

# *Bioenzyme Entrepreneurs Academy*

## *Events & Achievements*

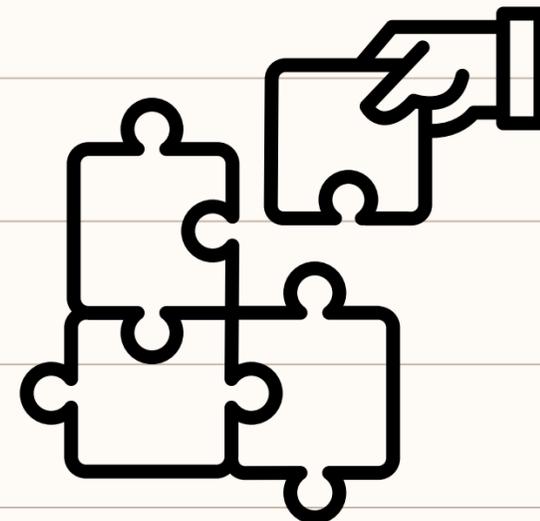
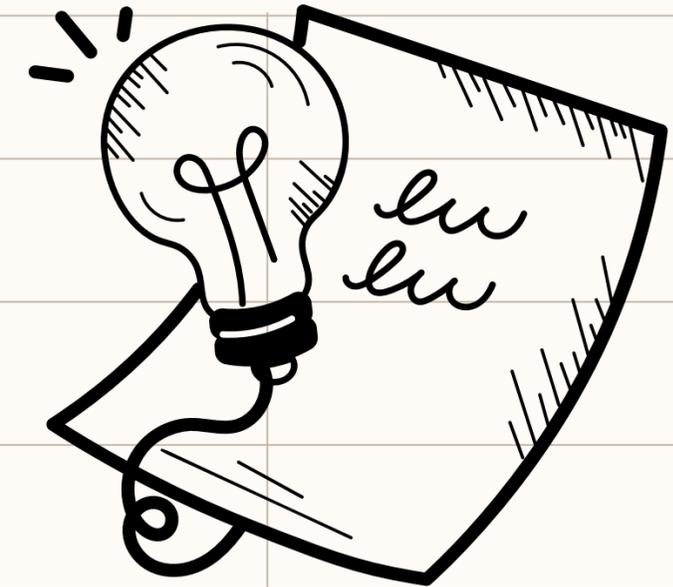
### *Chronological Report (2021–2025)*



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# *About BEA*

The Bio-Enzyme Entrepreneurs Academy (BEA), India is the national apex body promoting bioenzymes for sustainable living and livelihood. It leads education, research, training, and entrepreneurship through workshops, internships, and collaborations with universities. BEA supports quality control, business mentoring, and policy alignment. It actively contributes to environmental restoration by applying bioenzymes to rejuvenate water bodies and reduce the load on urban waste systems, while fostering a growing network of producers, trainers, and eco-entrepreneurs across India.



# Vision

To build a sustainable, zero-waste world by empowering communities to transform household waste into valuable natural resources, thereby restoring ecosystems, enhancing livelihoods, and nurturing environmental stewardship across India.



# Mission

To drive a nationwide movement of community-based entrepreneurship focused on bioenzyme innovation, waste-to-resource solutions, and ecological restoration. Through training, research, quality standards, and inclusive support, we aim to cultivate a strong network of micro-entrepreneurs and changemakers committed to creating zero-waste homes, schools, campuses, and communities.



# 2021



Three like-minded individuals came together and officially registered the Bio Enzyme Entrepreneurs Academy (BEA) on 21st March 2021. And slowly adding more experts to the Board.

Sept 2021 – Launch of Bioenzyme Entrepreneurs Academy The official launch of BEA introduced the academy's mission to promote sustainable living, bioenzyme awareness, and community empowerment.



