



# RAMKY GROUP- Experts in domestic waste management

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## Introduction

Ramky Group since inception in 1994 in Hyderabad has been focusing on developing projects that positively impact both the environment and the economy. As part of the blueprint to be an active participant in global economic progress, Ramky Group has augmented potential in key growth sectors including Water and waste water management, Transportation, Industrial Infrastructure, Commercial, Residential, Social, Institutional and Irrigation Infrastructure, Environment Management, Energy Generation, transmission and distribution. Major operations of the group are conducted through companies such as Ramky Infrastructure Limited (RIL), Ramky Environ Engineers Limited (REEL), Ramky Estates and Farms Limited (REFL), Ramky Life Sciences Limited (RLSL) and Ramky Life Sciences Limited (RLSL) .

Out of which Ramky Environ Engineers Limited (REEL), is a pioneer in all kinds of waste management.

Water Awards 2009, 2010 & 2011-Ramky Infrastructure Ltd bagged the Water Digest 'Water Awards 2010-2011' under the Best Water Conserver-Waste Water Management Category for 80 MLD Airoli Project in Mumbai.

The Water Digest "Water Awards 2010-11" as the "Distinguished Water Company" for outstanding contribution in the field of water in India.

D&B Axis Infra Awards 2011-The 80 MLD Sewage Treatment Plant at Airoli earned the D&B Axis Infra Awards 2011 under the categories of Urban Infrastructure Development and Pharmacy under Public Private Partnership.

## Description of solid waste

Ramky Environ Engineers Limited (REEL) provides a comprehensive range of services, including solid municipal waste, bio-medical waste and hazardous waste management

services to commercial, industrial and municipal customers including recycling, collection and disposal services. Cost-effective solutions, customized projects and comprehensive resources combined with safety and regulatory compliances make them one of the most efficient players in this sector.

Ramky Environ Engineers Limited (REEL) has to its credit many firsts in:

- Establishing India's first and largest Industrial Waste Management Facility
- Operates India's largest hazardous waste incinerator complex at Talaja, Maharashtra
- Established India's first and largest Biomedical Waste facility on BOO basis
- Established India's first Integrated Municipal Solid Waste Management Company on BOOT basis
- Established India's first Integrated recycling facility
- Only company in the country to serve industry, healthcare and household recycling needs
- Rated as one of the best for Environment Impact Assessment (EIA) studies, Environment Audits and Research & Development initiatives

We cover the Karnataka Region for biomedical management of waste and the plant is located in Karnad Industrial Area, KIADB (Karnataka Industrial Areas Development Board), Kolnadu, Mulky, Dakshina Kannada.

Ramky Group has a pan-India presence with more than 500 project locations across 23 states (including Union Territories).

## How do we do?

### Methods adopted for processing of waste

REEL delivers recycling services including industrial and domestic recycling to its customers across the sectors. It collects, sorts and processes the waste materials like of Paper, Plastic, E-Waste, Used Oil, ULABs, Solvents, Metals etc. from its customers. Its clients include individual households to commercial establishments to corporate and industrial establishments.

### Fully intergrated E- Waste Management

Process involves collection, separation including picture tubes, shredding and recovery of metal through chemical process and recovery of precious metal through thermal process and Base metal recycling, PGM (Platinum Group Metals) recovery and refining processes. Waste management at source is also carried out at source. Total support in scrap handling, collection, transport, documentation, shipping export and other related areas.

## Impact

- 100% recycling of E-Waste collected i.e. Zero landfill
- Currently has E-Waste Management Facilities in Hyderabad and Bangalore

## Biomedical waste management

Ramky is the first private company to establish a Biomedical Waste Management Plant in Hyderabad, first Biomedical Waste Management Facility in India in 2000. The company own & operate 15 fully compliant medical waste facilities, 125 waste collection vehicles and provide medical waste disposal services to over 20,000 Health Care Establishments in 14 cities in India and has obtained the ISO 9000, ISO 14001, OSHA 18000 certified facilities.

## The process includes

Door-to-door Collection & Transportation of Bio-medical waste. The main modes of biomedical waste destruction includes sterilization using autoclaves and chemical treatment.

## Hazardous waste management

Ramky Enviro Engineers Limited (REEL) has set up India's first integrated industrial hazardous waste management facility at Hyderabad in 1998. The Company handles more than a million tonnes of hazardous waste annually which counts to be approx 65% of total waste treated in India. The IWM facilities of Ramky are guided by international standards - they support double composite liner landfills with Leachate collection arrangement following USEPA's RCRA Subtitle C requirements for landfills. Waste received at these facilities is disposed off by three modes.

- Direct Land filling
- Stabilization of Waste
- Incineration of Waste

The facilities and specific equipments used are fully dedicated to handle hazardous waste and are complied with rules defined by Central Pollution Control Board and the Ministry of Environment and Forests, New Delhi.

## Impact

Ramky operates hazardous waste incinerators at Chennai (Tamil Nadu), Haldia (West Bengal), Hyderabad (Telangana), Kanpur Dehat (Uttar Pradesh), Indore (Madhya Pradesh), Taloja (Mumbai) and Vizag (Andhra Pradesh).

## Conclusion

The dedicated remediation team at REEL has the expertise to cater to the varied

remediation needs of the customers. However, apart from utilizing the services of the in-house experts, REEL also collaborates with respective industry experts in order to meet any specific technological requirements of the clients.

Our site remediation services include excavation, treatment and disposal of contaminated soil, bioremediation, lake remediation, on-site treatment of contaminated water, safe treatment and disposal of hazardous materials etc.

Presently IWM has 9,600 customers all over India. Our ISO 9001, ISO 14001, ISO 17025, OHSAS 18001 certifications and state-of-the-art R&D with NABL accredited labs, have set the platform for excellence in environmental and industrial Waste Management Sector. Constant up gradation fuels our future plan of action in exploring neoteric options in environmental sustainability.

## Future

Solvent recycling for industries, used automobile oil recycling, paper recycling are some of the technologies that are currently under review.



Shredder



Shredded material



Incinerator



Ash storage facility