



# Hydroponic Green House Farming

***Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Working Capital Requirement, Plant Layout, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis***





# Introduction

Hydroponics is a system of agriculture that utilizes nutrient-laden water rather than soil for plant nourishment. The re-use of nutrient water supplies makes process-induced eutrophication (excessive plant growth due to overabundant nutrients) and general pollution of land and water unlikely, since runoff in weather-independent facilities is not a concern.



Aeroponic and hydroponic systems do not require pesticides, require less water and space than traditional agricultural systems, and may be stacked (if outfitted with led lighting) in order to limit space use (vertical farming). This makes them optimal for use in cities, where space is particularly limited and populations are high-self-sustaining city-based food systems mean a reduced strain on distant farms, the reduction of habitat intrusions, fewer food miles, and fewer carbon emissions.

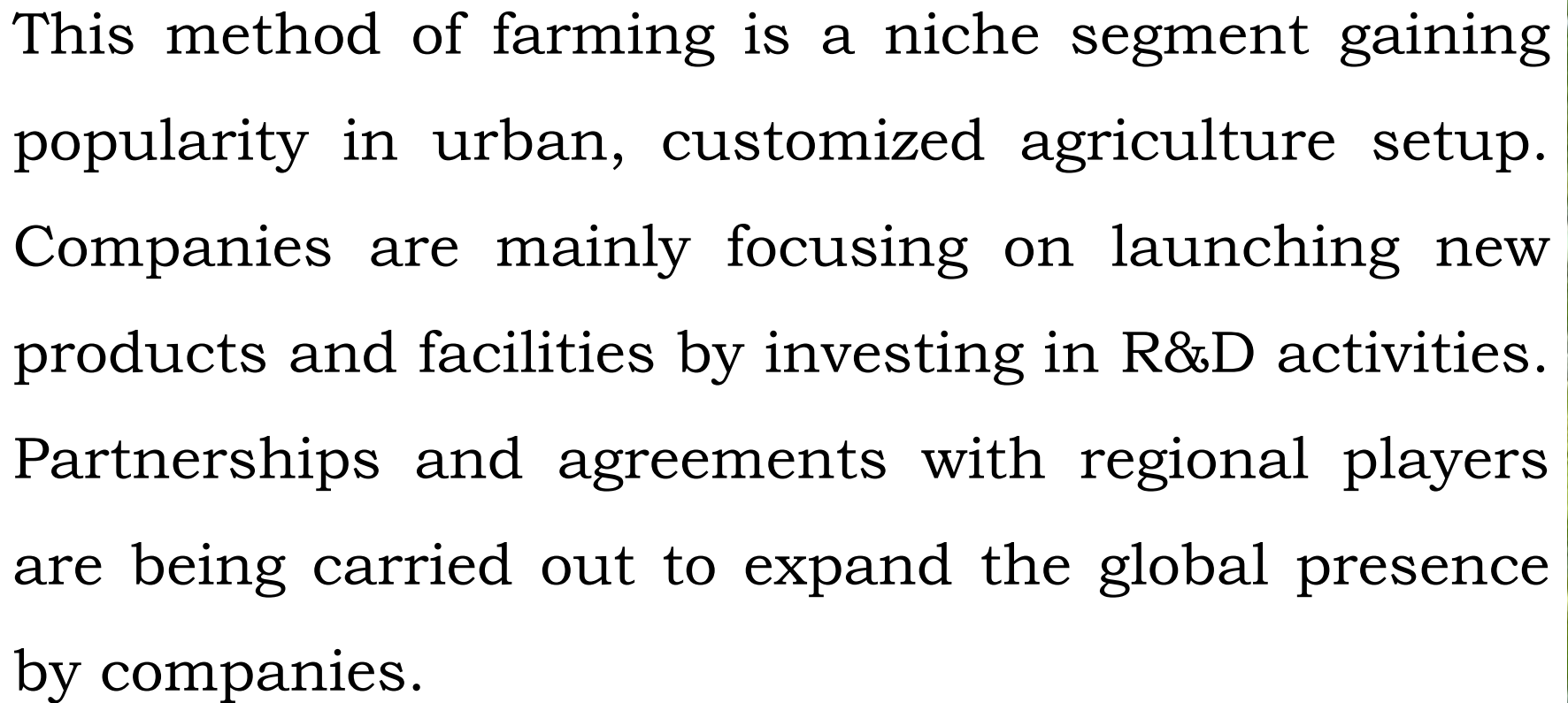


Boosted by rising consumer demand owing to better health awareness and purchasing power, production of fruits and vegetables across India has increased this year with their total yield surpassing the production of food grains. India is also a prominent exporter of Fresh Vegetables in the world.

