



पर्यावरण प्रहरी

**RAJASTHAN**<sup>®</sup>

क्षवच्छ कहें – क्षवक्षथ कहें

A Group Dedicated to Preserve  
Nature & Environment

**CORPORATE PROFILE  
2021**

## About Us:

Established in year 1982 with an aim to recycle polyethylene milk pouches into Irrigation Pipes. We Diversified our self in the field of waste & water management in the year 2001. Ours is a group dedicated to preserve nature & environment and exclusively work with the aim of Waste & Water Management for Environment & Sustainable Development. We are Pioneer in developing newer technologies for waste management of Mix plastic / paper / metal foils / pouches & wrappers etc. thereby creating eco-friendly GREEN products. At present we are providing Waste & Water Management services for the waste generated in Packaging, Printing, Waste Currency management and Paper Industries. First time in India we successfully demonstrated the commercial and technical feasibility for recycling/reprocessing " Hazardous Ink Waste" an indigenous technology developed to 100% recover "resource' from 'waste'



## MAJOR GOVERNMENT PROJECTS

**Bank Note Press Dewas - Ministry of Finance, Government of India**  
Collection & Disposal of Hazardous Waste such as Currency Printing Ink & Notes  
(Authorized Service Provider since 2006 till Date)

**Center for Advance Technology (CAT) - Government of India**  
Supply of Planters & fence for Outdoor Application

**Employee State Insurance Corporation (ESIC) - Madhya Pradesh Government**  
Supply of Outdoor Security Huts for all the Housing Society

**Currency Note Press, Nasik - Ministry of Finance, Government of India**  
Disposal of Hazardous Waste such as Currency Printing Ink.

**Jila Panchayat Deori, Dist. Singrauli - Madhya Pradesh Government**  
Supply of Fabricated Modular Toilets under Swatch Bharat Scheme

**ITC, Nestle, Hindustan Unilever, Patanjali, Essel Group, Skypack**  
Collection & Disposal Services of Industrial Laminated Plastic Waste

## IDENTITY



To promote this message given by United Nation on every possible stage, we are creation awareness for common man on importance of water in our life.



पर्यावरण प्रहरी

Unlike a Soldier, Rajratan struggles on every aspect, to preserve Nature & Environment. We offer Dual-service to nation by using waste to create products, which replaces Wood and saves Deforestation.

In today's competitive world, industry creates low cost products resulting less product life, thereby generating huge amount of Waste, which harm's our nature & environment. For the same, we have created '7R' (Research, Renovate, Recharge, Reduce, Reuse, Recycle, Recover) as effective tools for it's recreation and long lasting life.



A Promotional brand developed to create importance for Eco-friendly products.



# Certificate of Registration

## QUALITY MANAGEMENT SYSTEM - ISO 9001:2000

This is to certify that:

**Rajratan Group**  
7, Rajratan Park  
Race Course Road  
Indore 452 003  
Madhya Pradesh  
India

Holds Certificate No: FM 510010

and operates a Quality Management System which complies with the requirements of ISO 9001:2000 for the following scope:

- I. The conversion of waste plastic, paper, metal foils and soiled / misprinted currency into R-Board, R-Door, R-Profile, R-Tank and R-Rope; and
- II. Conversion of ink residue into R-pigment and R-paste.

For and on behalf of BSI:

Managing Director India, Venkataram Arabolu

Originally registered: 30/08/2007

Latest issue: 30/08/2007

Expiry date: 29/08/2010



Page: 1 of 2

This certificate remains the property of BSI and is bound by the conditions of contract.  
Validity of this certificate can be verified at [www.bsi-global.com/ClientDirectory](http://www.bsi-global.com/ClientDirectory) or telephone +91 11 2892 9000.  
Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements  
may be obtained by consulting the organization. This certificate is valid only if provided original copies are in complete set.

BSI Management Systems India Private Limited  
The Mira Corporate Suites (A-2), Plot 1&2, Ishwar Nagar, New Delhi 110 085, India  
BSI Management Systems India Private Limited is a subsidiary of British Standards Institution.

**BSI**  
Management Systems

Took 25 years to develop innovating technology, through R&D and successfully treated Hazardous Waste Ink, Soiled Currency and Industrial Plastic Waste and converted into “Resource”. We have developed better substitutes of wood, useful material to improve water supply & sanitation, canal lining, briquettes & pellets as a fuel to promote development activities. The products are ready to use, water proof, termite proof, maintenance free or any kind of microbial growth. Unique waste management practices are developed for proper collection to final disposal of various kinds of waste to avoid adverse effects on Environment. While dealing with waste, two fundamentals are followed: “Generating less waste” & “an effective system for managing the waste produced”.



