

The Complete Book on Waste Treatment Technologies (Industrial, Biomedical, Water, Electronic, Municipal, Household/ Kitchen, Farm Animal, Dairy, Poultry, Meat, Fish & Sea Food Industry Waste and Machinery Equipment Details)

Author:- PROF. DR. MAHENDRA PAL

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Waste management is a global problem that continues to increase with rapid industrialization, population growth, and economic development. As the world hurtles towards the urban future, the amount of Municipal Solid Waste (MSW) is growing very fast. Waste includes any solid material or material that is suspended dissolved or transported in water or deposited on land. Wastes are generally classified into solid, liquid, & gaseous and are broadly classified as household waste; municipal waste; commercial and non-hazardous industrial wastes; e- waste, hazardous (toxic) industrial wastes; construction and demolition waste; health care wastes – waste generated in health care facilities (e.g. hospitals, medical research facilities); human and animal wastes; and incinerator wastes.

In the recent years, modern society has become more responsible when it comes to waste management. The fast industrialization, urbanization, modern technology, and rapidly growing population in India have posed a serious challenge to the waste management. In India, per capita generation rate of municipal solid waste ranges from 0.2 to 0.5 kg/day. At present, the daily generation rate in South Asia, East Asia and the Pacific combined is approximately 1.0 million tons per day.

The current scenario reveals that there is a tremendous scope for the development of waste treatment technologies and is expected to offer significant opportunities in the near future. Sustainability of waste management is the key for providing an effective service that can satisfy the need of end users. Solid Waste Management sector in India has become a very lucrative sector for investors. With a growing urgency for efficient waste management in many cities, there will be more and more employment opportunities in the sector. The participation of different sectors, roll of Government and private organization is important for better management of waste.

This book describes the various waste treatment technologies like; Physical treatment techniques, biological treatment techniques, anaerobic lagoon techniques etc. It will be a standard reference book for professionals, entrepreneurs, students, teachers, researchers, administrators, and planners of various disciplines who are directly or indirectly involved in the waste management.

1. INTRODUCTION

2. TYPES OF WASTES

A. Livestock Farm Wastes

Current Methods for Disposal of Livestock Mortalities

Burial

Burning

Incineration

Rendering

Composting

Future of Livestock Mortality Disposal

Novel Disposal Methods

Carcass Storage and Bioreduction Methods

Reasons for Concern

Pollution Potential of Farm Animal Wastes

Magnitude of the Problem

Properties of Animal Wastes

Physical Properties

Chemical and Biological Properties

Fertilizer Value

Handling of Farm Animal Wastes

Storage of Farm Animal Wastes

Treatment of Farm Animal Wastes

Physical Treatment

Chemical Treatment

Biological Treatment

Composting

Anaerobic Digestion

Lagoon Treatment

Aerobic Treatment

Economics of Farm Animal Waste Treatment

B. Biomedical Wastes

Classification of Biomedical Waste

Handling, Storage, and Transportation of Healthcare Waste

On-site Collection, Transport, and Storage of Waste

Collection

Storage

On-site Transport

Off-site Transportation of Waste

Special Packaging Requirements for Off-site Transport

Handling, Storage, and Transportation of Healthcare Waste

Routing

Biomedical Waste Treatment

Incineration Technology

Non-Incineration Technology

Autoclaving

Microwave Irradiation

Chemical Methods

Selection of Suitable Treatment Technology

Common Treatment Facility

Mobile Treatment/Disposal System

C. Industrial Wastes

Description of Important Industrial Solid Waste
Coal Ash
Integrated Iron and Steel Plant Slag
Phosphogypsum
Red Mud
Lime Mud
Waste Sludge and Residues
Potential Reuse of Solid Wastes
Prevention-A Waste Minimization Approach
Inventory Management and Improved Operations
Modification of Equipment
Production Process Changes
Recycling and Reuse
Waste Management at Source
Collection and Transport of Industrial Wastes
Storage and Transportation
Disposal of Industrial Solid Waste
Health Consequences of Poor Industrial Waste Disposal
Waste Segregation
Combined Treatment Facilities
Landfill
Waste Reduction Techniques
Benefits of Cleaner Production
Industrial Hazardous Wastes
Industrial Nonhazardous Wastes
Radioactive Wastes
D. Abattoir Wastes
Sources of Waste in Red Meat Abattoirs
Best Management Practices
Existing Methods for Disposal of Meat Production Waste
Burial
Composting
Incineration
Rendering
Rendering Industry
Recent Events Affecting the Rendering Industry
Dead Stock Collection, Transportation and Receiving
Dead Stock Collectors and Receivers
Anaerobic Digestion of Protein Rich Substrate
Co-digestion Plant Design and Operation
E. Household/Kitchen Wastes
Disposal of Household Hazardous Waste
Disposal Problems
Disposal Problems in the Trash
Disposal Problems on the Ground
Disposal Problems in Storm Sewers
Worm Composting
F. Municipal Wastes
Anaerobic Digestion Process
Various AD Systems
Important Operating Parameters in AD Process
Waste Composition/Volatile Solids (VS)
pH Level

