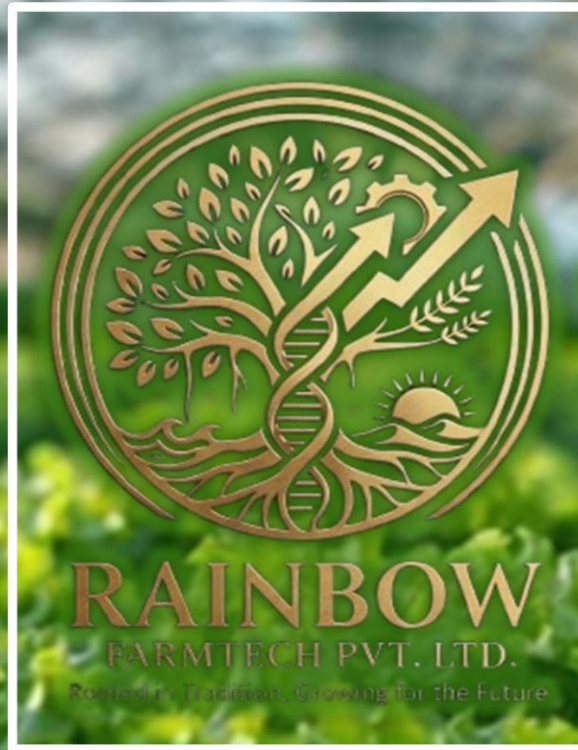




15 th years Pioneering the Next Era of Shielded Agriculture.

We are Rainbow Farm Tech Pvt.Ltd.

Rainbow Farm Tech is an Indian agricultural and horticultural company that specializes in **Open field and protected cultivation infrastructure and Agri – products Supply Chain**. Established in **2009**, the firm is headquartered in **Gujarat**, and operates as a manufacturer, supplier, and exporter. It focuses on helping farmers transition from traditional open-field and High-tech farming, Organic farming, Special Product farming, Contract farming, Convertible Agri Products, National and International supply Chain, controlled environment agriculture to optimize crop yields. envisioned to help in accelerating the transition to Sustainable Food and Agriculture which ensures Food Security, creates Economic and Social Opportunities, and protects the Ecosystem on which Agriculture depends In India.

- **Revenue Streams:** How the company makes money (e.g., Agri Export Supply, Market contract margins, De mate subscriptions, Products contract farming, Investors Brand Partnership, Service Providing Income.
- **Strategic Partners:** Collaborations with agricultural universities, government bodies, NGOs, or banks,Cmpnpays. International supply chain, Districts and Tehsil Franchise,
- **Key Achievements:** Major milestones, awards, or certifications received to date.

Executive Summary

- **Direct Purpose:** Brief overview of your mission to enhance farmer wealth and modernize agriculture.
- **Core Offerings:** Quick mention of your primary products, services, or technology platforms.
- **Target Market:** The specific regions, types of farmers, or supply chain partners you serve.
- **Value Proposition:** How your company uniquely solves agricultural inefficiencies and increases rural income.

“Sustainable innovation for safe agricultural advancement.”

Our Services



Our Extra Services : Green Energy Infrastructure (Solar – Tulip Wind Turbine, Bio Diesel, Bio Gas, Bio Coal, Organic farming, Natural fertilizer, Farmers OTT Channels, Digital Media Marketing, Farmers welfare Group, Agri Tourism, Kisan seva kendra. Government subsidies turn key projects, High tech agriculture products, Agri mechanism, Fully atomization Kitchen garden and many More...

we have an incredibly diverse, multi-tiered ecosystem that spans corporate management, local franchise distribution, specialized agronomy, supply chain logistics, financial institutions, and grassroots agricultural producers. To help you optimize, manage, or communicate with this large network, it helps to understand how these stakeholders interact. Here is a breakdown of how your manpower structure functions as a complete agricultural value chain:

Strategic & Administrative Core

- **Corporate Office Staff:** Manage global strategy, branding, compliance, and core operations.
- **Govt. Service Supporters:** Navigate regulatory frameworks, agricultural subsidies, and policy compliance.
- **Bankers:** Provide the necessary capital, agricultural loans, credit lines, and financial structuring.

Distribution & Scale Network

- **District Franchise:** Act as regional hubs, overseeing macro distribution and local market penetration.
- **Tehsils (Tehsil) Franchise:** Drive hyper-local execution, managing sub-district logistics and direct community relationships.
- **New Entrepreneurs:** Inject innovation, localized investment, and agile growth into the franchise network.

Technical & Production Foundation

- **Agronomists:** Provide the vital scientific backbone, ensuring crop health, soil quality, and high yields.
- **Farmers:** Serve as the massive primary workforce, driving the actual cultivation and physical production.

Supply Chain & Market Execution

- **Vendors:** Supply raw inputs like seeds, fertilizers, specialized machinery, and tech tools.
- **Packers:** Handle post-harvest processing, sorting, quality control, and retail-ready packaging.
- **Buyers:** Represent the ultimate revenue drivers, including wholesalers, exporters, and retail chains.

We success with your sprawling multi-tier ecosystem, **Rainbow Farm Tech Pvt.ltd.** (based of Gujarat) is exceptionally well-positioned to leverage its strengths in Digital awareness **protected cultivation, high-tech infrastructure, and high-value crop supply chains and hard worker new entrepreneurs with govt.support platforms.**

Vision, Mission, and Core Values :

- **Vision:** The long-term future you want to create for farming communities "To build a climate-resilient, prosperous rural economy".
- **Mission:** Your daily commitment "To provide farmers with high-quality inputs, fair market access, and tech-driven advisory services to double their (Farmer's) net income".
- **Core Values:** Integrity, Sustainability, Innovation, Farmer-Centricity, and Inclusivity.

Products and Services :

- **Agricultural Inputs:** Supply of certified seeds, organic fertilizers, and eco-friendly crop protection.
- **Farmer Advisory & Training:** Capacity-building programs, soil testing, and modern agronomy training.
- **Technology & Smart Farming:** IoT tools, mobile apps for weather forecasting, or precision farming equipment.
- **Market Linkages & Supply Chain:** Post-harvest management, cold storage facilities and direct-to-market buy-back programs.
- **Financial Inclusion:** Micro-loans, crop insurance assistance, or financial literacy programs designed for farmers.

