

Polythene Liner Run-off Water Pond



Why to choose this solution?

The water pond is easy to construct and cheap compared to a metal tank. Furthermore, it serves several purposes. The water is used for irrigation, and it also helps to control soil erosion on the farm.

Savings per day or production:

It can help to save over US\$ 5,000 (USD 1.2), which would have been spent on buying water for irrigation.

Cost in money and in own time to construct:

The water pond costs roughly US\$ 1,500,000 (USD 416) to construct.

Lifetime:

3 years.

Maintenance needed:

It is needed to be covered to control water loss through evaporation. Removing the silt especially during the rainy season.

Resources needed in use:

Containers for collecting water.

Problems and limits:

The water ponds are subjected to high rates of water evaporation, water contamination and contains a lot of mineral salts making the water not suitable for washing clothes. If not marked and covered very well, there is a risk to cause accidents as well as acting as a breeding place for mosquitoes.

Where and how can you get it or make it?

JEEP constructs and trains communities in construction of water ponds.

Skills needed to produce, install, maintenance, use:

Needs a skilled person to construct. Maintenance and use needs a small introduction.

How to use it:

How to maintain it:

Climate effect (if any):

Rainwater collection can reduce flooding, soil erosion during heavy rain periods, and the stored water can be used in the dry periods. Most of the materials used in construction and use are recyclable.

Where it is used and how many users are there?

Why is it successful?

If you can make it, a short description, typical problems, materials needed:

How to make it (if possible):

How is it delivered and by whom?

Successful financial model

What policies and strategies helped the success?

More info:

Sources:

When was the case uploaded?

2022-12-30

*Case from Catalogue of Local Sustainable Solutions
in East Africa. Read more and see partners at
localsolutions.inforse.org*