Temperature
Carbon to Nitrogen Ratio (C/N)
Total Solids Content (TS) / Organic Loading Rate (OLR)
Retention (or Residence) Time
Mixing
Compost
Biogas Composition
Development and Present Status of AD Technology
Historical Background
Types of AD Systems
Single Stage Process
Single Stage Low Solids (SSLS) Process
Single Stage High Solids (SSHS) Process
Multi-stage Process
Multi-stage Low Solids Process
Multi-stage High Solids Process
Batch Reactors
G. Dairy Industries Wastes:
Sources of Wastes
Waste Characteristics
Treatment of Dairy Wastes
Checking of Dairy Effluent
Preventive Attitudes
Waste Management Issues for Dairy Processors
Cheese Making
Whey Condensing
Shell and Tube Condensers
Mechanical Vapor Recompression (MVR)
Ultra Filtration
Reverse Osmosis
Waste Water Treatment Options
Aerated Lagoons
Activated Sludge
Sequencing Batch Reactors
Biological Tower
Spray Irrigation
Ridge and Furrow Systems
Absorption Ponds
Hauling and Land Application
WPDES Permit Issuance
Surface Water Effluent Limits
Land Application of Waste Water
Phosphorus Limitations
Chloride Limitations
Aerated Lagoon Treatment Systems
Winter Spreading of Waste
H. Fish and Seafood Processing Unit's Wastes
Liquid Effluent
Solid Waste
Other Waste Components
Waste Management
Typical Waste Treatment Scenario
Data on Receiving Environment

Biologically Activated Rock Phosphate Fertilizer
Fish Processing Waste Disposal Practices and Options
Waste Water Characteristics
I. Poultry Farm Waste
Options and Considerations for Poultry Waste Management
Animal Refeeding
Bioenergy Production
Dead Birds Disposal:
Composting
Incineration
J. Electronic Wastes
E-waste in India
Impacts of E-wastes
Impacts of Informal Recycling
Status of E-waste Management in India
E-waste Management Strategies
Electronic Waste Items List
Electronic Wastes: A Rising Global Phenomenon
Electronic Wastes: The Environmental and Human Rights Dimensions
Regulatory Responses to the Electronic Waste Phenomenon
K. Other Wastes
Construction Waste Management
Eliminating Waste
Minimizing Waste
Reusing Materials
Federal Regulations
Management
Project Level-enhancing Project Value and Performance
Organization Level-stewardship of Corporate Values and Priorities
Disposition Level-management of Diversion and Disposal
Construction and Demolition Wastes
Best Management Practices
Process
Collection and Hauling
Containerization and Transport
Prevalence of Common Materials
1. Waste Management Planning
2. Facility Design
3. Construction Contract Requirements
4. Jobsite Waste Reduction
Emerging Issues
Plastic Waste and Its Disposal
Radioactive Waste and Their Environmentally Sound Management
Manual Loading of Waste
Loading of Waste Through Front End Loader and Trucks
Garbage Loaded in Open Trucks Causing Nuisance
Measures to be Taken to Improve the System
Steps to be Taken to Meet the Above Objectives
Transportation of Construction Waste and Debris
Waste Disposal Management
Waste Types that Should not to be Incinerated
Pharmaceutical Disposal
Management of Municipal Solid Waste in India

