

Medical, Municipal and Plastic Waste Management Handbook

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Waste management is the collection, transport, processing, recycling or disposal, and monitoring of waste materials. Concern over environment is being seen a massive increase in recycling globally which has grown to be an important part of modern civilization. The consumption habits of modern consumerist lifestyles are causing a huge global waste problem. Rapid urbanization and industrial diversification has led generation of considerable quantities of municipal, plastic, hazardous and biomedical waste. Further the rapid industrial developments have, led to the generation of huge quantities of hazardous wastes, which have further aggravated the environmental problems in the country by depleting and polluting natural resources. Therefore, rational and sustainable utilization of natural resources and its protection from toxic releases is vital for sustainable socioeconomic development. Hazardous waste management is a new concept for most of the Asian countries including India. The utilization of resources and generation of waste is far beyond the limit that the biosphere was made to carry. Recycling of plastics should be carried in such a manner to minimize the pollution level during the process and as a result to enhance the efficiency of the process and conserve the energy. The concern for bio medical waste management has been felt globally with the rise in infectious diseases and indiscriminate disposal of waste. It is to be understood that management of bio medical waste is an integral part of health care. There is a clear need for the current approach of waste disposal in India that is focussed on municipalities and uses high energy/high technology, to move more towards waste processing and waste recycling (that involves public private partnerships, aiming for eventual waste minimization driven at the community level, and using low energy/low technology resources).

This book basically deals with characterization of medical waste, medical waste data collection activities, medical waste treatment effectiveness, gas sterilization, medical waste reuse, recycling and reduction, selection of waste management options, fundamental concepts related to hospital waste incineration, linkage of bio medical waste management with municipal waste management, waste identification and waste control program for the health care establishments, waste treatment and disposal: the rules and the available options, recycle spoiled photographic film and paper etc.

Waste management is one of the essential obligatory functions of the country. This service is falling too short of the desired level of efficiency and satisfaction resulting in problems of health, sanitation and environmental degradation. This book provides overview of the status of medical, municipal and plastic waste management. A treatment technique includes sterilization, incineration and number of recycling methods.

