

### Designing social bonding through architecture and amenities



We are often asked how and why we choose a particular design for each community club in our ecohabitats. The form and style are a balance between what we believe will appeal to the stylistic expectations of the residents and our own push for design or material innovation. The program (i.e. uses and sizes of various spaces within the Club) is dependent on the number of end-users and their preferences for hosting, socialising and activities.

For instance, we are currently exploring programmatic directions with our design collaborators, FHD Consultants India for the Community Club at an upcoming project of Organo at Kandawada. Named as, the Rurban Hive, this large Club includes alfresco casual dining with bar space, a banquet hall, a spirited outdoor party lawn, a 24-seater movie theatre, inviting guest cottages, and a private lounge with a yard.

This primary social node for the entire community is created as an energetic environment that allows residents to just hang out and relax in a vibrant social atmosphere. Here, the families can decompress from hectic routines while enjoying the company of friends and family.

This Club becomes a dynamic place for residents to congregate for larger events and cultural and social celebrations. The design creates a playful interaction with the neighbouring amenities like the sports club and the guest room clusters. Farmscape walkways meander between various functional spaces and allow families to engage with one another and linger near the Club for quiet moments.



We aim to create cohesive spaces that welcome families and their quests to enjoy social Rurban experiences unique to the eco-habitat. The adjacent landscape is designed to have smaller alcoves and lounge spaces nestled among trees and shrubs. Festive lighting can be incorporated into the landscape during special occasions to provide soft lighting under the night sky.

The banquet areas also have spaces for live music, plays and performances. This is a space for families to come together and enjoy the outdoors while offering an environment to support multiple uses.

This energised cultural nerve centre of the community is designed to encourage social bonding, social wellbeing and collective celebrations. The architecture of the place is intended to influence activity and accommodate multiple functions while being a statement reflective of this community of families that would stay at Organo Kandawada.

If you would like to know about our explorations at Studio Organo, reach out to us at studio@organo.co.in



Aerial view of the Rurban Community Club Complex shows the inter-relationships between various spaces



Approach to the Club creates a vital setting for the main architectural statement for the community



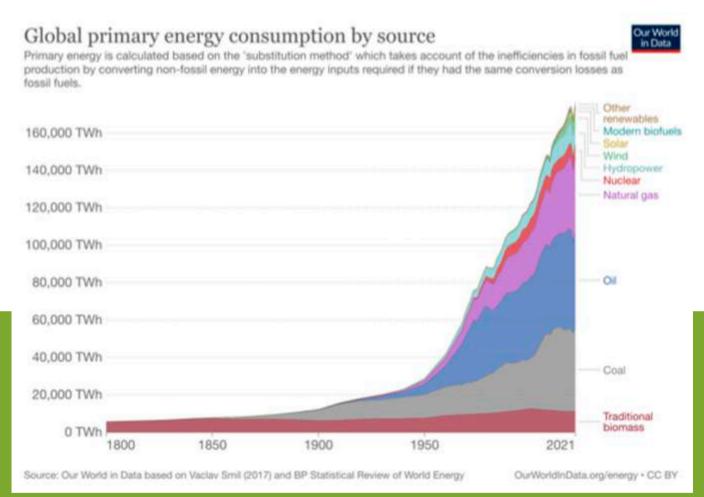
Alfresco dining space in the Club to allow residents to decompress from hectic routines



Other amenities organised along meandering farmscape paths to encourage social engagement



### Getting rid of Fossil Fuels in communities! Can it be Reality?



Part 1 - Designing for energy minimisation.

hen fossil fuels are burned, they release large amounts of carbon dioxide, a greenhouse gas, into the air. Greenhouse gases trap heat in our atmosphere, causing global warming. Already the average global temperature has increased by 1C.

For most of human history, biomass was the predominant fuel source to generate energy in the world (1). This was mostly wood, plant waste, and charcoal.

Around the middle of the 20th century, there was a rapid need for more and more power generation and the energy mix switched from biomass to coal and oil. The developments that ensued and the progress in science and technology rests entirely on the fact that the

world was covered by coal, oil and later, natural gas.

The adverse effects of uncontrolled use of these new fuels took more than 50 years to come to notice.

In India, even now, 58% of the power production is through non-renewable sources with the rest through renewable resources (2).