Socio-Economic Impact Metrics :

- ✓ **Farmers Impacted:** Total number of smallholders engaged or registered.
- ✓ **Income Growth:** Average percentage increase in farmer household income.
- ✓ **Yield Improvement:** Average boost in crop productivity per acre.
- ✓ **Sustainable Land Use:** Acres of land converted to organic or climate-smart practices.

Contract Farming: eligible for exemption under the Income Tax Act :

Under Indian tax laws, agricultural income is completely exempt from central income tax various under Section of the Income Tax Act. Contract farming investors can claim this exemption, provided the returns derive directly from agricultural land through basic farming operations and qualify as agricultural income.



Contract Farming

Contract farming is an agreement between Investors, farmers and Rainbow farmtech Pvt.Ltd. where production and marketing are governed by a forward contract. The buyer typically provides seeds, fertilizers, and technical assistance, Agronomist guideline while the farmer agrees to supply specific agricultural products at predetermined prices, quantities, and quality standards and Timely service Providing and Insure the Farm.

Price Guarantee: Farmers are shielded from fluctuating market prices, ensuring a stable, predetermined income.

Access to Inputs: Companies often provide pre-financing, high-quality seeds, and essential technology to boost yields.

Reduced Wastage: The elimination of middlemen and direct logistics management reduces post-harvest loss.

Managements Marketing: Exact price, required quality standards, and volume or acreage minimums.

Resource Provision: Credit terms, input delivery mechanisms, and required cultivation practices.

Produce Management: Delivery schedules, transportation responsibilities, and protocols for crop rejection or inspection.

Faithful Farming : Connecting to the agribusiness organization Faithful Farming, they focus on agricultural land and crop care management, Crop Protecting, High-tech Irrigation, Grading, Packing, Manpower managements and yield expansion.

Crop Insurance : Protects against yield loss due to drought, floods, hailstorms, pests, and unseasonal rainfall. Farmers pay subsidized uniform premiums: crops, and commercial/horticultural and Specialized crops.

- Pre-agreed pricing.
- Minimum support price or market-linked pricing.
- Quality and grading standards.
- Quantity commitments.
- Delivery timelines.
- Farming Insurance.

Investors : Investing in agriculture offers robust financial protection because food is an essential, recession-proof commodity. Investors benefit from **steady passive income, long-term asset appreciation**, and **portfolio diversification**. It acts as an excellent hedge against inflation, directly backed by a tangible and increasingly scarce resource

Digital - Farm to Farmers

We promote the digitization of agriculture through the innovative use of satellite-derived data and a blend of modern technologies like Machine Learning , Artificial Intelligence (AI), and big data analytics to solve large-area challenges in agriculture, banking, fintech, and insurance firms around the world. We do precision agriculture with our Selected farmers. By the mobile information from the Connect your field's boundary either manually or by physically walking its perimeter, then select your crop and sowing date to access real-time satellite insights. Analytics, we delivers satellite-based precision agriculture insights straight to your smartphone. You can utilize the following features for your farm:

- **Soil Health Reports:** Instant, satellite-based estimates for soil macronutrients (NPK), pH, and organic carbon without needing physical soil samples.
- **Crop & Health Monitoring:** Advanced algorithms track your crops, detecting early stress from droughts or diseases.
- **Image-Based Advisory:** Upload photos of visually stressed plants to receive precise expert advice on pest control and disease management.
- **Irrigation & Weather:** Optimize your water usage with 14-day localized weather forecasts and precise irrigation advisories tailored to your specific Soil moisture. Do, Crop Calenderers for Cropping Cycle and Crop Care.
- **Build Multi Vendor Marketplace :** Our multi-vendor marketplace for farming products digitally connects agricultural stakeholders—farmers, cooperatives, input suppliers, and buyers—on a unified platform. These platforms centralize product discovery, real-time price comparisons, and order management, while vendors independently handle inventory, logistics, and order fulfillment:
- **low-cost agronomy services :** Online Individual agricultural consultants in and around the Local area offer customized soil health, crop planning, and cost-effective production planning .Yearly Packages for service.

We are pioneering Agri-tech company that leverages the potential of satellite data, advanced technology, and machine learning to provide innovative Software as a Service solutions. Our aims to democratize satellite-based precision agriculture for farmers and stakeholders worldwide. With a global presence, Our Analytics has successfully introduced groundbreaking digital farming solutions in Many Stats in India. Their cutting-edge platform, has transformed over large numbers of acres of farmland across many more crops. Designed to deliver near real-time actionable insights, Our Service both a mobile application and a web platform, ensuring users can access the solution that best aligns with their agricultural requirements. This commitment to user-friendly and adaptable products underscores we dedication to catering to the diverse needs of agriculture ecosystem in various contexts banking, insurance, and supply chain.

Protected cultivation

Protected cultivation is a modern farming technique where crops are grown in a fully or partially controlled microclimate using specialized structures to shield them from harsh weather, pests, and diseases.

In Indian farming, it represents a shift from weather-dependent agriculture to precision-driven, climate-resilient agribusiness. This approach helps farmers mitigate climate risks and meet the growing demand for high-quality food.

Core Structures Used in India

- **Poly houses:** Arched frames covered in transparent plastic sheets. Naturally ventilated variants balance cost and efficiency well, making them the most popular choice across India.
- **Greenhouses:** Highly durable glass or polycarbonate structures providing advanced insulation and total environment regulation.
- **Shade Net Houses:** Framed structures covered in perforated plastic nets. They lower heat intensity and are excellent, low-budget options for hot regions.
- **Plastic Tunnels:** Low, semicircular structures placed over crop rows. They protect early-stage crops from frost and rain.

Major Benefits for Indian Agriculture

- **Climate Resilience:** Shields crops from unpredictable monsoons, heatwaves, frost, and hailstorms.
- **Higher Yields:** Optimized growing conditions boost productivity up to 3 to 5 times compared to traditional open fields.
- **Resource Efficiency:** Drip irrigation and fertigation systems reduce water and nutrient consumption by up to 50%.
- **Off-Season Farming:** Allows year-round harvesting, enabling farmers to sell produce when market prices peak.
- **Fewer Pesticides:** Physical barriers drastically reduce pest infestations and weed growth, lowering chemical dependencies.