1. Characterization of Medical Waste

1. INTRODUCTION AND OVERVIEW

2. MEDICAL WASTE GENERATION

Methodology

Summary of Preliminary Results

3. MEDICAL WASTE DATA COLLECTION ACTIVITIES

Transporter Notification

Results

Transporter Periodic Reports

On-Site Incinerators

2. Medical Waste Treatment Effectiveness

1. INCINERATION

Factors Affecting Effectiveness

Medical Waste Treatment Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

2. STEAM STERILIZATION

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

3. GAS STERILIZATION

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

4. CHEMICAL DISINFECTION

Factors Affecting Effectiveness

Quality assurance and Quality Control Procedures

Maintenance and Operator Training

5. THERMAL INACTIVATION

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

6. IRRADIATION

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

7. MICROWAVE TREATMENT

Factors Impacting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

8. GRINDING AND SHREDDING

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

9. COMPACTION

Factors Affecting Effectiveness

Quality Assurance and Quality Control Procedures

Maintenance and Operator Training

3. Medical Waste Handling Methods

1. INTRODUCTION

2. CURRENT PRACTICES

Handling and packaging practices

For Off-Site Incineration

Medical Waste Handling Materials

For Landfill Disposal

For On-site Treatment or Disposal

For Sewer and Ocean Disposal

3. STANDARDS IMPLEMENTED BY THE RULE

Segregation

Packaging

Labeling

Marking

Storage

Transport

4. EVOLVING HANDLING AND MANAGEMENT TECHNIQUES 19

Handling

Compaction

5. METHODS TO EVALUATE MEDICAL WASTE HANDLING

4. Medical Waste Reuse, Recycling and Reduction

1. RECYCLING AND REUSE

2. SOURCE REDUCTION

3. GENERATION RATES

4. AGENCY ACTION

5. Infectious Waste Characterization

1. DEFINITION OF INFECTIOUS WASTE

2. TYPES OF INFECTIOUS WASTE

1. Isolation Wastes

2. Cultures and Stocks of Infectious Agents and Associated Biologicals

3. Human Blood and Blood Products

4. Pathological Wastes

5. Contaminated Sharps

6. Contaminated Animal Carcasses, Body Parts, and Bedding

3. MISCELLANEOUS CONTAMINATED WASTES - (OPTIONAL CATEGORY)

6. Infectious Waste Management

1. INTRODUCTION

2. SELECTION OF WASTE MANAGEMENT OPTIONS

3. INFECTIOUS WASTE MANAGEMENT PLAN

1. Designation of Infectious Waste

2. Segregation of Infectious Waste

3. Packaging of Infectious Waste

4. Storage of Infectious Waste

5. Transport of Infectious Waste (on- and off-site)

6. Treatment of Infectious Waste

7. Disposal of Treated Wastes

8. Contingency Planning

9. Staff Training

7. Treatment of Infectious Waste

1. INTRODUCTION

1. Monitoring

2. Steam Sterilization

3. Incineration

4. Thermal inactivation

5. Gas/Vapour Sterilization

6. Chemical Disinfection

7. Sterilization by Irradiation

8. Other Treatment Methods

8. Medical Waste

1. CYTOTOXIC CHEMICALS
2. HAZARDOUS CHEMICALS
3. PATHOGENS
4. TOXIC METALS
5. RADIOACTIVE MATERIALS
9. Hospital Incineration Systems
1. INTRODUCTION
2. FUNDAMENTAL CONCEPTS RELATED TO HOSPITAL WASTE INCINERATION
 1. Chemical Reactions
 2. Stoichiometric Combustion Air
 3. Thermochemical Relations
 4. Volumetric Gas Flows
 5. The Combustion Process
3. HOSPITAL WASTE CHARACTERISTICS
4. TYPES OF HOSPITAL WASTE INCINERATOR SYSTEMS
 1. Introduction
 2. Multiple-chamber incinerators
 1. Principle of Combustion and Air Distribution
 2. Mode of Operation
 3. Waste Feed Charging Systems
 4. Ash Removal Systems
 5. Use of Multiple-Chamber Incinerators for Incinerating Hospital Wastes
 3. Controlled-Air Incinerators
 1. Principle of Controlled Air Incineration
 2. Batch/Controlled-Air incinerators
 3. Intermittent-Duty, Controlled Air Incinerators
 4. Continuous-Duty, Controlled Air incinerators
 4. Rotary Kilns
 1. Principle of Operation
 2. Mode of Operation
 3. Charging System
 4. Ash Removal
 5. Auxiliary Equipment
 1. Waste Heat Boilers
 2. Auxiliary Waste Liquid Incineration
10. Bio-Medical Waste
1. INTRODUCTION
 1. Linkage of Bio-medical Waste Management with Municipal Waste Management
2. ASSESSMENT OF CURRENT SITUATION
 1. Waste Generation
 - (i) Health Care Establishments
 - (ii). Whole Town/City
 2. Current Practices
 3. Allocation of Responsibilities
3. BASIC ISSUES
 1. Management Issues of Bio-medical Waste Management
 2. Current Issues in Management of Health Care Waste
4. LEGAL ASPECTS AND ENVIRONMENTAL CONCERN
 1. Bio-medical Waste (Management and Handling) Rules, 1998

