

Technical Features of LIPOR's Organic Recovery Plant.

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The entire process designed in the Organic Recovery Plant responds to two key principles: on one hand, excellent product quality; on the other, the integral treatment of odors, reducing their impact outside the Plant.

Reception

- Efficient sorting between vehicle transit areas and technical waste disposal areas;
- Lowered platform with ventilated floor, in a closed depressurized building;
- Efficient sorting between vehicle transit areas and technical waste disposal areas;
- Discharge areas according to the type of waste;
- Waste reception area: 480m² corresponding to a storage capacity for approximately 3 days).

Primary and Secondary Mechanical Treatment

- Screens (150mm / 60mm), magnetic separation, green waste shredder;
- Tunnel Feeding;
- Automatic / Mechanical.

Composting

- 18 tunnels (12 tunnels followed by 6 more tunnels for post-composting);
- Process control through temperature and oxygen probes;
- Facility with double roof that controls the inside thermal conditions;
- Water layer (20cm high) above the tunnel cover for temperature control

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Maturation

- Building with ventilated floor;
- Available area: 2,900m².

Refining

- Magnetic separation followed by screening ("Spanwelle screen") with a 10mm opening and a light/heavy material separation (Windshifter ballistic separator).

Storage and Bagging

- Final product (compost) storage area of 6,700m²;
- Automatic bagging system (bags with variable capacity) and palletization;
- Big bagging system;
- Granulation system.

Odor Treatment

- Air flow to be treated: 410,000Nm³/h;
- Contaminated air treatment system: two air washers with a unit capacity of 200,000Nm³/h, followed by a biofiltration system with a total area of 3,130m², which consists of 18 biofilter sections and plant roots for filling.
- Treated air exhaust system with three vertical ducts equipped with axial fans.