

# Consulting Services

SERVICES PROFILE

Prepared By ORSL



ORGANIC RECYCLING  
SYSTEMS LIMITED

CLEANTECH | INNOVATION | ENGINEERING



We have carefully developed our catalogue of services based on operational experience and data collected from our Solapur Project, a decade-long municipal solid waste management facility capable of processing waste on a very large scale.

Our services are also built based on experience in developing and assisting in a variety of waste management projects across the country, where each project came with its own set of operational and technical challenges that needed to be solved. We aim to use our subject matter expertise in waste management and processing acquired over the past decade to help upcoming project developers to efficiently construct and install viable waste processing plants, as well as provide maintenance support and engineering services.

# Waste audit services

A waste audit is analyzing the waste composition and is used to determine the amount and types of waste produced. By analyzing the waste audit, one can measure fraction of wastes which can be recycled, processed or require scientific disposal.

This helps to assess the effectiveness and determine ways to improve the efficiency of your current waste management systems.

Waste audits is the first building block for planning waste management projects from collection, transportation to processing and scientific disposal.

Waste audits provide a detailed analysis of waste composition, assess contamination rates and identify potential opportunities to improve waste management and reduce costs.

Waste audit guidelines ensure that audit data is detailed enough to:

- Assess contamination in waste streams
- Characterize and quantify waste streams
- Identify waste diversion opportunities
- Identify source reduction opportunities
- Assess the effectiveness of waste management systems and identify ways to improve its efficiency.
- Collection & transportation methodology
- Selection of equipment for mechanised segregation.
- Viability of recycling technologies or processes.

As a waste management engineering organisation we helps you streamline your waste disposal process, reduce waste management costs and minimize operational costs.

# Detailed Project Report

A Detailed Project Report (DPR) takes the feasibility assessment exercise one step further and integrates a more comprehensive technical and engineering assessment.

A Detailed Project report provides answers to fundamental questions like what the product or service is, where it aspires to be in the future and how do you plan to reach there.

After the planning and the designing part of a project are completed, a detailed project report is prepared. A detailed project report is a very extensive and elaborative outline of a project, which includes essential information such as the resources and tasks to be carried out in order to make the project turn into a success.

- **Contents of a typical Project Report are:**

- Executive Summary
- Project Background
- Waste Audits
- Business Model
- Site evaluation report
- Manufacturing Process
- Infrastructure, Plant & Machinery
- Market Assessment (Demand & Supply)
- Cost of the Project
- Means of Finance / Financial Structuring
- Financial Forecasts
- Project Implementation Plan

As project report consultants, it is our responsibility to understand our client's vision to develop the most detailed and meaningful project reports.

# TEV Report - Techno Economic Viability Report

Techno Economic Viability (TEV) study of a project encompasses the evaluation of a waste management project for evaluating the technical and financial information about the project, with relevant data about its technological feasibility and economic viability, into one or a few criteria on the basis of which the project is recommended for selection, modification or rejection.

Techno-Economic Viability (TEV) Study evaluation is to assist lenders to take a view on the acceptability of the degree of risk involved in a project.

**It takes into account an analysis of technological risk, market risk, regulatory risk, financial risk, etc specifically for waste management projects.**

- *Technical feasibility*

- Assessment of the available land in use for the project.
- Assessment of suitability and availability of infrastructure available for the activity of waste management project.
- Assessment of existing capacity
- Technology and equipment evaluation
- Compliance with statutory requirements

- *Financial feasibility*

- Assessment of future cash flows and profitability of the project.
- Financial viability of the unit based on the financial projections, profitability (income and costs), cash flow, IRR, DSCR, DP, MPBF etc.
- Conduct sensitivity analysis of the project
- Grants and subsidy impact
- Risk assessment

# Lender's /Owner's Engineer Services:

The role of a Lender's Engineer is to verify the physical status of work being implemented on the site, to judge and report the quantum of finance actually being contributed and used on the project.

Our services broadly include project review and assessment before financial closure along with review of conceptual designs and EPC operations.

With our 15 years of experience in implementing and operating waste management facility, we understand the challenges a project developers faces and how they can be mitigated.

Lender's engineer services are provided in four phases :

- Review and assessment of project documents
- Project monitoring during construction
- Plant performance testing
- Periodic review of plant operations