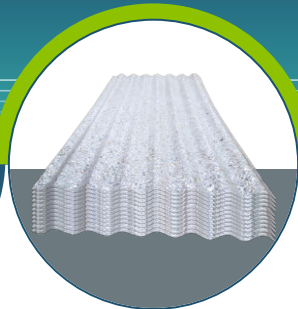




RECYCLONE
WASTE TO WEALTH



MANUFACTURER & EXPORTER OF PLASTIC COMPOSITE BOARD PLANT & MACHINERY



Some Products made
with **RECYCLONE** using
Low Density Plastic Waste

- ECO Plastic Pallets
- ECO Roofing Sheets
- ECO Paver Blocks
- ECO Furniture
- Plastic Composite Boards
- Recycled Plastic Homes

WHAT IS RECYCLONE...??

RECYCLONE is a world class end to end plastic waste recycling system integrated with various equipments. It is a turnkey solution to transforms the waste plastic in to the best sustainable utility products. RECYCLONE is a proven technology from India that establishes a complete value chain for the collection and recycling of low-grade plastics.

ENVIRONMENTAL IMPACT OF RECYCLONE

RECYCLONE creates massive environmental impact by processing & transforming 135 Million Kgs of plastic waste from the streets, rivers and municipal waste stream annually. **RECYCLONE** provides world class recycling solution for the types of plastics that are mostly found in the rivers, seas and other water bodies.

ABOUT RECYCLONE TECHNOLOGY

RECYCLONE is a world class end to end plastic waste recycling system. It is an integrated turnkey solution which is smartly integrated with various machinery & equipments. It is the most economical solution to transforms the waste plastic in to the best sustainable utility products and widely used in various industry segments.

RECYCLONE is a smartly designed and developed by a team of experienced and dedicated technocrats. Our R & D team have done extensive research to develop an end to end recycling solution with a vision to create **Waste to Wealth**.



RECYCLONE IN ACTION

RECYCLONE system installed at Nepal that turns 9000 tons of low-grade plastic into a highly valuable composite board. This innovative board can serve as a sustainable alternative to plywood, contributing to both environmental conservation and waste reduction.

This system is recognized, appreciated and funded by **World Bank**, and with implementing support from **UNOPS**. The RIVER+ project in partnership **People in Need Nepal** and **CLEAN UP NEPAL**.



#PlasticFreeRivers





RECYCLONE TECHNOLOGY PROCESS & EQUIPMENTS

RECYCLONE is an Indian indigenous integrated technology with multiple equipments and devices. It is an end to end recycling system which transforms the waste to the wealth. It smartly integrated with various equipments to perform the following multiple processes to produce the best quality sustainable utility products from Plastic Waste.

RECYCLONE PROCESS	EQUIPMENTS
Plastic Waste Sorting	Sorting Line Conveyor with Magnet Device
Feeding the waste to Grinder	Feeding Line Conveyor
Washing & Grinding the Waste	Grinder with Inclined Friction Washer
Drying the Raw Material Particles	Turbo Dryer
Weighing the Raw Material	Weighing Scale
Spreading the Material on Mould	Spreading Table
Feeding the Material For Processing	Automatic Loading & Unloading System
Hot Pressing to Convert the Particle in to the Board	Multi Daylight Hydraulic Hot Press 800 Ton Thermic Fluid Heater / Boiler
Unloading from Hot Press	Automatic Loading & Unloading System
Cold Pressing to strengthen the Composite Board	Multi Daylight Hydraulic Cold Press Cooling Tower
Cutting the Board in Precise Size & Debarring	Double Dimension Saw
Area Required for Plant	30,000 Sq Ft Built Up & 10,000 Sq Ft Open



HOW RECYCLONE WORKS



Before



Plastic Waste Washing



Plastic Waste Grinding



Spreading On Mold



Loading The Material In System



Compression With Heating



PLASTIC COMPOSITE BOARD & WPC PANELS MADE BY RECYCLONE



RECYCLONE can create the massive environmental impact by converting the low grade plastic waste from the streets, rivers and municipal waste. It creates the plastic waste into a highly valuable **Plastic Composite Boards** and **WPC Panels** with endless application. This innovative board can serve as a sustainable alternative to Plywood, contributing to both environmental conservation of Trees and Forests. These Plastic Composite Boards are also known as PlastPly or Eco Sheets used for verity of following applications.