The country has exported 6,99,600.34 MT of Fresh Vegetables other than Onion to the world for the worth of Rs. 2119.50 crores during the year 2015-16. India grows the largest number of vegetables from temperate to humid tropics and from sea-level to snowline. Thus, as an entrepreneur this project offers an exciting opportunity to you.

# **Market Outlook**

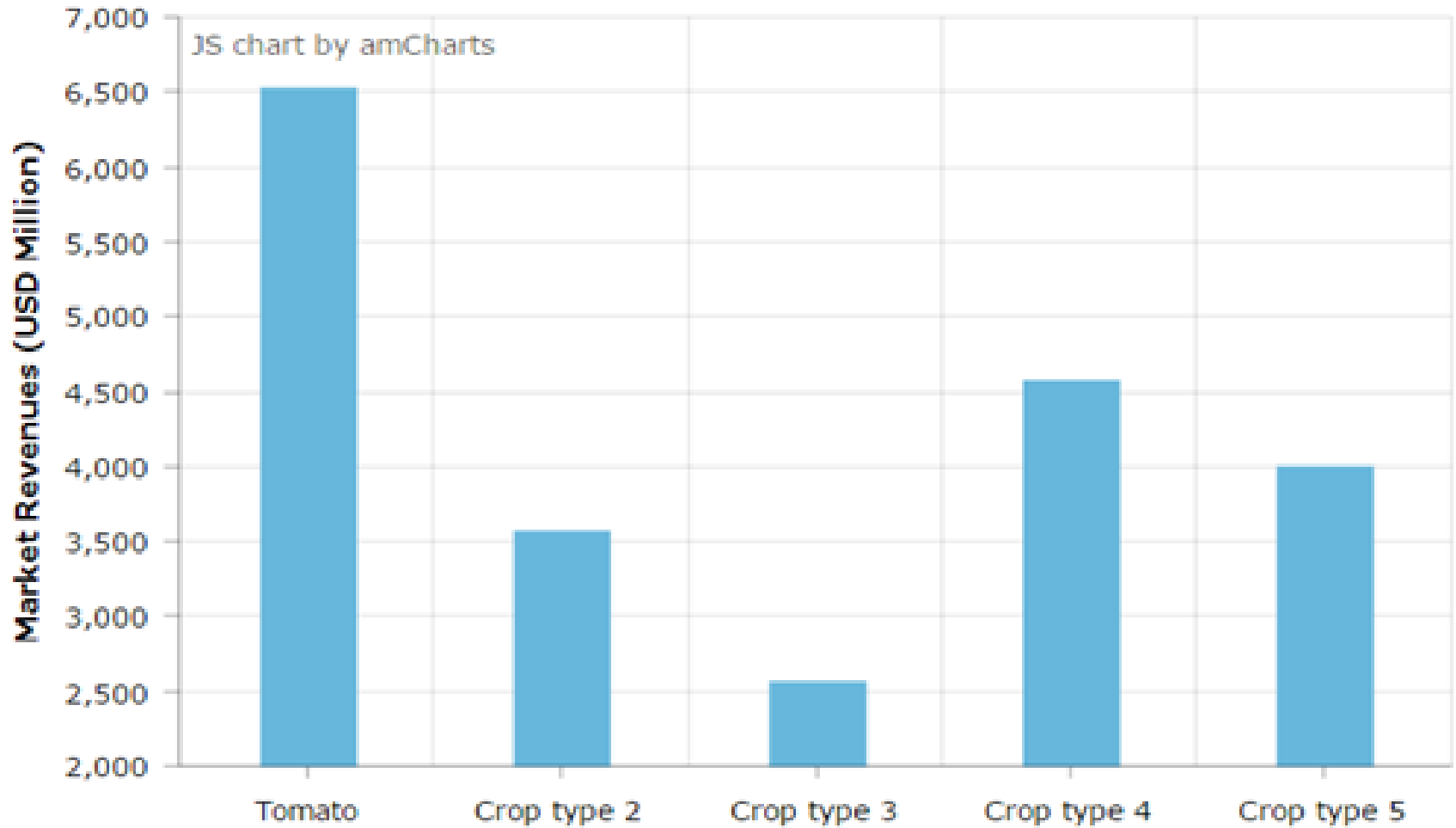
The global hydroponics market is estimated to grow at a CAGR of 6.7% during the 2017-2022 forecast period. The hydroponics market value is anticipated to grow from USD XX million in 2016 to USD 31436.7 million by 2022. A sub-segment of hydro-culture, hydroponics is a method of growing plants using mineral nutrient solutions, in water, without soil. Hydroponics method uses two main mediums to grow crops - solution culture and solid medium culture.