Waste Management: Global Perspective
Waste Generation
Development Trends for Waste and Wastewater
Global Overview of Waste Management
Landfill CH₄: Regional Trends
Wastewater and Human Sewage CH₄ and N₂O: Regional Trends
CO₂ From Waste Incineration
Waste Management and GHG-Mitigation Technologies
CH₄ Management at Landfills
Incineration and Other Thermal Processes for Waste-to-energy
Biological Treatment Including Composting, Anaerobic Digestion, and Mechanical
Waste Reduction, Re-use and Recycling
Wastewater and Sludge Treatment
Waste Management and Mitigation Costs and Potentials
Fluorinated Gases: End-of-life Issues, Data and Trends in the Waste Sector
Air Quality Issues: NMVOCs and Combustion Emissions
Reducing Landfill CH₄ Emissions
Incineration and Other Thermal Processes for Waste-to-energy
Waste Minimization, Re-use and Recycling
Policies and Measures on Fluorinated Gases
Municipal Solid Waste Management
Wastewater Management
Disposal of Fallen Animals in the Field/Forest
Rendering Industry
Recent Events Affecting the Rendering Industry
Deadstock Collection, Transportation and Receiving
3. HUMAN PATHOGENS IN ANIMAL AGRICULTURE
PRODUCTION SYSTEMS
Viruses
Chlamydia
Coxiella Burnetii
Bacteria
Aeromonas Hydrophila
Arcobacter
Bacillus Anthracis
Brucella
Campylobacter
Clostridium Perfringens
Escherichia Coli
Erysipelothrix Rhusiopathiae
Francisella Tularensis
Leptospira Species
Listeria Monocytogenes
Salmonella
Yersinia
Mycotic Agents
Parasites (Protozoans and Helminths)
Ascaris
Balantidium Coli
Cryptosporidium Parvum
Giardia
Toxoplasma
Other Organism

Microsporidia

Faecal Indicator Organisms

4. PATHOGEN REDUCTIONS DURING WASTE TREATMENT

Manure Solids Waste

Dry Techniques: Composting

Manure Slurry Treatment Techniques

Physical Treatment Techniques

Biological Treatment Techniques

Anaerobic Lagoon Treatment

Multiple Lagoon Systems

Aerated Lagoons and Oxidation Ponds

Anaerobic Digestion

Mesophilic Anaerobic Digestion

Thermophilic Anaerobic Digestion

Aerobic Digestion

Mesophilic Aerobic Digestion

Thermophilic Aerobic Digestion

Activated Sludge

Biofiltration

Constructed Wetlands

Overland Flow

Disinfection and Chemical Treatments

Chlorine

Ozone

Chlorine Dioxide

Ultraviolet Light (UV) Irradiation

Lime Stabilization

Pasteurization

Animal Waste Disposal or Recycling Options

Land Application

Spray Fields

5. AEROSOLIZATION OF PATHOGENS

Microbial Detection Analysis Techniques

On-farm Verification of Microbial Reduction by Corrective Measures

Real-time Measurement Techniques

Public Health Hazards due to Wastes

Hazardous Substances Associated with Waste Management

Impact of Waste Management Practices on Health

Individual Pollutants

Health Effects in Communities

Control of Hazards

Safe Work Practices

PPE Hazard Assessment and Training

Systems to Track Hazard Correction

Emergency Preparation

Emergency Preparedness

Current Scenario and Future Challenges of Municipal Solid Waste Management in India

Conclusions

Recommendations

6. PHOTOGRAPHS OF PLANT & MACHINERY WITH SUPPLIER'S CONTACT DETAILS

Biomining Machines

Waste Recycling Plant
Animal Waste Recycling Plant
Biomedical Waste Machines
Dairy Waste Recovery Machine
Agro Waste Biomass Briquetting Plant
Food Waste Composting Machine

7. APPENDICES

Appendix–I
Appendix–II
Appendix–III
Appendix–IV
Appendix–V
Appendix–VI
Appendix–VII
Appendix–VIII
Appendix–IX
Appendix–X
Appendix–XI
Appendix–XII
Appendix–XIII
Annexure–XIV
Annexure–XV
Annexure–XVI
Annexure–XVII
Annexure–XVIII
Annexure–XIX
Annexure–XX
Annexure–XXI
Annexure–XXII
Annexure–XXIII
Annexure–XXIV
Annexure–XXV
Appendix–XXVI
Appendix–XXVII
Appendix–XXVIII
Appendix–XXIX
Annexure–XXX
Appendix–XXXI
Appendix–XXXII
Appendix–XXXIII

8. GLOSSARY

9. REFERENCES

About NIIR

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NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India.
Email: npcs.india@gmail.com **Website:** NIIR.org

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