



PENCIL FOR CHANGE



2024



The development of Paradip Port Sea Beach as a sustainable, eco-friendly space offers a comprehensive and holistic approach to both environmental conservation and community engagement. The concept integrates several innovative elements, blending functionality with aesthetics while ensuring minimal ecological impact. Here's an in-depth look at how these various components can work together to create a sustainable and culturally significant space:



Port Authority
of Odisha



Port Authority
of Odisha

JSW
Steel

Arco Odisha
Steel



Arcolor Mittal
Nipponi Steel



PARADIP SEA BEACH
PORT AUTHORITY
OF ODISHA
NIPPONI STEEL

JSW

ARCELOL MITTAL
NIPPAL STEEL

NIPPONI STEEL



1. Sustainable Infrastructure & Materials

- **Recycled & Upcycled Materials:** Key infrastructure such as lighthouse, viewing points, booths, and sit-outs will be constructed using upcycled shipping containers, boats, trawlers, fishing nets, and other marine waste materials. This not only reduces waste but transforms what would otherwise be discarded into functional, aesthetic elements.
- **Bio-degradable Materials:** Construction of kiosks, paths, and benches will incorporate bio-degradable materials like bamboo, terracotta tiles, earthen clay, and other sustainable substances. This reinforces the idea of sustainability and minimizes long-term environmental impact.
- **Passive Draught Cooling Towers:** These towers use natural airflow to cool spaces, reducing the need for mechanical cooling and saving energy. This aligns with principles of passive design and sustainable architecture.
- **Solar Lighting:** The entire space will be illuminated by solar-powered lighting, reducing dependence on the grid and making the site more energy-efficient.





JOGGING WATER

SLEATING

SKATIKOS

LOGG TRACK

DRINKING
KOKIOS

SURF & TUBING
SOLEBOING

DRINKING KODDS

ENTERTAINMENT WATER

2. Recreational & Social Infrastructure

- Jogging Track, Skating Rink & Cycle Track: These pathways will not only encourage a healthy lifestyle but will be integrated with eco-friendly paving materials such as stone, red bricks, or mud, reducing the environmental footprint. The cycling track could promote sustainable transport as an alternative to gas-powered vehicles.
- Outdoor Sports Area: Designed with sustainable materials, this space can offer activities such as beach volleyball, badminton, or frisbee, making the beach area a vibrant community hub.
- Resting & Sleeping Pods: Constructed with eco-friendly materials like bamboo and wood, these pods could be used for short breaks and even overnight stays, offering a sustainable alternative to traditional accommodation.
- Kiosks for Food, Water, Toilets: The food kiosks could feature locally-sourced organic food, reducing transportation emissions. Water kiosks could promote hydration with recycled water systems or solar-powered water purifiers. Toilets would be eco-friendly, using composting or water-efficient systems.