Ideal Crops for Protected Farming

Indian farmers primarily target high-value, low-volume crops to maximize their financial return on investment:

- **Vegetables:** Colourful bell peppers (capsicum), cherry tomatoes, seedless cucumbers, and premium leafy greens.
- **Flowers:** Export-quality roses, gerberas, carnations, and orchids.
- **Fruits:** Premium fruits like strawberries and blueberries

To counter this, the Government of India actively promotes the practice through subsidies under the Mission for Integrated Development of Horticulture (MIDH) and the National Horticulture Board (NHB). These initiatives **provide up to 50% financial assistance on infrastructure installation** to help small and medium-scale farmers adopt the technology



Implementation Guide :

- 1.Site Selection:** Ensure access to clean water, reliable electricity, and a clear path to local or wholesale markets.
- 2.Soil and Water Testing:** Test electrical conductivity (EC) and pH levels to avoid soil-borne diseases.
- 3.Structure Erection:** Hire certified structural agencies to ensure the frame can withstand regional wind loads.
- 4.Automation Setup:** Install drip irrigation pipes, foggers, and fertigation tanks for precise nutrient delivery.
- 5.Crop Cycle Planning:** Time your planting so your harvest hits the market during the off-season for maximum pricing power.

**₹40-60 LAKH INVESTED,
BUT THIS ONE CHOICE
DECIDES YOUR ROI.**
3 CHECKS BEFORE YOU CHOOSE
A POLYHOUSE CROP



Your Success is our value.



Major Mistakes That Ruin Poly house Ventures :

- **Using Cheap, Uncertified Materials:** To save money, some farmers use local, non-galvanized iron (GI) pipes or cheap plastic covers. If the plastic lacks proper **UV-stabilization**, it will degrade under the hot sun within 12 months, causing structural collapse during monsoon winds.
- **Ignoring the Market Timeline:** Flooding the market with cucumbers when open-field farmers are also harvesting crashes your profit margins. Your crop cycle must be precisely timed so you harvest during peak **off-season pricing**.
- **Failing to Test Water Quality:** Poly houses rely entirely on drip irrigation and fogging systems. If your borewell water has a high salt content (high Electrical Conductivity) or a bad pH level, it will clog the nozzles and stunt crop growth.

Why high tech agriculture is only success by agronomist guidelines in India ?

High-tech agriculture in India succeeds only under agronomist guidelines because it requires precise management of expensive, climate-sensitive technologies that traditional farming methods cannot handle. Without expert scientific guidance, Indian farmers face high risks of crop failure and massive financial losses due to improper resource allocation and technological mismanagement.



High-Tech Farming Fails Without Agronomists :

- High Capital Risk:** Modern setups like hydroponics, poly houses, and vertical farming require heavy initial investments. Mistakes in nutrient balancing or climate control can instantly destroy an entire harvest.
- Precision Input Control:** High-tech farming leaves zero room for error regarding water pH, electrical conductivity (EC), and micro-nutrients. Agronomists provide the exact chemical formulas needed for daily adjustments.
- Localized Climate Challenges:** Indian weather features extreme heat, unpredictable monsoons, and high humidity. Agronomists help calibrate automated greenhouse sensors to handle these specific local variations.
- Pest and Disease Vectors:** Controlled environments can become breeding grounds for unique pests if humidity and ventilation are mismanaged. Agronomists design strict biosecurity and integrated pest management (IPM) protocols.
- Data Interpretation:** High-tech farms use IoT sensors, drones, and automated irrigation systems. Farmers need agronomists to translate raw digital data into actionable daily farming decisions.

- **Feasibility Studies:** Analyzing local water quality and solar radiation before a single structure is built.
- **Customized Nutrient Recipes:** Designing crop-specific feeding charts tailored to different growth stages (vegetative vs. flowering).
- **Climate Automation Tuning:** Programming automated misting, shading, and cooling pads to maintain optimum vapor pressure deficit (VPD).
- **Market-Aligned Scheduling:** Timing harvests scientifically to hit off-season market windows when crop prices peak in India.

Advanced Agricultural Implements :

One of the crucial elements in empowering Indian farmers is the adoption of Advanced Agricultural Implements. Traditional farming methods often involve manual labor, leading to increased costs and reduced efficiency. By introducing modern agricultural implements like reapers, rotavators and seeders, farmers can streamline their operations, reduce labor requirements, and increase productivity. These implements can significantly decrease the overall farming costs, including labor expenses, while boosting output and profits. Moreover, advanced agricultural implements can enable farmers to optimize irrigation, minimize crop damage, and implement precision farming techniques, enhancing overall crop quality.

Access to Information and Technology :

Providing farmers with access to reliable information and technology is vital for their empowerment. With the widespread availability of smartphones and internet connectivity, farmers can access real-time weather forecasts, market prices, and agricultural best practices. Mobile applications and online platforms can serve as valuable resources, offering guidance on crop management, pest control, and Soil Health. Additionally, the integration of Internet of Things (IoT) devices in agriculture allows for data-driven decision-making, enabling farmers to monitor soil moisture, temperature, and other critical parameters remotely. This information empowers farmers to make informed choices, leading to improved productivity and profitability.

Financial Inclusion and Credit Facilities :

Access to affordable credit is a significant challenge faced by Indian farmers. Lack of financial resources often limits their ability to invest in modern equipment, purchase high-quality seeds, and adopt advanced farming techniques. Empowering farmers through financial inclusion initiatives, such as providing low-interest loans and crop insurance, can alleviate their financial burdens and mitigate risks associated with crop failure or natural disasters. Collaborations between financial institutions, government agencies, and agricultural cooperatives can ensure that farmers have easy access to credit facilities and receive adequate support to enhance their farming practices.

