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THE USE OF 'STRUCTURED WATER' IN SPRINKLER AND DRIP IRRIGATION SYSTEM

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Abstract

Water is the most essential component of our food and is most maltreated by us. By the time it reaches us it is far from being natural. Good water is being so scarce that there is going to be an acute water crisis, after the energy crisis reaches its culmination point. A lot of work is in progress in the USA, UK, Russia, Japan, Scandinavian countries, Italy, Australia, China etc about magnetically structuring and rejuvenating water. This water is being used in medicine, construction and agriculture. Structured water in reality is magnetized water. In the process water is kept in close proximity of a powerful magnet which brings about changes in the treated water: (1) its pH becomes slightly more than 7, (2) its meniscus becomes a little less concave, (3) it opens up the clogged pipes, (4) it disallows the sediments to settle and not stick to the bottom of the pot, (5) it wets the surfaces of the objects, (6) its flow is improved, (7) it is effectively taken up by living organisms at cellular level. The process of structuring is not fully understood. It is believed that clumped molecules of water are arranged orderly which facilitates cellular uptake. This is understandable because water molecules are dipoles with a positive and a negative pole. They are bound together by hydrogen bonding. The charges on the water molecules are electrical. What is their attraction-repulsion relationship with magnetic N- and S- poles is not understood. Use of heavy oxygen and deuterium may settle the matter. Magnetizing water for irrigation purpose is relatively easy. An Australian company- Energizer manufactures magnetic clamps which could be placed on water pipes. When water passes through the pipes it comes out structured from the other end. I structure water in my little laboratory in the roof garden by using circular speaker magnets sold by *kobaris*. I pass the pipe through the hole and get magnetized water from the tap. Magnetic rays have no barriers like X- and gamma-rays. Therefore in sprinkler and drip irrigation fixing a few magnets on the water channel can structure water for unbelievable benefits to the crop or garden plant. The technology does not need any power and maintenance requirement, once installed it can go for years. Practically no cost is involved.

INTRODUCTION

Hahnemann was the first medical doctor to use the term 'remedy' for magnet. He directly applied magnet to his patients and achieved instant permanent cures of their illnesses. He also

established that unpleasant effects of magnets could be alleviated by applying polished zinc plate to the treated area. He was the first scientist to magnetize structure water for therapeutic uses. He prepared three remedies viz / (1) N-pole, (2) S- pole and (3) N-S pole proved them on humans and found a symptom spectrum of 1279 in which these remedies were found useful.

Lately the observation that astronauts in space capsules developed health problems, established the effect of magnetism on health. The astronauts developed these problems due to estrangement from the earth magnetic field. Now the capsules are compensated for magnetic deficiency. It is also magnetically controlled. Magnetism like radiation is an imponderable energy that is why it has remained elusive until now.

WATER

Water constitutes the main component of the body of all living organisms. It amounts to 50 to 75% of fresh body weight. It acts as a solvent for nutritive and excretory substances. It hydrates protoplasm, keeps the cells, tissues, organs and body as a whole turgid. It participates in many chemical reactions and provides a medium for all cellular chemical reactions. Volume of water in the body depends on the presence of ions such as calcium, magnesium, chlorine, bicarbonates, sulfates and phosphates. It evaporates to cool the body temperature. Dehydration makes body flaccid, and it is one of the sure causes of death.

Water in natural form is transparent, colorless, odorless and tasteless. Its specific gravity is 1, It freezes at 0°C, evaporates at 100°C at sea level. Heat required to raise 1cc of water by one degree centigrade is called one calorie. Heat required to evaporate water is 936 calories and ice absorbs 80 calories to melt itself into water. It is found in liquid state in ordinary conditions. It is also found in vapor and ice form. The density of water is highest at 4°C. Ice is lighter than liquid water. Water is ionized in to H and OH ions. Salts acids and bases ionize in water resulting in pH changes. It is involved in Acid-Base equilibrium in living systems.

