



University : KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
Country : India
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[3] Waste (WS)

[3.12] Inorganic Waste Treatment (WS.4)

Type of Inorganic Waste	Produced per day in tons	Produced per year in tons
Paper	0.058	21.21
Plastic, Metal	0.086	27.92
Total Produced		49.13

Inorganic waste treated = $21.21/49.13 = 43.17\%$

Description:

- Paper Waste :** A total quantity of 21.21 tons of paper is generated as waste which is effectively recycled at Karunya Paper Recycling Plant and stationary products
- Metal scraps :** In 2024-25 , 27.92 tons of metal scrap was sold at a price of Rs.9.59 lahks.
- Gasification of Plastic Waste (Project title:** Design of 2 TPD Rotary Kiln Gasification Pilot Plant with high CV syngas production)

Cost : Rs. 6.12 crores

Duration: 2021-2024

The project will demonstrate a working model for industries/ governments and would be an opportunity for the stakeholders to understand how their plastic waste can be disposed in an environmentally friendly manner while producing energy, which will partially offset the cost of waste management.



Paper Recycling Plant