Installed GENERATION CAPACITY(FUELWISE) AS ON 30.09.2022		
CATAGORY	INSTALLED GENERATION CAPACITY(MW)	% of SHARE IN Total
Fossil Fuel		
Coal	204,079	50.0%
Lignite	6.620	1.6%
Gas	24,824	6.1%
Diesel	562	0.1%
Total Fossil Fuel	2,36,086	57.9%
Non-Fossil Fuel		
RES (Incl. Hydro)	164.930	40.4%
Hydro	46,850	11.5 %
Wind, Solar & Other RE	118,080	29.0 %
Wind	41.666	10.2 %
Solar	60,814	14.9 %
BM Power/Cogen	10,206	2.5 %
Waste to Energy	495	0.1 %
Small Hydro Power	4,899	1.2 %
Nuclear	6,780	1.7%
Total Non-Fossil Fuel	171,710	42.1%
Total Installed Capacity (Fossil Fuel & Non-Fossil Fuel)	407,797	100%

While the country is moving towards more and more renewables, solar is still 15% of the total energy mix in the country.

With this energy mix, can there be a possibility of eliminating fossil fuels or not using energy generated through fossil fuels? In other words, is it possible to design a community that is completely off-grid with energy produced only through renewable sources of energy?

Potential to produce renewable energy in high-end apartments in Hyderabad

To answer that question, it is important to analyse the potential for energy

generation in communities in Hyderabad.

To take a typical example, let us consider a high-rise residential community built on 6 acres, with 300 flats (or 50 homes per acre density) with each home of 3000 sq.ft.

For such a project, the roof top area available would be approximately, 45,000 sq.ft. Assuming the rooftop can be completely used to install solar, the total energy production could be close to 500 kW while the energy consumption could be approximately 1800 kW. Due to the higher density, the maximum renewable energy production can cater to not more than 30% of the overall



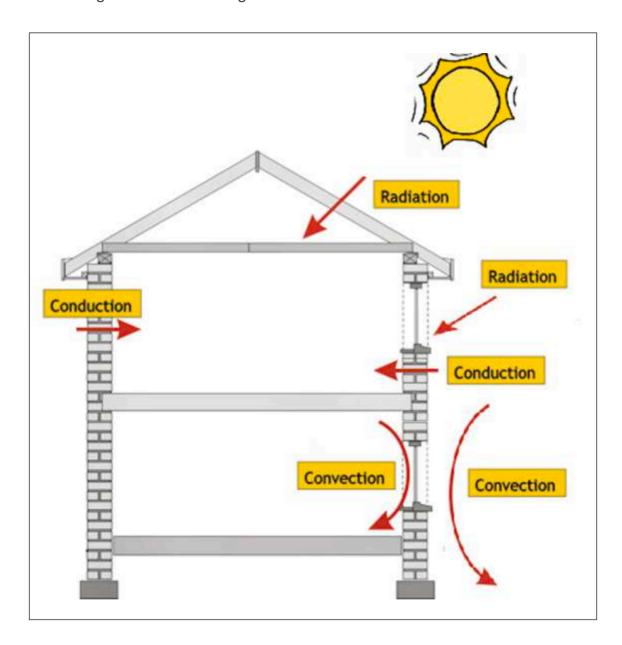
energy demand. The rest of the 70% is produced as per the energy mix shown above.

Even if there is a potential to install more solar panels, is this the right way to design homes for net-zero?

Design of homes at Organo Kandawada Good design starts with reducing

energy requirement in the first place. Almost 25% of the annual energy consumption in a home is due to air conditioning loads. To reduce this, it is necessary to cut down on heat coming into the home.

Heat comes into buildings through walls and roof.



To reduce the amount of heat, the building must have elements that cut down radiation coming into the building through radiation through walls and roof as well as conduction and convection heat transfers.

Designing energy efficient homes at Kandawada



At Kandawada, radiation coming through glass surfaces is protected using Serge Ferrari fabric which cuts down 90% of UV rays and radiation while allowing visual comfort (3). (See below)



The south side, where there is the maximum amount of radiation hitting the walls of the house, is protected by a double wall. (See below)



The solar panels on the rooftop protect from the radiation hitting the roof of the house. This is very important as radiation falls on the roof throughout the day, regardless of the direction of the sun.



Overhangs at strategic places to further cut down radiation falling on windows



For Kandawada, we are also exploring installing over deck insulation to further cool the roof of the house.

With these passive strategies, there is about 50% reduction in unwanted heat coming into the building.