This method of farming is a niche segment gaining popularity in urban, customized agriculture setup. Companies are mainly focusing on launching new products and facilities by investing in R&D activities. Partnerships and agreements with regional players are being carried out to expand the global presence by companies.



## Global Hydroponics Market Revenue, by Crop Type in 2016



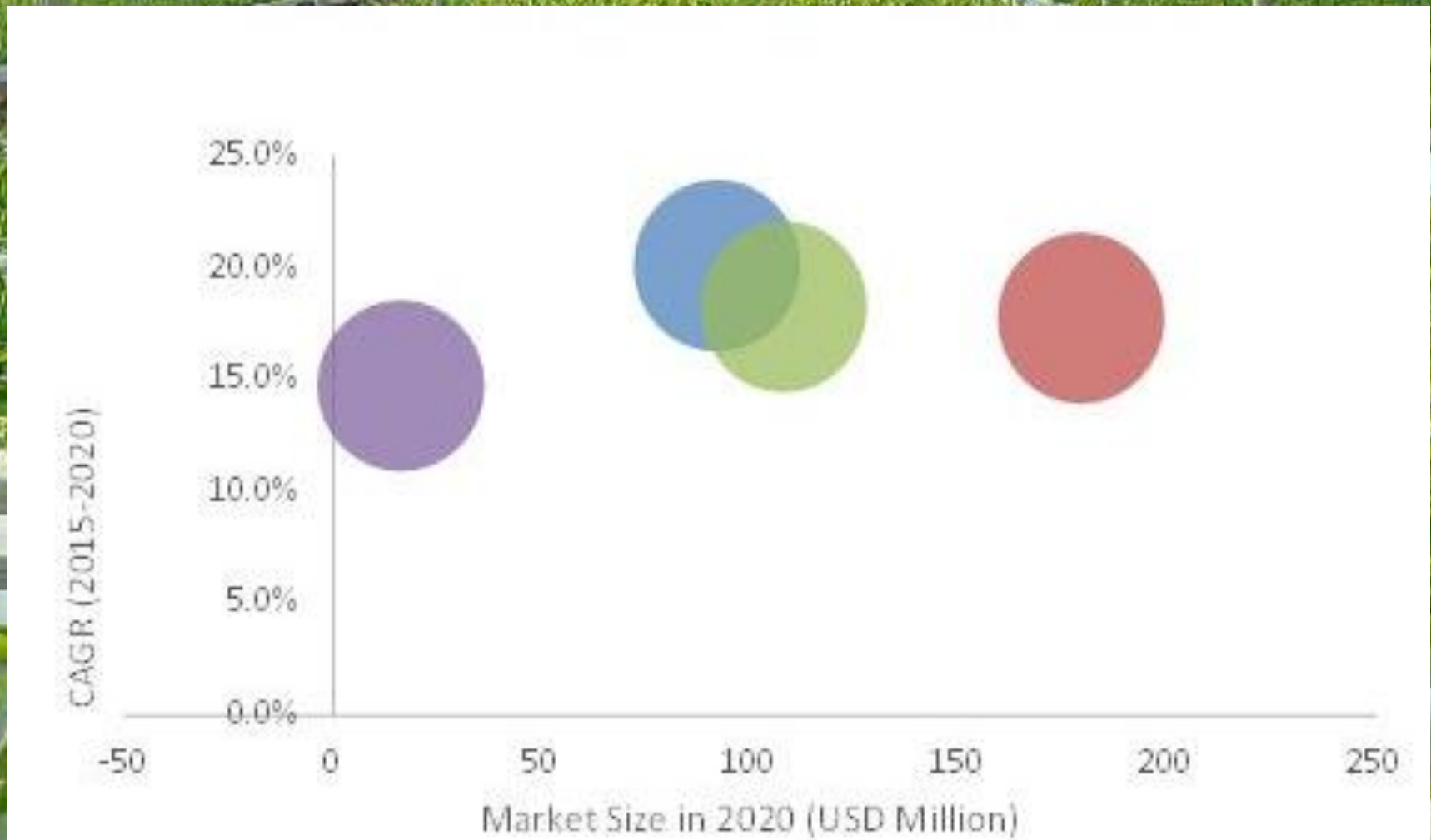


The global hydroponics market is projected to reach USD 395.2 Million by 2020, growing at a CAGR of 16.8% from 2015 to 2020.

Global hydroponics crop value is anticipated to grow from USD 18.8 billion in 2014 to USD 27.29 Billion by 2020 at an estimated CAGR of 6.39% from 2015 to 2020.



# Hydroponics Market Size, by Region (2015-2020)



# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	35.00	35.00	Capital	0.00	122.20	122.20
Buildings	0.00	408.00	408.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	23.30	23.30	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	6.55	6.55	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	2.00	2.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	366.60	366.60
