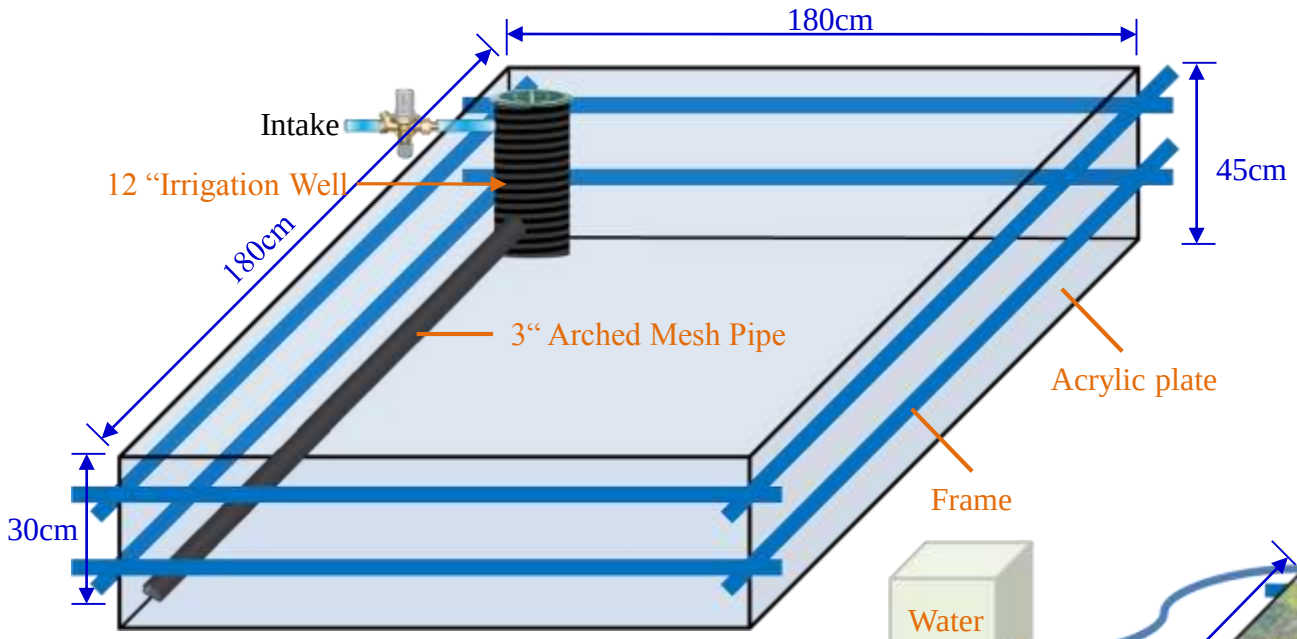
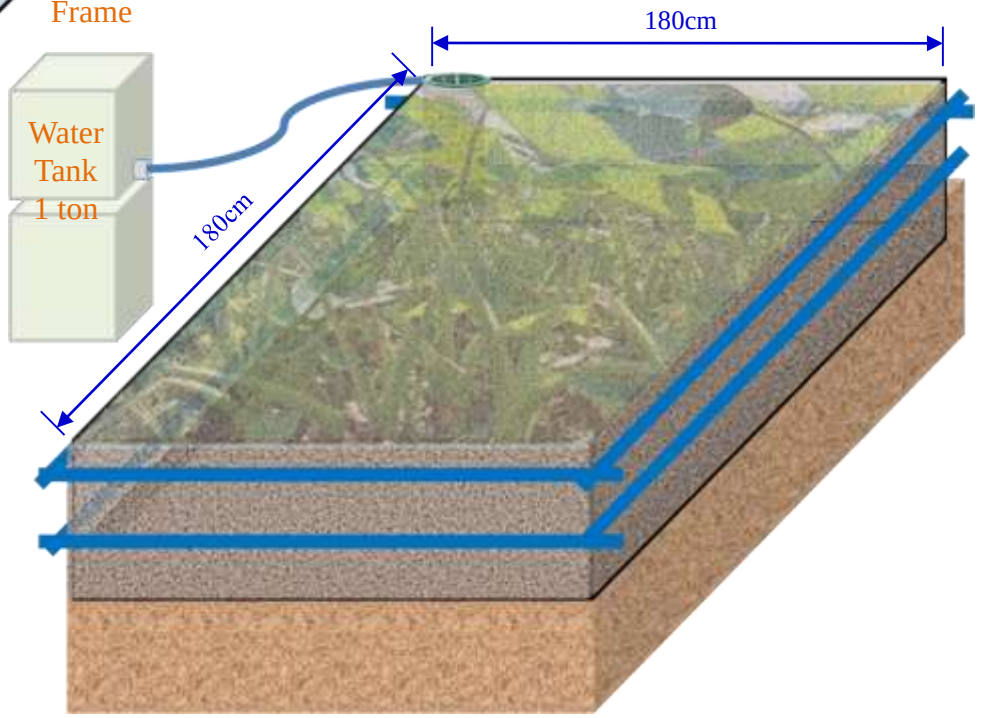
ECO-MESH

