

SAUHTA HILLS INDIA PVT LTD



DRIP IRRIGATION

 Drip Irrigation is a modern method of watering plants where water is delivered slowly and directly to the root zone of each plant .This is done through a network of pipes Tubes valves and emitters its is also know as trickle irrigation

Motor's

A Motor is a machine that pumps water from a source and pushes it into the drip system

uses of motor: water lifting, water pressure, continuous supply

Three type of motor's

- 1 HP Motor
- 1.50 HP Motor
- 2 HP Motor



Main Components of a Drip System

- Water Source :
- Filter's: Removes dirt and Particles from the water common types:
- Hydro cyclone Filter
- Gravel Filter
- Disc Filter
- Screen Filter







Header assembly & Venturi

- The Venturi injector is a device used to mix fertilizer or chemicals into the irrigation water it is a part of the fertigation system
- The Venturi creates a low pressure area inside the pipe which suck the liquid fertilizer from a tank and mixes it with the irrigation water
- It works without electricity or motor using only water pressure

- Pressure Gauge: Helps You see the water pressure in your drip irrigation system
- Air Relief Valve: used to remove air from the pipe lines
- Flange With Gasket:







HDPE PIPE

- Main line Pipe 40 MM, 50 MM, 63 MM
- Strong and flexible
- Can Handle high pressure and temperature
- Leak proof and long lasting
- Commonly used in modern drip irrigation system
 Lateral Pipe
- These are thinner pipes connected to the main or sub main pipes
- Emitters or drippers are attached to these to deliver water directly to plant roots

Drip irrigation accessories

 Threaded valve :- The Threaded valve is used to open or close water flow to a particular section of the pipeline



- Male threaded :- joining main and sub main pipes
 These fittings help connect hdpe pipe
 to each other securely
- TEE:- Splits one pipe into two directions
- Elbow :- Used to bend pipes
- Joiner :- If a pipe is broken the damaged section is cut out and a joiner is used to reconnect
- End caps :- Closes the end of a pipe







Grommet Rubber: used to Connect Lateral pipe to the main line pipe

Start nipple: used to connect lateral pipe to

the main line pipe

Line Controller:

End Cap:

16 MM Tee:

16 MM Elbow:

16 MM Joiner:



Dripper's

- Non PC Dripper: It gives water to plants, but the amount depends on water pressure in the pipe
 If pressure is high, it gives more water
 If Pressure is low, it gives less water
- PC Dripper: gives the equal water of every plants
- PCND Dripper: It is a special type of dripper used in drip irrigation that does two things.
 - That's gives equal water to all plants
 - Stops draining when the system is off, keeping water inside the pipe