

## Feasibility Report

This feasibility report presents the highlights of the proposed project for setting up of Solid Waste Management Plant at Rohru Distt. Shimla in the State of Himachal Pradesh. The Implementation of Solid Waste Management Plant is an important component of the Government of India's (GoI) "Swachh Bharat Mission" (SBM).

The objective of the project is to implement integrated solid waste management system into action in the identified ULBs and offer the citizens a clean, healthy and safe environment.



**Effective solid waste management has the following benefits: -**

1. It prevents contamination of water and soil.
2. Reduces waste sent to the landfill, which may have negative impacts on groundwater and air quality.
3. Reduce emissions from energy consumption, as waste when recycled requires less energy than making goods from virgin materials thereby reducing the energy demand and pressure on non renewable sources.
4. Contributes to Climate Change by reducing methane emissions from landfills. Waste prevention and recycling (including composting) divert organic wastes from landfills, reducing the methane released when these materials decompose.
5. Reduction in quantum of waste by diverting it to recycling and other processing unit reduces the landfill costs.
6. An effective waste management implies the concept of 3-Rs e.g. reduce, reuse and recycle waste matter leading to introduction of more and more of waste matter into the value chain leading to economic benefits.
7. Waste management being a labour intensive activity, it helps in employment generation.

The Implementation of Municipal solid Waste (MSW) Management is an important component of the Government of India's (GoI) "Swachh Bharat Mission" (SBM)

**Project Highlights:**

Project Details	Setting up of Solid Waste Management Plant
Site	Barara under MC Rohru Distt. Shimla H.P.
Land Area Required	0.2520 Ha.
Water Source	Existing I&PH Supply
Water Requirement	0.5-1 KLD
Electrical Power Source	Nearest Sub-Station
Electrical Power Demand	100 KVA
Fuels	HSD for DG Set power back-up
Employment Opportunity	About 5-10 Persons (Direct)

Capital Investment (INR)	Rs. 1500 Lacs
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MC Rohru is located about 100 Kms from District Shimla and surrounded by beautiful mountain peaks with apple orchards and is also known as apple valley. The Rohru Town is centre to areas of Tehsil Jubbal, Chopal and also for some area of State of Uttarakhand and is also Headquarter of Jubbal & Rohru Sub-Divisions.

The population of MC Rohru is about 12000 and increasing day by day due to which Solid Waste Management Plant is required to keep this beautiful town neat and clean and to provide a healthy life to the people of Rohru Town and surroundings.

The predominance of food waste compounded by horticultural waste would drive the choice of technology more towards biological processing i.e. composting. Good C/N ratio and lean calorific value of wastes probably indicate composting as the preferred choice of technology for waste processing for MC Rohru.

The physical infrastructure components in the primary and secondary collection and transportation services include the procurement of tricycles, Household Bins, Community Bins, Tippers and garbage compactors for transportation of SW from various wards.

With the increase in population the waste generation would also increase which would in turn require larger number infrastructure components for collection and transport of the waste.

The existing dump material in the site are scattered indiscriminately. And to overcome this problem the construction of SWM for the proposed processing and land filling is essentially required and an area has been identified to store the waste already dumped and strewn around the site.

The manpower would be ensured for smooth functioning of the activities involved in waste collection, transportation, processing and land filling operations of designated Contractor Agencies as applicable on a day to day basis.

Living conditions of nearby settlements would be improved by setting up of this project facility and also facilitate prevention of water borne diseases to significant extent

Site clearing or operational activities would not impact the ecology of the area adversely, since there are no known rare, endangered or ecologically significant animal and plant species in the area.

#### **JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA**

It is certified that the **0.2520 hectares** of forest land proposed to be diverted is inescapable and other alternatives for the proposed project have been explored and the forest land proposed to be diverted is barest minimum. It is further certified that no suitable non-forest land is available for the diversion of proposed **C/O Solid Waste Management Plant at Rohru District Shimla H.P.**

During the course of finalization of project land to be diverted, three alternatives were examined and there is no scope of any land available in any alternative except forest land **0.2520 Hect.**

#### **Detail of Alternative Examined**

**Alternate-I:-** The patch of land selected for the proposed project as per requirement of the proposal. The land identified is 0.2520 Ha and no tree is involved in the project site. Moreover, the land identified is far away from habitation. Hence, **Alternate-I is selected.**

**Alternate-II:-** The patch of land involves more area i.e. 0.4055 Ha and needs approach access to the project site. Also, 8-12 number of trees are involved in the project site. Hence, **Alternate-II is rejected.**

**Alternate-III:-** The patch of land is sloppy and is not as per the requirement of the project, further 8 number of trees are involved in the project site. Due to sloppy site the land development is required which will involve more area and area of the patch is 0.7555 ha. Hence **Alternate-III is rejected.**

Sr. No.	Alternate Examined	Area in Ha.	No. of Trees involved	Remarks
1.	Alternate-I	0.2520	Nil	Selected
2.	Alternate-II	0.4055	12	Rejected
3.	Alternate-III	0.7555	8	Rejected

Date:-

Place:-

*Rohru, Distt. Shimla*

*[Signature]*

Divisional  
Rohru Forest Division Rohru

*[Signature]*  
Executive Officer  
Municipal Council Rohru