



Climate Change



RAPID ENHANCEMENT OF DECENTRALIZED MUNICIPAL WASTE PROCESSING CAPACITY IN THE STATE OF GOA

Introduction:

The **Goa Foundation** a premier environment monitoring NGO in Goa and was established in 1987 by a group of environmentalists. The primary objective of the Foundation is to function as a strong pressure group that will resist projects, schemes and development plans that lead to irreversible destruction of the environment. Such project will be encouraged by NGO which will act on behalf of nature and the rights of wildlife and will not hesitate to recommend alternative solutions to pressing problems of environment.

Project Objective:

The project seeks to provide and initiate the implementation of long term, institutional solutions to the persistent problem of management and segregation of the solid wastes generated from commercial and residential sources in Goa. The main objective of the project is the creation of institutional capacity of the Municipal Corporations for environmentally safe handling and processing of solid waste into economically valuable products. The focus will be to generate people's ownership of the program. The polluter pays concept had been initiated in the project.

Project Activities:

The major activities undertaken in the **United Nation Development Program (UNDP), Global Environment Facility (GEF), Small Grants Program (SGP)** supported project through **Centre for Environment Education (CEE)** within the project are:

- 1 **Capacity Building Programs:** The capacity building program was targeted towards schools, Panchayats and the Goa Municipal Corporation. A series of demonstrations, street plays and intensive workshops were done with the schools and Panchayats reaching about 200 school children and 30-35 Panchayat members. Practice-oriented trainings in management of waste for the ten personnel and staff Municipal Corporation were conducted. Participants were trained in the manufacturing of Effective Microorganisms (EM) solutions from EM concentrate. Visits to existing processing units were arranged.



Geographical area	:	City of Goa.
No of Beneficiaries	:	Additional 3000HHS and industrial establishments
SGP Grant	:	Rs. 20,000 USD 26,600
Co Financing	:	Rs. 10 Lacs. additional Rs. 50 Lacs.
Project Time Period	:	2004-2006 Scaled Upto 2007-2009

SGP The GEF Small Grants Programme



- 2 Management of Municipal Dump Sites:** Specific guidance was given to the Municipal Corporation for planning and running a management scheme for handling waste collection and treatment using environmentally friendly technology at the dump site in Sonsoddo and fish/meat processing unit at Mapusa.
- 3 Construction of Vermiculture Units:** Demonstration units of Vermi composting pits were set up. Individual households, farms, housing complexes and schools were targeted for the purpose. Demonstration involved information about segregation, construction and functioning of the pits. More than 50 such units were set on cost sharing basis with a range of partners.
- 4 Waste Management at Dempo Mining Site:** Segregation and treatment of waste at the mining site was undertaken. Segregation is done at the site and the waste is then treated with EM solution and the compost used for reclamation of mining sites.

Project Achievements

The notable impacts created by the project are:

- **Around 1500-2000 kg of waste is being processed at these sites** and the municipal council and the local private sector industrial units etc. selling the manure generated.
- The Goa Foundation has been **given the responsibility to supervise the management of solid waste at two Municipal dumpsites** on behalf of the Margao Municipal Council (MGMC) and the Mapusa Municipal Council (MMC).
- The Foundation has raised a **co-financing** mainly from the municipal councils and the local private sector, individual units etc.
- 200 school students, staff of 10 municipal councils, around 200 households and 30-35 Panchayat members have been trained in waste management and vermi composting.
- The NGO works with many individual units GKB lenses Ltd., Cipla, JMJ Hospital, Ocean Site Retreat etc.
- Goa foundation has agreed a contract for training the staff of MMC.
- Plastic collection and recycling has been started by Goa Foundation and the high court has now directed every village to follow the 'Parra' pattern and weekly collection of waste.
- Effective microorganisms (EM) composting has also started in the area.



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