Preliminary & Pre-operative Exp	0.00	0.50	0.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	1.30	1.30	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	4.15	4.15				
<b>TOTAL</b>	<b>0.00</b>	<b>488.80</b>	<b>488.80</b>	<b>TOTAL</b>	<b>0.00</b>	<b>488.80</b>	<b>488.80</b>



# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`		%
1-2	-0.41	3.40	9.59	24.00	0.00	100.00	-0.41	0.00	-0.41	1.00	0.00
2-3	0.26	3.67	9.85	18.00	0.00	100.00	0.26	0.00	0.26	1.00	0.00
3-4	0.91	3.97	10.77	12.00	0.00	100.00	0.91	0.00	0.91	1.00	0.00
4-5	1.55	4.29	12.32	6.00	0.00	100.00	1.55	0.00	1.55	1.00	0.00
5-6	2.18	4.63	14.50	0.00	0.00	100.00	2.18	0.00	2.18	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	0.72	0.72		2.50	2.50	2.56	23.06%	-6.73%	-3.46%	139.88	97.09%	0.35	-0.26	
2-3	0.73	0.73		1.83	1.83	1.89	26.45%	2.73%	2.21%	139.87	97.08%	0.42	-0.61	
3-4	0.74	0.73	0.75	1.11	1.11	1.17	29.47%	11.86%	7.76%	139.87	97.08%	0.51	-0.92	
4-5	0.76	0.74		0.49	0.49	0.53	32.16%	20.66%	13.17%	139.87	97.08%	0.63	-1.18	
5-6	0.79	0.75		0.00	0.00	0.04	34.57%	29.17%	18.46%	139.87	97.08%	0.79	-15.82	





