

“a **BIG Solution**  
for **SMALL Farmers**  
at an **AFFORDABLE Price**”

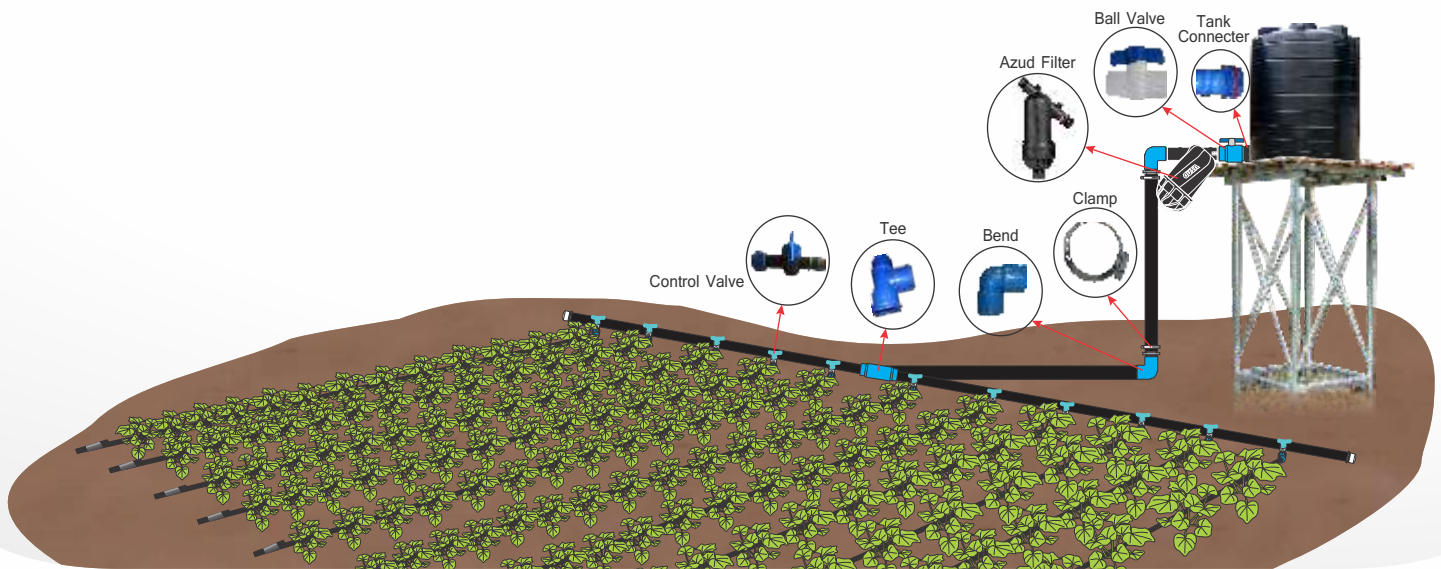


**GRAVITY DRIP KIT**



# HARVEL AZUD Gravity Drip Kit

HA Gravity Based Drip (GBD) Kits are an ideal solution for the irrigation and fertigation of small plots. It is a low pressure Drip Irrigation system which does not require electricity and is an economical solution for small and marginal farmers who belong to the Bottom of Pyramid. The GBD Kits are available with both Micro tubes and inline dripline in five standard model sizes 20m<sup>2</sup>, 100m<sup>2</sup>, 200m<sup>2</sup>, 500m<sup>2</sup> and 1000m<sup>2</sup>.



## Advantages of "HARVEL AZUD Drip Kit"

- ❶ Support to small land holders for their basic requirement of food nutrition & livelihood.
- ❷ Portable system, easy to install, operate and maintained.
- ❸ No electricity required, operates on gravity.
- ❹ Suitable for seasonal vegetables, and can be used for cereals, fruit trees and herbs etc..
- ❺ Increased yield from small plots and break even in one cropping cycle.
- ❻ Increases water use efficiency and improved fertilizer utilization by crops.
- ❼ DIY (Do It Yourself) Kits. No need of skilled manpower for installation & commissioning.
- ❽ Reduced weed growth, insect and pest infestation.

