

Jain DripKit.. More Crop Per Drop®

Jain Irrigations journey of “working with farmers” continues with a focus on small farmers. Among the small farmers too, majority are without an independent water-source. And their land-holding is less than 1 acre. Such tiny holdings are also fragmented & located in more than one place, independent water-source and electricity is also not available to these farmers.

“Jain DripKit” will address all these constraints and will empower the small farmers with a scientific, durable and simple-to-operate Irrigation System. The most modern Micro Irrigation System:

"Drip Irrigation System which operates on gravity pressure".

Jain DripKit helps to maintain favourable soil moisture conditions to the plants which results in good growth & bumper yields.

Advantages of "Jain DripKit"

1. No electricity required, operates on gravity.
2. Easy to install. Do it yourself.
3. Portable system, can be easily shifted.
4. Affordable drip systems for small farmers.
5. Ideal for tiny & small farmers.
6. All items are supplied in one box. Easy to carry.



Applications

- Mainly suitable for cultivation of vegetables. Can be used for cereals, pulses, cotton and other closely spaced crops.
- Can be used for irrigation in open fields, Green house/ Net house and nurseries.
- Suitable for Kitchen Gardens and also Himalayan / Hilly (Terrains) where land holding is very small.
- Useful as a survival irrigation tool in rainfed area or water scarcity region or when there is a prolonged gap between rains & / or electricity is not available.



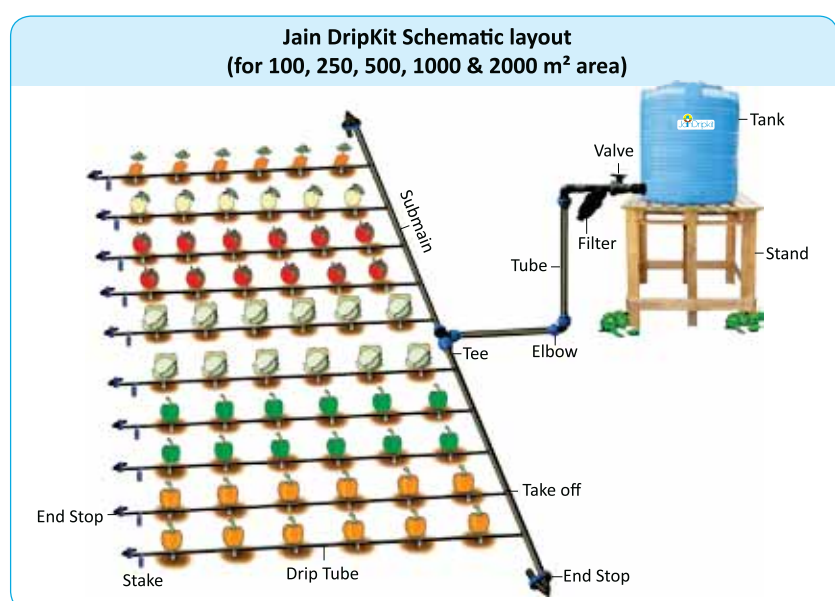
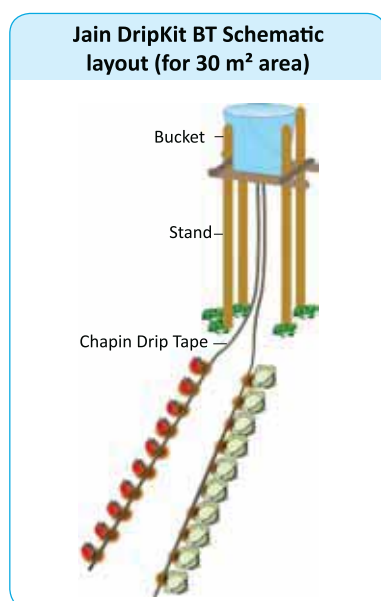
Specifications

- Available in six models: 30m², 100 m², 250m², 500m², 1000m² & 2000m²
- Available in 3 types of Inline tubing options:
 1. Thickwall - 12mm J-Turbo Aqura® (JTA 1.6 lph, 30 cm spacing & 0.6-0.7 mm thickness)
 2. Thinwall - 16mm Jain Turbo Slim® (JTS 1.6lph, 30 cm spacing & 6 mil (150 micron))
 3. Thinwall - 16mm Chapin™ Deluxe (0.95 lph, 20cm & 6mil (150 micron))