Farmer Education and Training Programs :

Promoting farmer education and training programs is crucial for empowering Indian farmers. Agricultural universities, extension services, and non-profit organizations play a significant role in imparting knowledge about modern farming practices, resource management, and market trends. By equipping farmers with the necessary skills, they become better equipped to handle challenges and make informed decisions. These programs can focus on introducing sustainable farming techniques, organic farming practices, and the efficient use of fertilizers and pesticides. By enhancing their knowledge base, farmers can adapt to changing agricultural landscapes and improve their productivity.

Market Linkages and Infrastructure Development :

The absence of efficient market linkages and inadequate infrastructure often leads to exploitation of Indian farmers. Empowering farmers requires establishing robust market networks that connect them directly with buyers, eliminating intermediaries and ensuring fair prices for their produce. Farmer producer organizations and cooperatives can play a pivotal role in negotiating better deals and collectively marketing their products. Furthermore, investment in rural infrastructure, including storage facilities, cold chains, and transportation networks, is vital to minimize post-harvest losses and enable farmers to reach wider markets.

FAN & PAD GREENHOUSE

A "fan & pad" cooling system is most popular mechanical cooling method for greenhouse. During summer, the temperature can be reduced 5 to 15 degrees & in winter it protects your crops from cold and maintain humidity.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	8 mtr	4 mtr	4.5 mtr	6 mtr	NA	NA

APPLICATION: Hydroponics, Aquaponics, Exotic Vegetables, Exotic Fruits, Temperate Fruits & Flowers, Tissue Culture, Mist Chamber



NATURALLY VENTILATED GREENHOUSE

Naturally Ventilated greenhouses effectively save energy by managing shade, temperature and humidity. By utilizing the hot air differential pressure, warm air is kept at the top, reducing temperature & humidity levels ideal for flowers & crops requiring lower humidity. This design is widely adaptable & suitable for use worldwide.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	8 mtr	4 mtr	4 mtr	6.8 mtr	1mtr	3 mtr

APPLICATION: Exotic Vegetables, Ornamental Plants, Medicinal Plants, etc.



DOME SHAPE NET HOUSE

Shade Net houses provide excellent cross ventilation and growth for various vegetable crops, including tomatoes, capsicum & cucumbers, as well as flowers and ornamentals. They offer adjustable shade percentages for different crops & protect against hail, excessive sunlight & wide range of insect attacks.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	8 mtr	6 mtr	4 mtr	5.5 mtr	NA	NA

APPLICATION: Exotic Vegetables & Nursery Holders



WIRE ROPE NETHOUSE

This type of net house is a low-cost solution and helps to extend the growing season or permits off-season production by way of controlling light, temperature, humidity, carbon-dioxide level and nature of root medium. This is low-cost design.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	8 mtr	6 mtr	4 mtr	4 mtr	NA	NA

APPLICATION: **Mainly Use For Nursery Holders & Exotic Vegetables, Fruit orchards, Extra large size structures**



FLAT TYPE NETHOUSE

A flat net house structure is a light-weight frame with poles and cables that support the net & air vents are covered with nets, or all the greenhouse walls are made of nets that are used to protect crop from insects & weather damage. This is cheaper in compare to dome type nethouse.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	6 mtr	4 mtr	4 mtr	4 mtr	NA	NA

APPLICATION: **Exotic Vegetables & Nursery Holders**



SPANISH TUNNEL

This type of multi span tunnels are used mainly for berries cultivation. This structure allows maximum ventilation and protects crop from direct sunlight and rain.

DESCRIPTION	Span	Bay	Gutter Height	Top Height	Top Vent	Side Vent
PARAMETER	8 mtr	4 mtr	3 mtr	5 mtr	NA	OPEN

APPLICATION: **Mainly for Blueberry, Raspberry, Banana, Figs etc.**



SOILLESS & COCOPEAT MEDIA PROJECT

ABOUT

Cocopeat is a renewable and sustainable material that is made from coconut husk. It has many benefits over traditional soil and can be used to create a cocopeat growbag turnkey project.

The cocopeat growbag turnkey project is the perfect solution for greenhouses where there is no access to soil or for people who want the benefits of cocopeat but don't have the time or money to put into a full-scale project. The cocopeat growbag is made up of 100% cocopeat and has the ability to store water, air and nutrients for plants.

BENEFITS

- Does not require any digging & heavy preparations.
- It is an eco-friendly material, easy to install in any type of non-fertile land.
- As it can be easily wet and re-wet, a grow bag absorbs water readily and has a water holding capacity of 77%.

COCOPEAT CULTURE PROJECT TYPES:

- ✓ Grow Bags
- ✓ Grow Slabs
- ✓ Through Beds



COMPARISON BETWEEN GROWING IN SUBSTRATE & SOIL

FEATURES	SUBSTRATE	SOIL
Root zone space	Limited to the substrate Volume	Unlimited
Available water	Limited by the substrate volume and water capacity	Dependent on soil type
Irrigation water tension	15-20 mili-bar	20-50 centi-bar
Nutrition	NPK + micro elements	NPK
EC & pH	Can be controlled	Uncontrollable
Irrigation system	Dense and precise	Standard
Nutrition system	Relative and controlled*	Standard

HYDROPONICS

Hydroponics is a type of agriculture that does not require soil. It has the potential to grow plants in an efficient and sustainable way.

Hydroponic System uses water solution as the nutrient for plants, that means it can be used to grow any plant all year round. In addition, hydroponic uses less water than traditional farming methods because the water is recycled in a closed system.

Benefits :

- ✓ Require less space than traditional farming methods
- ✓ Plant can grow with up to 98% less water than traditional growing methods
- ✓ You can control your own micro-climate in hydroponic

Hydroponic Types :

- ✓ Flat Beds
- ✓ A-Frame
- ✓ Indoor Set-Up
- ✓ DWC (Deep Water Culture)
- ✓ Dutch Buckets
- ✓ Aquaponics



IoT & AUTOMATION SYSTEM

This is a climate and irrigation control computer system for greenhouse growers for flowers and vegetable crops. This program can control the heating and cooling of the water and air in different zones. You can control the temperature and humidity levels during day and night, as well as CO₂ systems. You can apply adequate nutrient solutions with scientific technology.