# Project at a Glance



## BEP

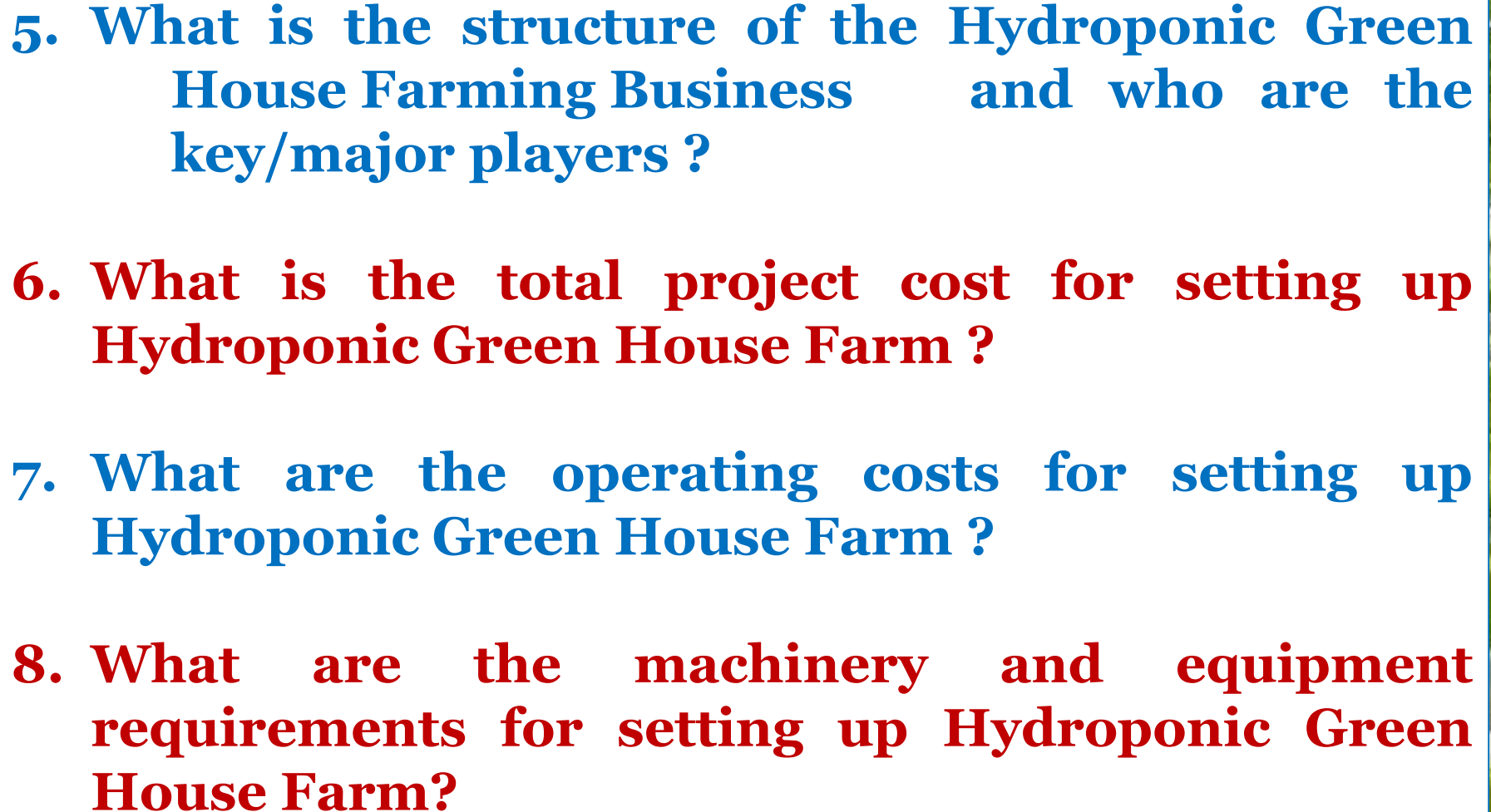
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	48.53%
Total BEP (% of Installed Capacity)	69.95%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	-9.45%
Payback Period of the Project is ( In Years )	After 5 Years
Fixed Assets Coverage Ratio ( No. of times )	0.465

