

## **Decision support tool for solid waste management in Pradeshiya Sabas of Sri Lanka**

Municipal Solid Waste (MSW) management in Sri Lanka involves the consideration of interrelated series of options aiming at waste avoidance / reduction, re-use, recycling, waste treatment (Compost/Biogas) and disposal. When considering the many options available to solve MSW management problem. It is necessary to identify the factors that hampered finding solutions in the past.

By considering present situation and the past experience in solid waste management, Decision Support Tool is developed to guide decision markers in Pradeshiya Sabhas to find the most suitable solution to the solid waste management activities with the available resources in the area. The main objective is to develop a model that can guide

the local government authorities to find the best answers to all aspects of planning, decision-making and operating the solid waste management activities.

The Expert System model consists of several sub models; composting process and control pictorial database, site selection, technology selection, waste analysis reports, expertise information, Government rules and regulation on Solid Waste Management, Information Desk for researchers and Training tool.

Being a developing country, it is not easy for every local government authority to access the expertise that is mostly available in the urban areas. This model will therefore play an important role in finding the best solution and providing information to NGOs, researchers, as well as information seekers in solid waste management hierarchy.