### Product detail:

Product	Plot Size m <sup>2</sup>	Row Spacing m	Emitter Spacing cm	No. of Driplines	Dripline Length m
100m <sup>2</sup> SQM KIT (25mm)	10x10	1	30, 40, 50 & 60	10	10
200m <sup>2</sup> SQM KIT (25mm)	20x10	1	30, 40, 50 & 60	10	20
500m <sup>2</sup> SQM KIT (40mm)	20x25	1	30, 40, 50 & 60	20	25
1000m <sup>2</sup> SQM KIT (50mm)	30x33	1	30, 40, 50 & 60	30	34

# Component Detail

SL. No.	Component Name	Quantity			
		100m <sup>2</sup>	200m <sup>2</sup>	500m <sup>2</sup>	1000m <sup>2</sup>
1.	Tank Connector	1	1	1	1
2.	Elbow (FT)	2	2	2	2
3.	Ball Valve (main) (FT)	1	1	1	3
4.	Filter	1	1	1	1
5.	Hose Connector (MT)	3	3	6	6
6.	Hose Connector (FT)	1	1	1	1
7.	Hex Nipple (MT)	1	1	1	3
8.	Hose Tee	1	1	1	1
9.	Hose Clamp	6	6	6	6
10.	Lay-Flat Main Pipe (3m)	1	1	1	1
11.	Lay-Flat Sub-main Pipe(m)	10.5	10.5	20.5	30.5
12.	Take-off Valve(16mm)	10	10	20	30
13.	Rubber Grommet (16mm)	10	10	20	30
14.	AZUDLINE THINWALL(m)	100	200	500	1020
15.	Joiners (16mm)	3	5	10	10
16.	Teflon Tap (10m)	2	2	3	3
17.	End Cap/ Sleeves	10	10	20	30
18.	Packing (Linear/Box)	1	1	1	2