Scope and application of the Rules

Environmental Concern
5. WASTE IDENTIFICATION AND WASTE CONTROL PROGRAM FOR THE HEALTH CARE ESTABLISHMENTS

1. Identification of Various Components of the Waste Generated
2. An Exercise in Waste Control Programme
6. WASTE STORAGE
 1. Recommended Labelling and Colour Coding
 2. Segregated Storage in Separate Containers (at the Point of Generation)
 3. Certification
4. COMMON/INTERMEDIATE STORAGE AREA
 5. Parking Lot for Collection Vehicles
7. HANDLING AND TRANSPORTATION
 1. Collection of Waste Inside the Hospital/Health Care Establishment
 2. Transportation of Segregated Waste Inside the Premises
 3. Collection and Transportation of Waste for Small Units
 4. Transportation of Waste Outside
8. WASTE TREATMENT AND DISPOSAL : THE RULES AND THE AVAILABLE OPTIONS
 - Transportation of Waste Outside
 1. Incineration
 2. Autoclave Treatment
 3. Hydroclave Treatment
 4. Microwave Treatment
 5. Chemical Disinfection
 6. Sanitary and Secured Landfilling
 7. General Waste
9. COMMON TREATMENT/DISPOSAL FACILITY
 1. Establishment of the Facility
 2. Tie Up of Health Care Set Ups
 3. Private Sector Participation
10. OPERATION AND MAINTENANCE
11. OCCUPATIONAL HAZARDS AND SAFETY MEASURES
 1. Occupational Hazards
 2. Safety Measures for the Medical and Para-medical Staff
 3. Safety Measures for Cleaning and Transportation Staff
12. FINANCIAL ASPECTS
13. TRAINING AND MOTIVATION
 1. Training Modules for Different Levels of Staff
 - (i) Medical and laboratory personnel:
 - (ii) Para-medical personnel:
 - (iii) Sweepers, cleaning staff, guards etc.:
 - (iv) Administrative and management staff:
 2. Incentives and Motivation
 3. Awareness Generation
14. PLANNING ELEMENTS
 1. Planning Inside the Health Care Establishment Premises
 2. Planning Outside the Health Care Establishment
 3. Relation to Overall Town Planning
 4. Examples
15. MANAGEMENT ASPECTS
 1. Organisational Set Up 104
 2. Administration and Managerial Aspects 105
16. ANIMAL WASTE 105
 11. Air Pollution Control
1. INTRODUCTION 108
 2. POLLUTANT FORMATION AND GENERATION 108
 3. CONTROL STRATEGIES 109