# "RESEARCH"

## Devolving ways to convert ‘Waste’ into ‘Resource’

## "RENOVATE"

## Modification of ‘Waste’ into ‘Resource’

## "REDUCE"

### Waste minimization by appropriate techniques

"REUSE"

## Innovative use of 'Waste' as 'Products'

"RECYCLE"

#### Converting to value added end products

"RECOVER"

## RECOVER Energy and Product recovery through conversion

"RECHARGE!"

**RECHARGE**  
Conserve our most precious renewable resource.





PLASTIC ALUMINUM COMPOSITE

BOARD REINFORCED WITH FIBER & CROSS LINKED POLYMER (XLP)



An Exclusive Product By:



पर्यावरण प्रहरी  
**RAJRATAN**<sup>®</sup>

સ્વચ્છ કરો – સ્વચ્છ રહો



WATER PROOF



UV RESISTANT



STRONG



DURABLE, EASY TO CLEAN



DO NOT CRACK  
DEFORM OR DEGRADE



RECYCLABLE



LONGER SERVICE



## An Eco – Friendly Substitute of Plywood, WPC & Plastic Sheets

PAC Boards are manufactured by Mix of “Industrial/Municipal Grade Single Use Plastic Waste” reinforced with Fibers & Cross Linked (XLP) Metals with a Specialized Technique in State-of-the-Art Processing Unit. PAC Board possesses Advance Properties to replace conventional Material such as Wood/Plywood, which are harmful to environment in all applications.

Specially formulated composition enables us a Superior Product which can be used for all kind Indoor & Outdoor applications using Standard Wood Working Tools and methods. No additional Training or Skills is required to Fabricate Products.



**WATER PROOF**



**UV RESISTANT**



**STRONG**



**DO NOT CRACK  
DEFORM OR DEGRADE**



**RECYCLABLE**

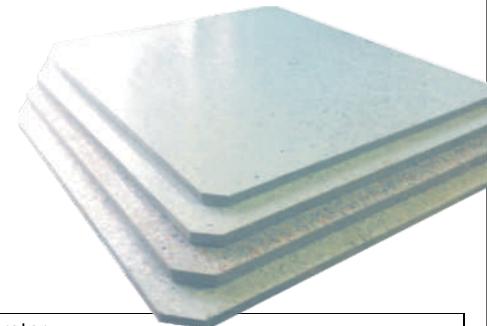


**LONGER SERVICE**

A brief comparison chart below shows the difference between conventional products and PAC Boards.

PARAMETERS	PLYWOOD	BLOCKBOARD	GMT	PVCFOAM	RAJRATANPAI
<b>Water&amp;DecayProof</b>	No	No	Yes	Yes	Yes
<b>Termite&amp;BorerResistant</b>	No	No	Yes	Yes	Yes
<b>EconomicViability</b>	Yes	Yes	No	No	Yes
<b>Sun/HeatProof</b>	Limited	Limited	Limited	No	HighLevel
<b>SmoothSurface</b>	No	No	Yes	Yes	Yes
<b>Stability</b>	Peels	Peels/Wrap	Stable	Bend	Stable
<b>ThermoFormability</b>	No	No	No	No	Yes
<b>SmoothEdgeCuts</b>	No	No	Yes	Yes	Yes
<b>Fungus&amp;MildewResistant</b>	No	No	Yes	Yes	Yes
<b>Buyback/ReplacementOption</b>	No	No	No	No	Yes
<b>Eco-Friendly</b>	No	No	Yes	No	Yes
<b>EstimatedServiceLife</b>	2-3Years	2-4Years	5-6Years	4-5Years	7-8Years

## TECHNICAL SPECIFICATIONS



Certified Laboratory	
<b>ChoksiLaboritories Limited</b> Management System Format No. CLL-MSF-5,10-01 NABL Certified Certificate No. 03292-11/12-13, Date: 15/05/2012	<b>Quality Marking &amp; Testing Laboratory</b> (M. P. Government Undertaking) Test Results as Per IS 12406-2006 Certificate No. 257/02-03, Date: 06.05.2002

GENERAL PARAMETERS		
Type	Value	Unit
Type	Plastic Aluminum Composite Board	-NA-
Thickness	06, 08, 12, 18, 21, 25, 30	Mm
Sizes	Length – 1050 to 2100	Mm
	Width – 600 to 900	Mm
<b>Composition</b>		
Mix Plastic (Industrial Grade)	57	Percentage
Aluminum Oxide	23	Percentage
XLP Metals	20	Percentage
<b>Dimensional Tolerance</b>		
Length	+ - 2	Mm
Width	+ - 2	Mm
Thickness	+ - 1	Mm
Edge Straightness	1	Mm/Mt.