JOGGING WATER SEAG

STONING

NOTHING

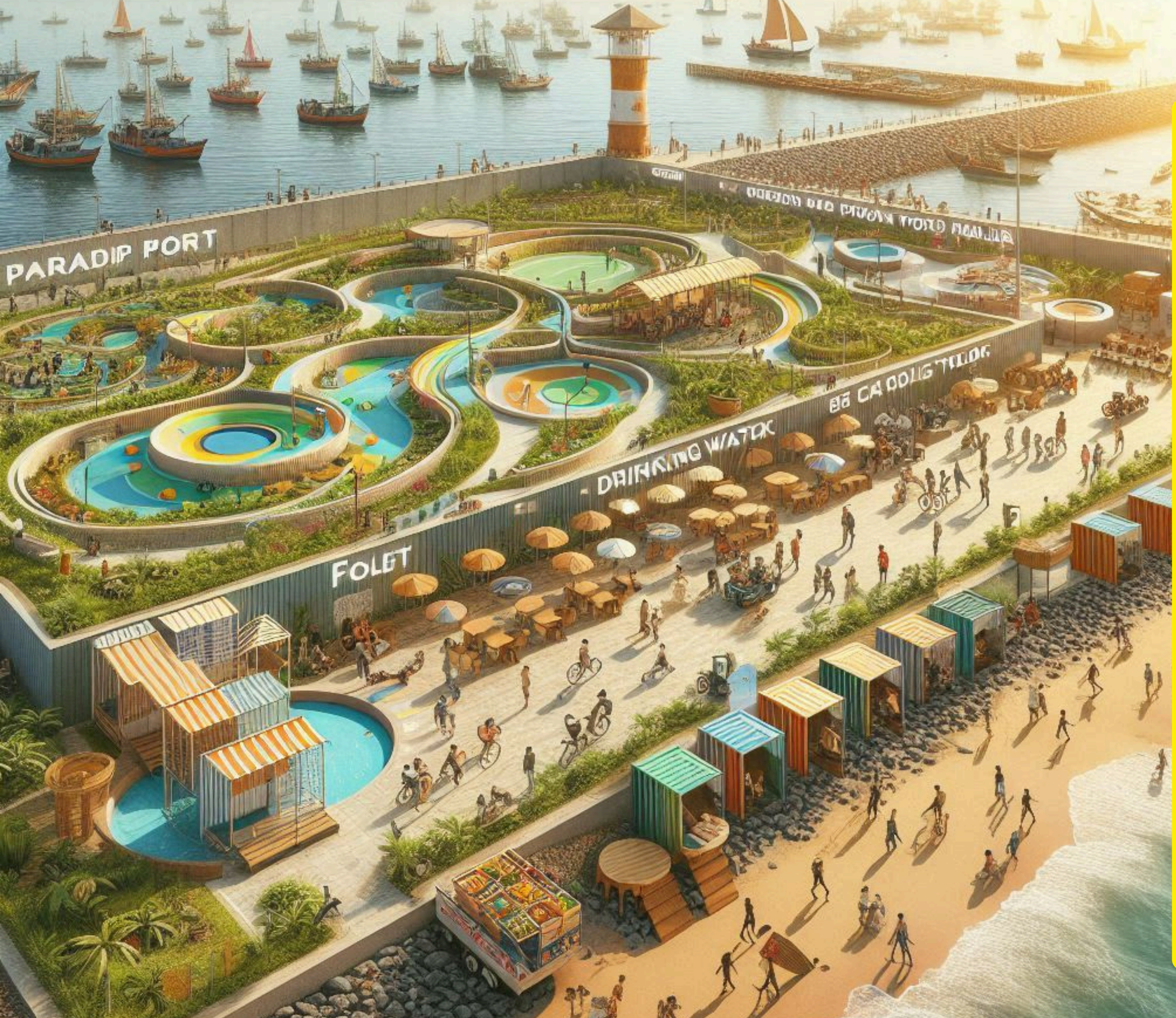
NOTHING

SPARKING

SKATING

NOTHING

NOTHING



3. Landscaping & Green Spaces

- Gardening & Herbal Garden: The site would feature lush gardens, including an herbal garden with medicinal plants, and a kitchen garden that could provide fresh produce. Native plants that require minimal water will be prioritized to conserve resources.
- Lily Pond & Bio Pools: These water features could serve as habitats for local flora and fauna, while also promoting ecological health by using natural filtration systems.
- Outdoor Wooden Gazebo & Bamboo Trellises: Providing sheltered spaces for relaxation and connection with nature, these structures would be crafted from locally sourced and sustainable materials.