The academy quickly gained attention for its innovative approach to sustainability education, offering the membership to equip aspiring entrepreneurs with the skills and knowledge needed to create and market bioenzyme products. Through workshops, mentorship programs, and hands-on training, BEA aimed to foster a new generation of leaders committed to environmental stewardship and social impact. The launch event featured inspiring talks from industry experts, interactive demonstrations, and opportunities for networking, setting the stage for a vibrant community dedicated to making a positive difference in the world.



# 2021



## Soul Talks – Nature Stories

Nandhitha



I am Nandhitha, a self taught sustainable artist and avid nature lover. I worked as a software developer for couple of years and then I quit my job to pursue career that connects me with nature. Soon I revived my childhood hobby of painting which made me question about the ingredients in art supplies and I started experimenting about natural paints and pigments. The process of making my own paints and inks from plants, rocks and soil is very meditative. Connecting with nature through colours gives me immense happiness and I am looking forward to share my journey with you all

Harshitha



I completed my Bachelor's of Electrical Engineering from the Visvesvaraya Technological University, worked in TCS for 1.5 years as assistant engineer and have four years of experience working in the development sector. I have worked with the farmers in rural areas of Maharashtra through SBI Youth for India fellowship to promote natural integrated farming and to get maximum utilization and yield per unit area. Post fellowship I have worked with farmers of Karnataka to create direct market linkages through an enterprise called Vedah farms.

I happen to finally decide on living a slow life and contemplation and this is when my life began to find a new perspective. As a person who is always interested in trying out and learning new things, I wanted to bring together both art and agriculture and started Gida-Living colours that make natural watercolour paints using plants, soil and agricultural wastes.

Manya



Manya is an artist and nature lover at heart - which leads to all the other hats she wears - including but not limited to - Natural Dyer, Educator, Creative Entrepreneur, Natural Dye Consultant and Business Coach for Creators. She has previously co-founded a startup and been in the field of design, creativity and entrepreneurship for the last 8 years. She holds a dual degree in Business and Arts Administration from University of Virginia, USA. Her background in fine arts, a keen interest in design and love for nature led her to the practice and propagation of natural dyeing. To her, natural dyeing is not just a beautiful craft form - it is the answer to pollution caused by synthetic dyes. It is a mindset and a way of living and creating in harmony with nature. Manya designs garments, lifestyle products, signature textiles, learning experiences and more under her brand, Treehouse. TEACHING & CONSULTING Manya's goal is to help people reconnect with nature. She conducts online and in-person workshops to introduce people to the world of natural colours. She has taught 3500+ people natural colour making; including school children, college students, fashion designers, design students, researchers and artisans. She also works with designers and artisans to help them switch to natural dyes. Many of her students have started their own brands and naturally dyed products since learning the skill. She has been invited to conduct group training sessions on natural colours for companies such as Ralph Lauren, Alfassian, NetApp and institutes such as JD Institute of Fashion Technology and Mount Carmel College.

## Soul Talks – Nature Stories

Nature EsSense - The freedom from chemicals  
An Exploration through Theatre

Creating an action plan through Interactive Theatre



If Aristotle's famous quote "We are what we habitually do..." is viewed from this phrase, it totally holds true for our current environmental situation. Though we are aware of our environmental issues yet we are slaves of our own habits. What drives and sustains change needs effective thinking, and actions in the right direction. Yielding mediocre results from our thinking and our habits by making changes is not enough anymore. We need to work towards more robust practices and overhauling of our attitude.

There are serious ways to put things into perspective.

And there are fun ways too...

Theatre can be one profound tool. Yet a fun way to reach a breakthrough to address this issue.

Breaking our habits, developing Mindfulness

Theatre helps us to move towards open communication, self introspection and begin to create our desired realities in an active and entertaining way.

In this Interactive Theatre workshop we use Theatre tools and theatre games that evoke subconscious thought processes, which have often proven useful in initiating insightful discussions on complex topics. Environment Justice is one such complex issue.