Head Vs Discharge

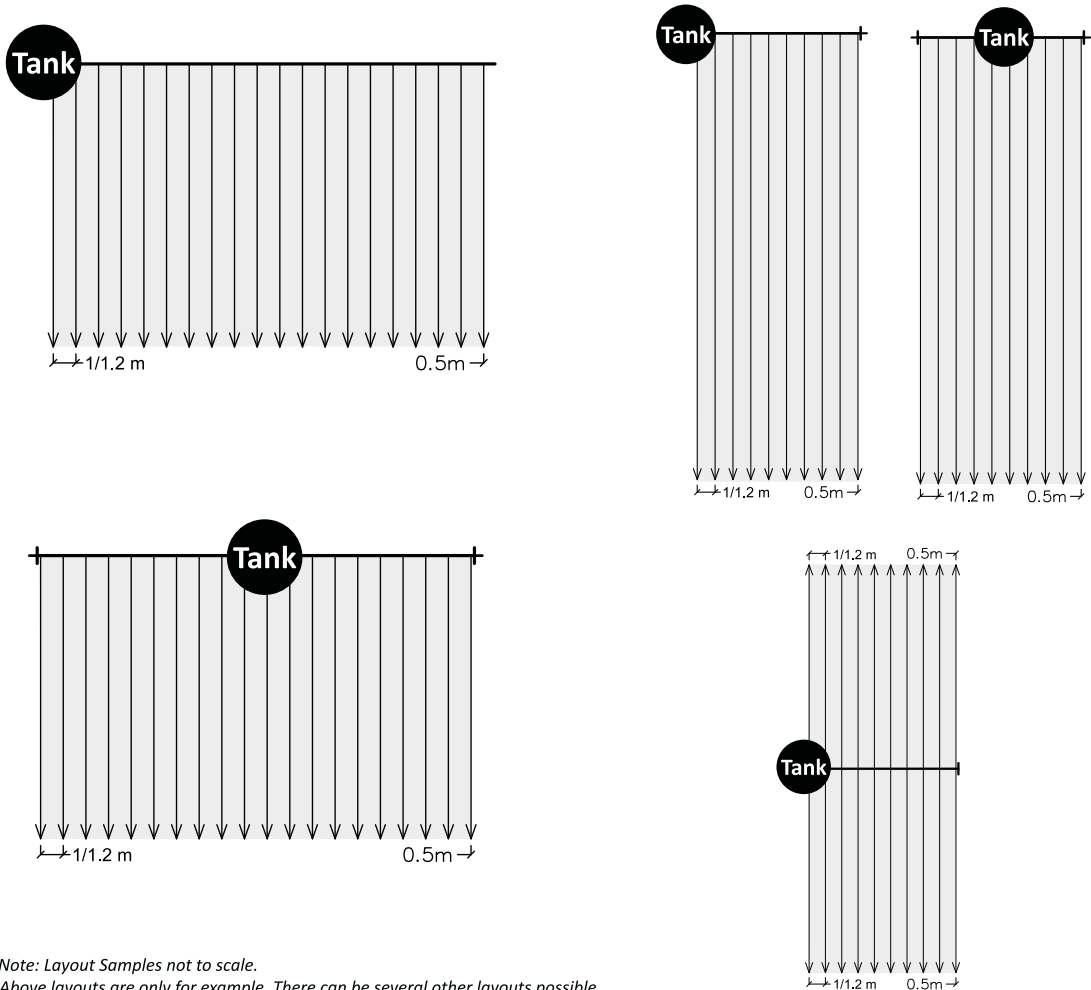
*Head (m)	Discharge (lph)		
	JTA 1.6 lph	Chapin 0.95 lph	JTS 1.6 lph
1.5	0.56	0.34	0.56
2	0.66	0.40	0.66
2.5	0.75	0.45	0.75
3	0.83	0.50	0.83
4	0.97	0.58	0.97

* Head denotes pressure head at the dripper and not the tank height.



Note: Bucket/Tank & stand are not the part of standard Kit.

Layout Options for Jain DripKit



*Note: Layout Samples not to scale.
Above layouts are only for example. There can be several other layouts possible.*