The electrons that compose water molecules are negatively polarized, which enables them to create a dynamic environment for the molecules. When electrons are lost the water loses its ability to keep its pH balance, Water with more OH ions are alkaline. The Chlorine added to water for its antiseptic property makes the water becomes acidic. The Japanese natural Nariwa structured water is effective in balancing water pH because this water has abundance of electrons.

Every living organism needs water to live. Clean drinking water at the present time is almost as expensive as petrol!! Really the water we refer to as clean is “dead”, because we process it to extreme and do every thing to “kill” the water by exposing it to undergo mechanical, chemical and thermal treatments. The contamination, pollution and addition of industrial wastes do the rest to ‘kill’ water. However, we can find “alive” water in holy springs. These waters due to acquiring magnetic exposure in underground rock formations have health giving properties. These natural waters are spread all over the world in religious sanctuaries. Allah has bestowed upon us the Zumzum. This water retains its properties in diluted condition suggesting it to have “memory”.

Water is a liquid crystal with a pliable lattice matrix that is capable of adapting in many structural forms. It takes the shape of container. It flows from higher potential to lower potential. That is why it finds its own level! The structure of water gives it an infinite capacity to store information within its matrix. The hydrogen bonds which hold the water molecules break and reform which enables it to take the shape of the container. Water works as a bridge between the world of energy and matter.

STRUCTURAL WATER

Layers of water slide over each other when vigorously shaken. They can adsorb electromagnetic force or energy. When water is turbulent; it is affected by magnetic forces, which may be man made or natural. In nature it occurs when water flows over magnetic rocks, obstructions, depressions and elevations resulting into “structured water”.

In “structured water” (a) the positive and negative charges of water molecules are strengthened resulting in their attraction and repulsion, (b) water molecules make crystal chains, which helps in water absorption by the cells. During structuring, crowded clumps of water molecules are broken. It is quite different from what we consider normal water. It is assimilated by the body more easily. It produces efficient cellular colloidal system.

STRUCTURING OF ORDINARY WATER

Ordinary water can be converted to “structured water “ by one of the following methods: (1) By shaking water vigorously or stirring it with magnetic stirrer, (2) By shaking it with magnetic field, (3) By running it through or over some obstructions such as smooth pebbles creating eddies/vortex, (4) By swirling the water in a container, (5) By clamping magnets on to the pipes conducting water and, (6) Dunking water proofed magnet in a container or putting water container in proximity of the magnet. Method 5 can be used in drip or sprinkler irrigation.

COMPARISON OF STRUCTURED AND ORDINARY WATER

Structured water inhibits deposition/incrustation of dissolved substances. The phenomenon is not understood, yet it has useful application in saving boilers and connecting pipes from incrustation and choking. Structured water has a slightly raised less concave meniscus. It has low surface tension and greater wetting property. Magnets are pseudo-softeners, but neither magnets nor structures water soften water chemically. Its pH is slightly above than 7, which enables it to be assimilated in body fluids. The structured water neutralizes the acidic chlorine effect. Structured water breaks the clumps of water molecules and strengthens hydrogen bondage. Structured water seems to have memory. Medically water exposed to N-pole is antiseptic; S-pole is analgesic-pain relieving and N-S pole builds body’s immunity. Direct application gives instant permanent cure. One can antidote the bad effect magnetic treatment homeopathically by an appropriate remedy or by exposing the treated body part with a polished zinc plate.

USES OF STRUCTURED WATER

“Structured water” has been found to increase crop yield e.g. winter wheat 28%, corn 17%, Cucumber 32%, tomato 32%. It increases milk production and fertility in cattle, meat and egg production in poultry and increases reproduction in rainbow trout. Structured water reduces mineral deposits in pipes and boilers and alleviates deep vein thrombosis. Structured water is being used in agriculture, dairy, poultry medicine, and construction industries with unbelievable benefits. There is both qualitative and quantitative yield improvement.

IRRIGATION

Pakistan has one of the most elaborate and extensive canal irrigation systems in the world. It is best suited for plains of the Punjab and Sindh. The two side effects of this irrigation system are salinity and water logging which are converting large acreage of productive land into uncultivable marshes.