Let's collaborate and exchange ideas of transformation through an "Action Plan" and together we take Environmental Justice in our hands that which are vital to create essential ecological insights.

Facilitator: Nisha Bhimalah

Practitioner and Facilitator of Augusto Boal's Theatre for Oppressed and David Diamonds Theatre for Living

## Soul Talks – Nature Stories

Shagun Singh

Program Moderator – Priti Rao



Shagun Singh comes from a corporate background and has led operations of MNCs through SE Asia. She is the Founder of Geeli Mitti Farms and Foundation.

The organisation specialises in generating sustainable livelihood opportunities for marginalised and rural communities. They are also thought leaders for ecological house and permaculture design. The Geeli Mitti Research cum Training Centre in Nainital conducts courses on natural house techniques, water and waste management, tourism, integrated farming and multi-skill training.

## Launch of Soul Talk

- 8th August 2021 marked the global launch of BEA, inspired by the spirit of the Quit India Movement—a day of resolution and unity.
- Eight members came together to create a public platform to unite BioEnzyme makers and eliminate harmful chemicals from daily life.
- The two-day virtual event featured 8 sessions with global participation via Zoom and YouTube Live.
  - Day 1: Let the River Talk, Nature EsSense, Learning with Shrekanth, Soil Talk
  - Day 2: Nature Colors, Playback Theatre, Handcrafted Homes, and a Grand Finale with Dr. Joean and a voice message from Dr. Rosukon.

# 2022



## **BEBI - Bioenzyme Bank of India, Raipur**

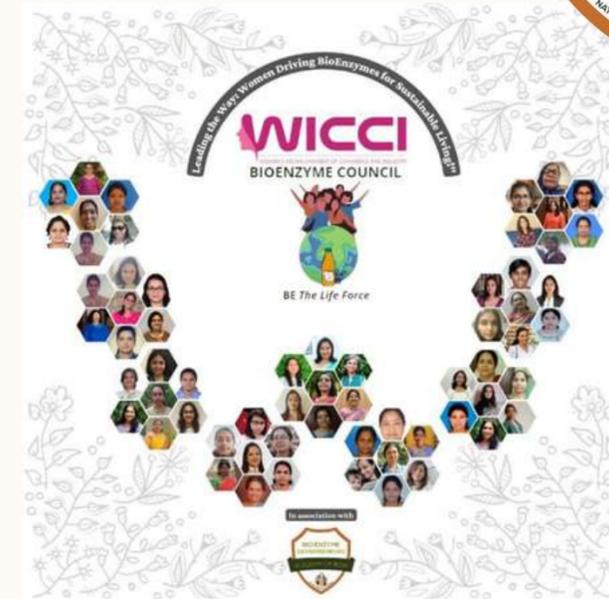
The Bioenzyme Bank of India, managed by our Chief Enzyme Officer in Raipur, stands as a powerful model of community-driven sustainability. With over 1 lakh liters of bioenzyme fermented, this single facility has diverted an estimated **90,000 kg** of wet waste from landfills. It also serves as a national distribution point for bioenzymes donated to restore **water bodies, treat landfills, and support ecological regeneration across India.**

We aim to establish a **Bioenzyme Bank in all 775 districts of India.** These decentralized hubs will:

- **Enable localized waste-to-resource transformation**
- **Provide free or subsidized bioenzymes for environmental restoration**
- **Train communities in bioenzyme production and application**
- **Strengthen the Zero-Waste India movement**

This vision aligns with our commitment to addressing all 17 Sustainable Development Goals (SDGs) by empowering people, regenerating ecosystems, and creating circular green economies at the grassroots.

[www.beacademy.in](http://www.beacademy.in)



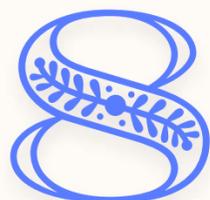
## **Formation of WICCI Bioenzyme Council**

A national women-led initiative to promote the HarGharBioenzyme campaign and take the mission of natural living to every household in India.

