



INNO AUSBILDUNG (P)LIMITED

# IWP PRODUCT PROFILE

OFFICE:

NAVANEETHAM, CHANDRANAGAR,  
PALAKKAD, KERALA, INDIA

**FOR MORE DETAILS:**

**CONTACT: +91 9778 240 640**

# About Us



## Background

Inno Ausbildung (P) Limited is a Kerala based company focused on waste management machinery and services active from the year 2019. We have been supporting waste transformation scenario using indigenous technologies. We are an authorized government supplier and active on GeM Marketplace- Government of India's procurement portal. We have been Government of India vendors for educational supplies in the area of robotics and AI through the prestigious Atal Innovation Mission. As a company we believe in sustainable development but also understands that anything sustainable can be expensive hence we always work on providing effective ROI models so that the investment is returned to the Government or investor. Our association with Government of Kerala gives us a edge over others in promoting technologies which are not mainstream yet realize the ultimate goal of SBM 2.0 as stated by Government of India.

Our expertise is in circular economy and upcycling waste for usage which can range from Pavers made from 100% MLP or SUP, RDF from dumpsite waste lessening the growth of landfills, zero power STP which is paving the way for a better way of handling human waste without incurring heavy cost much like in the case of electro-mechanical STPs.

Our technologies have proven to achieve 13 out of 17 UN sustainability development goals.

## Scope of Work

We shall Design, Build, Operate Instant Waste Processing Machine of suitable capacities in identified lands in the State for the follow types of NBDW -

1. Sanitary and diaper waste disposal.
2. Domestic bio medical waste, used medicine strips, left over medicines in liquid or solid form.
3. Glass waste
4. Recyclable plastic waste
5. Hair waste disposal
6. Non-recyclable rejects like Leather, resin, car upholstery, bags, chappals, rubber, plastic, textiles, multi-layer packaging materials, Soiled Single Use Plastic materials, thermocol, roadside mixed waste everything except more than 10% of metals, glass, C&D waste and wet waste.

## Details of company/organization

- Name - CHECK CIN DOCUMENT ATTACHED
- Legal Status (Company: Public/Private, Partnership, Limited Liability Partnership, Sole Proprietorship, Any order) - CHECK CIN DOCUMENT ATTACHED
- Country of Incorporation - CIN DOCUMENT
- Date of establishment in DDMMYY format - CHECK CIN DOCUMENT
- Principal place of business - PALAKKAD, KERALA
- Contact details of designed representative
  - Name - Sanish PG
  - Designation - Sales Director
  - Address - Navaneetham, Chandranagar, Palakkad 678007
  - GST No.
  - Phone No./Fax No./E mail- +91 9778 240 640, sanish@innolabindia.co.in
  - Patent document if any- ATTACHED
  - List of clients- LISTED



## INTRODUCTION

**SMART WASTE PROCESSOR MSW TECHNOLOGY IS A FULLY AUTOMATED WASTE MANAGEMENT MACHINE WHICH PROCESSES AND CONVERTS MSW INTO HIGH ENERGY FUEL PELLETS OR GREEN COAL WITH CALORIFIC VALUE EQUAL TO THAT OF COAL.**

- Patented technology
  - Can process all types of plastic, roadside mixed waste, fabric, footwear, rubber, leather, rexin, sanitary pads, mask, adult diapers, Agri-waste, cowdung, garden waste, medicine strips, bandages, medicine bottles, cardboard, MLP, coconut shell-green or dry, human and animal excreta, human hair, kitchen/hotel waste, food waste, used pens, combs, thermocol, all kinds of reject waste etc. without segregation!
  - Clear all landfills
  - Clear roadside waste that is accumulated without segregation
  - Output product is briquettes -RDF or Green coal which has high calorific value
  - Process does not include burning, smoke, pollution, radiation.
- 100% compliance with PCB norms and guidelines
- No civil work is required. Machine is simply plug and play

**PLUG AND PLAY TECHNOLOGY  
INDUCED CATALYTIC PYROLYSIS**





# WASTE TO RDF

- Capacity of the machine starts at 1 TPD
- 80-90% volume reduction
- Very low Operational Expenses
- Requires Low Floor space: 30 sq ft = 1 TPD
- No Pathogens, No gases. Completely safe for human handling
- No foul smell, no rats/ insects
- Machine Made from Stainless Steel.
- Life span of 15 + yrs
- Overload function- Machine comes to a halt in case of overload
- No heating, No heaters & No power consumption for heating
- Internal workings are automatically stopped when removal door is opened
- Fully airless system zero biological activities hence, No odor and No air pollution.
- The actual decomposition activities are done by our special mechanism. Therefore, environmental temperature does not increase
- The converted end products is used as fuel-RDF
- Untreatable items :- Metal, stones
- Processing time :- 15 to 20 minutes
- Batch capacity: 40 kgs/ batch
- Leachate/ water discharge :- No discharges

**PLUG AND PLAY TECHNOLOGY  
INDUCED CATALYTIC PYROLYSIS**

# Proposal to a Changemaker!



## OUR SERVICE

Post installation, we will remove the processed waste (fluff) from your site on a regular basis in a GPS enabled vehicle.

