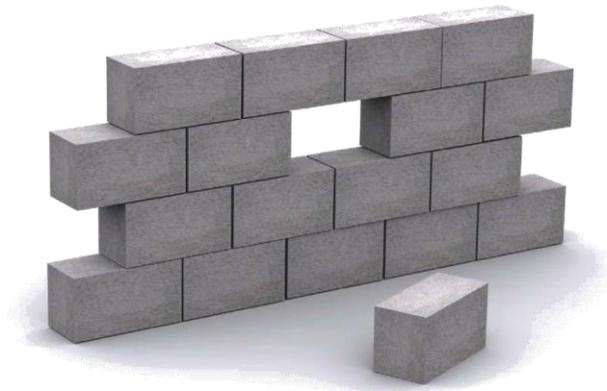
- Godra bricks



- Local Stones



- Shahabad Stones



- Fly ash bricks



- Recycled Wood

Eco-friendly material



- **Scrapped Metal**



- **Thermal glass for weather-proof structures**



- **Decorative light-weight Paneled wall**

Smart material selection



Use of LFF (low flow faucets)

Save 40% of Water Consumption



LFT (low flow toilets)

Save 7ltrs per flush than conventional Closet



LED Lights & Fixtures

Building Design

- Window contribute 14% of respective carpet area. And they are toward windward side.
- Allow good cross ventilation within the room
- Reduce the usage of air-condition.
- Allow maximum daylights in the common areas and reduce light energy consumption in daytime.



Cantilever Structures

- The Site was a contour land
- Designed Cantilever structures which helped us to retain the contour as it is & it did not disturb the land



Our Green Initiatives

- Approx. 40 – 50 % of the resort is powered by 40 KW Grid Solar energy power system mounted as shelter for Car Parking.
- Dual Axis Hybrid Solar System Moves according to the Sun's Direction.
- We have total 60 KW power generation plant which generates around 198.4 units per day.
- These 198.4 units saves Rs. 3273.60 /- per day.
- We save approximately amount of Rs. 11.78 Lakhs annually.
- It is anticipated that there is reduction of 120 kg/day of carbon dioxide emission in our area due to installation of solar panels



Root Zone System

All the Kitchen water waste & Grey water naturally gets filtered through plant roots & reused for Landscaping



Infrastructure: Gravity Based Root Zone System

Water Consumption: 30, 000 Liter per day

Recycling and Reuse: 30, 000 Liter per day (100% Reuse)

We save Rs. 2,16,000 /- Yearly, against the water expenses for landscaping.

This also saves 125 units of electricity per day which Approx. saves Rs. 7,32,000/- yearly

Root Zone System



Selected species for plantation on reed bed:

Phragmite sp, Pancratium Sp. Canna Indica (Kardali), Musa Paradisica (Banana), Commelina Nudiflorum, Weddelia Sp, Carica papaya (Papaya), Rosa sp, Citronella, Jasmine sp, Occimum sp, Tecoma sp



Root Zone System



Before



After

Vermicompost: All the Garden waste generated goes to Vermicompost, which turns into Natural Manure, which is used in Landscaping .



**All the waste is collected to the compost.
Approx 200 kgs of Compost generated in one cycle
Compost generated per year – Approx. 2400 Kg**

Biogas: All the Kitchen waste is sent to the Biogas, Slurry from bio-gas is manure, so it is used plantation and landscaping.



**Infrastructure: Biogas Generation
Plant**

Capacity: 200 Kg

Eco Practices at Grape County

- Strict guideline and sustainable practice for any sort of development with the property
- No use of chemical fertilizer for landscaping & created maximum green spaces in the property
- Promote Organic farming by encouraging local farmers to sell their product at our resort
- All efforts are taken to make the property a “Plastic Free Zone”
Operational Measures
- Training Programs for Employees conducted every quarterly for energy conservation and environmental aspects
- Installed Informative board and instrument chart for Guest regarding environmental and energy conservation aspects.
- We promote RO water to avoid the use of the Plastic bottles in the Restaurant



We have saved 14 Cr. Litres of water in the Dam through the Rain Water Harvesting



Green Initiatives by Grape County



Tree Plantation drive

Transplantation

Organic Farming

Since 2012, till date we have planted more than 58,500 trees, & have also nurtured them.

All the Trees which are been planted are the Native trees.

Social Initiatives by Grape County



Educational Tours



Adopt a tree Campaign



India's only Insect Festival

Flora & Fauna at Grape County

- More than 48 different kinds of Birds, 35 Different types of Butterflies & many types of Insects are seen here.