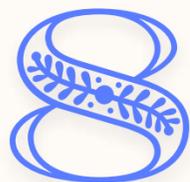
**25 State President & Vice Presidents**

**125 members**

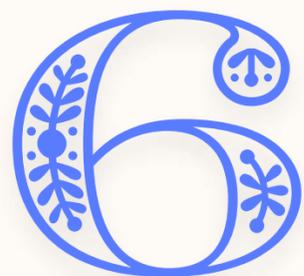
165  
Interns in last 3 years



Books



Training Modules



PhD Scholars

### Focusing on Program Documentation

Internship Program Initiated BEA launched its internship program, providing students with hands-on experience in bioenzyme production, application, and entrepreneurship. Over 150 interns have been trained since its inception, contributing significantly to research, content development, and community outreach.

### Books

exclusive books on bioenzyme applications are written first time in the world

### Training Modules

- Farmers
- Students
- Researchers
- Entrepreneurs



# 2023

## Early Expansion Phase

Internship Program Initiated BEA launched its internship program, providing students with hands-on experience in bioenzyme production, application, and entrepreneurship. Over 150 interns have been trained since its inception, contributing significantly to research, content development, and community outreach.

## Launch of Training Module Books

Training manuals and handbooks were developed and released based on the structured modules for agriculture and microbiology.



## Launch of Thematic Training Modules

- Bioenzyme for Agriculture
- Bioenzyme for Microbiology
- Bioenzyme for Natural Farming (in collaboration with National Centre for Organic and Natural Farming, Govt. of India)

## Organised G20 Summit on Environment Sustainability and Bioenzyme

bioenzyme initiatives at the G20 Environmental Sustainability summit at Mumbai University.

# 2024



## Apr 2024

- Harnessing Bioenzymes for Sustainable Agriculture – Techniques to reduce chemical inputs.
- Harnessing Power of Bioenzymes – Broader reflection on bioenzymes as a sustainability solution.
- Formation of Managing Committee



## May 2024

- International Compost Day Celebrations – Community events to promote composting with bioenzymes.
- Youth Empowerment through Training – Hands-on training for youth in bioenzyme entrepreneurship.



## June 2024

- World Environment Day Activities – Bioenzyme demos and campaigns.
- World Bioenzyme Day Webinar – Expert talks and community stories.
- Skill Development via Bioenzyme Tech – Career-oriented workshops.



## July 2024

- Bioenzyme in Soil Setting – Focus on agricultural use.
- Water Restoration Projects – Bioenzyme use in reviving polluted water bodies.
- Larger Purpose of Bioenzymes – Holistic environmental value.



## August 2024

- Supporting Local Farmers – Use in thoughtful agriculture.
- **August 25, 2024 Major Milestone: Central Cabinet Passes BIOE3 Policy**
- **Recognizing bioenzyme-based solutions under national sustainability initiatives.**



### Bio E3: Biotech for Economy, Environment & Employment

- 1) Bio chemicals, bio enzymes, bio polymers
- 2) Smart proteins and functional foods
- 3) Precision Bio therapeutics – for example: Gene therapy for sickle cell anemia
- 4) Bio fertilizers, bio pesticides
- 5) Bio fuels and bio chemicals – example: using captured CO2
- 6) Marine and Space applications



# 2024



## September 2024

- Green Tomorrow: Beyond 1:3:10 – Planning long-term impact.
- Launch of Product Design Training (Beyond 1:3:10) – Entrepreneur-focused training for eco-product innovation.

## October 2024

- Launch of Business Management Modules – Designed to support micro-entrepreneurs in scaling bioenzyme businesses.

## November 2024

- Education, Employment, Environment – Triad model to create livelihood in green sector.