Some areas of other provinces in the country have scarcity of water where drip and or sprinkler irrigation with fertilizer (fertigation) or with out it could be used. I suggested the use of drip irrigation in apple orchards in Balochistan. Unlike broadcast surface irrigation, both drip and sprinkler irrigation is localized irrigation in extent and makes an efficient use of water.

The drip irrigates the root zone of individual plants and is subterranean. Setup of the system is shown in Figure 1. The nozzle is shown in Figure 2. Magnetic clamps may be placed along the pipeline whether of galvanized iron or hose. The Magnetizer manufactures such clamps, which are expensive, but have no recurring expenses or maintenance.

The sprinkler system is over head system. The sprinkler units are attached to the pipes hooked to a water source. The sprinkler guns are either mounted or a fixed on mobile platform. The sprinkler may be electrically-powered or water- powered. The system covers a certain radius

and showers the foliage. Magnets are applied at various places along the course of pipe. I use the magnets taken out from the old speakers purchased from KABARIS. I have grown wheat in magnetic-structured water by dunking water proof magnets in a container. I do hand watering.

CONCLUSION

The expenses incurred on drip or sprinkler irrigation will remain the same. The system should be magnetized by putting magnets on water channels. Magnetizer's clamps could be imported, or the system should be improvised locally. The system has no running cost and no maintenance is required. For the benefits one is going to get the minor work and expense should be a pleasure!!

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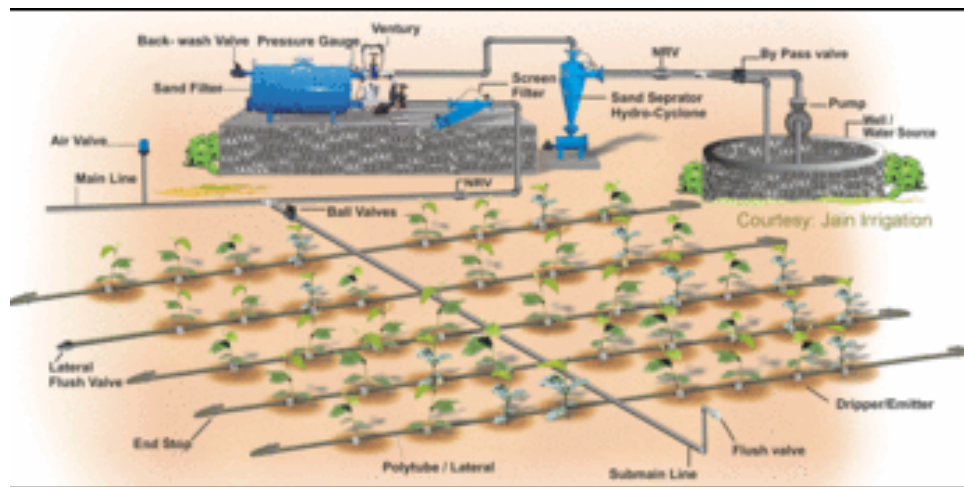


Figure 1: Drip irrigation

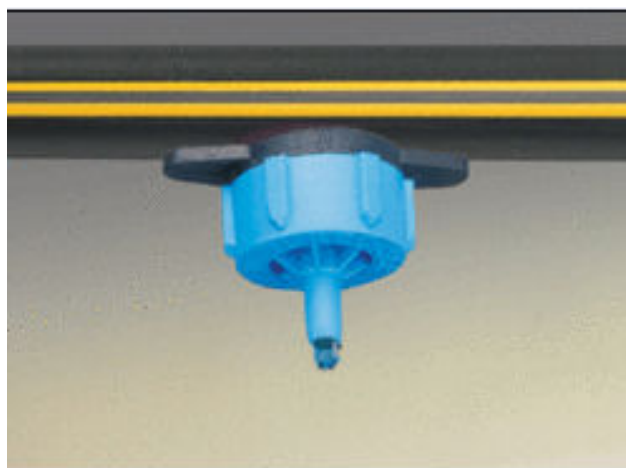


Figure 2: Drip nozzle in action