

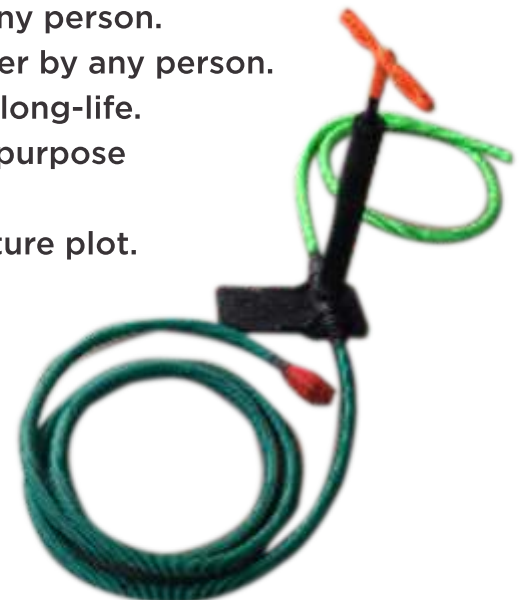
An innovative, portable and low-cost pump used for irrigation. This hand pump works on the principle of traditional frame fit pumps used to pump air in bicycle tyres through a long air chamber. This water hand pump enables easy pumping of water through long distances. This pump is made of integrated plastic components making it robust in construction, less costly and lightweight.

The demand for a mobile, low-weight pump instigated Bhing Brothers to come up with a portable hand-operated pump called Ecoflo hand pump. This pump weighs just 1 kg and comes with a backpack, making it very easy to carry.



## FEATURES OF THE HAND PUMP

- Water can be easily sucked from a well or reservoir having a depth of max.5mtrs.
- Delivers water upto a height of 15mtrs.
- Transports water to a maximum distance of 300mtrs.
- Discharges water at the rate of 1200litres/hr.
- Weighs just about 1kg and can be ported to any place by any person.
- No electricity is required, can easily work on the hand power by any person.
- 100% plastic pump, hence less wear, less maintenance and long-life.
- This hand pump can be used for agriculture as well as any purpose where water has to be pumped.
- Can easily run a drip and sprinkler kit to irrigate an agriculture plot.



## STANDARD HAND PUMP KIT

1. Ecoflo Hand pump- 1no.
2. 1" Suction spiral pipe 4mtr- 1no.
3. 1" LLDPE delivery pipe 10mtr- 1no.
4. Connecting nipples- 2nos.
5. Hose clamp- 1no.
6. 1" Foot valve- 1no.
7. Ecoflo hand pump backpack (for convenient and easy portability)-1no