## December 2024

- Launch of GreenHome – Eco-friendly product line.
- GreenEDU Launch – Platform for education in bioenzymes.
- STREE 2024 National Expo – National recognition.
- Skill Development Program (23rd NSDP) – Empowering youth.
- Bioenzyme Transformation (BE@T) Program Launch – Large-scale entrepreneurship support.
- National Webinar on Bioenzymes – Research and outreach.
- Workshops: Rodas Enclave, J M Baxi, Vasant Vihar School, Composting Training.
- Young Minds in Schools – School collaborations.
- World Environmental Health Day Celebration.

## Collaborations Established

- With IIT Jodhpur, Bangalore University, and Centurion University for research, training, and validation.

# ETCHING A NAME IN THE WORLD HISTORY

# BIOE3

Policy

**Shri. Ashwini Vaishnaw  
announced the BIOE3 in  
the Central Cabinet**

All the work done by BEA on Soil, Air & Water including trainings, module, projects, impacts it has created in society & environment has been shared time to time to Shri Ashwini Vaishnaw

Its first time in the world history a country has recognised the importance of bio-technology for the livelihood and environmental growth



## Bio E3: Biotech for Economy, Environment & Employment

- 1) Bio chemicals, bio enzymes, bio polymers
- 2) Smart proteins and functional foods
- 3) Precision Bio therapeutics – for example: Gene therapy for sickle cell anemia
- 4) Bio fertilizers, bio pesticides
- 5) Bio fuels and bio chemicals – example: using captured CO<sub>2</sub>
- 6) Marine and Space applications

# 2025



## January 2025

- Launch of 1<sup>st</sup> BE@T campaign
- World Bioenzyme Day Celebration
- Swachh Bharat Collaboration – Haryana
- Intern Acknowledgement Post – Celebrating intern contributions

## February 2025

- Entrepreneurship Empowerment Program
- Rose Festival, Chandigarh Awareness Event
- Workshops: JNV Doda, NCB India
- Eco-friendly Product Showcase

## March 2025

- Living in Harmony with Earth – Sustainable lifestyle guide
- Entrepreneurship: The Journey
- Reclaiming Value in Education

## April 2025

- Verde Vasundhara 2025 – Sustainability innovation event
- Gift the Earth Loves Back – Eco gift campaign
- Launch of Knowledge sharing platform for skill development

## May 2025

- WSDM 2025 – 3rd Pre-Summit (Bengaluru) of World Summit on Disaster Management– Participation in disaster resilience forum
- Bioenzyme Applications in Disaster Management



# Overall Summary and Achievements



## 2021 - 2025



Summit on Environment Sustainability  
and Bioenzyme

- **Education, awareness**, and skill-building via blogs, videos, and events.
- Strong push for **women's empowerment**, youth training, and local entrepreneurship.
- **Advocacy** at state, national, and global levels (**Swachh Bharat, G20, WSDM**).
- Institutionalization of efforts through **BIOE3 Policy**, BE@T Campaign, and school/corporate partnerships.
- Consistent message of **environmental restoration**, zero-waste living, and green economy building.

# Overall Summary and Achievements



It has just been little less than a year since we launched BEA.

Acceptance from our stakeholders is overwhelming. We've achieved small, but significant progress.

This wouldn't have been possible without your support & encouragement.

We are motivated to continue the good work, going!



**600** plus members added



**30** Waterbodies restored



**40** plus entrepreneurs being mentored



**150** plus Organisations reached out



8 new expert advisors onboarded



100 plus Seminars delivered



**1st** World Bioenzyme Day (4th Jan) celebrated



**1st** BE council initiated at WICCI (Women's Indian Chamber of Commerce & Industry)



**1st** International SEED (Skill Enhancement Entrepreneur Development) Program, in Rayong



**1st** SEED India (Skill Enhancement Entrepreneur Development) Program, in Central India



G20 Summit on Environment Sustainability and Bioenzyme (International Conference) Mumbai