PARADIP PORT

FOLET

DRINKING WATER

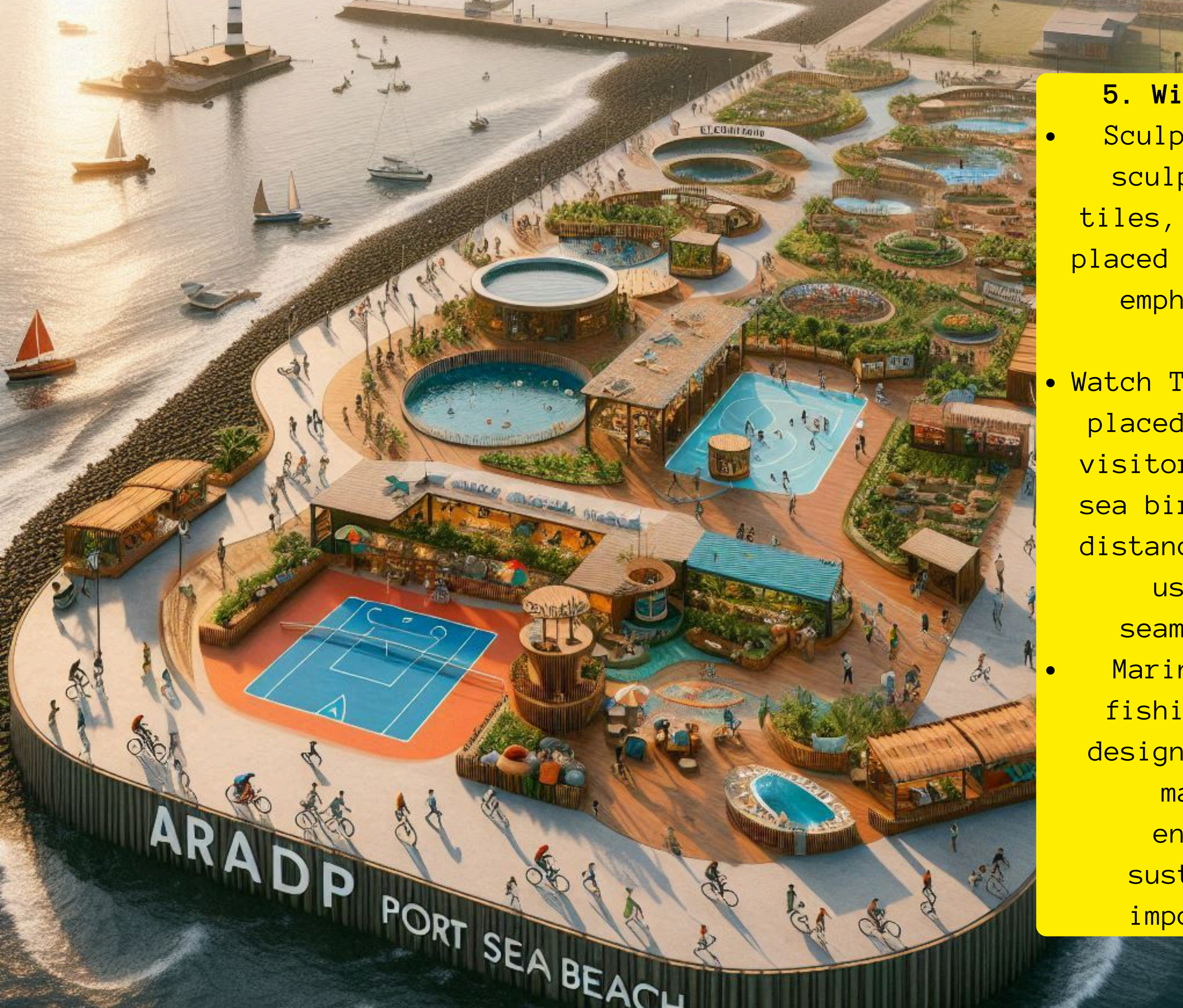
BÀ CÁ ĐÔNG TÙNG



4. Cultural & Environmental Engagement

- Art Installations: A series of art installations can tell the story of the mythology of Sadhaba Bohu and the Bali Yatra of Odisha, two important cultural and spiritual traditions from the region. These installations would blend art and sustainability, perhaps incorporating elements such as terracotta sculptures or bamboo to create pieces that raise awareness about environmental issues.
- Environmental Awareness: The installations could also serve as an interactive medium to educate visitors about the interconnectedness of humans, nature, and pollution. By using powerful symbolism and engaging storytelling, these installations could inspire action on climate change and the need for collective responsibility.





5. Wildlife & Ecological Conservation

- **Sculptures of Sea Animals and Birds:** The sculptures made from bamboo, terracotta tiles, and other natural materials could be placed along the pathways or in the gardens, emphasizing the diversity of life that thrives in coastal ecosystems.
- **Watch Towers & Viewing Points:** Strategically placed around the beach, these would allow visitors to observe local wildlife, such as sea birds and marine creatures, from a safe distance. These towers could be constructed using upcycled materials, blending seamlessly with the natural landscape.
- **Marine Conservation:** The integration of fishing nets, boats, and trawlers in the design serves to create a narrative around marine pollution and overfishing, encouraging visitors to reflect on sustainable fishing practices and the importance of preserving marine life.