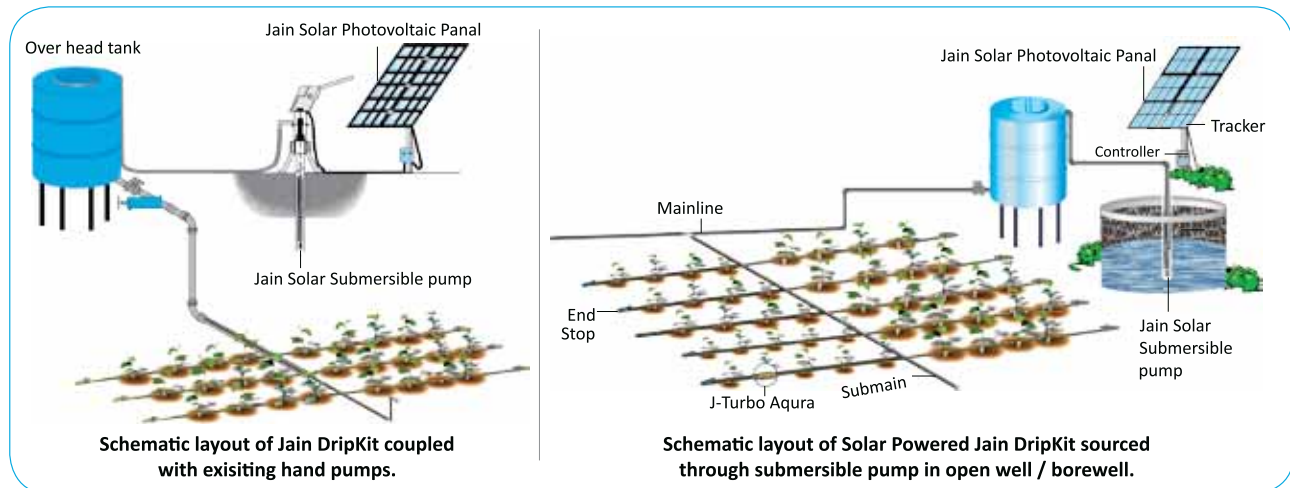
Tank capacity determination as per height of tank & type of tube

Tube Details	Tank Height (m)	Water required (lph) @ Area (m ²)					
		30	100	250	500	1000	2000
J Turbo Aqura	1.5	-	-	469.7	939.3	-	-
	2.0	-	-	550.2	1100.4	-	-
	2.5	-	-	622.0	1244.0	1036.7	2073.4
	3.0	-	-	687.6	1375.3	1146.1	2292.1
	4.0	-	-	805.5	1611.0	1342.5	2685.0
Jain Turbo Slim	1.5	-	-	469.7	939.3	-	-
	2.0	-	-	550.2	1100.4	-	-
	2.5	-	-	622.0	1244.0	1036.7	2073.4
	3.0	-	-	687.6	1375.3	1146.1	2292.1
	4.0	-	-	805.5	1611.0	1342.5	2685.0
Chapin Deluxe Drip Tape	1.5	50.7	169.1	422.7	845.4	-	-
	2.0	59.4	198.1	495.2	990.3	-	-
	2.5	67.2	223.9	559.8	1119.6	933.0	1866.1
	3.0	74.3	247.5	618.9	1237.7	1031.4	2062.9
	4.0	87.0	290.0	725.0	1449.9	1208.3	2416.5
Valve Operation:		Total system	Total system	Total system	Total system	One valve at a time	One valve at a time

NOTE

- Tank height is mentioned at the bottom of the Tank.
- Water requirement given is for one hour operation of Jain Dripkit. You need to fill up the tank frequently according to the water requirement of the crop.
- Up to 500 m² area lateral spacing considered as 1m & for 1000m² & 2000 m² area lateral spacing considered as 1.2m.
- For 1000 m² & 2000 m² DripKit, minimum tank height recommendation is 2.5 m.

Jain DripKit with Solar Pump



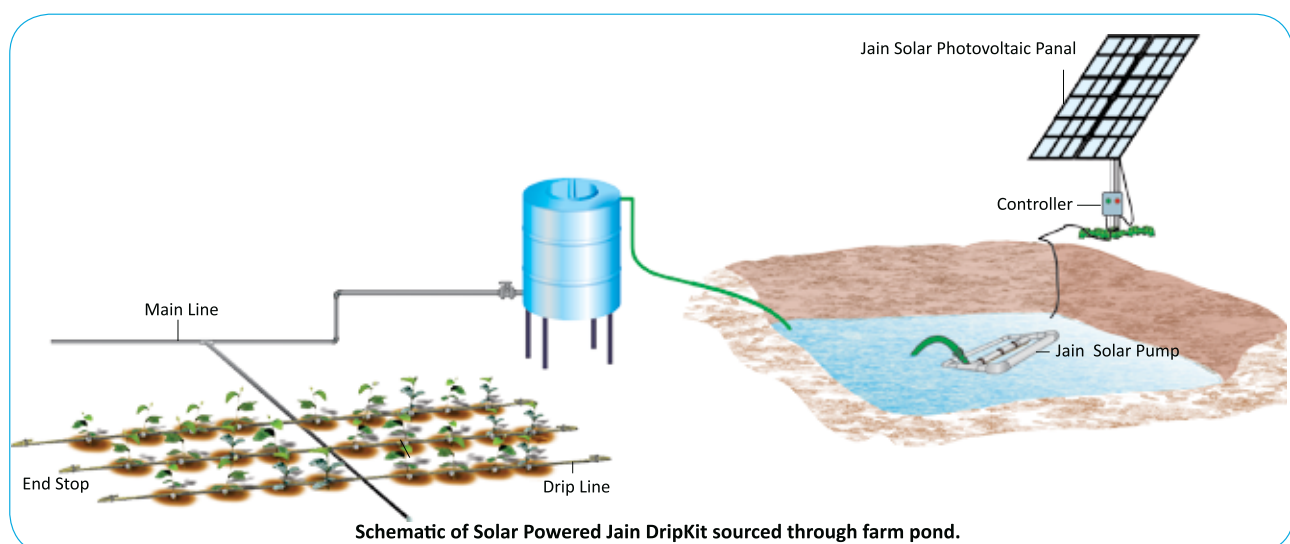
A revolution is taking place in how water is being pumped in remote locations beyond the reach of electric power lines. Solar power has proven to be an ideal way to lift water for drinking, sanitation, stock tanks, and irrigation.

