

A sustainable and safe solution for the:

TREATMENT OF SWINE WASTES



Federal University of Lavras-Department of Engineering-DEG/UFLA

Center for Agroecology, Permaculture and University Extension

Innovative-NEAPE

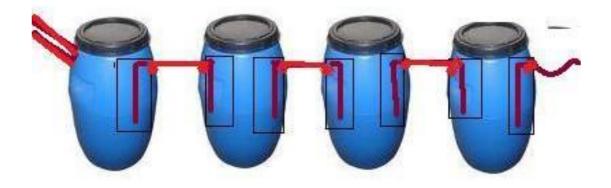
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Elaboration: Grantee Agricultural Engineer George Armando da Silva

Gomes

Decantation barrels for the swine waste treatment

It is a simple, safe and low-cost technology capable of addressing the negative environmental impacts caused by small family farms, which maintains up to 5 sows and one boar in a system of piglet production.



For a perfect working, firstly, the separation of solid and liquid waste is necessary.

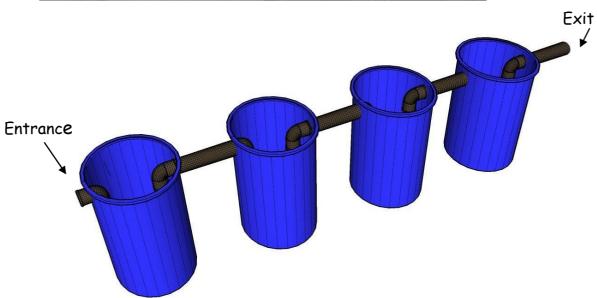
The solid part (scraped with a hoe) should be taken to a composter, like in the picture below:



On the other hand, the liquid part, which is formed by urine, water of drinking troughs, pen washings, feed orts, hairs and so on; is channeled into the barrel system, which should be buried just below the pipe, as shown in the picture.

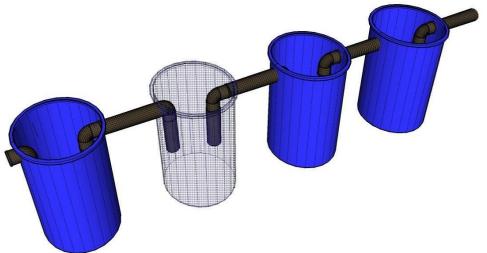
The rain
water should
be deviated
and the pens
should not be
washed more
than twice a
week.





For the connection between the barrels, one can use plastic mass and/or glue for PVC, on the connections and pieces of pipes.





It is important that there is an extension of the pipe inside the barrels, allowing a differentiation of the portion of the dense wastewater, where there is occurrence of anaerobic bacteria and, the portion of the supernatant water.

This length is more or less 2/3 (two-thirds of the barrel height) (H).