Heat gets trapped in buildings at night

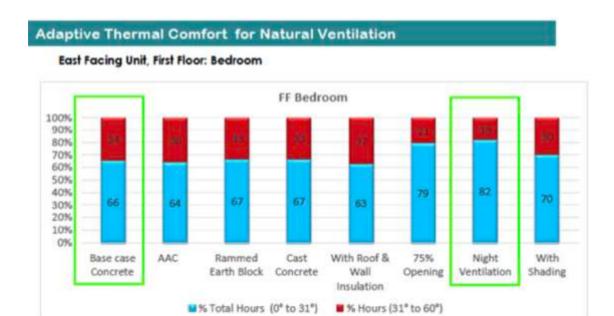
One property of concrete is that it traps heat within and releases slowly indoors into the house at night. Have you ever felt your home become hotter during the evenings and nighttime compared



to afternoons in the summer? This is trapped heat being released into the building. Is this a property of the material? Can building homes with rammed earth or other materials help in reducing this heat influx at night?

Analysis shows that, the type of material used in walls really has very little effect

on controlling this nighttime heat. Night ventilation plays a huge role in flushing out this and improving comfort and reducing air conditioning load. The difference is almost 25% increase in comfort hours.



Now that we have arrived at a home that needs much less energy to cool, in the next issue, design optimisation and possibilities of creating off-grid communities will be discussed



## SITE PROGRESS OCTOBER 2022





**Entrance Pavilion** 









**House of Activity** 





**Rurban Hive** 







**Access Roads** 







### GANDHAM PALLE













### CHAMPAKA PALLE



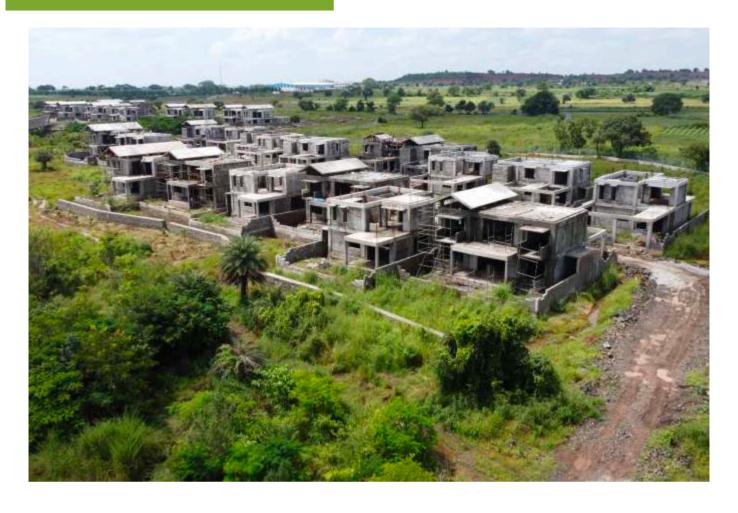




Champaka Palle Cluster View

### VELAGA PALLE







**Velaga Palle Cluster Views** 

### RAAVI PALLE











22

### FARMING













### Graduation **Ceremony of Kinder Gardeners**



On 16 Oct 2022, a rainy Sunday all the participants of Kinder Gardeners came to OES farm enthusiastically to collect their harvest of green leafy vegetables and graduation certificates.

The rain started before the day began. Our Organo Et School farm supervisor, Nagaraju arrived at the farm early to check the situation and make arrangements for the day's ceremony. Luckily, he observed the rain was not heavy enough to cancel the event.

We were still apprehensive about whether parents and children will come to farm in such a rainy condition. But to our astonishment, all 10 children

along with their parents arrived for the final session of this one-month-long farming program.

As they arrived one by one at the farm, removed their shoes, took the scissors, and went happily to their patches. Here, they started to harvest their crop, which they had tended to and grown for a month. Parents joined to help the children harvest as they were finding it difficult to cut the leaves, the soil being slippery. They all harvested Gongora and Palak, and filled up their bags to return to the tent. While returning to the tent they were happy to see their feet had got mud boots, which they had to clean by stepping into the rain puddles. And don't kids love muddy puddles?

After everyone returned to the sitting area, they were served hot idly for breakfast by 'God's Own Office café at Organo Antharam'. Having finished their breakfast, they eagerly awaited the Graduation Ceremony. Ms. Meena Murugappan Director OES, started the ceremony with a flashback into how her father inspired her to design farming programs for children. She felicitated all the children with program completion certificates. She even made them pledge that they will grow coriander in their small kitchen gardens for their parents.