6. Water Management & Conservation

- Rainwater Harvesting: Incorporating systems for collecting and using rainwater can help sustain the various gardens, water features, and other green infrastructure without depleting local water resources.
- Bio Pools: Natural swimming pools that use biological filtration instead of chemicals provide an eco-friendly alternative to traditional chlorinated pools. These pools could also help filter and clean stormwater runoff.

7. Energy Efficiency & Renewable Resources

- Solar Panels: Strategically placed solar panels will power lighting, kiosks, and other essential services, ensuring that the site operates on renewable energy.
- Wind Energy: If possible, wind turbines could be incorporated along the coastline to further harness renewable energy.





8. Ecological Pathways & Sustainable Transit

- **Stone, Mud, and Brick Paths:** The pathways could be made from locally sourced materials like stone, red brick, and mud, providing a natural, permeable surface that allows water to seep through and support the local ecosystem.
- **Cycle and Walking Paths:** Encouraging visitors to walk or cycle promotes a more sustainable and healthy mode of transportation while minimizing carbon emissions.

Conclusion

This sustainable development of Paradip Port Sea Beach is a visionary project that fuses environmental stewardship with cultural heritage, creating a space that is both socially and ecologically responsible. Through its emphasis on eco-friendly materials, renewable energy, and community engagement, it not only protects the environment but also educates the public on the importance of sustainability. By integrating elements of local culture (Sadhava Bohu, Bali Yatra), the project also fosters a deeper connection to the region's traditions and the natural world. The development would not only enhance the local tourism industry but also act as a living example of how to balance development with environmental preservation.



Pencil For Change promotes sustainability by providing innovative ways to use natural materials like handmade coconut coir rolls in beachside development, gardening and land management.

Biodegradable



Using natural materials like coconut coir supports eco-friendly practices.

Living Tube

Energy efficient



A seasoned treated bamboo gateway and tunnel for landscaping, garden pathways and educational spaces in the beach side development is both functional and beautiful.

Beautifully crafted

Biodegradable



Bamboo and coconut, jute thread are renewable resources and sourced sustainably. Provides a habitat for local wildlife, especially when climbing plants are there.

Environmentally conscious



CNC cut G.I. Bata Briksha & water concept

Encourage community involvement in maintaining the installations & development, fostering a sense of ownership and connection to the space. This installation can represent the harmony between tradition and nature, symbolizing nourishment, growth, and the importance of water in both spirituality and ecology.

Biodegradable



Community & traveller Engagement Spaces focused on sustainability and ocean conservation.- Relaxation Area - comfortable seating area is designed consciously with GI pipe, seasoned bamboo, coconut, jute thread.

