

## **BRIEF ON DEVELOPMENT OF LANDFILL SITES**

Excessive use of pesticides has adversely affected biomass of agriculture land. According to NCS report 96% land has low biomass.

Presently there are two type of methods for waste collection system under practice:

- i. Collection by Municipalities.
- ii. Collection by private contractor paid by municipalities.

However, there is need to develop new model and replicate existing model for waste collection and reuse/recycle on scientific methods. For this purpose, in the first instance Tehsil municipalities have to enhance their capacity specially by using modern techniques of waste management and skills and enhancing community participation. Furthermore if Tehsil municipalities contract out their areas for solid waste management, they have to consider subletting the job to experienced organizations having adequate expertise to handle.

Presently there is no proper landfill sites available in whole of Pakistan. There is need for development of landfill sites for proper disposal of solid waste management. It may be mentioned that to introduce a solid waste management in the country, the prerequisite would be a proper landfill site, which could cater domestic, industrial and hazardous waste including hospital waste.

It is pertinent to mention here that solid waste management has been identified as one of the priority area in NEAP. It is therefore appropriate to consider development of landfill sites at least for three to four cities. The experience thus acquired will help in better understanding of handling of landfill sites and related issues.

**Title of the Project: Development of Scientific Landfills in four cities**

- A. Sponsoring Agency:** Ministry of Environment, Local Government and Rural Development
- B. Executing Agency:** Pakistan Environmental Protection Agency in Collaboration with Environmental Protection Agencies of all the four provinces.
- C. Location:** Cities where initial spadework in this connection has already taken place

**D. Brief description of the Project:**

Pakistan generates 47,920 tons of solid wastes per day (urban waste: 19,190 tons rural: 28,730 tons). About 3,600 tons of chemical fertilizer is annually product in the country while 18,000 tons of pesticides are imported each year. Collection efficiency of solid wastes is about 54% in the urban centers. A total of 9856 industries surveyed showed that they were generating 21,175 tons of waste. These included chemicals, fertilizers, tanneries and textile units. Since none of the city in Pakistan has proper waste collection and disposal system for municipal or hazardous waste, land in urban areas is getting polluted and adversely affecting public health.

To off set further degradation and improving environmental conditions in the country, GOP and UNDP signed agreement to implement National Environmental Action Plan (NEAP) approved by the Pakistan environmental Protection Council in February 2001. One of the core areas of NEAP is Management of Solid Wastes. Under the NEAP, there is need to improve existing waste management system and introducing reuse/recycle methods. For this purpose, in the first instance Tehsil municipalities needs to enhance their capacity specially by using modern techniques of waste management.

The proposed project envisages development of scientific landfill in cities where initial spadework in this connection has already taken place. The land for the purpose will be made available by the local government and the development

work shall be carried out with the help of local expert and contractors. The design of the landfills will be such as to incorporate local conditions and indigenous material. Respective local governments shall provide the operating cost and machinery.

For collection, transportation and segregation of wastes, private sector participation (such as waste busters who are operating waste management system in Lahore) will also be encouraged.

**E. Completion period:** One year

**F. Capital Cost:**

**Total: = Rs. 100 million**

**Title of the Project: Mass Awareness for Promoting Environmental Issues.**

- A. Sponsoring Agency:** Ministry of Environment, Local Government and Rural Development
- B. Executing Agency:** Pakistan Environmental Protection Agency in collaboration With the Environmental Protection Agencies of all the four provinces.
- C. Location:** Islamabad and Provincial capitals
- D. Brief description of the Project:**

Clean air, clean water, management of solid waste and ecosystem are identified as priority areas of concern in the National Environment Action Plan of the Ministry of Environment, Government of Pakistan approved by the Pakistan Environmental Protection Council in February this year. It has been realized that no improvement in the rapidly deteriorating quality of air, water and land, can be achieved without making the public aware of the pressing environmental concerns the country is faced with.

Presently, due to the communication network, the entire world has been converted into a global village. The power of the different means of communication, whether print or electronic cannot be undermined in this day and age and thus media emerges as the fastest and the most effective mode to raise concerns and create awareness to a cleaner and healthier world.

A Media Strategy has been developed by the Ministry of Environment, Local Government and Rural Development for enabling media to create awareness for environment issues. Planning, implementation and monitoring of specific programs specially designed for relevant medium will be undertaken in collaboration/ and consultation with media/ environment specialists, experts and enlightened citizens.

**E. Sources:**

The media sources available can be divided in five categories. When planning specific program, an attempt will be made to identify the particular medium for the particular target audience.

**1 Television:** PTV, PTV World, Channel 3 as well as transnational channels.

**2 Radio:** Medium Wave, FM 101 and FM 100.

**3. Print:** Subdivided in English language periodicals/ newspapers and Urdu/ Vernacular newspapers/ magazines.

**4. Theatre and Cinema:** Street theatre, Puppet theatre, stage, and cinema and feature films.

**5.Others** – Outdoor publicity, i.e. bill boards, seminars, workshops, debates, walks, and other activities pertaining to performing and fine arts.

**F. Completion period: One year**

**G. Capital Cost: Total: = Rs. 15 million**