Smart Farming offers real-time and precise insights into several natural process analytics in the Greenhouse industry. Greenhouse using IoT nurtures sustainable farming businesses that enhance benefits for greenhouse owners, farmers, private institutions, and government organizations, Agriculture Universities, seed development companies etc.

Our Automation System Includes:

- ✓ IoT System with Weather Station
- ✓ Climate & Fertigation System
- ✓ Fogging & Misting System for Moisture Control
- ✓ Auto Sliding Net Operation
- ✓ Auto Side Curtain Operation
- ✓ Air Circulation Fans Control





SUGGESTED CROPS Which Gives You ROI UPTO 45% in Greenhouse



COLORED CAPSICUM



CUCUMBER



CHERRY TOMATO



BROCCOLI



LETTUCE



ZUCCHINI



GERBERA



CARNATION



GYPSOPHILA



DUTCH ROSE



ORCHID



CHRYSANTHEMUM



BLUEBERRY



MUSK MELON



STRAWBERRY



TURMERIC



ANTHURIUM



LILIUM

IoT (INTERNET OF THINGS)

OF SOIL AND CLIMATE

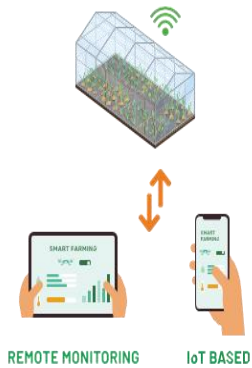
the help of IoT in the greenhouse, lighting intensity, temperature, humidity & carbon levels are measured and studied through electronic and environmental sensors & data. The stored data is also accessible through the Cloud.

IMPROVE CROP GROWTH

collected data to predict suitable crop variations for the season and ideal planting times.

PEST POPULATION TO ELEVATE FARM PRODUCTION

IoT Smart Farming with pest management strategies, you can take control



PROTECTION FROM:



AGRONOMY

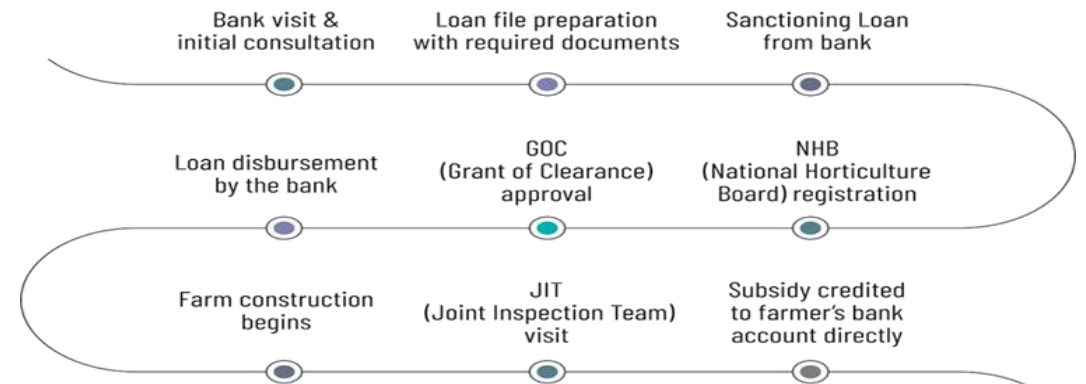
Technology alone is not enough without the right crop knowledge. Our agronomy support combines scientific expertise with practical field experience to guide farmers at every stage of crop growth. From crop planning and soil preparation to nutrition management, pest control and harvesting, our agronomists provide customized solutions based on crop type and local conditions.

Our Agronomy Services Include:

- ✓ Crop selection & planning guidance
- ✓ Disease & pest management support
- ✓ Fertigation & nutrient management plans
- ✓ Regular crop monitoring & advisory
- ✓ Soil & Water Analysis
- ✓ Maximum yield & profitability



SUBSIDY PROCESS



GATE TO GLOBAL MARKET

- 📍 NETHERLANDS
- 📍 UNITED STATES OF AMERICA
- 📍 MIDDLE EAST COUNTRIES
- 📍 AUSTRALIA
- 📍 SINGAPORE
- 📍 RUSSIA
- 📍 UAE



Innovating the Future of Protected Cultivation.

HYDROPONICS



Aquaponics, -The Future of Growing for Future Farms

Why Hydroponics Is Better Than Soil Farming ?



Hydroponics uses less nutrient material to feed their plants; these exist within a self contained environment that can easily control the waste products. This is much better, as prevents excessive use of fertilizers unlike in the traditional farming where more fertilizers are used, and end up flowing into the rivers and spoiling the water to be used by the humans and the animals.

Hydroponics calls for less amount of water and nourishment; in the hydroponics system less water is used since the required water is supplied in fixed proportions and a controlled environment, furthermore, water is recycled in this system. This is very advantageous compared to irrigation where much water is wasted without recycling or in the traditional farming methods. This also reduces the farmers water cost hence lowering the production costs.

No soil is needed in this system; and it only uses 10 percent of the water used on the ordinary planting. Furthermore, the plants grown on this method have a higher growth rate compared to the normal planting. The faster growth is contributed by a highly controlled environment with the availability of more oxygen, water and nourishing substances for the plants.

Large amounts of foods can be grown in small plots of land; this system requires only a small plot of land since the hydroponics produce faster growth of plants. The areas produce more foods per acre plot of land than the normal farming. Hydroponics can be produced at any season since they grow into their own controlled environment which is controlled and protected from predators like plant eating animals.

- Less amount of time and work is required in hydroponics gardening; the amount of work needed is very little due to the absence of the weeds that would require time to pluck them out. This method is time saving since no weeds are present only some few minutes are needed to check the nutrient levels and the harvesting processes.

- Hydroponic is easy to develop in strategic places; this means that the hydroponics crops can be grown close to the market area; therefore, reducing the cost that could have been used in transportation and these automatically reduces the production costs, hence increasing the gardener profits.

- Hydroponics provides the exact needs to the plants appropriately; this means that plants will grow fast depending on their genetics and compared to a plant grown to the normal soil, hydroponic plants grow faster and they appear to be much healthier.



