

Contribution to sustainable development by the project activity

Environmental benefits:

Composting of Municipal Solid waste (MSW) is an attractive option for resource recovery and environmental improvement. In contrast to the anaerobic decay of biodegradable waste that occurs in the landfill sites, which results in methane generation among other gases, the composting project will contribute to mitigation of greenhouse gases emissions through aerobic decomposition of the organic waste. Local benefits would be recycling of resources, better management of solid waste, recycling of humus and plant nutrients back into the soil to provide positive inputs for agriculture and horticulture.

Due to the project activity, landfilling of given waste is prevented resulting into reduction in land requirement for waste disposal leading to improved environmental conditions and a replicable model. The end product of project activity is compost that will be used as organic manure and combats soil degradation. The project therefore contributes to sustainable development.

Social and economical benefits:

The plant will be semi-mechanized and will create jobs for local people. The project provides the employment to the community directly on the composting facility and indirectly through waste collection, transportation of compost to the end user.

Recycling Humus, the organic matter back to soil is the single largest benefit of composting. Chemical fertilizers assist in balancing micro and macronutrients but do not replenish the humus. Maintaining fertility of the soil is critical to the agrarian economy of India and food safety, necessary to feed a billion people. One of the main hurdles for the effective implementation of such measures is the shortage of good quality compost at affordable price. This project will suitably assist in providing compost supply for urban agriculture, horticulture, floriculture, vegetable production in and around Delhi and crop farming in the neighbouring states. Since the price of the compost will be subsidised using revenue from carbon credit, marketing of compost will be easier thus ensuring the sustainability of the project.