APPLICATION OF PLASTIC COMPOSITE BOARDS & PANELS

Civil Work Applications



Reusable Shuttering Sheet



Mezzanine Floors



Stair Case



Border Fencing



Flooring

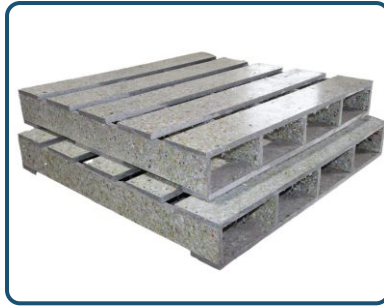


Low Cost Housing

OTHER INDUSTRY APPLICATIONS OF PLASTIC COMPOSITE BOARDS & PANELS



Ship Building



Industrial Pallets



Furniture



Rail & Transport



Plants & Equipments

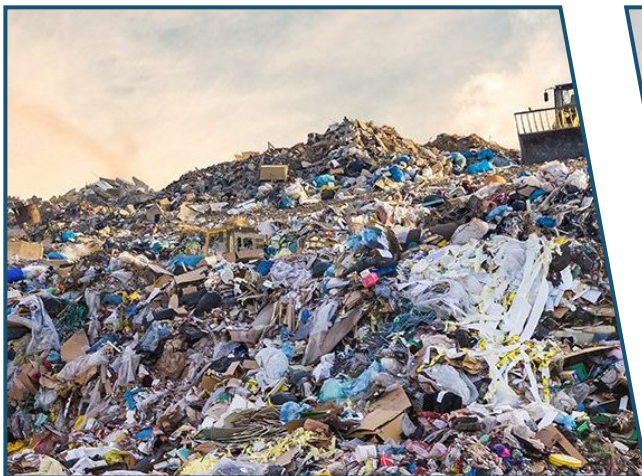


Temperary Structures

TECHNICAL COMPARISON OF PLASTIC COMPOSITE BOARDS & OTHER MATERIALS

PARAMETER	WASTE PLASTIC COMPOSITE BOARDS (WPCBS)	PLYWOOD BOARDS
Material Composition	Made from Recycled plastic waste	Made from thin sheets of wood veneer bonded with adhesives
Environmental Impact	Eco-friendly; repurposes plastic waste, reduces landfill pollution	Involves deforestation; not easily recyclable
Recyclability	100% recyclable; promotes circular use of materials	Not easily recyclable due to chemical adhesives
Durability	Highly durable; resistant to rot, moisture, termites, and weather	Prone to warping, termite damage, and decay in moisture
Water Resistance	Fully Waterproof	Water-resistant (only if marine-grade or chemically treated)
Pest Resistance	Naturally termite- and pest-proof	Needs chemical treatment for termite resistance
Strength & Load Bearing	Moderate to high, depends on density and reinforcement	High structural strength; suitable for load-bearing applications
Workability	Easy to cut, drill, and install; doesn't splinter	Easy to work with traditional carpentry tools
Fire Resistance	Can be made fire-retardant with additives	Combustible unless treated with fire-resistant chemicals