All the children shared experiences of their four sessions at the farm. They all said they loved coming to the farm, every Sunday and showed their interest to join future OES programs. Ms. Garima Goel, Program Coordinator of OES garlanded the children with marigold garlands made with flowers harvest from OES farm itself. This made parents and kids, happy alike.

Thus, the final session of Kinder Gardeners program ended with a lot of happy moments.







### **OES Helps L&T Serene County Commemorate World E-waste Day**



In observance of International E-Waste Day, Organo Et School organized an Eco-community event at L&T Serene County in Hyderabad on 15 Oct'22. The event had a bouquet of Earth friendly workshops for kids and adults to participate and learn about sustainability.

The first workshop was conducted by Ms. Anurag Dahiya, an art and nature enthusiast. This workshop, "Botanical Illustrations in Nature Art" was a big hit amongst all kids aged 4 to 14 years, alike. They all used real leaves, pebbles and twigs from the L&T gardens near the swimming pools area, to create compositions and drawings.







This was followed by the Snakes Awareness and Protection session by Friends of Snakes Society. This was the most awaited program for the day, as the kids were very excited to see live snakes. They learnt how to protect the snakes and be safe themselves in case they happen to come across a snake while playing in the society

gardens. FOSS volunteers explained the nuances of snake habitats and habits, while exhibiting the real snakes in front of an audience of kids as well as adults. They went in detail on how to differentiate a venomous snake from a non-venomous snake. The expressions from the kids were worth seeing during this session.







Ensuring to help the residents, form a connection with natural farming, Organo Et School organised a DIY Jeevamrutham making session. This was conducted by OES farm manager Mr. Venkaesh Nallamilli, at the pool side venue. All the participants were given individual material kits to learn this process. He guided each one to mix the ingredients in proper proportions. The jeevamrutham prepared by the participants was given to them in glass bottles to take back home. This solution is to be kept for fermentation for 10-15 days, with regular shaking. Care must be

taken to open the lid frequently during the fermentation process, to release the extra gas being formed.

Besides the workshops, Organo Et School had invited Organo Farm Store to put up a stall for introducing and selling Natural farm produce to residents. There was a food stall as well, selling Vegan Food from God's Own Office café at Organo Antharam. This was a big success, as the participants loved the healthy food items served there.



At the end of the program kids as well as their parents appreciated the knowledge-sharing methods by OES and showed keen interest in Sapthapadha-based workshops and programs run by OES.





### **Learning Soil** Health Testing



oil, no doubt, is an essential component of life on Earth. Soil has life in it, and thus it is responsible for growing food for humanity. Farming requires soil, and the quality and health of the soil are paramount to understand and plan the farming activity on any given land mass.

Different soils have different moisture content, impacting the crops that will grow in them. By engaging with farmers, we can analyze the moisture content and accordingly recommend which crops can be grown there. Studying soil as a topic has various areas to be understood soil porosity, formation,

permeability and so on. This information will equip farmers with relevant data by which they can grow the right crop in suitable soil.

Soil testing, therefore, is a crucial step in this process. Soil testing will lead us to know the above variable of a particular soil type, leading to soil health



assessment. Experts do soil testing. Soil testing involves collecting soil samples, preparing for analysis, chemical or physical analysis, and interpreting analysis results, and finally, making fertilizer and lime recommendations for the crops. These are also considered the 4 phases of the Soil Testing procedure.

Once the farmers are equipped with the recommendations about fertilizer application and soil deficiencies, they can handle crop plans on their farmland.

Recently a proposal has been made to introduce Soil testing options in school labs to enhance experiential learning. On the one hand, the students will learn

about soil testing as a management tool to determine PH and nutrient concentration; on the other hand, they will also understand the importance of protecting the soil from contamination.

India being an agricultural country, basic knowledge about soil profile and structure must help create awareness in general, leading to a variety of new streams for students to choose from for their careers. The initiative will encourage students to participate in soil conservation campaigns and connect them with the ground realities of agricultural challenges faced by the farmers.





## MANDALA GARDENS -A permaculture approach



The Mandala Garden designs are a popular permaculture approach. 'Mandala' in Sanskrit language means circle. Various art forms depicted in Buddhism and Hinduism emerge as Mandala or circular forms and patterns.

This kind of geometric circular gardens were first mentioned by Linda Woodrow in her book about permaculture concept, "The Permaculture Home Garden." It first began in Brazil to help rural communities become economically resilient and have food security during droughts

What is a Mandala Garden? How is it created?