Hydroponic Agriculture

The hydroponic agriculture capital-intensive nature of this technology is the major impediment in its early adoption by willing entrepreneurs. The cost of setting up HP setup/sqm is close to Rs 3200. With this rate, the cost of setting up an HP plant for 1 Acre is close to Rs 1.5 cr.

- Vertical NFT system
- Aeroponic system

Economics

The hydroponic agriculture capital intensive nature of this technology is the major impediment in its early adoption by willing entrepreneurs. The cost of setting up HP setup/sqm is close to Rs 3200. With this rate the cost of setting up HP plant for 1 Acre is close to Rs 1.5 cr.

Apart from that it needs trained labor and proper vigilance for its successful execution. In addition, the potential of this technology to use less water for growing crops in a eco-friendly manner (less use of pesticides, etc.), this can fetch great returns in the market.

Hydroponic farming in a poly house:

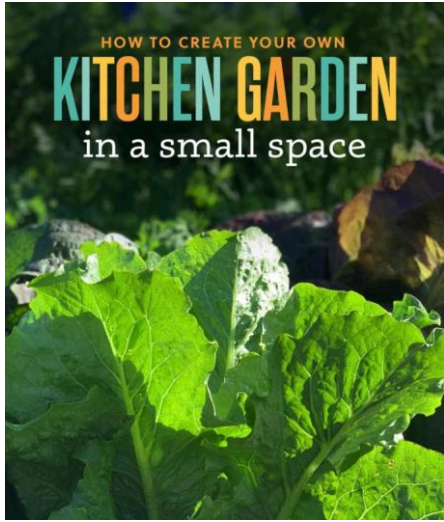
Hydroponic farming in a poly house is a method of growing plants using a soil-less system and control environment. In this method, plants are grown in a nutrient-rich solution instead of soil, and the environment is carefully monitor and adjust crops that can be cultivate using hydroponic farming in a poly house:

Poly houses are structures made of transparent material, such as glass or plastic, that allow natural light to enter and trap heat inside. Further more, this creates a microclimate that protects plants from harsh weather conditions and provides a control environment for growth.

- 1.Lettuce:** Lettuce is one of the most popular crops grown using hydroponic farming in a poly house. It grows quickly and can be harvested within a few weeks. Lettuce also requires less space than other crops, making it an ideal choice for poly house cultivation.
- 2.Tomatoes:** Tomatoes are another popular crop that can be grown using hydroponic farming in a poly house. They require a nutrient-rich growing medium and proper support for the vines. Hydroponic farming makes it easier to provide the right nutrients and support for the plants, resulting in a higher yield.
- 3.Cucumbers:** Cucumbers are a warm-weather crop that can be grown successfully in a poly house using hydroponic farming. They require a lot of water and nutrients, which can be easily provided using a hydroponic system.
- 4.Strawberries:** Strawberries are another crop that can be grown using hydroponic farming in a poly house. They require a lot of light and a nutrient-rich growing medium. Hydroponic farming allows for precise control over the light and nutrient levels, resulting in healthier and more productive plants.
- 5.Herbs:** Herbs such as basil, parsley, and cilantro can be grown successfully using hydroponic agriculture in a poly house. Further more, They require less space and can be harvest multiple times, making them a popular choice for indoor farming.

TENTATIVE PROJECTION FOR 1 ACRE		COLOURED CAPSICUM 	CUCUMBER 	TOMATO 
I N C O M E	Plant Population	10,000 plants	10,000 plants	10,000 plants
	Production Per Plant	2.8 kg/Season	5 kg/Season	14 kg/Season
	Plant's Life	8 Months	4 Months (2.5 Seasons/Year)	8 Months
	Production / Year	28,000 kg	1,25,000 kg	1,40,000 kg
	Average Rate Per Year	₹ 100 / kg	₹ 25 / kg	₹ 18 / kg
	TOTAL INCOME	₹ 28,00,000/-	₹ 31,25,000/-	₹ 25,20,000/-
E X P E N S E	Plants Cost	1,20,000	2,20,000	80,000
	Labour (400 per day)	3,84,000	4,80,000	3,84,000
	Fertilizer & Pesticides	3,40,000	4,40,000	2,80,000
	Electricity	30,000	40,000	30,000
	Packaging & Transportation	2,30,000	3,45,000	3,00,000
	Maintenance & Supervision	1,50,000	1,50,000	1,50,000
	TOTAL OPERATING COST	₹ 12,54,000/-	₹ 16,75,000/-	₹ 12,24,000/-
	NET PROFIT/YEAR	₹ 15,46,000/-	₹ 14,50,000/-	₹ 12,96,000/-

TENTATIVE PROJECTION FOR 1 ACRE		GERBERA 	DUTCH ROSE 	ORCHID 
I N C O M E	Plant Population	24,000 plants	32,000 plants	40,000 plants
	Production Per Plant	40 Nos/year	21 Nos/year	10 Nos/year
	Plant's Life	3-4 Years	4-5 years	7-8 years
	Production / Year	9,60,000 Nos	6,72,000 Nos	4,00,000 Nos
	Average Rate Per Year	₹ 4 / Nos	₹ 6 / Nos	₹ 14/ Nos
	TOTAL INCOME	₹ 38,40,000/-	₹ 40,32,000/-	₹ 56,00,000/-
E X P E N S E	Plants	2,50,000	1,80,000	2,50,000
	Labour (400 per day)	4,32,000	4,32,000	2,88,000
	Fertilizer & Pesticides	3,50,000	4,90,000	2,20,000
	Electricity	1,20,000	1,20,000	2,80,000
	Packaging & Transportation	5,20,000	5,80,000	4,00,000
	Maintenance & Supervision	1,50,000	2,50,000	2,00,000
	TOTAL OPERATING COST	₹ 18,22,000/-	₹ 20,52,000/-	₹ 16,38,000/-
	NET PROFIT/YEAR	₹ 20,18,000/-	₹ 19,80,000/-	₹ 39,62,000/-



➤ Land Scap. ➤ Roof Top.



Kitchen garden

India needs kitchen gardens in Urban area to directly combat **high malnutrition rates**, ensure **pesticide-free food security**, and reduce **monthly household grocery expenses**.