**20m<sup>2</sup> KIT is available with 25 liters Water Storage Bag.**

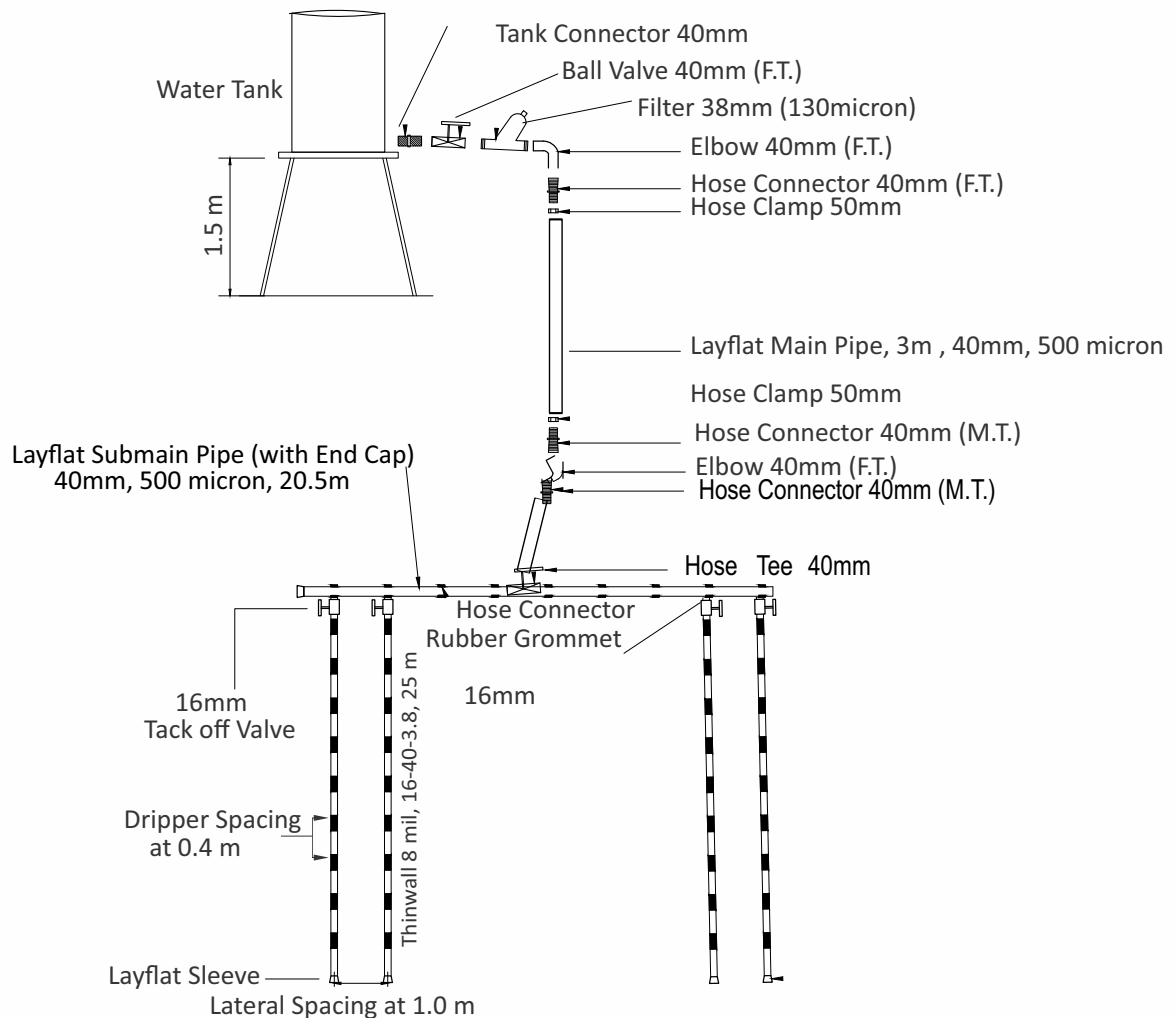
## Installation

1. Select a plot area as mentioned above. Level the ground and break down any dirt clods.
2. Install the water storage tank at a height of at least 1.5 meter above the ground level.
3. Unpack the KIT and connect a filter to ball valve attached at the Tank Outlet and then connect the filter to the main Line Lay-flat pipe) by diverting the water flow downwards with the help of a bend.
4. Main line is connected to the sub main line (Lay-flat pipe) by a Tee (as shown in the Layout above) or can be laid down with an elbow from one end.
5. The sub-main line is pre-fitted with grommet where the take off valves needs to be connected.
6. Connect Azud line lateral to the take off valves and lay it across the length of the field. Close the other end of Azudline lateral by putting an end cap by cutting a small piece from the lateral.
7. Repeat the above step for connecting all Azudline Laterals across the length of the submainline.
8. Use Teflon tape provided with the KIT in every PP fittings thread.
9. Insert wooden stakes or steel hooks into ground (20-35cm) at each takeoff valve point and tie the end of each lateral to wooden stake.

## Tips for Operation and Maintenance

1. Install sub-main line along the slope of the plot and lay laterals across the slope.
2. Operate the system by filling the tank and refill the tank when it reaches approximately 50% of its total volume to maintain pressure. Try to use clean water free of dirt and particles.
3. Run the system regularly to avoid clogging from foreign particles.
4. Open and clean the filter by washing the filter element below running tap water once a week.
5. Flush out sub-main lines once a week by opening end caps and running water for approximately 3 minutes, also flush the laterals once a week.
6. Use joiner to fix any tear/cut in the laterals.
7. For partial usage close the take off valve as per requirement and run the system.

## BASIC LAYOUT OF KIT (500 M<sup>2</sup>)



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### Group Companies



### Accreditations & Certifications

ISO 9001:2015 | ISO 14001:2004 | OHSAS 18001:2007