PLASTIC COMPOSITE ROOFING SHEETS MADE BY RECYCLONE

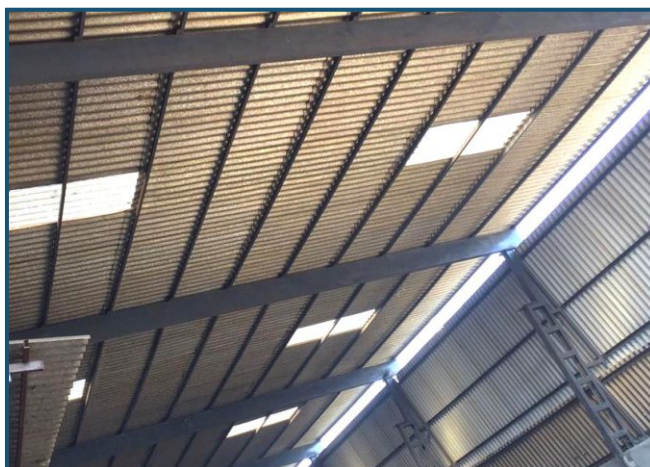


APPLICATION OF PLASTIC COMPOSITE ROOFING SHEETS

Industry Applications

Plastic Composite Roofing Sheets (ECO Sheets) made with RECYCLONE are widely used in various application like,

- Warehousing
- Cold Storages
- Water Treatment Plants
- Chemical Process Plants
- Textile & Dyeing Factories
- Oil Refining and Petrochemical Plants
- Parking Sheds...etc.



Technical Specifications and Features

Plastic Composite Roofing Sheets (ECO Sheets) made with RECYCLONE are widely used in various application like,

- Zero Corrosion, Zero Maintenance
- Superior Thermal Resistance
- Sound Insulation
- No rusting, no chemical degradation
- Flexural Strength : 60-70 MPA

PLASTIC COMPOSITE PAVER BLOCKS MADE BY RECYCLONE



APPLICATION OF PLASTIC COMPOSITE PAVER BLOCKS

Other Industry Applications



Seashore Walkway



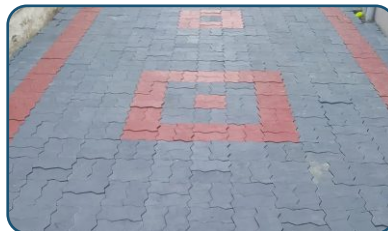
Industrial Parks



Petrol Pumps



Railway & Bus Station



Colony Compound



Parking Lots

COMPARISON BETWEEN PLAST PAVER BLOCKS AND CEMENT PAVER

CHARACTERISTICS	PLAST PAVER BLOCKS	CEMENT PAVER
Characteristics	Plast Paver Blocks	Cement Paver
Compressive Strength	35 N/mm ²	20 N/mm ²
Breaking Load	1040 KN	400 KN
Water Absorption	Less than 0.3%	More than 10%
Life Time	30 Years	10 Years
Accuracy	99%	80%
Handling Damage	0% handling damage	1% to 5%
Breaking Method	Machine Cutting Only	Hand break
Weight	2.0 to 2.3 kgs	6 kgs
Price	Economical	Economical

LOW COST AFFORDABLE HOUSING PREPARED WITH RECYCLONE

Why Choose Recycled Plastic Homes...

RECYCLONE provides turnkey solutions to prepare the recycled Eco friendly plastic homes to best fit your requirements.

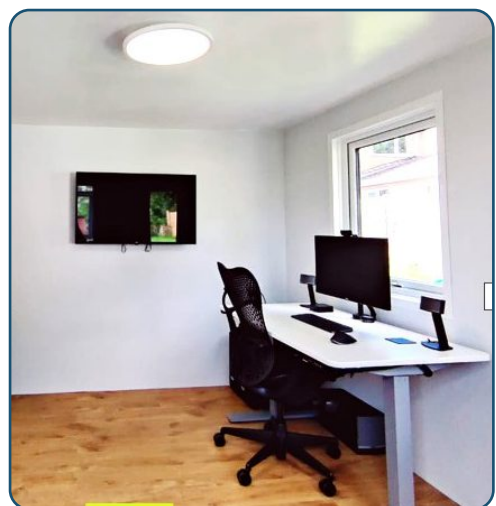
- Cost-effective alternative to traditional materials & methods.
- Quick to build with portable, easy-to-assemble components
- Weather-resistant & highly durable, even in extreme conditions
- Low maintenance — no need for plastering, painting, or repairs.
- Fire proof, water proof, heat proof, termite proof homes.



