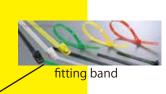
## Installation model of New Karez (vertical type)

## What you prepare (RED = Mandate)

- 1. New Karez pipe (vertical type)
- 2. PVC pipe, small particle sand, soil
- 3. Drill (to open a hole in PVC pipe)
- 4. 2 tanks (supply, recovery)
- **5**. Tube to connect tank and PVC pipe



\* to keep air flow

## 6. Fitting band to **prevent leakage** (if necessary)

- 7. High position (bench type) planter, if convenient
- 8. Water pump (to pump up water from recovery to supply tank), when NK ridge is connected plurally
- 9. Float sensor, to detect water level to move pump

weeds in the tank.

**soil** to prevent

water getting hot

**Installation process** 

- 1. Make a hole in PVC pipe with drill in each 30-40cm (depending on size of plant).
- 2. Set PVC pipe first, check whether water flows, comes out of exit of PVC pipe. (Very slight inclination so as water to flow slowly)
- 3. Install NK pipes in each hole, pls make sure **no gap around pipe** (to prevent sand drops in PVC pipe)
- 4. Spread soil **shallowly near the level of the height of PVC pipe**, arrange the soil evenly.
- 5. Surround NK small particle sand, **pls make sure NK absorbs water** (for 3-5 min, you feel it wets, water doesn' t come out because of surface tension) **before putting soil** on sand.
- 6. Cover sand layer with soil layer, put sign board in the position of NK pipe.
- 7. Plant vegetables (tomato, cucumber, chillis etc) accordingly.

Please cover with board to prevent photosynthesis of weeds in the tank.

pipe with tube