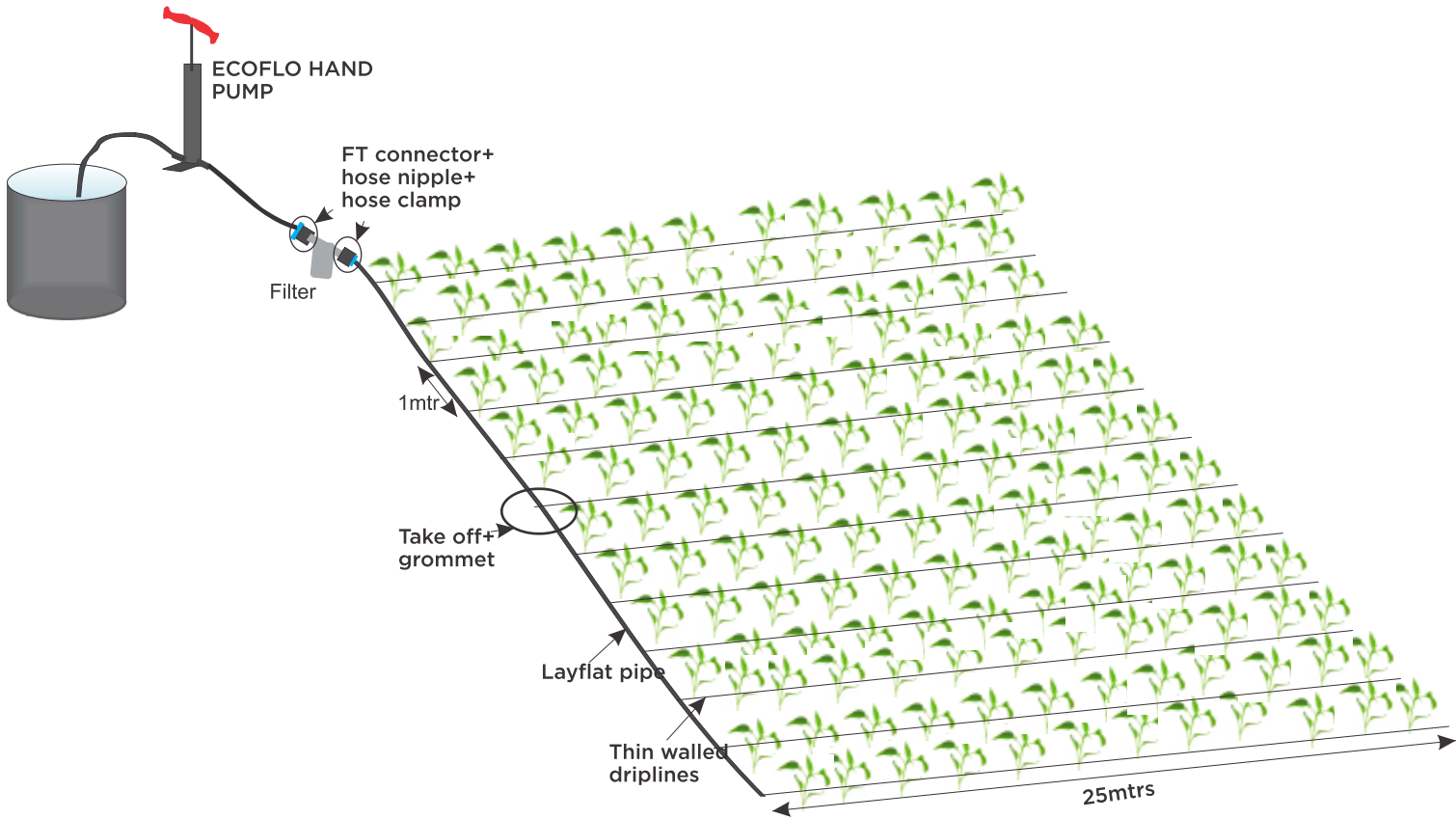
## PUMP OPTIONS/ COMBINATIONS

Ecoflo hand pump is a versatile pump. It can also be provided as a package with different types of irrigation kits. The accessories and combinations which can be used with the Ecoflo hand pump are as below

