



University : KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES  
Country : India  
Web Address : [www.karunya.edu](http://www.karunya.edu)

### [3] Waste (WS)

#### [3.11] Total volume inorganic waste treated this year

Type of waste	Amount (ton)					
	Produced		Reduced	Treated		
	Last year	This Year		Reused	down-cycled	up-cycled
Paper	22.80	21.21	1.60	21.21	-	-
Plastic	4.22	2.61	1.61	-	-	-
Metal	37.44	25.31	12.13	-	-	-
inorganic non-toxic	64.46	49.13	15.33	21.21	-	-

#### 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 lakhs**.
- 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

