

## HOW IT WORKS

### Simple Installation

- ✓ Dig a circular trench around the tree (30 cm depth).
- ✓ Mix 2.5 kg WaTrap with removed soil and refill.
- ✓ Irrigate normally for 10 days.
- ✓ After that, reduce irrigation by 35%.
- ✓ Reapply ~500 g after 3–5 years.

Simple to install, no special equipment required



### Mode of Action

- ✓ WaTrap reacts to soil temperature & moisture.
- ✓ Releases water only when roots need it.

## WATRAPH ADVANTAGES AT A GLANCE



Saves up to **35%** irrigation costs



Provides moisture continuously for **7+ days**



Eco-friendly safe and **fully recyclable**



Long-lasting effectiveness (**3–5 years**)



**Tested & Certified**  
Independent lab analysis:  
pH neutral  
free of heavy metals



Keeps soil humid even in extreme heat (**>42°C**)

Supporting sustainable agriculture in arid regions



# KATRAH

Katrah Solutions plastic & nylon raw materials trading L.L.C  
قطرة سوليوشنز لتجارة خامات البلاستيك والنايلون ش.ذ.م.م

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SINCE 2020



# WATRAPH

PRODUCT OF KATRAH SOLUTIONS

📍 DUBAI

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Smart Water Trap for Sustainable Agriculture

# WATRAP

Smart Water Trap for Sustainable Agriculture

## KATRAH SOLUTIONS

### Who We Are

Katrah Solutions is a leading supplier of high-quality super absorbent polymer (SAP) materials across the GCC.

We focus on sustainable water management solutions for agriculture and arid regions.

### What We Do

We develop innovative products like WaTrap, a smart water-saving system that reduces irrigation costs and keeps soil humid for longer periods.

Our solutions help farmers save up to 35% water, improve crop health, and reduce costs.

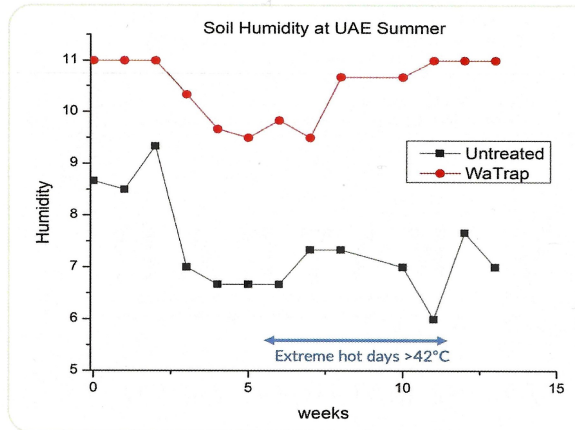
### Our Vision

To provide sustainable, eco-friendly solutions that address global water scarcity challenges.



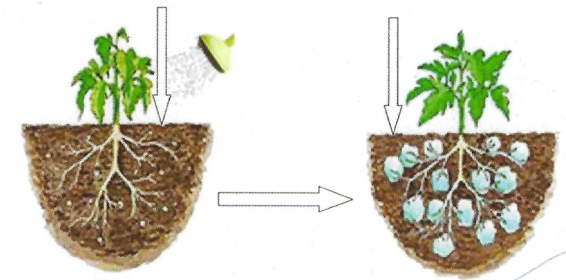
## THE CHALLENGE

- ✔ Water scarcity is the biggest challenge for agriculture in the Gulf and Middle East.
- ✔ Hot summers and low rainfall reduce water availability.
- ✔ Farmers face high irrigation costs to keep trees alive.
- ✔ Traditional irrigation wastes water and energy.



## THE SOLUTION: WATRAP

- ✔ WaTrap is a smart water-absorbing polymer that:
- ✔ Absorbs excess irrigation water.
- ✔ Stores it safely in the soil.
- ✔ Releases moisture gradually over 7–10 days.



## PROVEN RESULTS

### PALM TREES (UAE)

- 💧 Treated trees irrigated once a week stayed healthy.
- 💧 Untreated trees needed 3 times/week irrigation.
- 💧 WaTrap palms produced denser, higher quality dates.
- 💧 Mango Trees (UAE Summer):
- 💧 Soil humidity remained stable with WaTrap.
- 💧 Untreated soils dried out quickly.



Visible results within weeks – healthier trees, denser fruits

### SAVINGS EXAMPLE

A 25-acre farm (2,500 trees) irrigation = ~\$220,000 over 3 years.

With WaTrap: save **~\$77,000** (≈35%).

≈ 283,000 AED

Fast ROI: Farmers recover their investment within the first season of use

