

“Nature is not a place to visit, it is home.”



GROW LOCAL SELL LOCAL

PG. 1

About Us, Why Soil-less Farming

PG. 2

Hydroponics, what it needs,
Estimated Investment, Return on
Investment

PG. 4

Aquaponics, A Hydroponics Plus

PG. 5

Hydroponics Fodder, Contact

About Us: We're Vatodar Green Waterfarms, an Agri-tech company aimed at being enabler for Hydroponics and Aquaponics. It has Urban Farm in Vadodara from here you can experience Indoor Vertical Farm growing Exotic Leafy Greens and Herbs, the facility runs on Grow lights under controlled environment system, it helps to produce residue free and pesticides free crops. We provide vertically integrated solutions with real time data and support to help you get multiple yields with more grow cycle.

Our Vision is to transit traditional agriculture to more sustainable and Nature friendly. With consultations to adopt this practice at their land to grow varied crop types such as kharif and Rabi crops, Exotic Vegetables, Kitchen and Medicinal Herbs, Cash crops to make good use of asset and continuous production of Crops/Fishes.

Why Soil-less farming:

1. Save More than 80% water.
2. 30-50% Faster growth rate than in soil.
3. No Soil, No Ploughing, No Tilling.
4. Zero Nutrients Waste.
5. Less Disease and Bug Infestation.
6. Less Labor-intensive Work.
7. Different Variety of crops can be cultivated.
8. More crops per acre of land is possible.

Hydroponics



HYDROPONICS AND COMMERCIAL FARMS

Hydroponics is an umbrella term for a method of growing plants without soil by using mineral nutrients in the water. It has been proven to be healthier to plants and environment, uses 80% less water and nutrients efficiently compared to traditional farming. Through hydroponics reliability of crops has increased as it allows high quality farming anywhere. It allows to grow crops of non-native species with controlled environment it gives climatic conditions for healthy growth.

We provide end to end solution to develop a commercial farm based on soilless cultivation, which is a combination of asset development in project and consulting services for selecting crop to forming market connection to sell farm produce. We provide you with continued data and support to help you make the best of the system. The capability it gives you to grow Vines, fruits and leafy in under same roof. NFT Systems- Nutrient film Technique is method of growing in hydroponics using pipes to grow leafy greens and kitchen herbs while Dutch bucket or Grow bed System allows us to grow fruiting plants.

We provide nutrients, saplings and seeds for soilless system, our Automation system collects data such as pH, EC, Water Temp, Room Temperature, Humidity etc. And it uses the dataset to control Pumps, Misting, Dripping, Fans, Lights, and Nutrient mixing. Based on requirement these helps in quality and productivity on crop yield. We provide informative support to run the farm sustainably like standard procedures for all steps of growing, technical support to training your farm operator.

Commercial Farm requires at least 2500 sq.ft. of land or closed space to produce vegetables, Cash Crops, Medicinal plants which is needed be commercially viable and make profits by selling raw produce or processed. By choosing Single category and multi crop under it, the system design and production capacity are derived. Initial Capex (one time investment): Greenhouse, Irrigation system (NFT, DWC, Dutch Bucket), electrical system to control and hydroponics operational equipment.



COMMERCIAL IDEA

Approximate estimation in Capex and Opex for Farm build of 5000sq. ft.

Item	Value
Cost of greenhouse/polyhouse*	8,00,000
Irrigation System	5,58,000
Nutrient Price	5,00,000
Water Purifier	30,000
Energy Bill	29,460
Operations	8,87,000
Total Cost of investment	28,04,460

For Example, for crop selling estimation for leafy crop

Item	Value
Average weight of yeild per plant (in Kgs)	0.5
Number of plants in one yield	4000
Number of harvest per year	10
Total yield per year	40000
Average price of Produce per Kg*	Rs. 100
Annual Revenue**	Rs. 20,00,000