CUSTOMIZED SOLUTIONS WITH LIMITLESS POSSIBILITIES

RECYCLONE can create with limitless possibilities as per your wildest dreams...

- Recycled Plastic Homes for Offices
- Recycled Plastic Homes Gymnasium
- Recycled Plastic Homes for Meditation & Yoga Centre
- Recycled Plastic Homes for urban rooftop or farm Stays
- Large Structures for Hospitals
- Marriage Halls & Resorts
- Schools & Education Centres
- Temporary Structures for Disaster Relief
- Temporary structures for Armed Forces in Border Areas.
- And Much More.....



COST EFFECTIVE AND LOW IMPACT CONSTRUCTIONS WITH LIMITLESS POSSIBILITIES

Recycled Plastic Home Advantages

Recycled Plastic Homes are prepared at very low cost of 40% compared to traditional concrete structure.

- Lower cost than concrete structure
- Utilize Discarded Plastic Waste
- Fastest Assembly Time
- Movable to another place
- Re usable and Recyclable
- Lowest Maintenance & High Durability
- Zero Rusting & Termite Proof



RECYCLONE TURNING WASTE IN TO WONDERS

Furniture & Interior



Decorative Sheets



Solar Tiles Walkway



Fly Ash Brick Palets



Gazebo



Public Utilities



Corporate Branding



Interior & Partition



Garden Benches



Outdoor Furniture



Security Guard Shelter



Compound Gates



Garden Planters

ABOUT US

RECYCLONE is a world class end to end plastic waste recycling system integrated with various equipments which is design and developed by SHIV INDUSTRIAL SYSTEMS to transforms the waste plastic in to the best sustainable utility products.

RECYCLONE journey started in in 2015 by a team of experienced and dedicated young technocrats with a vision to achieve the goal of zero wastage to create the Green Earth. Our Vision and mission are aligned with **United Nations'** SDGs of creating better human life while protecting the environment. **RECYCLONE** has contributed to **Remove and Recycle 135 Million Kgs of Plastic waste from Rivers and Seas.**

RECYCLONE is manufactured at our state of the art manufacturing facilities of 17,500 Sq ft backed by the latest manufacturing set up situated at Ahmedabad city of Gujarat State in India.

SOME OF OUR VAULED CLIENTS Who made us stand with the high head in the industry...

Biocomp Nepal Pvt Ltd – Lalitpur – Nepal Appreciated and funded by World Bank, Plastic Free Rivers and Seas for South Asia	
Repono Green Pvt Ltd. – Pune, MS	Wise Wood Ecoplast Pvt Ltd – Nagpur, MS
Balaji Plastic – Morbi (Gujarat)	Maxo Recycle LLP – Morbi (Gujarat)
Layoli Recycle Sheet – Morbi (Gujarat)	Elicon Industries – Morbi (Gujarat)
Pavansut Plast Industries – Morbi (Gujarat)	Supera Plastic Industries – Morbi (Gujarat)
Silver Recycle Industries – Morbi (Gujarat)	Divine Techno Industries – Morbi (Gujarat)
Ancora Plasto Industries – Morbi (Gujarat)	Gangavati Techno Industries – Morbi (Gujarat)
Havish Multi-Tech Industries – Morbi (Gujarat)	Nagnath Techno Industries – Morbi (Gujarat)

REWARDS & RECOGNITION



RECYCLONE installed at Nepal recognized, appreciated and funded by the **World Bank, Plastic Free Rivers and Seas for South Asia** Project. Its implemented by the **South Asia Co-operative Environment Programme & UNOPS.**



OUR EXPORTS

- UAE
- OMAN
- QATAR
- NEPAL
- EGYPT
- NIGERIA
- UGANDA
- IVORY
- COAST
- GUINEA
- TANZANIA
- UZBEKISTAN



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