World Record of Batching Bioenzyme from 300Kg waste in 45 secs, Surya Chandra Palace School, Wanaparthy, Telangana

# Data



## Workshops

226



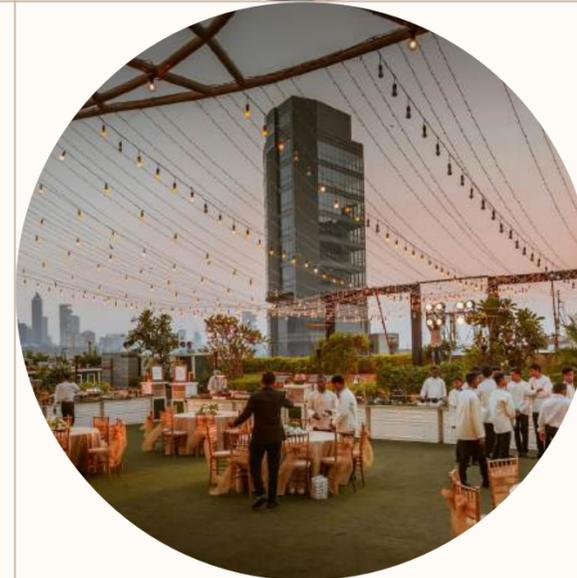
## Interns

165



## Remediation Projects

32



## Events

20

# *Social Media*



## **Blog**

This is the link to our blog.

[.https://bioenzymeacademy.blogspot.com/](https://bioenzymeacademy.blogspot.com/)



## **Instagram**

[@BioenzymeEntrepreneursAcademy](https://www.instagram.com/BioenzymeEntrepreneursAcademy)



## **Youtube**

This is the link to our Youtube Channel

<https://www.youtube.com/@BioenzymeEntrepreneursAcademy>

# *Collaborations*



- IIT, Jodhpur
- Bangalore University
- Centurian University, Bhubaneswar
- Holkar Science College, Indore
- MG Science Institute, Ahmedabad
- Moolrishtee, Chandigarh

• *BIT, Mesra*

• *IIT, Kanpur*

• *IIT, Delhi*

• *Osmania University*

# BEA & the 17 SDGs: Our Commitment in Action



## 1. No Poverty (SDG 1)

- Creates livelihood opportunities through local bioenzyme-based entrepreneurship.

## 2. Zero Hunger (SDG 2)

- Promotes natural farming and soil rejuvenation for better food security and yield.

## 3. Good Health and Well-Being (SDG 3)

- Encourages toxin-free homes and personal care using natural alternatives to harmful chemicals.

## 4. Quality Education (SDG 4)

- Conducts training, internships, and skill-based courses aligned with NEP 2020 for schools, colleges & Universities

## 5. Gender Equality (SDG 5)

- Empowers women-led enterprises through WICCI Bioenzyme Council & HarGharBioenzyme campaign.

## 6. Clean Water and Sanitation (SDG 6)

- Uses bioenzymes to restore polluted water bodies and improve sanitation systems.

## 7. Affordable and Clean Energy (SDG 7)

- Promotes low-energy, sustainable alternatives like bio-gas and waste-to-resource practices.
- Products are made with natural fermentation, involves no energy

## 8. Decent Work and Economic Growth (SDG 8)

- Builds green livelihoods through entrepreneurship support and market access.

## 9. Industry, Innovation and Infrastructure (SDG 9)

- Encourages grassroots innovations and standardization in eco-product manufacturing.

## 10. Reduced Inequalities (SDG 10)

- Offers inclusive access to training and enterprise support across rural and urban India.

## 11. Sustainable Cities and Communities (SDG 11)

- Builds capacity for zero-waste living in homes, housing societies, and campuses.

## 12. Responsible Consumption and Production (SDG 12)

- Drives behavior change toward natural products and mindful packaging.