OTHER PROPERTIES		
Density	1097	Kg / Cu. Mt.
Water Absorption (after 24 Hrs.)	0.05	%
Resistance to Boiling Water for 3 Hrs	No Evidence of Disintegration, Discoloration & Swelling after Test	-NA-
Resistance to Acid, Acetone Solvent, Alkali, Benzene Solvent.	Does Not show any sign of disintegration and no sign of change of color after test	-NA-
Salt Spray Test for 72 Hrs.	No Evidence of Disintegration, Discoloration to be observed	-NA-
Compressive Strength	5222	PSI
<b>Screw Withdrawal Strength</b>		
Face	1650	N-m
Edge	1320	N-m
Modules of Rupture	9.72	N/Sq. Mt.
Density	1097	Kg / Cu. Mt.

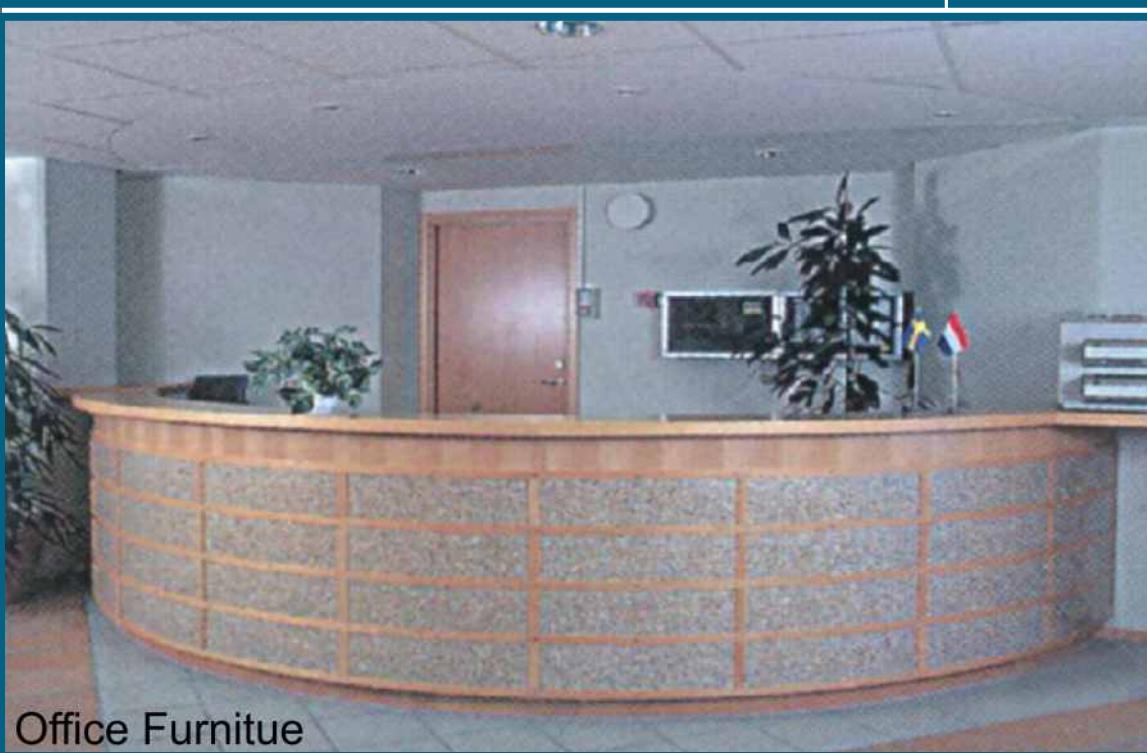
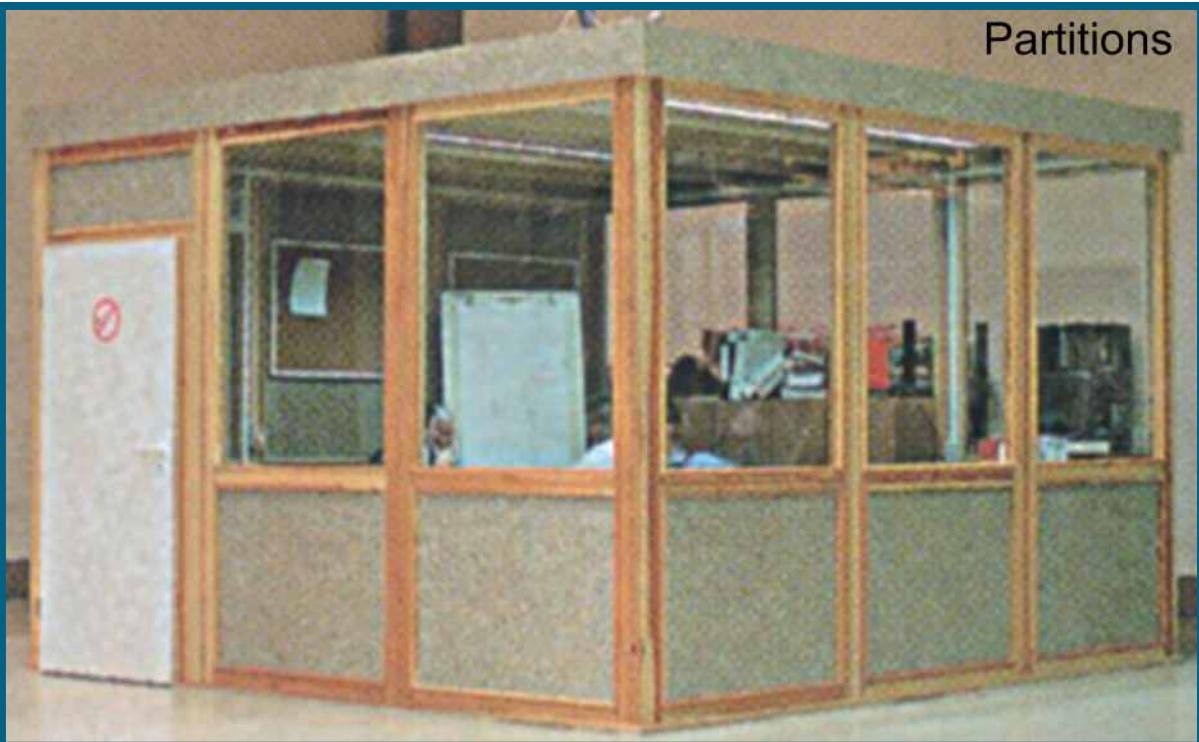
# APPLICATIONS

