UTILISATION OF MUNICIPAL SOLID WASTES (MSW) FROM LANDFILL FOR ROAD EMBANKMENT CONSTRUCTION

Conventional road construction uses soil fills for preparation of embankments. Contemporary regulations for use of soil in construction at many places raise the cost of constructing roads. The application of municipal solid waste from landfill for road embankment construction solves the twin problems of cost efficiency as well as environmental hazards of municipal solid wastes dumped as landfills. The process involves segregation of MSW into different size fractions before its use as an embankment material.

SALIENT FEATURES

- Methodology for utilisation of Municipal Solid Waste from landfills.
- Segregated MSW to the extent of 65-75% can be used.
- Typical design cross sections have been arrived for 3m and 5m height MSW embankment.
- The knowhow evolved can be appropriately redesigned based on case specific requirements to suit different projects.

COMPARATIVE ADVANTAGES

- Reduces pollution
- Protects environment and health hazards
- Results in sustainable road construction
- Preserves urban land
- Scale of Development
- Process ready for adoption on field projects.