1. Controlling Feed Material
2. Combustion Control 111
3. Add-On Air Pollution Control Systems

1. Wet Scrubbers
2. Fabric Filters
3. Dry Scrubbers

12. Waste Minimization Options

Description of Techniques

Better Operating Practices

Chemotherapy and Antineoplastic Wastes

Formaldehyde Wastes

Instal Reverse Osmosis (RO) Water Supply Equipment

Determine Minimum Effective Cleaning Procedures

Reuse/Recycle Waste Solutions

Proper Waste Management

Photographic Chemical Waste

Store Materials Properly

Recycle Spoiled Photographic Film and Paper

Test Expired Material for Usefulness

Extend Processing Bath Life

Use Squeegees

Use Countercurrent Washing

Recover Silver and Recycle Spent Chemicals

Radionuclides

Solvents

Material Substitution

Improved Laboratory Techniques

Recycle Solvents

Mercury

Electronic Sensing Devices

Proper Spill Clean Up

Recycle/Reuse

Waste Anesthetic Gases

Toxics, Corrosives, and Miscellaneous Chemicals

Ethylene Oxide

Use of Recyclable Drums

Proper Material Handling

Material Substitution

13. Vermiculturing

1. INTRODUCTION

2. INTRODUCTION TO VERMICOMPOSTING

Reduction of particle size

Vermicomposting

Different stages and methods

3. THE INORA PROCESS

The biological means

Selection of biological methods

Bisanitization or accelerated aerobiosis

The biogas plants

The earthworm

4. ASSESSMENT

Environmental assessment

Water

Gases

Pollutants

Aesthetics

Financial assessment

5. QUALITY AND STABILITY FACTORS IN COMPOSTING

Introduction

Appropriate standards

Raw versus composted waste

Identification

5. CONCLUSION

14. Municipal waste water treatment and energy recovery

1. INTRODUCTION

2. THE GANGA ACTION PLAN

3. INDO-DUTCH ENVIRONMENTAL PROJECT

INTEGRATED APPROACH

UASB SYSTEM -A CLEAN TECHNOLOGY

Advantages of UASB over traditional aerobic processes

Technical aspects

Energy recovery from municipal sewage

Technology options for municipal waste water treatment

Case-studies

5 mld UASB treatment plant at Kanpur

Energy savings and biogas generation

Conclusions

Recommendations

14 mld UASB treatment plant at Mirzapur

Energy recovery

Financial aspects

15. Principles of Municipal Solid Waste Management

1. INTRODUCTION

Solid Waste Generation

Environmental Impact of Solid Waste Disposal on Land

Objective of Solid Waste Management

2. PRINCIPLES OF MUNICIPAL SOLID WASTE MANAGEMENT

Waste Reduction

Effective Management of Solid Waste

Functional Elements of Municipal Solid Waste Management

3. HIERARCHY OF WASTE MANAGEMENT OPTIONS

4. WASTE MINIMISATION

5. RESOURCE RECOVERY THROUGH MATERIAL RECYCLING

Sorting at Source

Centralised Sorting

Sorting Prior to Waste Processing or Landfilling

6. RESOURCE RECOVERY THROUGH WASTE PROCESSING

Biological Processes

Thermal Processes

Other Processes

7. WASTE TRANSFORMATION (WITHOUT RESOURCE RECOVERY) PRIOR TO DISPOSAL

Mechanical Transformation

Thermal Transformation

Other Methods

8. DISPOSAL ON LAND

9. COMPONENTS OF MUNICIPAL SOLID WASTE MANAGEMENT SYSTEM

10. LINKAGES BETWEEN MUNICIPAL SOLID WASTE MANAGEMENT SYSTEM AND OTHER TYPES OF WASTES GENERATED IN AN URBAN CENTRE

11. MATERIALS FLOW CHART FOR MUNICIPAL SOLID WASTE MANAGEMENT SYSTEM (1000 t.p.d. WASTE GENERATION)

16. Composition and Quantity of Solid Waste

1. INTRODUCTION

Terminology and Classification

Variations in Composition and Characteristics

2. DEFINITIONS AND CLASSIFICATION OF SOLID WASTES

Definitions

(i) Domestic/Residential Waste:

(ii) Municipal Waste:

(iii) Commercial Waste:

(iv) Institutional Waste:

(v) Garbage:

(vi) Rubbish:

(vii) Ashes:

(viii) Bulky Wastes:

(ix) Street Sweeping:

(x) Dead Animals:

(xi) Construction and Demolition Wastes:

(xii) Industrial Wastes:

(xiii) Hazardous Wastes:

(xiv) Sewage Wastes:

Classification

3. COMPOSITION, CHARACTERISTICS AND QUANTITIES

Need for Analysis

Field Investigations

Number of Samples to be Collected

Collection of Samples of Solid Waste

Composition and Characteristics

Characteristics of Municipal Solid Waste in Indian Urban Centres

Per Capita Quantity of Municipal Solid Waste in Indian Urban Centres

Estimation of Future Per Capita Waste Quantity

Relation between Gross National Product (GNP) and Municipal Solid Waste Generation

Rate of Increase based on Experience in Other Cities

Seasonal Variations

Physical Characteristics

Density

Bulk Density Measurement

1. Material and apparatus:

2. Moisture Content

3. Size of Waste Constituents

4. Calorific Value

Chemical Characteristics

Classification

(i) Lipids:

(ii) Carbohydrates:

(iii) Proteins:

(iv) Natural Fibres:

(v) Synthetic Organic Materials (Plastic):