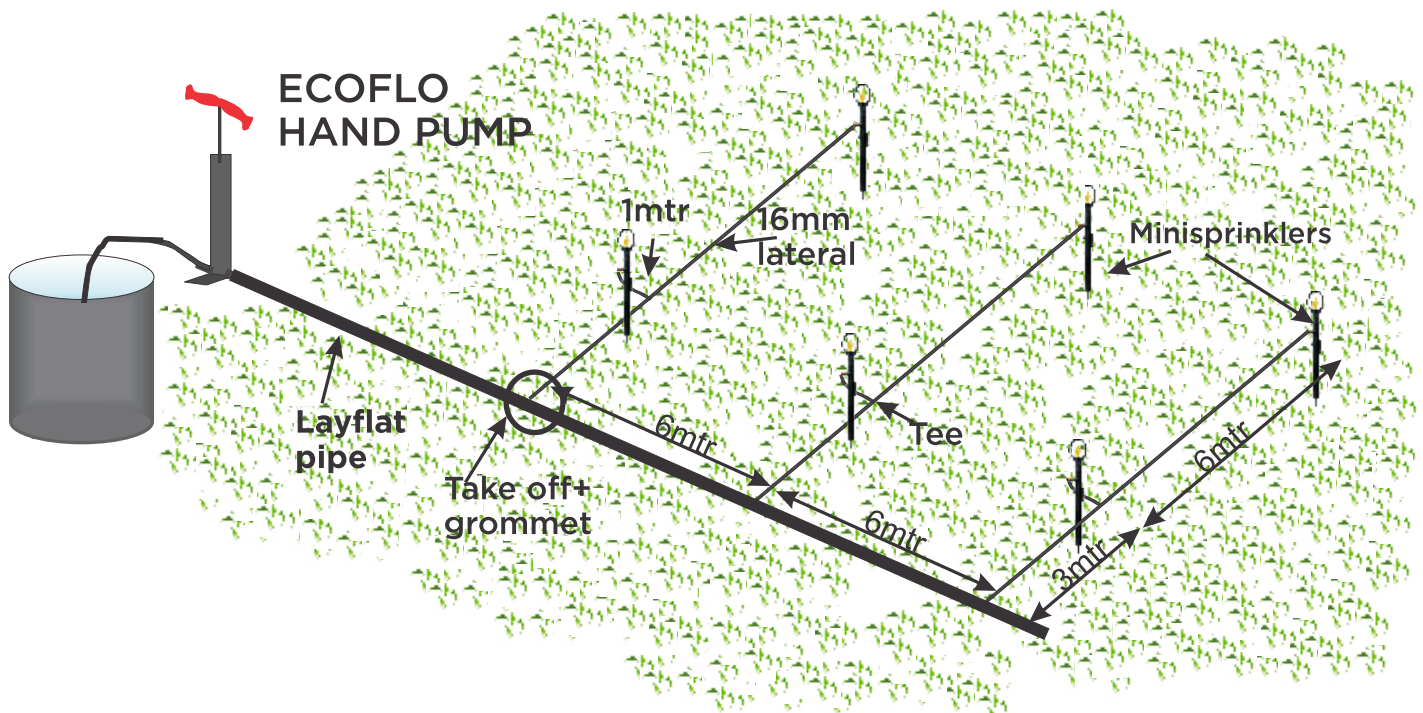
1. Ecoflo hand pump + 300mtr of 1" plain LLDPE pipe  
Water can be transported upto a maximum distance of 300mtrs on the ground surface. This combination of Ecoflo Hand pump with a plain delivery pipe can be used to just transport water upto this distance.
2. Ecoflo hand pump + 15mtr. of 1" spiral delivery pipe  
A 15mtr delivery pipe can be used to fill an overhead tank/container with the help of this pump. This combination can be used to fill an overhead tank which can be used for irrigation in a drum kit/ gravity kit.



3. Ecoflo hand pump + 300 sq.mtr inline drip kit = to irrigate a 300sq.mtr plot (runs 12nos. of 25mtr inlines at a time).



4. Ecoflo hand pump + 300 sq.mtr mini sprinkler kit = to irrigate a 300sq.mtr plot (runs 6sprinklers at a time).



## COMPARISON TABLE FOR HAND PUMP

Description	Traditional Shallow well suction hand pump	Other hand pumps in the market like Ecoflo Hand pump	Our Ecoflo Hand pump
			
Material of Construction	Available in cast iron and stainless steel - corrosion and wear of moving parts	Steel- corrosion, wear of moving parts	100% Plastic- Light, no corrosion, no wear, less maintenance, long-life
Suction depth	About 8mtrs	About 7mtrs	5mtrs (Can go up to 7mtrs)
Delivery height	N/A	14mtrs	15mtrs
Delivery on flat ground up to	N/A	200mtrs	300mtrs
Weight	About 30kgs	About 5kgs	1kg
Mounting	Available in cast iron and stainless steel- corrosion and wear of moving parts	Portable- Difficult to carry over long distances because it weighs about 5kgs	Easily portable - weighs just 1kg and provided with a hand pump backpack bag for additional convenience
Cost	Above 80\$	About 70\$	About 25\$
Priming	Some require initial priming	Self priming	Self priming
Applications	Only required for pulling water from shallow well to the surface- Used to pump drinking water	Versatile usage- Suction of water from wells, storage of water in overhead tanks, transportation of water up to long distances.	Versatile usage- Suction of water from wells, storage of water in overhead tanks, transportation of water up to long distances. Can also run a 300sq.mtr inline and mini-sprinkler irrigation kit
Discharge	800lph	Not mentioned	1200lph
Type of fluid	Only drinking water	Any fluid cannot be used because there is a chance of fluid-metal reaction	Any fluid can be pumped- No reaction with the pump