**RESIDENTIAL & COMMERCIAL**  
**(Viable Substitute of Plywood & Wood)**

Wall Paneling



Partitions



Office Furniture



Modular Kitchen



School Furniture



Interior Doors & Frames



Exterior Doors

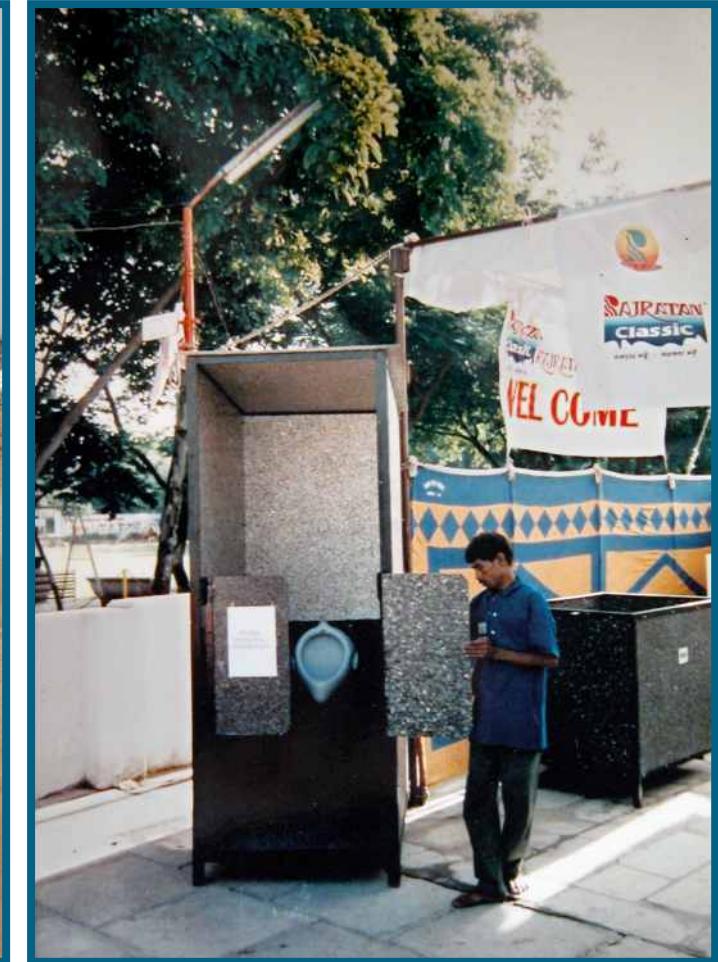
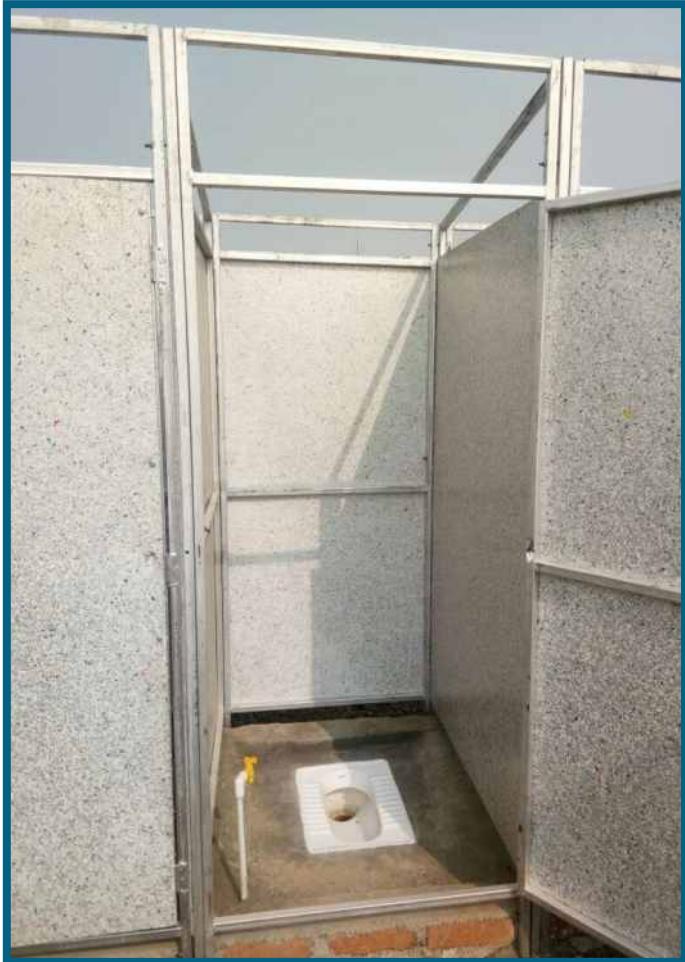


