

ENLARGEMENT OF A BIOSTABILIZATION PLANT IN CATANIA

The project of enlargement Sicula Trasporti S.r.l. plant is designed to cope with the ever increasing demand for specific treatment of the mechanical selection of undifferentiated waste.

In particular, the project involves the construction of a new section of aerobic biostabilization of the under screen waste from the undifferentiated urban waste selection plant.

This plant section involves the construction of two bio-tunnel batteries, each of which consists of n. 16 polyethylene tubular containers with forced air recirculation, inside which the biostabilization of the incoming waste will take place.

The project envisages an increase in the treatment potential capacity of aerobic biostabilization of non-hazardous waste equal to 100.000 t / year. This capacity will be added to the current one of 315.000 t / year, for a total capacity of 415.000 t / year.

For the new enlargement section, it was decided to adopt the technology of biostabilization in aerated static heaps, using a polyethylene bio-tunnel in order to make the plant operative in a short time, given the emergency in the field of management and treatment of urban waste in Sicily.

The materials / waste leaving the plant will consist of:

- non-specific compost, identified with CER 19.05.03, for an expected average quantity of about 300.000 t / year (of which about 220.000 t / year currently produced in the existing plant);
- leachate, code CER 19 07 03, for an expected average quantity of about 6.000 m³ / year from the existing section and about 3.700 m³ / year from the new project section (to be disposed of with authorized plant).



DESIGN DATA

Private client SICULA
TRASPORTI s.r.l.
Type of service Executive
planning and construction
management
Project cost € 3.200.000,00
Location Catania, c.da
Codavolpe (Italy)
Total area 29.700 m²
Design period June 2018

TECHNICAL DATA

-Accelerated bio-oxidation
-Bio-cells No 32, 275 m³ each
-Total period 21 days
-Potentiality 10.000 t/year
-Working days 350 d/year