No Soil,
No Ploughing
No Tilling



Saves
more than
80% water



30-50 %
Faster
Growth Rate



Zero
Nutrients
Waste

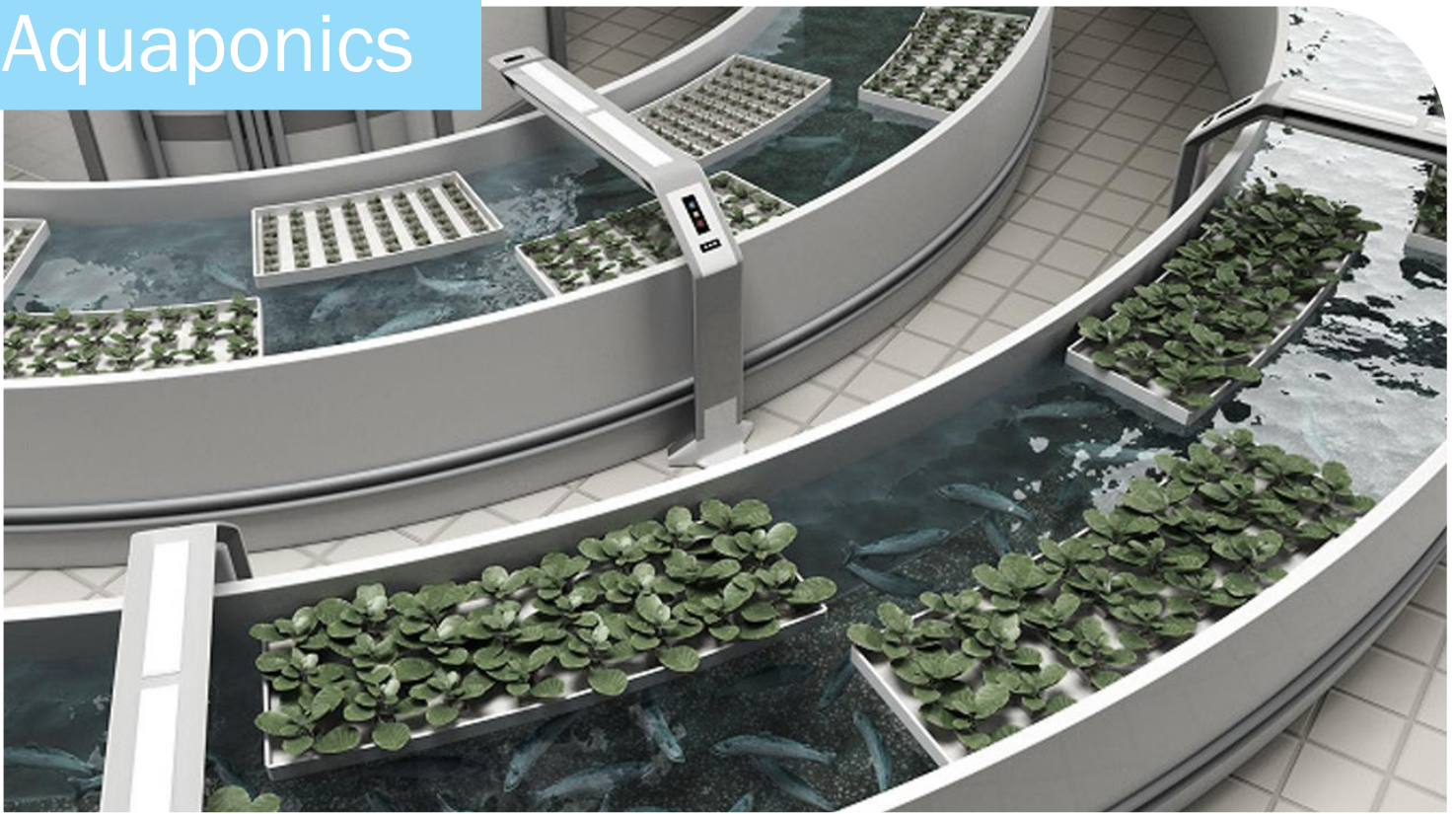


Less Labor-
Intensive
Work



Reduce
Pesticide

Aquaponics



HYDROPONICS+ / AQUAPONICS

Aquaponics is a combination term for combining Aquaculture and Hydroponics, where growing plants without soil by using mineral nutrients enriched using fish waste in water. It has been proven to be an organic and closed-loop ecosystem to be a sustainable agriculture practice, using 90% less water and organic nutrients are preserved in the recirculating system compared to traditional farming. Through Aquaponics, the reliability of crops is increased, and it allows you to breed fish in a clean environment, making our food safer, cleaner, and trustworthy.



In comparison to Hydroponics system, the waste sewage is treated to convert into plant nutrients. Aquaculture System is based on RAS (Recirculating Aquaculture System) which provides periodic cleaning to fish life and healthy medium to grow without any disease or pathogens. This combination of Technology helps to remain profitable even crops are out of season or in between grow cycle. Our products and services are for installation to marketing. We provide informative as well as practical knowledge and support to run soil-less farm sustainably like standard procedures for all steps of growing, technical support to training your farm operator.

We provide Fish, Fish feed, saplings seeds for Aquaponics. Our Automation system collects data such as pH, Water Temp, Temperature, Humidity etc. to use data to control Pumps, Misting, Dripping, Fans, Lights, and Fish feeding ratio.

Initial Capex (one time investment): Greenhouse, Irrigation system (NFT, DWC, Dutch Bucket), electrical system to control and Aquaponics operational equipment and Fish.

Hydroponics Fodder



ISRAEL model hydroponic tray system is designed to grow microgreens or sprouts which can either be used for cattle consumption or human consumption. It uses controlled climatic condition suitable for sprouting seeds into highly nutritious fodder made available within 10 days. It helps us to reduce fodder price for cattle along with water consumption to grow, compared to traditional ways. For Example, to grow 50 kgs of daily fodder requires 100 sq. feet of area while using vertical farming.

- For Cattle we can grow Maize, Wheat, Radish, Beet
- For Human we can grow Wheat Grass, Radish, Sunflower, Beet, Spinach, Chickpea, Moong

Initial Capex: Fodder Tray, ShadeNet enclosure or Indoor controlled room, Fertigation system or Fogger System, Timer control



Contact

Contact Person: Shashank Choubey

Address: Vatodar Green Waterfarms

Tower 8, Sundarbaug Towers

Makarpura Road Opp. Hazira

Pratap Nagar Vadodara.

Email: vatodargreenwaterfarms@gmail.com

Mobile: +91-9974204501

Website: <https://www.vgwfs.com/>