A simple mandala garden design usually consists of paths running through the circle like spokes on a bicycle wheel. The wedge-shaped beds which get created between spoke paths then are used to grow aesthetic and aromatic plants or vegetable plants. Ideally, the plants in mandala gardens are small and easily accessible so that each plant can be easily maintained from the paths.

By growing herbs or aromatic plants in a mandala garden, you create a sacred space for quiet reflection and meditation at the centre. As mentioned above, mandalas are generally circular with patterns inside. So, most Mandala gardens



get developed as circular gardens and within these circles are created inner patterns by paths and plant beds.

Benefits of developing a Mandala Garden:

- 1. It allows better and easy accessibility. The keyhole design of a Mandala Garden provides path for better reachability, by stretching an arm and bending down one can touch any part of the garden bed easily. This also prevents stepping onto the garden area and compacting the soil.
- 2. The circular design is also more visually appealing and attractive as compared to straight line garden beds.
- 3. It requires no digging or tilling. As a permaculture practice, mulching and composting is done in Mandala gardens without disturbing soil biota. This allows as well as encourages soil bacteria and microorganisms to be left undisturbed.

- 4. It is the microbes and billions of bacteria that do all the heavy work in fostering soil fertility. It's an effective way to gain a rich array of soil life thereby naturally developing an abundantly fertile, flourishing vegetable garden. This only requires giving the soil a crop break and let nature break it all for the gardeners.
- 5. These circular gardens also provide maximum productive area even within a small cultivable space.
- 6. It requires very less maintenance and upkeep effort.

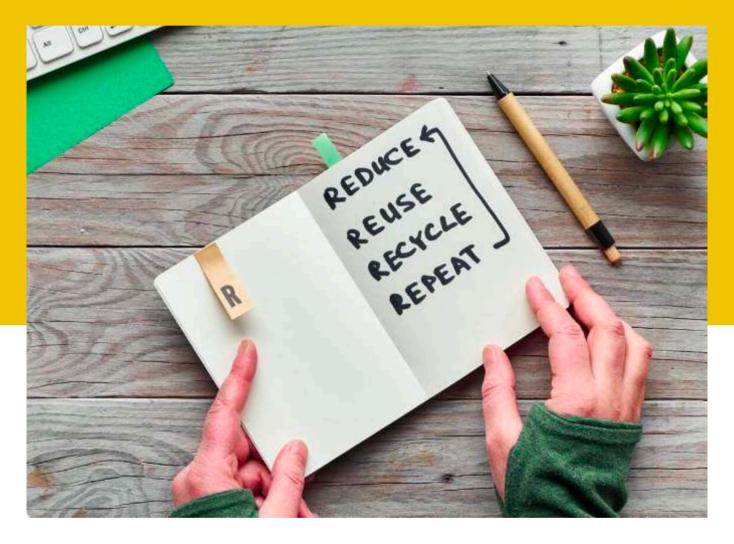
To conclude mandala garden can be ideal for organic gardeners who want to create thriving polycultures without disturbing the natural system in their gardens or backyards.

If you are interested to register for an experiential learning program on Mandala Gardens, please leave your details here: https://forms.gle/r89b56Vn7xWaT6Lb9





#### **Brown Your Workstation** and Reduce Your **Carbon Footprint**



As I clicked on the mouse to open the document I was working on, I felt cold plastic under my hand. This made me look up and around. It seemed my workspace was drowning in plastic and other nonsustainable material. The screen, the keyboard, the accessories, and even the table and the chair I was sitting on made me feel guilty.

A whirlwind of thoughts began in my mind, and I felt the need to correct the situation. This started my journey into discovering how to color my workstation brown and reduce its carbon footprint.

Let me share what I found out and more. Let's look at the damages caused by our current practices and the measures that we can take to correct them by making small little changes in our office space, slow but steady!

#### Switch to Eco-friendly furniture

The estimated carbon footprint of an office chair is 72 kg Co2 equivalent. Furniture requires the cutting down of trees and during its manufacturing and finishing process, dangerous chemicals like VOC (volatile organic compounds) and formaldehyde are released into the atmosphere. Furthermore, trees act as carbon sinks as they absorb carbon from the atmosphere. The trees that are cut for wood take tens of years to grow again. So, cutting trees for furniture takes a toll on the environment. We can reduce the carbon footprint of our office furniture by adopting the following practices.