Health and Nutritious :

- Fights Malnutrition: Provides direct access to micronutrients.
- Combats Hidden Hunger: Supplies essential vitamins and minerals.
- Guarantees Freshness: Eliminates nutrients lost during long transit.
- Promotes Organic Diet: Ensures zero chemical pesticide residues.

Economic Benefits :

- Lowers Food Costs: Reduces daily spending on vegetables.
- Cuts Transport Expenses: Eliminates fuel costs for market trips.
- Generates Extra Income: Allows selling surplus produce locally.
- Utilizes Kitchen Waste: Converts organic scrap into free compost.



Environmental and Social Impact :

- Shrinks Carbon Footprint: Reduces commercial food transportation miles.
- Improves Food Security: Secures food supply during market shocks.
- Optimizes Space: Utilizes empty backyards, balconies, and rooftops.
- Recycles Wastewater: Uses household greywater for safe irrigation.



Kitchen gardens are especially beneficial for families and babies because they guarantee chemical-free complementary feeding, foster healthy eating habits in children, and create a safe, educational bonding space at home.



A **fully automated home greenhouse for kitchen garden** is a self-regulating indoor or outdoor structure that uses smart technology, sensors, and actuators to grow food with **zero manual watering, lighting, or climate management**.

Core Components of an Automated Home Greenhouse

- Smart Controllers:** Acts as the brain using microcontrollers like Arduino, Raspberry Pi, or proprietary apps.
- Environmental Sensors:** Monitors soil moisture, ambient temperature, humidity, and sunlight levels in real time.
- Automated Irrigation:** Triggers drip lines, hydroponics, or aeroponics only when soil moisture drops.
- Climate Control:** Activates automated roof vents, exhaust fans, or misters when temperature peaks.
- Artificial Lighting:** Turns on full-spectrum LED grow lights automatically on cloudy days or indoors.
- Dosing Systems:** Pumps precise amounts of liquid organic nutrients into the water supply.

Advantages for Busy Families

Zero Maintenance: Plants thrive even if you travel for weeks at a time.

Maximum Yield: Optimized climate speeds up plant growth cycles by up to 30%.

Space Efficiency: Compact vertical setups can grow dozens of crops in a tiny 3x3 foot balcony.

Year-Round Growing: Allows you to grow winter greens during scorching Indian summers.

Baby Safe: Enclosed structures keep out stray animals, pests, and street dust entirely.

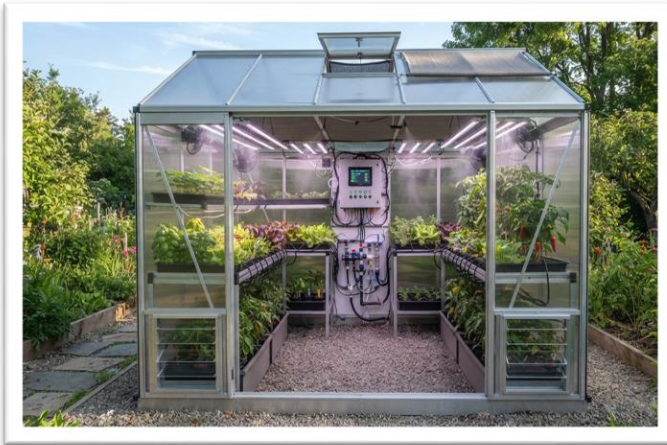


Integrating a kitchen garden into a daily routine offers a powerful, low-impact pathway for women's physical exercise and personal growth. It functions as a functional outdoor gym and a mental sanctuary.

Leadership Roles: Women often lead community garden initiatives, elevating their status to local decision-makers.

Kitchen gardens are highly valued by women and housewives in India because they provide direct **control over household nutrition**, grant **financial independence**, and offer a **therapeutic, creative space** right at home

"When a family grows its own food, it doesn't just change their kitchen—it transforms the entire neighborhood. A kitchen garden is a seed for social change."



A small, fully automated greenhouse transforms a kitchen garden into an effortless, year-round source of fresh food. By handling the daily chores of watering, venting, and lighting, it provides unique lifestyle, health, and practical advantages for every member of the household.

For Families :

- Year-Round Nutrition:** Provides continuous access to nutrient-dense microgreens, berries, and vegetables regardless of freezing winters or scorching summers.
- Living Science Classroom:** Offers a hands-on, engaging way for children to learn about biology, engineering, and sustainable technology.
- Chemical-Free Food:** Guarantees 100% organic, pesticide-free produce, giving parents complete peace of mind regarding food safety.
- Bonding Activities:** Creates a unique, clean, weather-protected space for weekend family planting and harvesting projects.

For Working Women :

- Zero-Maintenance Growth:** Eliminates the daily chore of manual watering and temperature monitoring, letting busy professionals travel or work long hours without losing crops.
- Effortless "Grocery Shopping":** Saves time on grocery trips by keeping fresh herbs, salad mixes, and quick garnishes just steps away from the kitchen.
- Stress Relief & Mental Wellness:** Functions as a serene, automated green sanctuary to unwind and decompress after a demanding workday.
- Guilt-Free Gardening:** Removes the common frustration of plants dying due to a busy, unpredictable schedule.

For Elders :

- Ergonomic Gardening:** Integrates automated waist-high raised beds and vertical shelves, completely removing the need for painful bending, kneeling, or heavy lifting.
- Physical Safety:** Eliminates heavy manual labor like hauling heavy watering cans, dragging hoses, or struggling with manual window cranks.
- Comfortable Climate:** Provides a weather-sheltered, temperature-regulated space to enjoy gardening hobbies safely without exposure to extreme heat, cold, or sudden rain.
- Therapeutic Engagement:** Offers a purposeful, rewarding daily routine of harvesting and propagation that keeps minds active and bodies moving gently.

