



Applications of Mag Green Structured Water Technology in Agricultural Development at lowest possible cost



Magnetic Technologies LLC-UAE
World's Largest Base of Magnetology
www.magneticeast.com

SOLE DISTRIBUTOR



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Mag Green Structured Water Technology

Modernizing Agriculture at Lowest Possible Cost

“Mag Green Device” structures the water and breaks down minerals into smaller particles to provide adequate hydration with greater nutrients uptake resulting in superior & larger yields, earlier maturation, longer shelf life, and healthier plants. It allows a reduction of amount of water needed, fertilizer and pesticides.”



Who We Are.....

We are the inventor and pioneer of this innovative **Mag Green Technology** having no comparison with any other technology around the globe.

Magnetic Technology is the outcome of more than 30 years of constant research, observation and implementation. The research was initiated by 52 leading research institutes in Russia led by Pro.YuriTkatchenko, who is continuously working on this technology from the U.A.E.

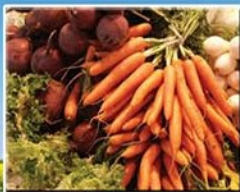
Magnetic Technology derived from research in Russia during the 70's and 80's and since 1995, the research work is still continue from the UAE even after the scientists relocated from Russia, creating the Magnetic Patriarch Company Magnetic Technologies LLC.UAE

MagTech (Pvt.) Ltd. Pakistan, was created to collaborate and expand the technology in Pakistan with the goal to provide chemical –free magnetic enhanced solutions in every aspect of life in Pakistan.



Benefits of Mag Green Structured Water Technology in Agriculture

- The oxygen content of Mag Green Structured Water is 10% higher than ordinary water.
- Seed germination will be 100% after passing seeds through Mag Green Seed Device.
- 5-50% reduction in Seed usage gradually between 3 generations.
- 30-50% reduction in water used for irrigation.
- Reduction in use of Fertilizer between 25-50%.
- Minimizes use of Pesticides and Herbicides.
- 15-25% increase in crop yield and better quality produce.
- Up to 50% increase in selected Vegetables, Fruits and Crops/ Yield even some crop can be doubled.
- Reduction of vegetation maturity period between 7-15 days
- Size, Taste, Color, Smell and Texture improves.
- Extends shelf life of produce.
- Enable soil reclamation.
- Allows the use of Brackish Water for irrigation (up to 6000 PPM TDS).



Now!

**It is Possible that you can do
Agriculture with Brackish Water
and on Saline Contaminated Land.**

**Mag Green Structured Water Technology
effectively works in the following four
Agriculture scenarios:**

- Normal Water with Normal Land
- Normal Water with Saline Land
- Brackish Water with Normal Land
- Brackish Water with Saline Land



Agriculture with Brackish Water

Currently Brackish Water is not suitable for irrigation, but now, through Mag Green Devices Brackish water can be used for agriculture and irrigation.

Mag Green Brackish Treated Water up to 6000 PPM TDS can be used for Agriculture and get additional benefits.

Mag Green Water treatment Effect on Brackish Water

- The oxygen content of Mag Green Structured Water is 10% higher than ordinary water.
- Mag Green Structured Water Technology is able to flushout salts 2 times more effectively than ordinary water.
- Breaks down and prevents formation of new salt crystals in irrigated soil by Mag Green Structured Water Technology.
- Increases nutrients accessibility to plants uptake.
- Prevents formation of encrustations in the pores of soil and plant's capillaries and upon their surfaces.
- Mag GreenWater treatment is also very effective for desalination of soil and its decontamination.



Agriculture on Saline and Waterlogged Land

Soil desalination has always been a problem of prime importance. In Pakistan, approx. 6.8 million hectares of land are reported to be affected by salinity.

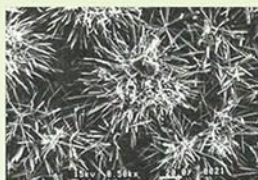
Using Mag Green Devices, desalination of land can be achieved in shorter time and at lowest cost.

- The oxygen content of Mag Green Structured Water is 10% higher than ordinary water.
- Through Mag Green Devices salt crystals *(Calcite) will be broken into smaller particles *(Aragonites) which is easily absorbed and re-cycled by the soil providing only salt-free water to the plant.
- Mag Green Structured Water is 2 times more effective than ordinary water when it comes to flushing out harmful salts from soil and retain its effectiveness in case of mineralization of water up to (6000 PPM TDS).
- Mag Green Devices help nutrients accumulate in the soil.
- It has no side effects and is harmless to plants.
- Decontaminates the soil and water used for irrigation.
- Warranty period of each Mag Green Device is at least 10 years.

*Calcite



*Aragonite



Mag Green Brackish treated water molecules carry extra nutrients and does not create salt crystals and penetrates more easily through the plant cell walls providing extra benefit to the plant.



Seed germination improvement through Mag Green Technology



- Changes in germination behavior of seeds.
- 5-50% reduction in seed usage gradually between 3 generation.
- Seed germination will be 100% after passing seeds through Mag Green Seed Device.