- We can use furniture made of reclaimed wood, recycled plastic, and sustainable material like bamboo and cork which have a very low carbon footprint for our office.
- We should adopt the practice of repurposing old furniture.
- We can buy and use second-hand furniture for the office. It has virtually no carbon footprint as it already exists, and no new trees need to be cut down for its manufacture.

Always research and buy Ecofriendly computer and accessories

Computers contribute to carbon emissions during the process of their manufacture and also through electricity consumption during usage. The components of a laptop may contain mercury, lead, chromium, and other heavy metals. If these end up in landfills instead of recycling centers, they could contaminate groundwater and soil around the

landfill. The following points need to be kept in mind while getting a computer for our workstation.

- Look for EPEAT (electronic product environmental assessment tool) rating while buying computers and other electronics. This is a global environmental rating system that will help you evaluate the product's environmental impact.
- Innovative Bamboo keyboard and bamboo mouse can replace the conventional plastic keyboard and mouse. These are robust, sustainable, and biodegradable and add a unique green dimension to the workstation.
- Mousepads made of 100% recycled material and laptop covers made of bamboo instead of plastics can be used.
- Refurbishing old appliances increases the lifecycle of already existing products and reduces the carbon footprint of manufacturing.
- You should dispose of your electronics responsibly. They should not be tossed in trash but recycled.

Try and minimize the use of Printers and cartridges

Traditionally printing uses petroleum-based inks and chlorine-based bleaches. When these printed papers are thrown away these toxic elements leach into the soil, water, and air and cause damage to the environment. We should adopt the following practices to reduce the harmful environmental impact of printing.

- Print only when necessary. And on both sides.
   Use draft printing mode whenever possible and use a smaller font to save reams of paper each week
- Buy remanufactured ink and toner cartridge.
   They cost less and also save 2.5 pounds of metal and plastics and half a gallon of oil used in manufacturing anew.
- Use eco-friendly printers which use vegetable or soy-based ink instead of toxic petroleumbased ink
- Consider using one machine that can handle multiple jobs like copying, scanning, faxing, and printing. Fewer office machines will help reduce the carbon footprint.
- Buy second-hand, this will help reduce the carbon footprint of manufacturing.
- Always recycle printer cartridges, paper, and other printer accessories.
- · Always buy Environment-friendly supplies

We should always look for sustainability and ecofriendliness while looking for office supplies. Keep the following points in mind while choosing office supplies.

- Always use Recycled paper or paper made from sustainable material like bamboo, hemp, or organic cotton. Also, look for the compostable option for paper while procuring it
- Use eco-friendly pens made of renewable and biodegradable material. Avoid one-time use pens instead use refillable pens.

- Always use recycled pencils. Forest the size of 90 tennis courts is cut down every minute to obtain wood for pencils. This can be avoided by using recycled pencils.
- Use biodegradable packaging and tape. This is light and environment friendly.
- Use a staple-free stapler. This is a unique innovation that uses paper itself to stitch paper together.
- Folders made of recycled paper or bamboo must be used instead of plastic
- Bamboo waste bins and containers can replace plastic for holding paper and stationery.
- Always share the resources and use them maximally.

#### Go paperless

It is said that" The greenest paper is no paper at all". Turning a single tree into 17 reams of paper results in 50 kg of CO2 being released into the air. Cutting office paper by just 10 percent reduces its greenhouse gas emission by 1.45 million metric tons. We can save paper in the office by going digital. Instead of printing out an agenda, we can incorporate it in a slide show or email. We can reduce paper usage further by posting employee manuals online instead of printing copies.

#### Promote 5 'R's

 We should discourage the practice of use and throw and promote the culture of 5Rs (reduce, recycle, reuse, repair, and rethink) as a step forward in turning our workstation brown.

Make an effort to save power

We can adopt the following power-saving practices to make our office energy efficient.

- Use natural daylight to light up your office space. Keeping the walls of the office space light also helps in keeping it naturally bright.
- Use solar USB chargers for charging USB devices
- Use smart power strips. They cut the power supply to gadgets that are in standby mode.
- Replace conventional lighting with LED bulbs that cost less and are energy-efficient
- You should eliminate screensavers. Instead set monitors to power off after some time.

Have a mindful approach

All revolutions begin in the mind. Being mindful of our choices and degree of consumption is the first and the foremost step towards a green workstation. Just giving a small little thought before each action will reap the great benefit in the long run.