Home Furniture

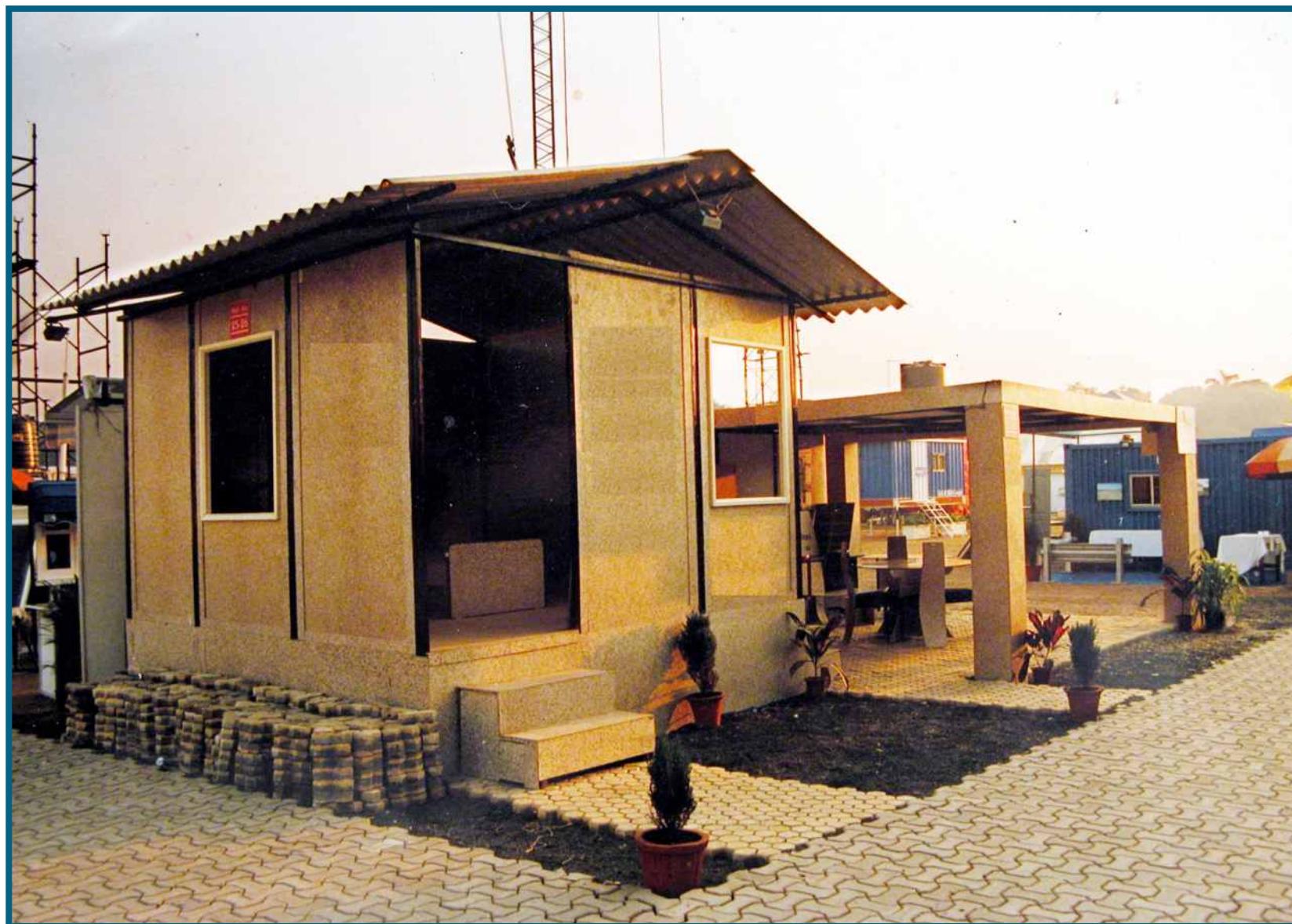
# APPLICATIONS

OUTDOORS  
(Higher Shell Life for More Reusability)