Environmentally conscious

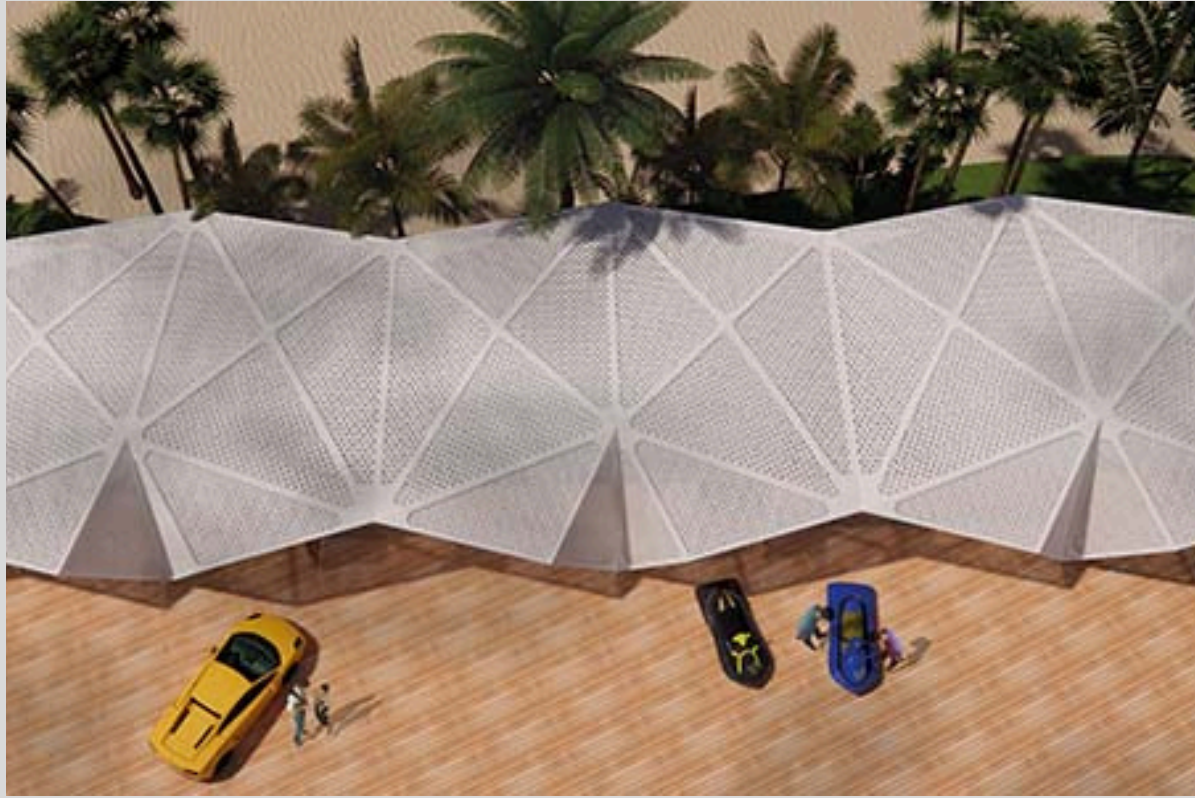
Upcycled



By integrating eco-friendly practices and promoting ocean conservation, upcycled ocean pollution materials and seasoned bamboo pavilion aims to foster a sense of responsibility towards the environment and encourage visitors to embrace sustainable lifestyles.