 Whenever you are making a purchase always think about how it will impact the environment. Research well, there are assessment tools available that will help you understand the environmental impact of the product.

- Try to replace all the non-renewable supplies with sustainable materials.
- It is always good to have an energy-efficient office, having a central switch to cut off all the power supply is a good idea to save energy when there is no one in the room.
- Replacing paper towels with cloth towels, using steel water bottles and tumblers and straws instead of plastic ones is a small step but reduces a lot of one-time-use waste.
- Having a small composting unit in the office to dispose of biodegradable material can be considered. These units are available easily online and are a great way to instill a sense of responsibility towards the environment as it will reinforce the segregation of waste.

Last but not least go green by keeping actual plants near your workstation. They are pleasing to the eyes, make the environment fresh and cheerful while instilling a sense of nurturing in us. They are also a constant reminder for us to pursue our green goals in keeping our workstation eco-friendly and brown from the inside out.





### Diwali Marigold Harvest & Stringing **Celebration by OES**



#### Diwali Marigold Harvest & Stringing Festival

#### at OES Children's Farm, Kesaram

ES with immense pleasure brings a unique Marigold Harvest and Stringing Celebration this Diwali for families from Hyderabad.

In Sanskrit, Marigold is called as Sthulaphuspa which signifies the 'trust in God' and 'the will to overcome obstacles.' In addition to this, in Indian tradition Marigold symbolizes goodness and is offered to God as a symbol of surrender, as the saffron color signifies renunciation.

Using marigolds for decoration keeps the pests at bay and adds brightness and beauty to our homes on Diwali.

Taking a cue from there, Organo Et School on Saturday, the 22 October 2022, welcomes you all to join us at OES Children's Farm Campus at Kesaram near Chevella, for a festive nature activity on the auspicious occasion of Diwali.

Here, we will help you enter the marigold fields to pluck flowers

with your own hands. You do this as a family. After collecting the flowers, you come back to the sitting area with all the flowers. Here, OES team will help you learn to string the marigold flowers into garlands.....

We have invited the local village folk, to guide you to make garlands with as many flowers as you want. And the best part is you get to take all these garlands back home with you to decorate your home for Diwali on Sunday.



Program Details:

Day for the festival: Saturday

Date of the festival: 22nd Oct 2022

Time of the festival: 3:00pm - 5:00pm (We request all our guests to come to the farm sharp at 3pm, as it gets dark early these days.)

Venue:
Organo Et School Farm Campus,
Kesaram.
https://goo.gl/maps/xzwzK6d3sVjYCeWGA

Registration Fees: Rs.1000/ family. Tea and snacks will be served. Register my family for the Marigold festival.

Please join us for this special experience of starting your Diwali, being in the lap of nature and adorning your house with natural decoration made with love and contribution of your family.

# About Organo Et School (OES)

We recognize that for any positive impact to be sustainable, it must be long-term and inter-generational. Organo Et School strives to create an apt learning environment that will support and empower families as well as individuals to embrace sustainable living mindsets and habits.

Organo Et School is a learning initiative set up by Organo in 2017 and has been facilitating field visits and workshops for Schools and Interest Groups. Organo Et School has had over 25+ schools, 6000+ students and 2500+ adults participate over the last 4 years.

We believe in connecting children & adults with nature. Connecting children with the natural world at a young age is the first step in creating responsible stewards for our collective future.

If you or your children are interested in future Be a Farmer programs, please contact us at **oes@organo.co.in** and by phone **9154100775** today! You can also click here to express your interest. We will keep you posted on our future farm cycles.

Follow OES on Instagram: <a href="https://www.instagram.com/organo\_et\_school/?hl=en">https://www.instagram.com/organo\_et\_school/?hl=en</a>

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Water is the source of life.
At Organo Antharam, we understand how precious it is and have taken all measures to preserve water.
You can soak your feet or take a dip, refresh your mind.



Witnessing the food that lands on your plate is an everyday reality at Organo Antharam. In keeping with our core principle of Saptha Patha (Seven Strands of Sustainability), our focus is on growing safe food for our residents.



### Shilpa Reddy in conversation with Nagesh Battula

What happens when two brilliant minds engage in a heart-to-heart? Watch Shilpa Reddy, a multifaceted influencer and Nagesh Battula, Founder-CEO of Organo Eco Habitats in action to find out...



On-site photographs at **Organo Antharam** 



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