(vi) Non-combustibles:

4. CONCLUSION

17. Slaughter House Waste and Dead Animals

1. INTRODUCTION

2. MAGNITUDE OF THE PROBLEM

3. CLASSIFICATION

4. OPERATIONS DURING SLAUGHTERING OF ANIMALS

Present Scenario

Slaughtering

Bleeding

Dressing

Evisceration

5. MEASURES PROPOSED TO IMPROVE THE SLAUGHTER HOUSE WASTE MANAGEMENT

Liquid Waste/Effluent

Collection of Blood

Improved Method of Dressing

Evisceration

Safe Disposal of Waste Products

Odours Control

Modernisation of Slaughter House

Curbing Activities of Illegal Slaughtering of Animals

Provision of Dry Rendering Plants

6. CONCLUSION

18. Industrial Solid Waste

1. INTRODUCTION

2. THE PROBLEMS

3. INDUSTRIAL SOLID WASTE

4. DESCRIPTION OF IMPORTANT INDUSTRIAL SOLID WASTE

Coal Ash

Integrated Iron & Steel Plant Slag

Phosphogypsum

Red Mud

Lime Mud

Waste Sludge and Residues

Potential Reuse of Solid Wastes

5. WASTE MANAGEMENT APPROACH

Prevention-A Waste Minimisation Approach

Inventory Management and Improved Operations

Waste Management at Source

6. AREA OF APPLICATION OF SOME IMPORTANT INDUSTRIAL WASTES

7. CURRENT PRACTICE OF INDUSTRIAL SOLID WASTE MANAGEMENT

Collection and Transport of Wastes

Storage & Transportation

Disposal of Industrial Solid Waste

8. HEALTH CONSEQUENCES OF POOR INDUSTRIAL WASTE DISPOSAL

9. COLLECTION, STORAGE TREATMENT & DISPOSAL OF WASTES

Waste Segregation

Collection, Storage and Transport

Combined Treatment Facilities

Disposal Methods

Landfills?

(i) Definitions

Why landfills?

Design:

10. CASE STUDIES

Construction:

Closure & Post Closure:

Incineration

Manifest System

Post Treatment

Back-transport

Monitoring

Record Keeping

11. LEGISLATION FOR MANAGEMENT OF HAZARDOUS WASTE AND CATEGORISATION OF HAZARDOUS WASTE

11. HANDLING OF HAZARDOUS CHEMICALS

12. INDUSTRIAL LOCATION

13. MANAGEMENT OF INDUSTRIAL SOLID WASTES COORDINATION (SPCBs & LOCAL BODIES)

19. Emerging Processing Technologies

1. INTRODUCTION

2. VERMICOMPOSTING

3. BIOGAS FROM MUNICIPAL SOLID WASTES

4. CONVERSION OF SOLID WASTES TO PROTEIN

5. ALCOHOL FERMENTATION 259

6. PYROLYSIS

Plasma Arc Technology/Plasma Pyrolysis Vitrification (PPV)

