

Perennial Problems for Community, Municipality, Industrial activity ... What to do?



SOLID WASTE MANAGEMENT

Addressing Public Health, Environmental issues, thro' innovative ideas thereby exceeding customer expectations



Background

The growth of Municipal Solid Waste has outpaced the growth of our population due to increasing urbanization, industrialization resulting in change in lifestyles, food habits & living standards. The increase in non-degradable waste is alarming. The production and consumption of non-degradable material in our lifestyle have increased many fold, and finds a way out in Dumpsites. Urban Local Bodies have the massive challenge of managing this Solid waste as per the Municipal Solid Wastes (Managing & Handling) Rules 2000.



MSW (Managing & Handling) Rules 2000 are applicable to every municipal authority responsible for collection, segregation, storage, transportation, processing and disposal of municipal solid waste. The Rule contain 4 Schedules

| | |
|---------------------|--|
| Schedule I | Relates to implementation Schedule |
| Schedule II | Specifications relating to collection, segregation, storage, transportation, processing and disposal of municipal solid waste (MSW) |
| Schedule III | Specifications for Land filling Indicating; site selection, facilities at the site, specifications for land filling, Pollution prevention, water quality monitoring, ambient air quality monitoring, Plantation at landfill site, closure of landfill site and post care |
| Schedule IV | Indicate waste processing options including; standards for composting, treated leachates and incinerations. |

Cholamandalam MS Risk Services in Solid Waste Management

Cholamandalam MS Risk Services offers its expertise to address the issues faced by Municipalities, Industrial Townships, Special Economic Zones, Airports, and Commercial Establishments in managing the Solid Waste most efficient and cost effective manner. Through its dedicated team of professionals the following services are offered

- Preparation of Detailed Project Report for Solid Waste Management for Corporations, Municipalities, Townships, Airports & Industrial Township
- Design of Effective Solid Waste Management System
- Design of Sanitary Landfill Facility for scientific disposal of Solid Waste
- EIA studies for Selection of disposal of solid waste in Sanitary Landfill Facility
- Remediation & Reclamation of Old Dump Sites
- Composting and Recycling Technologies
- Examine the potential for Clean Development Mechanism
- Selection of appropriate Technologies for Waste Processing Facilities(Waste to Energy)
- Customized Training in Solid Waste Management

Approach Methodology

Preparation of Detailed Project Report

- Population Study and Random Sample Survey on Waste Generation and Waste Quantification
- Establishment of Current Status/Baseline Survey of Solid Waste Management Practices
- Evolving Action Plan for Effective Solid Waste Management
- Assessment of Geological Characteristics of the Waste Disposal Site
- Design of Sanitary Land fill and Composting specifications
- Conduction of Environmental and Social Assessment Studies as per MoEF guidelines
- Preparation of ESA report
- Examine for Clean Development Mechanism Potential
- Prepare Tender Documents and Project Implementation Schedule
- Prepare organizational structure for operation & maintenance of the solid waste management system
- Identification of Training requirement of staff and capacity building requirements
- Submission of DPR

Design of Solid Waste Management System

- Population Study & Random Sample survey on Waste Generation and Waste Characterization study
- Baseline Monitoring of current status of Solid Waste Management Practices
- Develop an Action Plan for effective Solid Waste Management System with various alternative methods

EIA Studies for Selection of Disposal of Solid Waste in Sanitary Landfill Facility

- To carryout the EIA & Risk Assessment in line with statutory guidelines/requirements of respective State Pollution Control Board and Ministry of Environment & Forests (MoEF, Govt. of India) EIA Notification Sep'2006. EIA Document would be prepared in line with Terms of Reference approved by MoEF
- Project Description(Location, Topography, Relevant Technical Information of SLF)
- Air Environment (Meteorological Data, Ambient Air Quality Data)
- Noise Environment
- Water Environment(Surface and Ground water Monitoring)
- Land Environment (Land use pattern study using remote sensing techniques)
- Biological Environment (Flora and Fauna)
- Socio-Economic Environment(Demography, Health Status, Basic Amenities, Traffic analysis)

Design of Sanitary Landfill Facility

- Site Geological mapping of the waste disposal facility
- Geo Technical Investigation studies
- Conceptual design of the Sanitary Landfill Facility with associated auxiliary facilities
- A grading plan showing sequence of cell development will be developed including cell closure and post-closure restoration
- Designing a leachate collection system, together with a method for determining the effectiveness of this system for ensuring smooth functioning of the landfill and compost yard.
- Designing the landfill gas capturing system and flaring the same.

CMSRSL Expertise Areas in Environmental Management

- Environmental Impact Assessment (Sep'2006)
- Hazardous Waste Management
- Hazardous Waste Management – Site Assessment for selection of site for Disposal Facility Requirements
- Environmental Social Assessment Report
- Environment Due Diligence Audit
- Corporate Social Reporting
- Water and Wastewater Audit
- Environmental Audit
- Environmental Management Systems (ISO 14001)
- Energy Audit
- Environmental Compliance Monitoring and Legal Requirements

About Cholamandalam MS Risk Services

Cholamandalam started operations in Risk Services about 14 years ago and has carried out more than 600 assignments in safety and risk serving around 350 clients till date. The Environment Team comprises of Environmental, Mechanical, Chemical and Electrical Engineers having vast experience in consulting in the domain expertise of Air, Water, Noise, Solid and Hazardous Waste Management, Environmental Management Systems, EIA, Environmental Audit, Environmental Training etc.

To Whom to approach

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