



MALHARI
PROJECTS PVT. LTD.

WASTE TO AIRTM
Sustainable Technologies



Vande Matram,

I hope this note finds you well and we cordially invite you to reach us.

Malhari Projects is an Industrial hazardous waste disposal machine manufacturer.

Issue: Heavy charges to pick up and dispose of the Hazardous solid & Liquid waste generated from pharma & chemical operations.

Hammering that, we're thrilled to introduce you to Malhari Projects' latest breakthroughs in industrial Hazardous **Waste-to-Air Technology**.

Solution: This machine can dispose of the Hazardous waste, without any segregation; at lower than landfilling cost, inside the premises of the company and no land allocation for **TSDF is required**.



- Efficiency & Sustainability: By Lower than Landfilling cost, show remarkable 80-85% Hazardous waste reductions.
- Waste Category: Hazardous Dry Solid Waste, Semi Solids with high moisture & Liquid wastes also.
- Carbon Offset Potential: API/ Drugs/ Dyes/ Pharmaceuticals/ Vaccines/ SME/ MSME/ Smart city also can be carbon neutral by this implementation.
- Tax benefits, ESG Compliances Benefits, etc...

ZERO SOLID DISCHARGE	RADIATING DRYER
No Segregation	High Moisture Removal
Low CAPEX / OPEX.	OPEX 0.5 to 1.5 INR/Kgs.*
ESG COMPLIANT	Only Electricity (No steam/oil etc)
Carbon Offset/ Credits Mining	Space Compatible
Hazardous, Biomedical, River Side, Municipal, Tourism, etc.	FMCG/ETP/Textile/Food grades/precision Parameters/Paints/Drugs/Customs etc.
Pharma, Chemical, Drugs, API, Vaccines, Distilled residues, Gelatine, Jelly, Spent Carbon, etc.	Fine chemicals to concentrated Material.

Tired of Hazardous Waste Disposal?

Say no More.... We Got You!!!

For the Benefits of Bulk Waste Generators Like...



Municipal Corporations

Pharmaceuticals

Chemicals

Hospitals

Textiles

CETP Units

TSDF Sites

Smart Cities

Paper

Tyre

Plastics

Fibre

River Side Mixed Waste

Garden & Parks Waste

Packaging

Town Ship

Land Fill Sites

Tourism Waste

Pilgrimages Waste

Railway Stations

Airports

Ports

Introducing You to...

Malhari Projects !!!



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IPP : THE NEXT GENERATION PYROLYSIS



WASTE TO WEALTH
Sustainable Technologies

INFRARED PYROLYSIS PLANT

Benefits to Municipal & Industrial Hazardous Solid Waste Generator

- No Segregation Required
 - Up to 75-99 % volumetric reduction /Weight Reduction
 - Operational; Lower than Landfill cost.
 - Can process waste of up to 75% Moisture.
 - No hazardous waste transport and Landfill required.
 - Power consumption 0.33 KW/Kg*.
 - Continuous IOT based emission control.
 - Emission As per CPCB Norms
 - Can make Municipalities/Corporation/Industries Net Zero.
 - High Efficiency.
 - Easy Installation.
- NO/ Negligible residue
 - Carbon offset benefit*
 - Completely Automated decentralizes plant monitored at Command Centre.
 - Waste type: Municipal, Industrial, Semi solid and solid like ETP sludge, STP sludge, MEE Waste, Spray dryer Waste, Spent Carbon, Distilled Residue, Gelatine Waste, Plastic, rubber, FRP, paper, card boards, PVC, Riverside waste, Marine waste, Roadside waste, semi solid jelly type waste Etc...

Features	Low-Cost Pyrolysis Technology				
Capacity (Ton /Day)	0.5	1	2	5	10
Per hour feed (Kg/Hr)	25	50	100	250	500
Size (Mtrs.)	3 x 5	3 x 5	5 x 8	8 x 11	12 x 12
End Product	Negligible Ash with most organic converted to Non-Toxic Air.				
Process	Flameless Combustion in Oxygen Controlled Environment.				
Waste Type	Non/ Biodegradable & Hazardous Solid and Semi-solids				
Moisture %	Up to 75%				
ESG Compliance Feasibility	Partial	Partial	Full	Full	Full

For Other Bulk Waste Generator Industries

- Textiles
 - CETP Units
 - TSDF Sites
 - Smart Cities
- Paper
 - Tyre
 - Plastics
 - Fibre
- River Side Mixed Waste
 - Garden & Parks Waste
 - Packaging
 - Town Ships
- Land Fill Sites
 - Tourism Waste
 - Pilgrimages Waste
 - Railway Stations
- Airports
 - Ports

Other Portfolio Products

- Continuous Pyrolysis Plant
 - Moisture removal system
 - Vacuum oven
 - Continuous Emission monitoring system
- Industrial Scrubber system
 - CO2 Offset mechanisms
 - Plant Automation and Retrofit



MALHARI
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*We aim to reduce waste by converting into Non-Toxic Air
We focus on disposing of all waste sustainably and minimizing environmental Impact*



MOISTURE REMOVAL PLANT (STEAMLESS)



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SALIENT FEATURES

- 90-95% or more Moisture reduction in Material
- Operational Cost Reduction By 60-80%
- Opex: 0.5-1.5 INR/Kgs.
- Low Energy Consumption.
- Easy to operate.
- Less human exposure.
- Smooth Material Handling.
- Fine material as end product.
- Complete dryness material obtained
- Totally Electrically Operated
- Continuous Process
- Less Footprint
- No steam or any thermal Fluid required.
- Modifiable as per need and space availability



**0.1
Kw./Kg.***

Energy Consumption

**0.5 to 1.5
INR/Kg.***

Opex Cost

Parameters

Capacity	1 Ton	2 Ton	5 Ton	10 Ton	20 Ton
Feed Input Capacity	50 Kg/hr.	100 Kg/hr.	250 Kg/hr.	500 Kg/hr.	1000 Kg/hr.
Output Capacity	5-10 Kg/hr.	10-15 Kg/hr.	25-35 Kg/hr.	50-80 Kg/hr.	100-175 Kg/hr.
Before Moisture %	75-80%	75-80%	75-80%	75-80%	75-80%
After Moisture %	≤10%	≤10%	≤10%	≤10%	≤10%

* Note: We have also achieved moisture content <1% in some Cases. So it can be customized.

Premium Applications Use Case

Drugs	Precision moisture & parameter control to help increase drug life.
API & Pharmaceuticals	To maintain precision Vacuum & Moisture for formulation, reducing production cost.
Food Industry	Control Food Appearance by parameters and oven air flow control, thus increase Shelf life.
Textiles	To Increase uniform dye penetration by multi-layer heating of material.



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