Solar Photovoltaic (PV) panel is one of the the simplest possible way to generate electricity beyond the reach of power lines. It has no moving parts and last for decades with virtually no maintenance. Solar power is no longer an expensive, experimental energy source.

Jain Irrigation Systems Ltd. offers an effective solution: "Jain Solar Powered Drip irrigation system" especially designed for farmers, who do not have access to conventional power and has small land holding. The solar pumps have Brushless DC motors which receives power from the PV panels. This system does not have any batteries. Hence the solar pumps start early in the morning & continue to work till late evening.

Key features

1. Jain solar pumps are available in surface & submersible types.
2. One can optionally use solar trackers, with which the discharge can increase by around 20 to 25%
3. Solar energy is available in abundance. It is the most reliable source of energy.
4. Solar powered pump will give freedom from the power cuts and load shedding.
5. Cost of conventional energy is high and it is becoming dearer.
6. No manpower required to operate the system. System starts automatically with the first ray of sun and shuts off when sun sets.
7. No power and /or fuel cost to operate pump/drip system.



Jain DripKit with Foot Pump

Foot Pump is a foot operated water lifting device that can pump water to fill tanks to irrigate small plots of small land holders. A low cost system, simple in design and easily manageable. For the poor farmers constrained by the small size of the landholdings, Foot pump technology acts as a land augmenting intervention. Capable of pumping water from 5000 litres of water per hour.

Key features

1. Operated by foot in a comfortable walking motion
2. Can be operated by one person
3. Easy to Install
4. System can be shifted from one location to another
5. Does not consume petrol, diesel or electricity.
6. Maintenance free

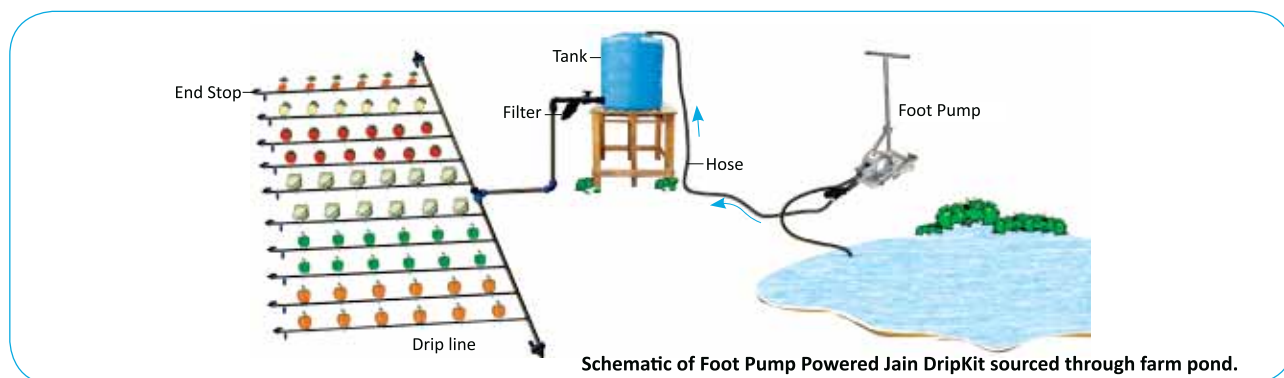
Jain DripKit with Hydraulic Ram Pump

Pumping water without use of electricity especially in hilly areas. The Hydraulic Ram uses the force of flowing water to pump water uphill to desired point without using any additional source of energy. What you need is only suitable site location for Hydraulic Ram Pump.

With a Hydraulic Ram and a suitable stream, spring or artesian well nearby, you can supply your homestead's water needs, irrigate your garden or water your orchard...all without the use of any outside source of energy with Jain DripKit.

Key features

1. Very simple construction and easy to install .
2. Does not consume petrol, diesel or electricity.
3. Can be operated for 24 hours per day.
4. Automatic, continuous operation requires no supervision or human input.
5. Maintenance free.



Jain DripKit.. Energyfree, Efficient & Economical




Jain Irrigation Systems Ltd.
Small Ideas. Big Revolutions.®

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