7. REFUSE DERIVED FUEL

8. HYDROPULPING

9. SLURRY CARB PROCESS

10. TREATMENT FOR RECOVERY OF USEFUL PRODUCTS

11. SUMMARY

20. Wastewater and Its Collection

1. ECOSYSTEM APPROACH TO POLLUTION CONTROL

Food Chains and Webs

Accumulation of Substances in Food Chains and Webs

Accumulation of Pollutants in Waterbodies

Species Diversity and Ecosystem Stability

Nature of Pollutants

Effects of Pollutants

Control of Pollutants

2. WASTE WATER CHARACTERISTICS

Municipal Wastewater

Industrial Wastewater

Fluctuations In Flow and Composition

3. TYPES OF WASTES AND APPLICABLE RULES

4. PLANNING FOR WASTEWATER COLLECTION

Introduction

Data Requirements and Surveys

On-Site and Off-Site Disposal Systems

Sewer Discharge Standards

Proportion of Industrial and Domestic Wastes

Potential Health Benefits

New Approaches in Sewerage System Design

21. Principles of Reactor Design

1. REACTION ORDER

2. FLOW PATTERNS OF REACTORS

Batch Reactors

Ideal Plug Flow

Ideal Completely Mixed Flow

3. ESTIMATION OF DISPERSION NUMBER, D/UL

Use of Tracer Tests

Use of Empirical Equations

Cells in Series Parallel Arrangements

4. EFFECT OF SHOCK LOADS

5. ESTIMATION OF WASTEWATER TEMPERATURE IN LARGE REACTORS

6. FACTORS AFFECTING CHOICE OF REACTORS

Nature of the Waste

Process Optimization

Other Factors

22. Principles of Biological Treatment

1. MICROBIAL GROWTH RATES

2. TREATMENT KINETICS

3. HANDLING OF SOLIDS

4. SLUDGE AGE AND HYDRAULIC RETENTION TIME

5. FOOD/MICROORGANISMS RATIO

6. BUILD UP OF SOLIDS IN SYSTEM

7. SUBSTRATE REMOVAL EFFICIENCY

8. TEMPERATURE EFFECTS

9. ESTIMATION OF FINAL EFFLUENT BOD

10. OXYGEN REQUIREMENTS

For Facultative and Flow-through Units

For Flow-through Systems with Recycling

11. NUTRIENT REQUIREMENTS

12. PHOSPHORUS REMOVAL

13. NITROGEN REMOVAL

14. CHOICE OF SLUDGE AGE

23. Mechanically Aerated Lagoons

1. TYPES OF AERATED LAGOONS

Facultative Aerated Lagoons

Aerobic Flow-through Lagoons

Aerobic Lagoons with Recycling of Solids

2. DESIGN OF FACULTATIVE AERATED LAGOONS

Substrate Removal Rate

Lagoon Mixing Conditions and Efficiency

Lagoon Depth

Solids in Suspension and Power Level

Oxygenation and Power Level

Anaerobic Activity In Facultative Lagoons

Performance

Sludge Accumulation

3. DESIGN OF AEROBIC FLOW-THROUGH TYPE LAGOONS

Substrate Removal and Solids Concentration

Detention Time

Solids Concentration

Final Effluent BOD

Oxygen Requirements

Aeration Power and Power Level

4. DESIGN OF DUAL-POWERED AERATED LAGOONS

Design Basis

Retention Time

Performance Power Requirement

Sludge Accumulation

5. DESIGN OF AEROBIC LAGOONS WITH RECYCLING OF SOLIDS (EXTENDED AERATION LAGOONS)

6. CHOICE OF COMBINATIONS AND LAYOUTS OF UASBs, AERATED LAGOONS AND ALGAL PONDS

7. OPTIMIZATION TRIALS

8. CONSTRUCTION FEATURES

24. Power Generation Based on Distillery Spentwash

INTRODUCTION

THE BIOPAQ TECHNOLOGY

Pre-acidification/buffer tank

Sludge disposal

Biogas handling

CASE-STUDY

NEW DEVELOPMENT

Power generation scheme

CONCLUSION

25. Production, Use, and Disposal of Plastics and Plastic Products

1. SUMMARY OF KEY FINDINGS

2. TECHNOLOGICAL OVERVIEW

Manufacturing Resins

Incorporating Additives

3. PRODUCTION AND CONSUMPTION STATISTICS

Historical Overview

Domestic Production of Plastics

Import/Export and Domestic Consumption