Through our association with Ultratech we will be able to issue you a certificate authenticating ethical handling of waste within your facility.

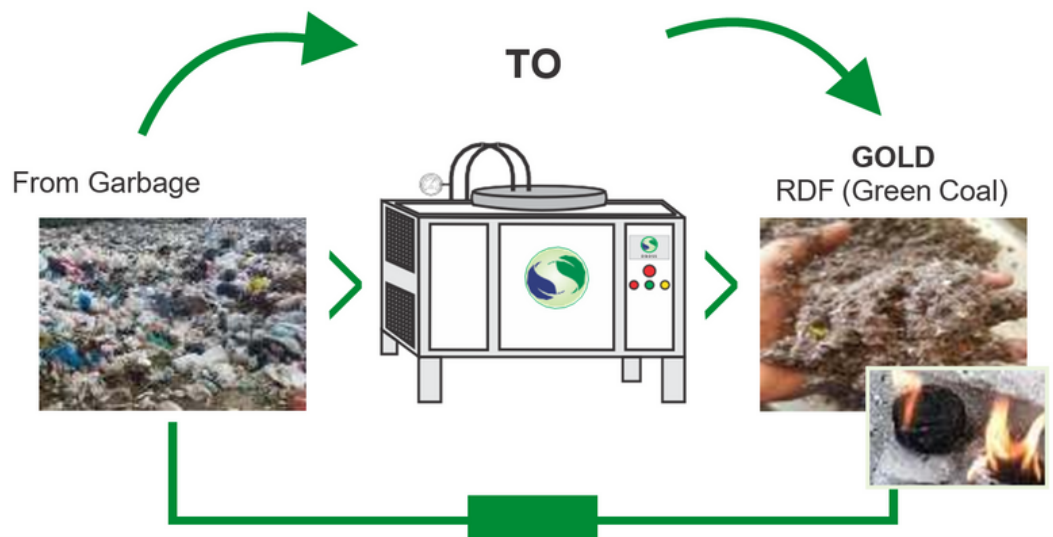
## Technology Brief

The technology used in SMART waste management machine is based on a simple protozoa principle. The friction heat generated during working changes the state of waste. The available liquids become gaseous. To optimize the available heat during the process becomes very important to control the friction energy up to certain useful level, cooling is used in the process to stabilize the friction heat.

When more cooling is supplied, it condenses and converts into water. The fully hygienic & non-polluting, converted form of waste can be used as raw material in fertilizer or packing industry and it can also be used as fuel in industries or regenerating energy or biogas or both. This technological process increases the overall efficiency from 30 to 90% or more.

### Benefits:

No burning, No smoke, No odour, No noise, No gaseous, No pathogens and No long waiting periods, instant disposal within few minutes. Working is 100% eco-friendly and very effective tool to deal with the problems of MSW for supporting climate change. SMART is a guarantee of ecological balance.



# FEW GOVERNMENT CLIENTS

1. National Institute for Technical Teachers Training and Research, Government of India, Chandigarh - 2019
2. Municipal Corporation, Chandigarh- 2019
3. Punjab Engineering College, Chandigarh- 2020
4. Himachal Pradesh Agriculture University- 2021
5. Army Cantonment, Chandigarh- 2021
6. Patna Municipal Council, Bihar- 2022

	CAPACITY IN TONNES			
	1	2	5	10
LABOUR	1	2	3	5
POWER REQUIREMENT	50	75	100	130
SHEDED AREA	500 sq ft	1000 sq ft	3000 sq ft	5000 sq ft
PLOT AREA	2 CENTS	3-4 CENTS	10 CENTS	15-20 CENTS
OUTPUT QUANTITY	100 KG	200 KG	500 KG	1000 KG
CAPEX	Rs. 78.50 LAKH	Rs. 1.9 Cr	Rs. 3.6 Cr	Rs. 5.5 Cr
OPEX (PER MONTH)	Rs. 28,750.00	Rs. 53,125.00	Rs. 77,500.00	Rs. 126,250
TIPPING FEES	Rs. 7 per KG	TBD	TBD	TBD

NB: Output material is fluff which will be removed from site by technology provider



	Estimated O&M cost			
Tonnage	1	2	5	10
Operational costs	Rs. 28,650.00	Rs. 53,125.00	Rs. 77, 500.00	Rs. 126,250
Total working days in a month	25	25	25	25
Daily usage of electricity (avg) in MW	50 KW	75 KW	100 KW	130 KW
Daily usage of fuel (avg)	NIL	NIL	NIL	NIL
Daily usage of water (avg)	NIL	NIL	NIL	NIL