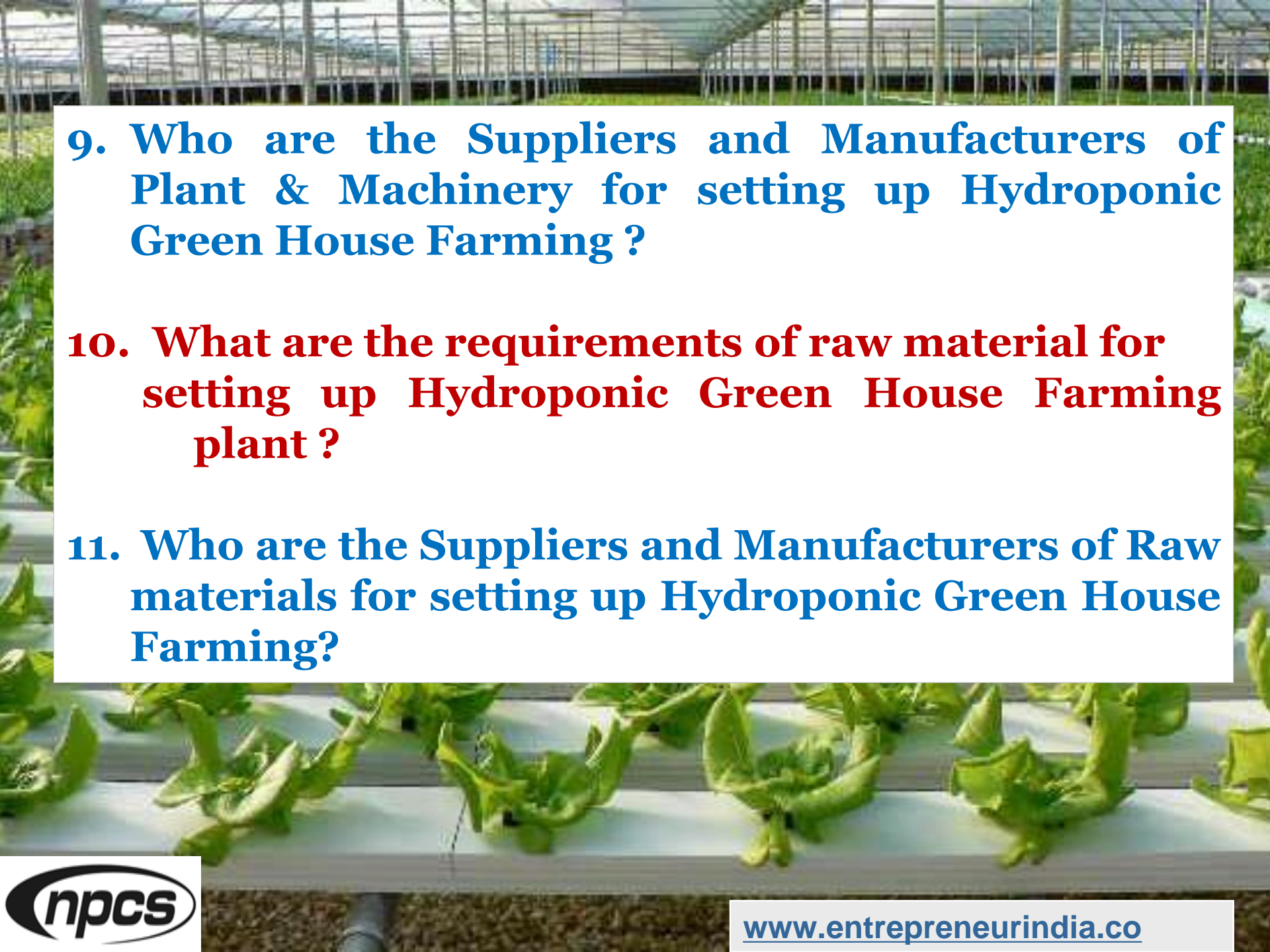


# Major Queries/Questions Answered in the Report?

- 1. What is Hydroponic Green House Farming ?**
- 2. How has the Hydroponic Green House performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Hydroponic Green House Farm ?**
- 4. What are the requirements of Working Capital for setting up Hydroponic Green House Farm?**



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- 5. What is the structure of the Hydroponic Green House Farming Business and who are the key/major players ?**
  - 6. What is the total project cost for setting up Hydroponic Green House Farm ?**
  - 7. What are the operating costs for setting up Hydroponic Green House Farm ?**
  - 8. What are the machinery and equipment requirements for setting up Hydroponic Green House Farm?**



**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Hydroponic Green House Farming ?**

**10. What are the requirements of raw material for setting up Hydroponic Green House Farming plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Hydroponic Green House Farming?**

- 12. What is the total size of land required for setting up Hydroponic Green House Farm?**
- 13. What will be the income and expenditures for a Hydroponic Green House Farming?**
- 14. What are the Projected Balance Sheets of Hydroponic Green House Farming?**
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- 16. What is the Built up Area Requirement and cost for setting up Hydroponic Green House Farming Business?**