Economic Profile of the Plastics Industry

Sector Characteristics

Market Conditions and Prices for Commodity Resins

Characteristics of Major Resin Types

Characteristics of Major Additive Types

4. MAJOR END USE MARKETS FOR PLASTICS

Packaging

Building and Construction

Consumer and Institutional Products

Electrical and Electronics

Furniture and Furnishings

Transportation

Adhesives, Inks, and Coatings

5. DISPOSITION OF PLASTICS INTO THE SOLID WASTE STREAM

Plastics in Municipal Solid Waste

Plastics in Building and Construction Wastes

Plastics in Automobile Salvage Residue

Plastics in Litter

5 Plastics in Marine Debris.

26. Impacts of Post-consumer Plastics Waste on the Management of Municipal Solid waste

SUMMARY OF KEY FINDINGS

Landfilling

Management Issues

Incineration

Management Issues

Environmental Releases

Litter

LANDFILLING

Management Issues

Landfill Capacity

Landfill Integrity

Other Management Issues

Environmental Releases

Leaching of Plastic Polymers

Leaching of Plastics Additives

INCINERATION

Introduction

Number, Capacity, and Types of Incinerators

Combustion Properties of Plastics

Plastics Combustion and Pollution Control

Incinerator Management Issues

Excessive Flame Temperature

Products of Incomplete Combustion (PICs)

Formation of Slag

Formation of Corrosive Gases

3 Environment Release

Emissions from MSW Incinerators

Plastics Contribution to Incinerator Ash

LITTER

Background

Analysis of Relative impacts of Plastic and other Litter

27. The Potential for Divertable Plastic Waste

1. SCENARIO DEVELOPMENT

1 Scenario 1

2 Scenario 2

3 Scenario 3

4 Scenario 4

5 Scenario 5

2. ESTIMATED QUANTITIES OF DPW

1. Scenario 1

2. Scenario 2

3. Scenario 3

4. Scenario 4

5. Scenario 5

3. SUMMARY

28. Objectives and Action Items

OBJECTIVES FOR IMPROVING MUNICIPAL SOLID WASTE MANAGEMENT

Source Reduction

ACTION ITEMS:

ACTION ITEMS:

OBJECTIVE 1: EVALUATE POTENTIAL FOR MINIMIZING PACKAGING

ACTION ITEMS:

OBJECTIVE 2: EDUCATION AND OUTREACH ON SOURCE REDUCTION

ACTION ITEMS:

RECYCLING

ACTION ITEMS:

Improving Recyclability of the Waste Stream

Collection/Separation

Processing

Marketing

Public Education

Landfilling and Incineration

OBJECTIVE 1: FURTHER EVALUATE ADDITIVES

ACTION ITEM:

OBJECTIVE 2: MONITOR PVC USE

ACTION ITEMS:

OBJECTIVE 3: IMPROVE DISPOSAL OPTIONS

ACTION ITEMS:

OBJECTIVES FOR HANDLING PROBLEMS OUTSIDE THE MSW MANAGEMENT SYSTEM

Wastewater Treatment Systems/Combined Sewer overflows/Stormwater Drainage Systems

Wastewater Treatment Systems

ACTION ITEM:

Combined Sewer Overflows

ACTION ITEMS:

Storm water Discharges

ACTION ITEMS:

Other Sources of Marine Debris

Vessels

OBJECTIVE 1: IMPLEMENT ANNEX V OF MARPOL

ACTION ITEMS:

OBJECTIVE 2: REDUCE IMPACT OF FISHING GEAR

ACTION ITEM:

Plastic Manufacturers, Processors, and Transporters

ACTION ITEMS:

Garbage Barges

ACTION ITEM:

Land- and Sea-Originated Litter

OBJECTIVE 1: SUPPORT LITTER RETRIEVAL AND CHARACTERIZATION

ACTION ITEMS:

OBJECTIVE 2: SUPPORT LITTER PREVENTION

ACTION ITEMS:

Degradable Plastics

ACTION ITEMS:

29. Recent Legislative and Regulatory Actions

LOCAL AND STATE ACTIONS

FEDERAL ACTIONS

IMPLICATIONS FOR PLASTICS RECYCLING

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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