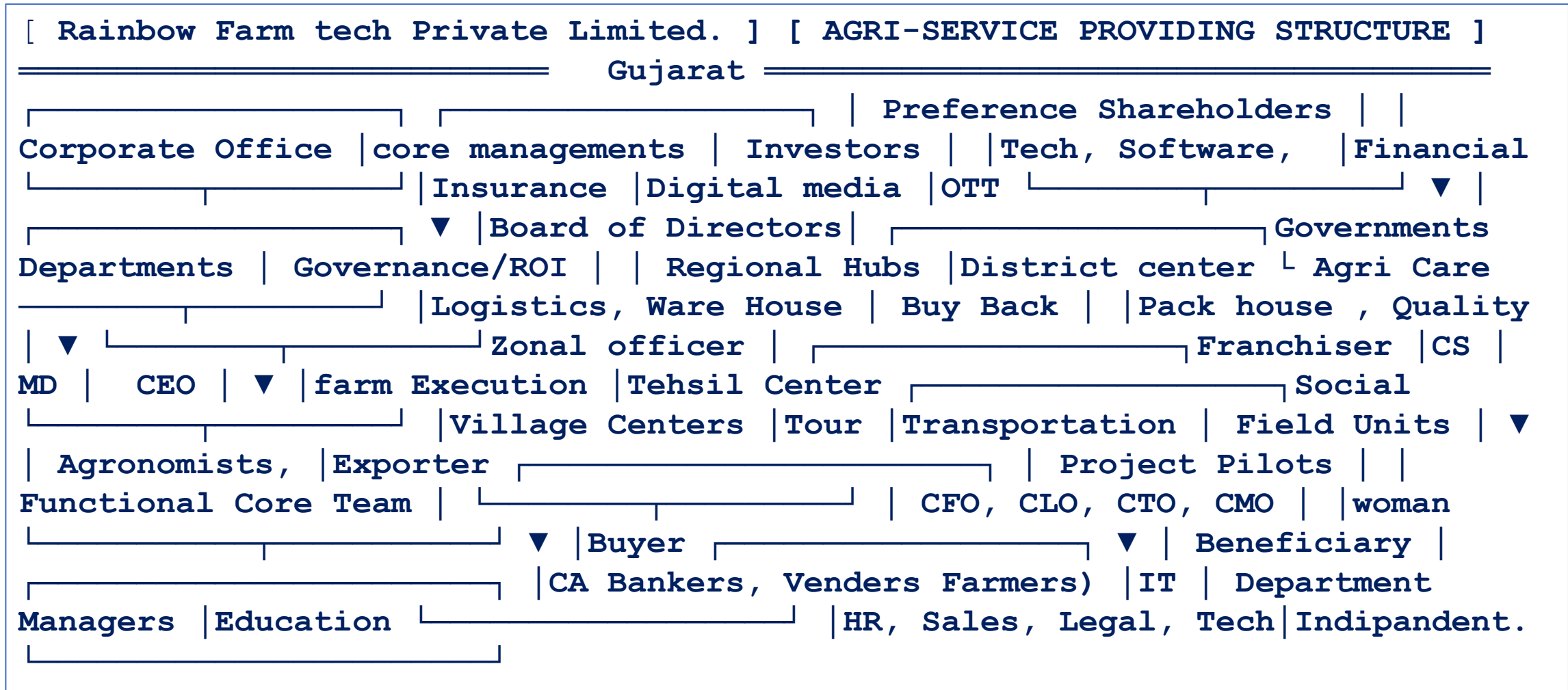




OUR TECHNICAL PARTNERS & ASSOCIATES



Corporate Management and Operational



Data & Infrastructure Flow: Mid-level **Department Managers** build and monitor the software platforms deployed at the **Regional Hubs** to track convertible inventory and crop logistics.



Dear Valued Farmer / Partners,

Welcome to the Future of Farming!

Subject: Invitation to Explore the Next Generation of Protected Cultivation Field.

At Rainbow Farm tech Pvt. Ltd., we believe that the backbone of our nation's prosperity rests firmly in your hands. For years, you have braved unpredictable weather, shifting climates, and market uncertainties to feed millions. Today, agricultural challenges are evolving rapidly - but so is the technology to conquer them.

We are thrilled to cordially invite you to experience our brand-new, state-of-the-art **New Generation Demonstration Field**. This field represents a monumental leap forward in protected cultivation. It has been meticulously engineered to give you absolute control over your crops, maximize your profits, and shield your hard work from the harsh elements of nature.

What Awaits You at the New Generation Field:

- **Advanced Climate Automation:** See firsthand how smart sensors automatically manage extreme summer heat and humidity.
- **Precision Nutrient & Hydroponic Setups:** Discover how to optimize water and nutrient intake to achieve up to 10x higher yields.
- **Next-Gen Structural Designs:** Explore heavy-duty, wind-resistant poly houses and shade nets built to last for decades.
- **Agronomist-Led Walkthroughs:** Meet our team of expert agronomists who will guide you step-by-step on how to manage these systems effortlessly.

High-tech agriculture is no longer a concept for the distant future—it is a practical, highly profitable reality available to you today. This exhibition is designed specifically to show you how easy it is to adopt these modern systems and secure stable, year-round income. Come join us, walk through the green zones, interact with our agricultural scientists, and take the first step toward future-proofing your business.

Event Details:

- **Venue:** Rainbow Farm tech Next-Gen Demo Field (Location/Address)
- **Dates:**
- **Time:**

Your presence would be an absolute honor to us. Let us work hand-in-hand to cultivate a smarter, richer, and more sustainable future. For registrations or travel assistance, please feel free to reach out to us at **Cell Numbers by WhatsApp..**

We look forward to welcoming you warmly!

Warm regards,

The Team at Rainbow Farm tech Pvt. Ltd.

Your Partner in Precision Farming



Rainbow Farm Tech Pvt.Ltd.

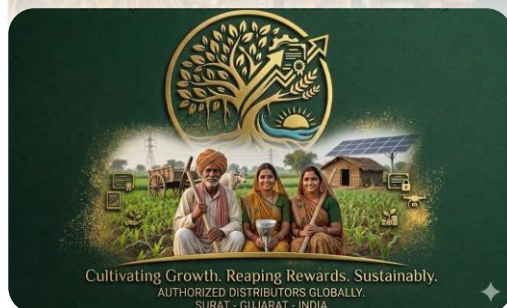
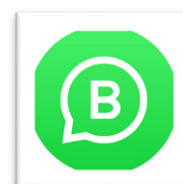
“Rooted In Tradition-Growing for Future.”



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Thank You.



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