Influence of Mag Green Structured Water Technology in Yield/Crop and Fertilizer (Rabi and Kharif).

	Crop	T1 G.W.	T2 M.W.	T3 G.W.+F	T4 M.W.+F	% increase in T4 over T3
1	Palak	0.650	1.200	1.150	1.600	39.1
2	Cabbage	3.250	4.100	3.900	4.905	25.7
3	French Bean	0.350	0.670	0.650	0.895	37.7
4	Chilies	0.100	0.375	0.350	0.450	28.6
5	Wheat	1.050	1.500	1.450	1.850	27.6
6	Maize	0.220	0.400	0.505	0.700	38.6
7	Cow Pea	0.250	0.570	0.550	0.790	43.6
8	Brinjal	1.650	2.100	2.225	2.900	30.3
9	Bhindi	1.400	2.000	1.900	2.750	44.7
10	Rice	0.100	0.450	0.425	0.625	47.1

Result: Yield of all the crops increased between 24.1% to 47.3%

*Research material available on request.



Dairy & Livestock

Mag Life Water is biologically active, lighter and more oxygenated for livestock and dairy animals hence, producing **10% to 15%** more milk if you provide dairy animals for drinking, food preparation, showering and in cleaning the area.



Milk

- Increase fat content of milk by 0.13 – 0.15%.
- Mag Life treated water reduces firmness of the utters and making milking process easier.
- Mag Life treated water drastically decreases the amount of bacteria in milk.

Meat

- Increase average weight gain in calves up to 10-35%.
- Increase in quality and quantity of meat with improvement in taste.

Resistance against Diseases

- Prevent diseases and Mortality ratio.
- Increase resistance against harmful disease .
- Skin glow and shines.

Commercial Benefits

- Increase the shelf life of milk in containers.
- Improves fertility.



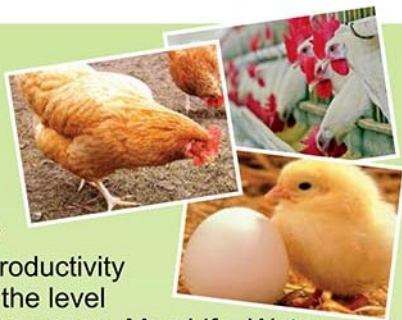
Poultry

Mag Life Water can create significant impact on Poultry Farming by enhancing the productivity and quality. Birds can attain the level of maturity within a shorter time span. Mag Life Water and feed help poultry animals gaining weight and increase resistance against diseases.

Mag Life Water substantially reduces E.coli, Coliform and other Bacteria and eliminates waterborne diseases..

The Egg-laying qualities of birds increase up to 10% upon regular drinking of Mag Life Water.

Birds gain weight faster which reduces maturity period by 3-5 days.



Fish Farming

Mag Life Water in fish farm increases the level of oxygen in water which ultimately creates a positive impact on fish behavior. Mag Life Water and feed can increase their size and weight within a shorter period and develop resistance against diseases.

Mag Life Water increases oxygen content in water hence reduces pathogenic bacteria.

Fish size increase up to 100% and fish mortality and morbidity rate reduces significantly.



Conditions	Gained weight %	O2 in Water %	Fish mortality %	Fish morbidity %
Normal Water	100	1	35	60
Mag Life Water	155	4.4	28	30
Mag Life Feed	188	4.2	12	0
Mag Life Water+ Mag Life Feed	220	5.4	8	0



Hydroponics (Tunnel Farming)

Hydroponics (Tunnel Farming) first originated in the Middle East. Thousands of years ago the inhabitants of this region were growing plants without lands in the Hanging Gardens of Babylon civilization.

Mag Green Structured Water Technology reduces land requirements for crops by 75% or more, and water use by 95%.



Enhancement of Hydroponics (Tunnel Farming) using Mag Green Structured Water Technology

There are few types of Hydroponic (Tunnel Farming) growing systems:

- | | |
|-----------------------|---|
| Drip System : | The most widely used type of hydroponic systems. (Tunnel Farming) |
| Flow System : | The system can be modified in many ways. |
| Water Culture System: | A very simple to use hydroponic system. (Tunnel Farming) |
| Wick System: | The simplest of all hydroponic systems. |





Range of Mag Green and Mag Life Devices use in Agricultural Sector:

Our principal Magnetic Technologies LLC can provide custom made devices for all Agricultural Sectors from small to a very large capacity in PVC and Stainless Steel pipes.



Mag Green Tube well Devices



Horticulture

- High productivity
- Shelf life of vegetables and flowers will increase.



Orchids

- Quantity and Quality increase.
- Commodities shelf life will increase.
- It improves Size, Taste, Color, Smell and Texture.
- Ultimately it will give financial benefits to farmers.



Unmatched features of Mag Green and Mag Life Devices

- No Running Cost
- No Operational Cost
- No Raw Material Used
- No Space Constraint
- No Replacement of Parts
- No Electricity Required
- No Maintenance
- Simple Installation
- Product Life 10 years minimum.



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