Arched Mesh Pipe Subsurface Irrigation and Drainage System

Wicking Beds Experiment - Spacing





Wicking Beds Experiment - Spacing

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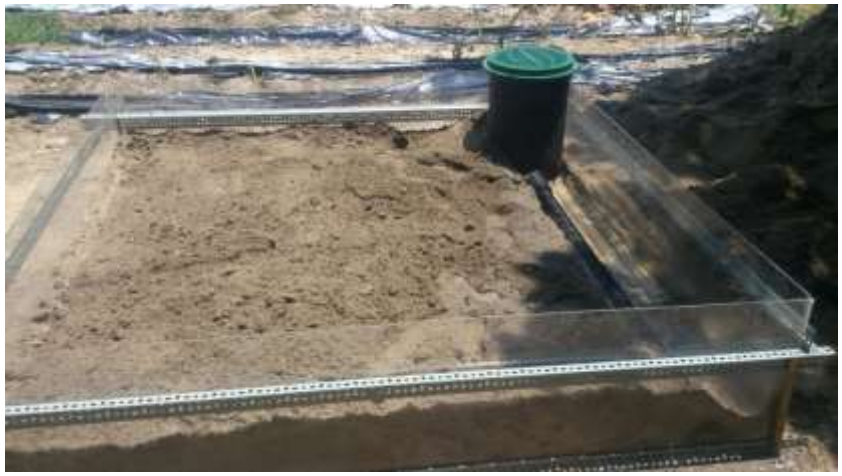

Installation of Experimental Model

Taro planting

Installation of irrigation well

Taro planting and underground irrigation

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Wicking Beds Experiment - Spacing

Sub-irrigation watering 1000kg, humidity 23.5%

Taro planting underground irrigation 6 days

Taro planting underground irrigation 3 days

Taro planting underground irrigation 10 days

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Arched Mesh Pipe Subsurface Irrigation and Drainage System

Wicking Beds Experiment - Spacing

Taro planting underground irrigation 16 days

Taro planting underground irrigation 24 days

Taro planting underground irrigation 18 days
Sub-irrigation watering 500kg

Taro planting underground irrigation 30 days

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Wicking Beds Experiment - Spacing

Taro planting underground irrigation 36 days

Taro planting underground irrigation 57 days

Taro planting underground irrigation 42 days

Taro planting underground irrigation 63 days

Wicking Beds Experiment - Spacing

Taro planting underground irrigation 72 days

Taro planting underground irrigation 80 days

The results of experiment

- 3“Arched Mesh Pipe 1.5m length, can cover (1.8m * 1.8m) underground irrigation needs of the area, pipe spacing can be set to 3m.
- Underground irrigation subsoil moisture is high, 7 to 10 days once the water supply, water saving more than 50%, saving more than 75% of human irrigation.
- Fertilizer supply from the subsurface, the roots can be directly absorbed more than 40% of the fertilizer, reduce soil salinization.
- Soil ventilation, increase production and reduce pests and diseases.