- 17. What are the Personnel (Manpower) Requirements for setting up Hydroponic Green House Farming Business?**
- 18. What is the time required to break-even of Hydroponic Green House Farming Business?**
- 19. What is the Break-Even Analysis of Hydroponic Green House Farming Business?**
- 20. What are the Project financials of Hydroponic Green House Farming Business ?**

- 21. What are the Profitability Ratios of Hydroponic Green House Farming Business?**
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# Reasons for buying our report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**



# Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

# Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Hydroponic Green House Farming” provides an insight into the Hydroponic Green House Farming market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Hydroponic Green House Farming project. The report assesses the market sizing and growth of the Indian Hydroponic Green House Farming Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**We at NPCCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Hydroponic Green House Farming sector in India along with its business prospects. Through this report we have identified Hydroponic Green House Farming project as a lucrative investment avenue.**



Hydroponics Industry, Hydroponic Farming Business Plan, Hydroponics Farm Business Plan, Hydroponic Farming, Hydroponic Greenhouse Farm Business Plan, How to Start Small Business in Hydroponics, Hydroponics Business Plan, Hydroponic Farming Business Plan in India, Commercial Greenhouse Plan, Starting Hydroponics Business, Planning For Commercial Hydroponics, Guide to Starting Hydroponic Farming, Planning for Profitable Hydroponic Greenhouse Business, Business Plan for Commercial Hydroponic Farms, Hydroponic Farming Business, Hydroponics Farming Project, Starting Greenhouse Business, Starting Commercial Greenhouse Business, How to Start Greenhouse Project In India, Starting Hydroponics Business, Hydroponics Farming Guide, Commercial Hydroponics Business Plan, Free Hydroponics Business Plan, Business Plan for Hydroponic Farm, Hydroponic Farming for Profit, Hydroponic Greenhouse Process, Hydroponic Commercial Greenhouse, How to Build Hydroponic Greenhouse, Hydroponic Greenhouse Business Plan, Hydroponic Greenhouse Gardening, Profile of Hydroponic Green House Farming, Greenhouse Farming and Hydroponics, Hydroponics Method of Farming, Beginner's Guide to Hydroponic Greenhouses Business, Plants for Hydroponic Greenhouse, Growing Hydroponic Greenhouse, Commercial Hydroponic Systems & Greenhouse, Hydroponic Greenhouse Farm Business Plan, Greenhouse for Soilless Farming, Commercial Greenhouse Projects, Hydroponic Cultivation in Greenhouse, Hydroponic Gardening, Hydroponic Green House Farming Business Plan, Hydroponic Green House Farming Project, Business Plan for Hydroponic Green House Farming, Report on Hydroponic Green House Farming,

Hydroponic Green House Farming Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Hydroponic Green House Farming Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Hydroponic Green House Farming in India, New Project Profile on Hydroponic Green House Farming, Project Report on Hydroponic Green House Farming, Detailed Project Report on Hydroponic Green House Farming, Project Report on Hydroponic Green House Farming, Pre-Investment Feasibility Study on Hydroponic Green House Farming, Techno-Economic Feasibility Study on Hydroponic Green House Farming, Feasibility Report on Hydroponic Green House Farming, Free Project Profile on Hydroponic Green House Farming, Project Profile on Hydroponic Green House Farming, Download Free Project Profile on Hydroponic Green House Farming, Industrial Project Report, Project Consultant, Project Consultancy, Npcs, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project for Hydroponic Green House Farming, Startup Project, Startup Ideas, Project For Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Project Report for Bank Loan, Project Report for Bank Finance, Project Report Format for Bank Loan in Excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Reports

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# **Hydroponic Green House Farming**

Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Working Capital Requirement, Plant Layout, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

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**NPCS Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.**

**Click here to go**

**<http://www.entrepreneurindia.co/project-identification>**

# Contact us

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# ***NIIR PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2008 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)




# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*







*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*



# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*



# How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

# Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*



# Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*



# Sectors We Cover *Cont...*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

# Sectors We Cover *Cont...*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

# Sectors We Cover *Cont...*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*



# Sectors We Cover *Cont...*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

# Sectors We Cover *Cont...*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

# Sectors We Cover *Cont...*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*



# Sectors We Cover *Cont...*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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