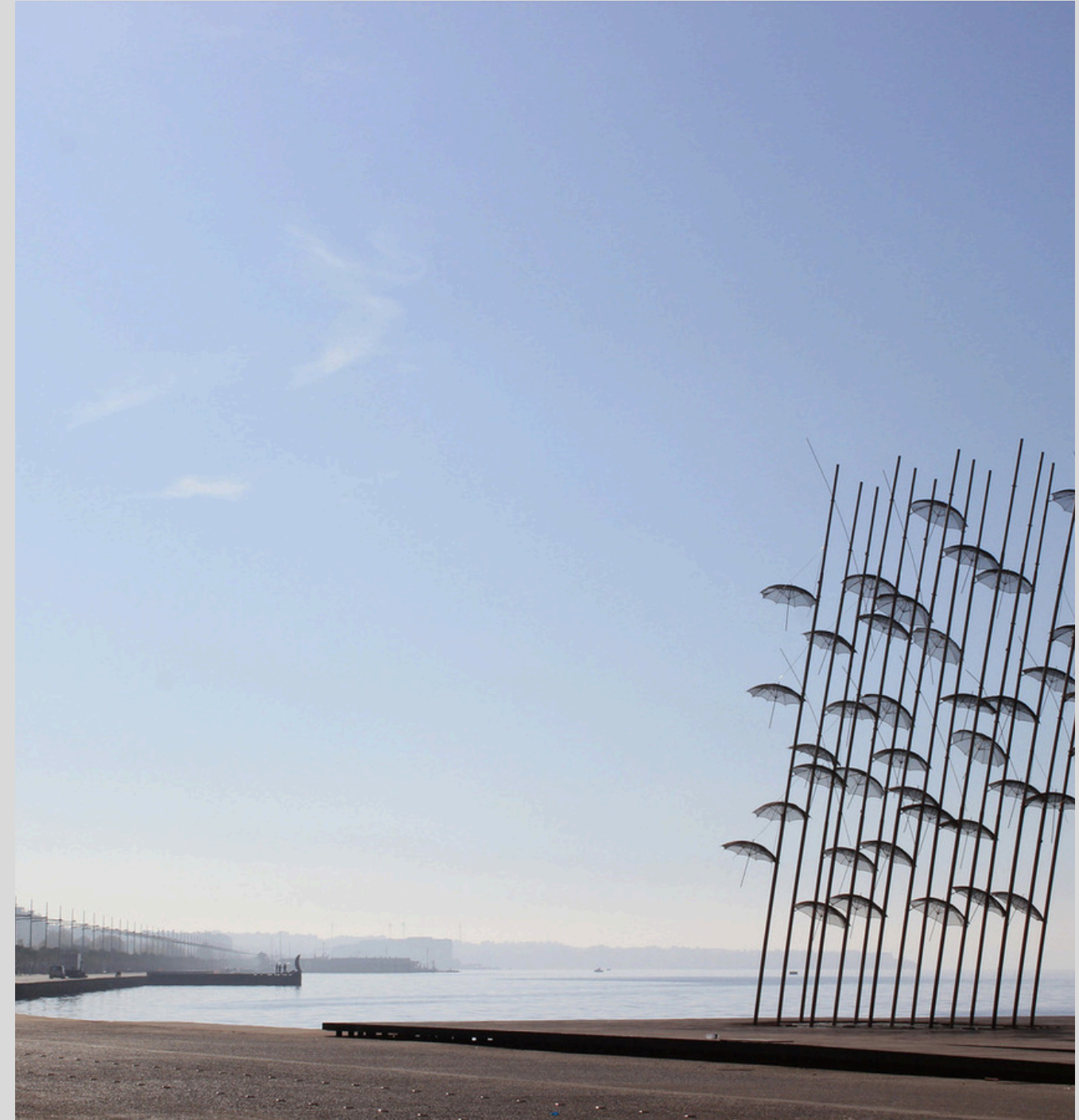
Environmentally conscious

Relocated



Voronoi shade from bamboo, coconut, jute thread

Natural stone



Pipili Umbrellas

Conscious design



Community & traveller Engagement Spaces focused on sustainability and ocean conservation.- Relaxation Area - comfortable seating area is designed consciously by upcycling oil drums where visitors can relax, enjoy and connect with others.