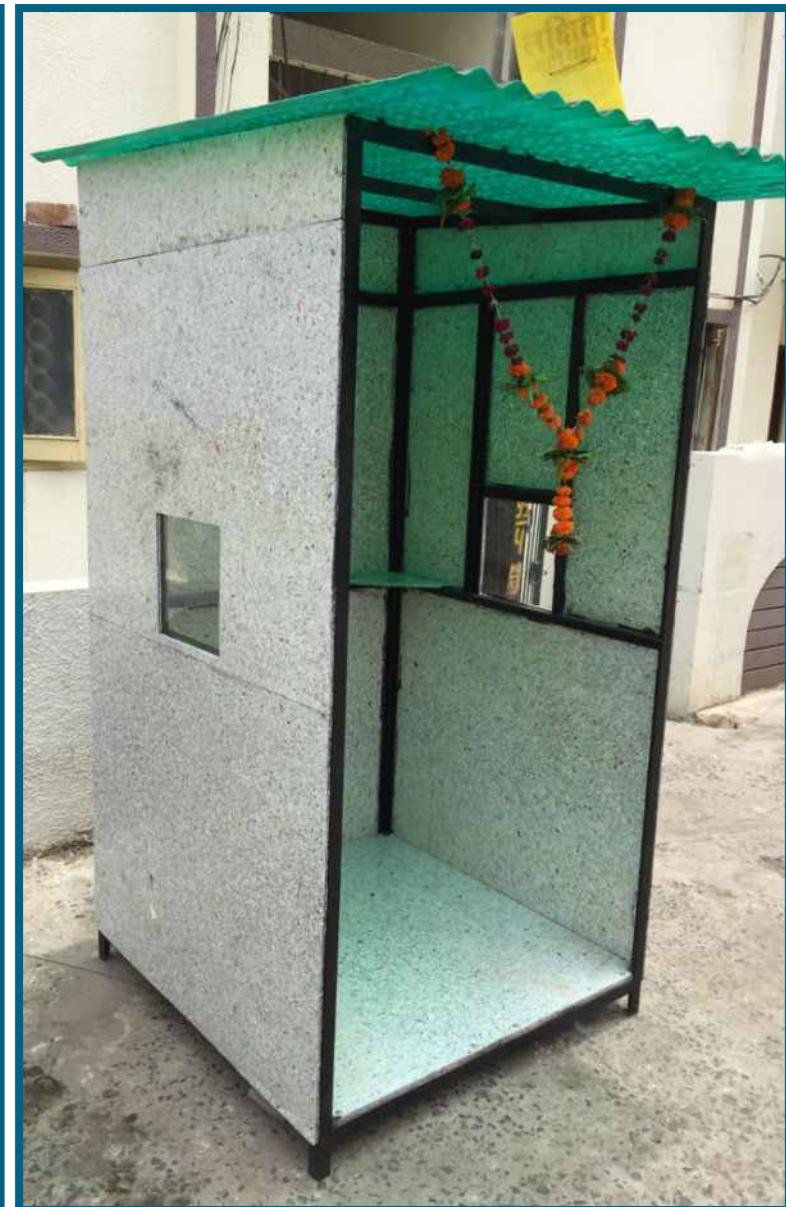
# Modular Toilets



# Temporary Housing

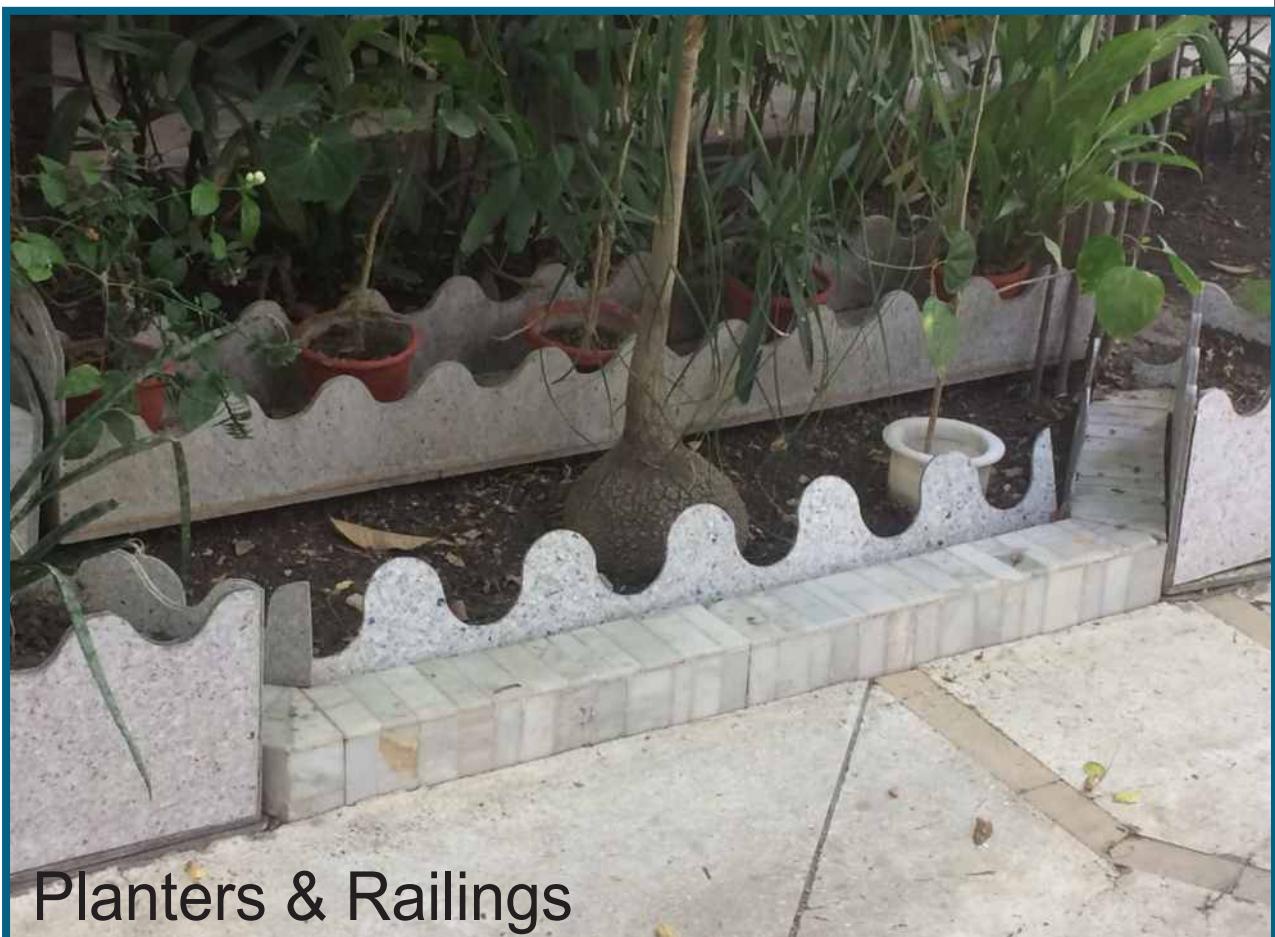


## Guard House / Security Hut



# APPLICATIONS

**GREEEN INNVOATIONS**  
**(Imagine Anything)**



Planters & Railings

# Waste Bins



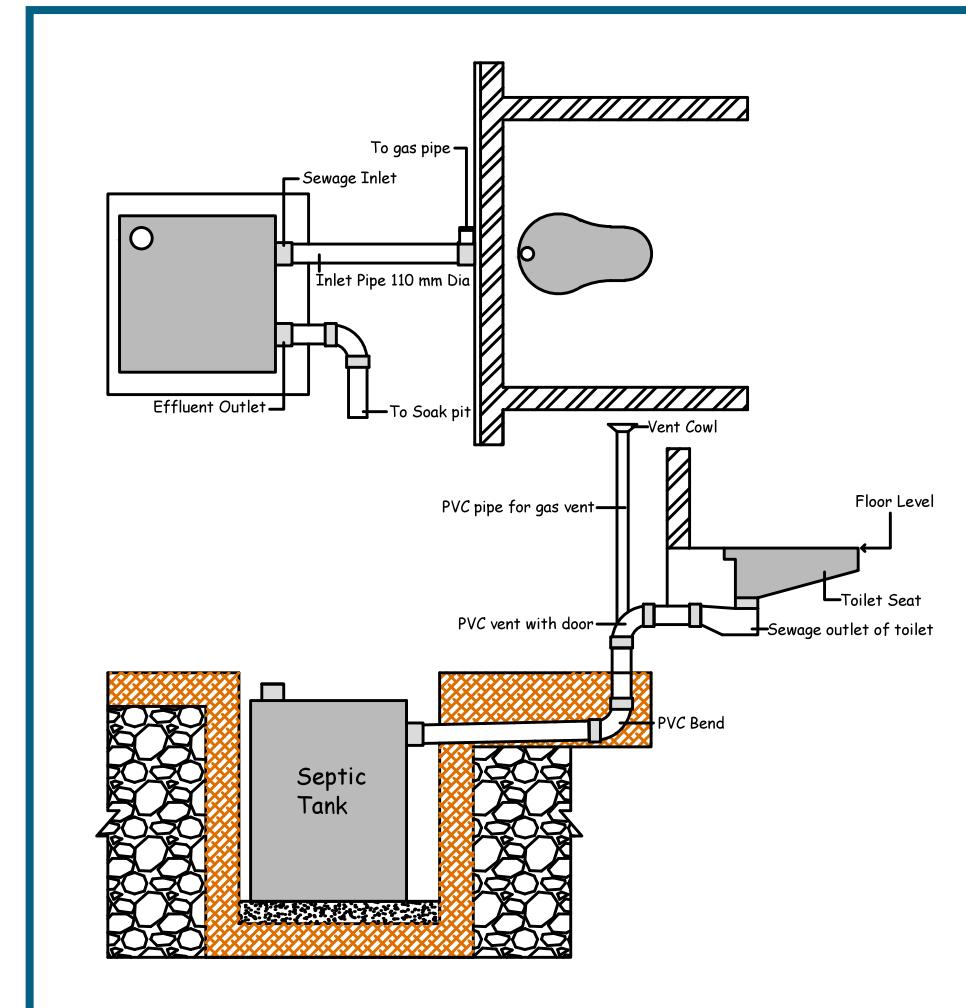
# Tree Guards



# Outdoor Bench



# Ready-made Septic Tank (For Sewage Water Disposal)



# PAC ® Soak Pit (For Rain Water Recharging)



# PAC ® Dunnage Pallet (For Warehousing/Storage)





## RAJRATAN INDUSTRIES PRIVATE LIMITED

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