Awards & Appreciations



**Awarded with
Integrated Water
Management by
Griha Council**

**Awarded with
Best
'Renewable
Energy
Utilization'
Award by TERI**





Certified with 5 Star rating under Swagriha

**One of the Resort in Maharashtra to Receive
5 Star Rating Award**

VASUNDHARA – 2019



पर्यावरण विभाग,
महाराष्ट्र शासन



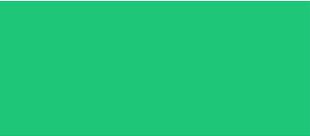
महाराष्ट्र प्रदूषण
नियंत्रण मंडळ

वासुंधरा पुरस्कार १९

जागरूक पर्यावरण दिन सोहळा - १९



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sd/
Account Department
04.06.2019



People behind the Project

Ar. Shabbir Unwala

Architect
Design work Shop

Ar. Sanjay Patil

Architect
Environ Planners

Mr. Mark Sheehy

Horticulturist
Dublin, Ireland

Ketaki & Manasi

Environmentalist
Oikos

Ar. Purva Keskar

Architect
Vke:environmental

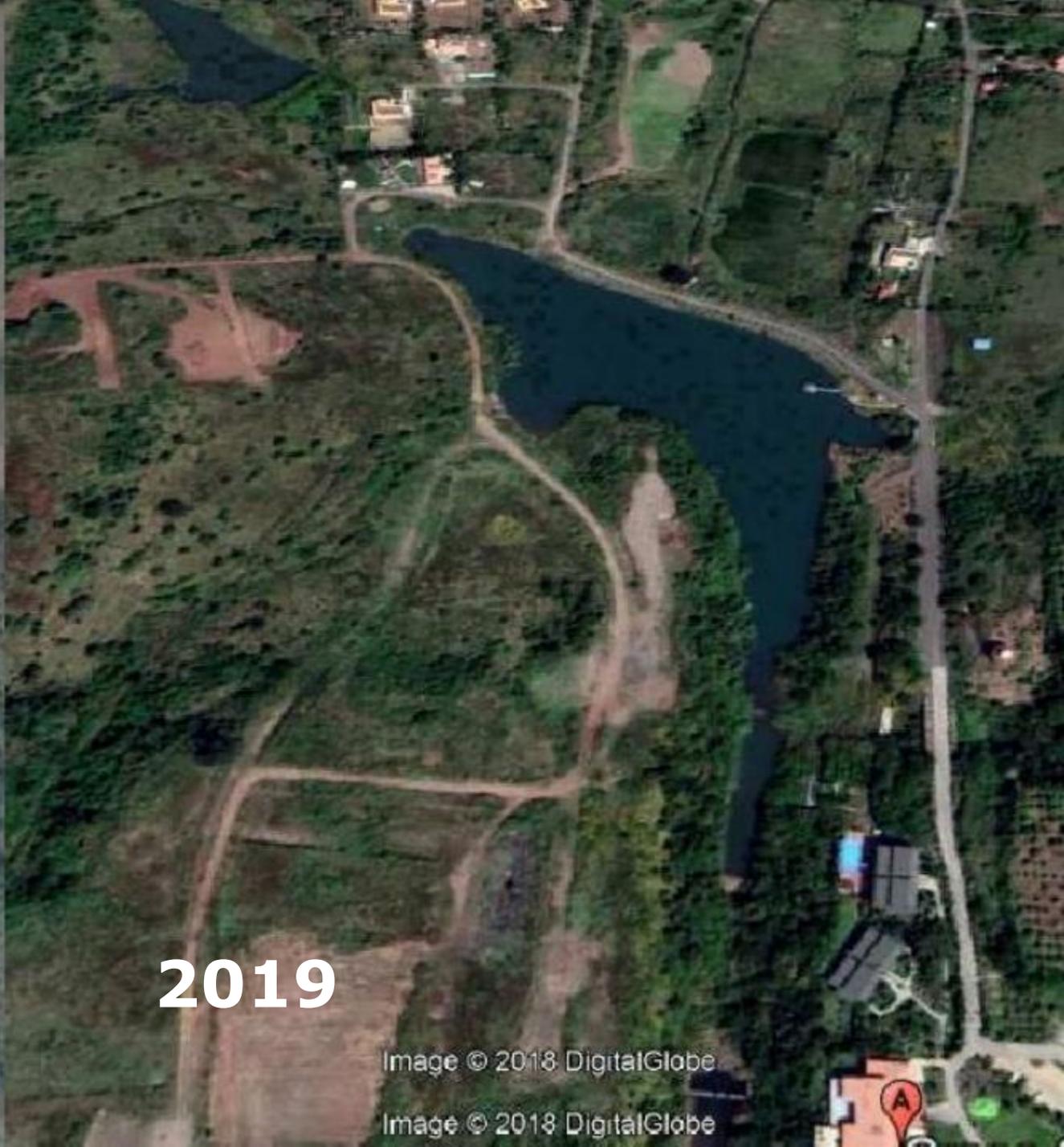


2012



2012

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2019

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2019



Grape County



Thank You