



# GROW MORE WITH TROUGH SYSTEM

**Enrich  
Eats**

A crop trough system is a method of growing plants in long, narrow containers that can be used for grow media-based or hydroponic farming. This system is popular in greenhouses, vertical farming, and hydroponics due to its efficient use of space and resources.



## Efficient Water and Nutrient Use

- Troughs can be integrated with drip irrigation or hydroponic nutrient delivery, reducing water wastage.
- Reduces excess runoff and prevents grow media erosion.
- Ensures consistent nutrient supply, promoting healthy plant growth



## Enhanced Plant Growth

- Plants receive a consistent supply of water and nutrients, leading to faster growth.
- Reduces competition for resources, ensuring uniform development.
- Provides optimal root aeration and drainage, preventing root rot

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## Reduced Labor & Maintenance

- Less weeding required as the trough system limits weed growth.
- Easier access for planting, pruning, and harvesting, reducing strain on workers.
- Can be automated with irrigation and fertigation systems



## Grow Media & Environmental Benefits

- Prevents Grow Media erosion by controlling water flow.
- Reduces the need for chemical fertilizers and pesticides, making it more sustainable.
- Recommended media: Cocopeat or Vermi compost

## TROUGH SYSTEM VS GROW BAGS

- In 1 Sqm area you can accumulate 4 grow bags for 4 plants, in Trough system you can utilise the same space for 5 plants.  
**Offer 20% more crops in Trough system**
- In grow Bags you need to add upto 8 inch growing media ,where in trough system you need only 5 inch of growing media.  
**Reduce grow media costs by 40%**
- Grow Bags for 300 micron lasts for 1.5 years, the 300 micron trough will last for 3 years.  
**Upto 2x life in Trough system**
- For grow Bags you need to spend extra on connectors, Watering Spike and it's accessories, in trough system you need only in-line drip lines for watering.  
**Upto 40 cost reduction in Drip Irrigation Watering System**

**All results in fast cost recovery compared with the grow bags and its associated systems.p Irrigation Watering System**



## TROUGH SYSTEM SPECIFICATIONS

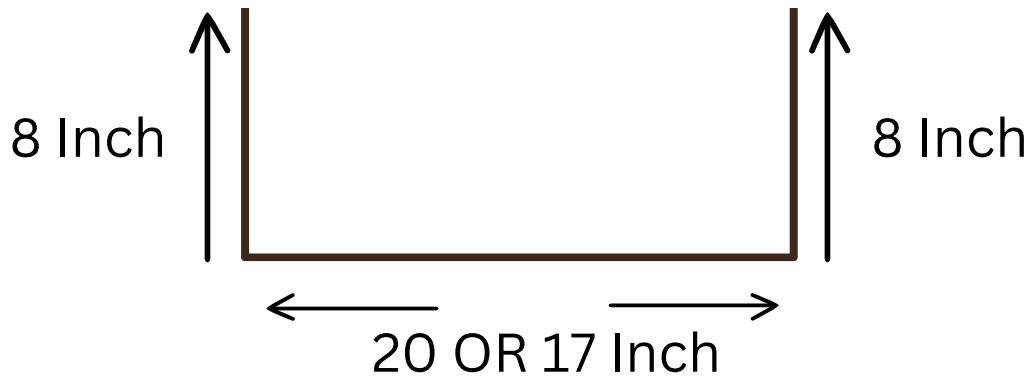
### MICRON, MATERIAL AND SIZE

- **300 Micron** - HDPE 8 Inch x 20 Inch x 8 Inch
- **500 Micron** - HDPE 8 Inch x 20 Inch x 8 Inch
- **750 Micron** - PP 8 Inch x 17 Inch x 8 Inch

HDPE : High Density Poly Ethylene

PP : Polypropylene

Micron : The meaning of MICRON is micrometer.



### APPROX LIFE:

- HDPE 300 Micron - 2.5 to 3 years
- HDPE 500 Micron - 4.5 to 5 years
- PP 750 Micron - 7 to 8 years

### DRAINAGE AND FITTING HOLES:

- Holes for drain - every 1 feet
- Holes for clips - every 2 feet

### MATERIAL INCLUDING:

Rope + Support Clips + Holes at the bottom for drain + Holes at the side for clips

## TROUGH SYSTEM PHOTOS



Specialized  
Clip for  
holding the  
Trough  
system

# Enrich Eats

## About us,

At our core, we are passionate about redefining modern agriculture by harnessing the power of hydroponics and innovative farming practices.

At Enrich Eats, we are pioneers in providing high-quality materials and solutions for advanced polyhouse farming. With a commitment to innovation, sustainability, and efficiency, we empower modern farmers to maximize their yields while conserving resources.

Our products enhance water efficiency, pest control, and climate resilience, ensuring eco-friendly and profitable farming.

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