

## Template for Evidence(s) UI GreenMetric Questionnaire

University : IFSULDEMINAS  
Country : BRAZIL  
Web Address : <https://www.ifsuldeminas.edu.br/index.php>

### [3] Waste (WS)

#### [3.3] Organic waste treatment



Figure 1: Três Corações Campus composting.



Figure 2: Muzambinho Campus poultry composting.



Figure 3: Poços de Caldas Campus food waste destination.



Figure 4: Muzambinho Campus composting.



Figure 5: Inconfidentes Campus overlapping bed system for pigs.



Figure 6: Muzambinho Campus Composting Sector.



Figure 7: Inconfidentes Campus Agroecology Sector evapotranspiration pit.



Figure 8: Carmo de Minas Campus composting and vegetable garden.



Figure 9: Passos Campus restaurant oil collection.



Figure 10: Machado Campus students composting project.

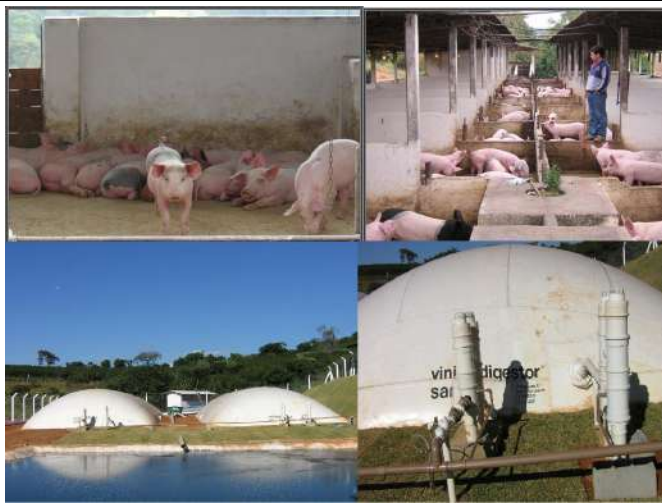


Figure 11: Muzambinho Campus swine waste treatment.



Figure 12: Inconfidentes Campus Agroforestry System (SAF).



Figure 13: Inconfidentes Campus fixed box coffee dryer (static dryer).



Figure 14: Inconfidentes Campus Olive and Agroecology sectors composting.

## Description

### Figure 1: Três Corações Campus composting

Vermiculture, worms for organic waste treatment.

### Figures 2 and 4: Muzambinho Campus poultry composting

Muzambinho Campus Poultry sector composter produces 3 tons of compost every 3 months.

### Figure 3: Poços de Caldas Campus decrease in food waste

Poços de Caldas Campus has a partnership for the destination of organic waste from the restaurant. Waste is separated and leftover food is donated to pig farmers in the region.

### Figure 5: Inconfidentes Campus overlapping bed system for pigs

Inconfidentes Campus organic swine compost is used in orchards and coffee plantations.

### Figure 6: Muzambinho Campus Composting Sector

Muzambinho Campus Composting Sector uses the maximum of plant residues and animal manure possible to produce its mass. Leaves that are collected in the roads and courtyards of the campus, straw resulting from lawn mowing, palm leaves and branches resulting from pruning, coffee husks, cattle manure, poultry manure, poultry litter, goat manure, manure from the biodigester of pig farms and others.

### Figure 7: Inconfidentes Campus Agroecology Sector evapotranspiration pit

Inconfidentes Campus Agroecology Sector owns over 2.4 hectares in which it has the following sectors: bioconstruction, dry bathroom waste disposal drum, evapotranspiration sumps, biodigester, herb and spice sensory garden, SAF (Agroforestry System) biofertilizers and beekeeping.

### Figure 8: Carmo de Minas Campus composting and vegetable garden

Carmo de Minas Campus interdisciplinary students perform composting for vegetable production.

**Figure 9: Passos Campus restaurant oil collection**

Passos Campus has a partnership for the collection of kitchen oil from the campus restaurant.

**Figure 10: Machado Campus students composting project**

Machado Campus Second Technology Innovation Award. The winner team project was to develop a temperature and moisture control for composting systems.

**Figure 11: Muzambinho Campus swine waste treatment**

Muzambinho Campus has an anaerobic digester through piston flow that has the ability to process 1,570 kg of solid waste, producing 8,500 liters of biofertilizer and 118 m<sup>3</sup> of biogas, daily.

**Figure 12: Inconfidentes Campus Agroforestry System (SAF)**

Inconfidentes Campus implemented, in 2018, cultures of fruit and timber trees, pork beans, moringa, pumpkin, watermelon and banana. It will still demand actions over the years. The SAF area is also used as the field of experiments related to the evolution of soil quality and forest composition of species to conclude course completion works (TCC) of higher courses on campus.

**Figure 13: Inconfidentes Campus fixed box coffee dryer (static dryer)**

Inconfidentes Campus has a fixed box coffee dryer. This dryer has the characteristic of maintaining the quality of the coffee, reducing expenses. It is sustainable, as it makes it possible to use both the firewood from the coffee plantation itself and the straw from the peeling of the fruit.

**Figure 14: Inconfidentes Campus Olive and Agroecology sectors composting**

Inconfidentes Campus Olive and Agroecology sectors composting uses branches, leaves, pruning material and garden cleaning, and is responsible for providing humus from the decomposition of organic matter, used in the institution's cultivation and nursery areas.