Environment friendly





Kids interactive elements to promote water conservation and passive energy



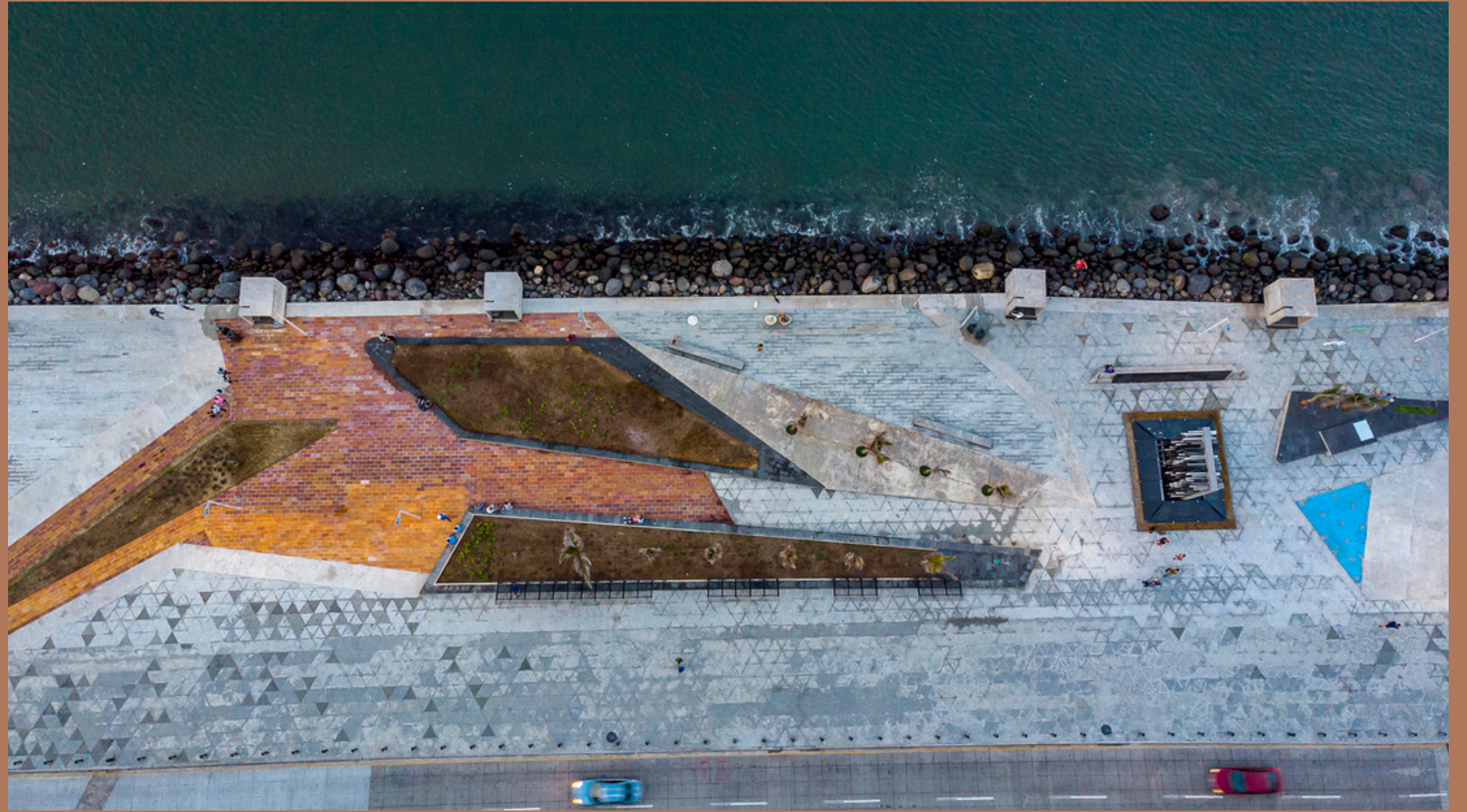
Urban furnitures that incorporate playful elements to encourage interaction among pedestrians



Urban furnitures that incorporate skating & cycling













Cooling Towers in the beach

Water conservation



Interactive Fun Learning Development

Repurposed shipping woods



Indian states costumes

Energy efficient



Pencil For Change
Environmental center & cafe



Art & Architecture will set us free! Free yourself to imagine the unimaginable.
Art of consciousness, Art of Science & Art of Technology.

Pencil for Change, a NGO : N- Nothing, G-Gets, O-Overlooked. At Pencil For Change, we strives to make this world a better place for all to coexist in harmony by taking multiple initiatives in every aspect varying from Poverty to Climate Change. All this summarizes into a single cause - "TO BRING CHANGE" , Challenging the Stereotype of masculinity by sustainable luxury & integrating cultural heritage!



CREATIVE DIRECTOR

Mr. Pattnaik Ompriya Mohanty
Entrepreneur, Environmentalist, Artist, Architect &
Social Activist

Arch Mohanty, who was brought up in rural tribal town called Muniguda, Koraput, Odisha, a serial entrepreneur, a sustainable architecture specialist, 2 times TEDX Speaker in prestigious government medical college. since 2008 he has been driving multiple social enterprise initiatives to empower the youngsters especially orphans, underprivileged children through his social enterprise “Chrysalis Foundation for self expression” , women & men, LGBTQ and marginalised communities in the bottom of the pyramid (societal hierarchy) through his sustainable architecture, interior design, fashion, lifestyle, shoes, biodegradable toys and home decor brand called Vari in London. After his sustainability study in The United Kingdom, he has published few research papers on draught cooling, natural ventilation, parametric design in Belgium, Peru, Germany and India. He is currently engaged in Pencil For Change, social and environmental conscious AI platform that helps people manage their health and wealth by cutting medicine, food & other waste. at-

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www.pencilforchange.in, www.bidding.pencilforchange.in ,
www.wastez.pencilforchange.in , www.purikhaja.com ,
www.declutter.pencilforchange.com . Presently he is having a sustainability influencer account as [@omreu](https://www.instagram.com/omreu) in , search him in “ <https://www.google.com/search?q=pattnaik+ompriya+mohanty> “



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