## 13. Climate Action (SDG 13)

- Reduces chemical use and carbon footprint through eco-friendly daily solutions.

## 14. Life Below Water (SDG 14)

- Prevents plastic and chemical runoff from entering aquatic ecosystems.

## 15. Life on Land (SDG 15)

- Restores soil health and biodiversity through natural farming and composting.

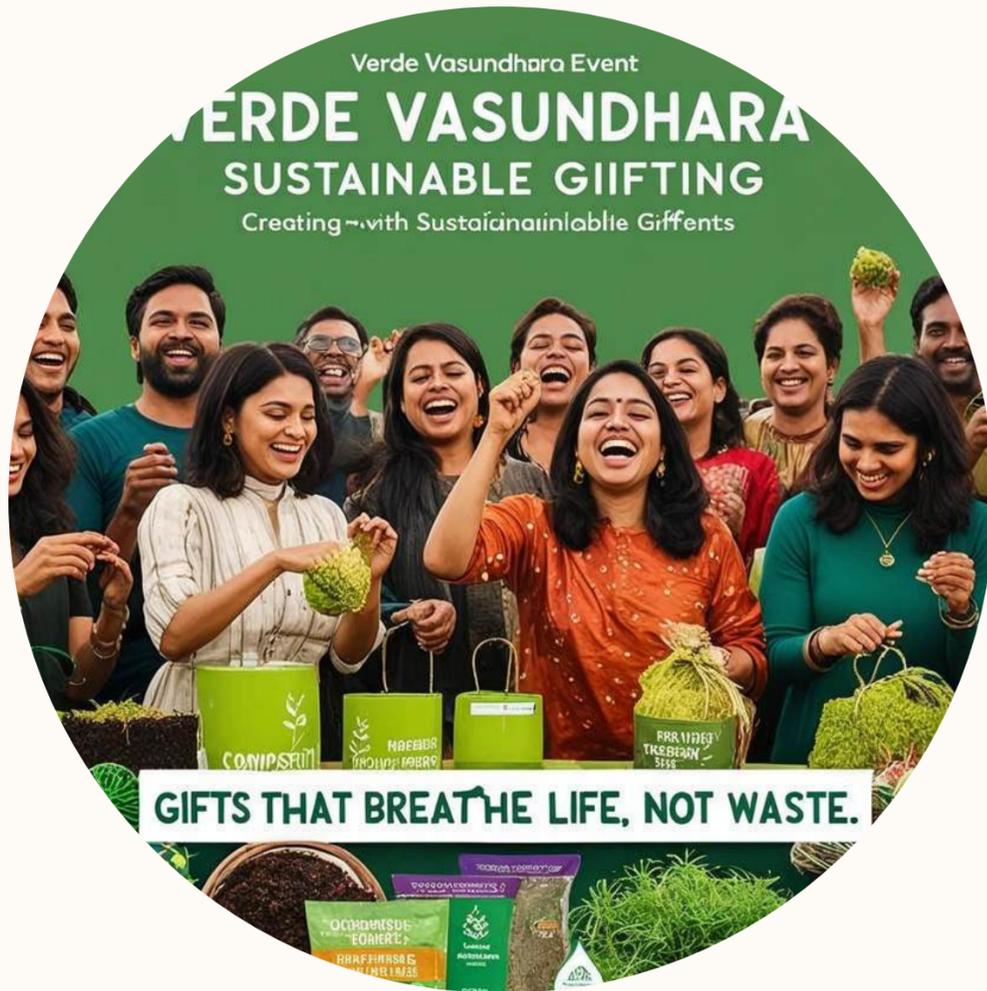
## 16. Peace, Justice and Strong Institutions (SDG 16)

- Works transparently with government bodies and communities to promote participatory action.

## 17. Partnerships for the Goals (SDG 17)

- Collaborates with universities, government, NGOs, and global networks to scale impact.





*Thank You*



***The best is yet to come!***

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