



# **Liquid Biofertilizer Manufacturing Industry.**

**Production of Liquid Bio-Fertiliser.**

**Profitable Biofertilizers Production Business Ideas**

[NPCS/4042/23462]

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# Introduction

**Liquid Biofertilizer** a substance which helps to grow plants rapidly and produce fruits, flower and vegetable more quantity in proper time, otherwise fertilizer be a compound which fulfill the needed minerals or Clements require for the growth of plants and vegetables to grow and fruits in proper time.

**Liquid Biofertilizer** is natural fertilizers which are microbial inoculants of bacteria algae fungi alone or in combination and they augment the availability of nutrients to the plants.



**The liquid Bio fertilizers are suspensions having agriculturally useful microorganisms, which fix atmospheric nitrogen and solubilise insoluble phosphates and make it available for the plants. The use of this Bio fertilizer is environment friendly and gives uniform results for most of the agricultural crops and directly reduces the use of chemical fertilizer by 15 to 40%. The shelf life of the liquid bio fertiliser is higher (in the range of one to two years) compared to that of solid matrix base biofertiliszer. There is a growing demand for organic foods in the global market. The use of these liquid bio-fertilisers would help the Indian farmers to produce organic crops so as to compete in the global market.**



## ***The advantages of Liquid Bio-Fertilizer:***

- **Longer shelf-life -12-24 months.**
- **No contamination.**
- **No loss of properties due to storage up to 45°C. – Greater potentials to fight with native population.**
- **Easy identification by typical fermented smell.**
- **Better survival on seeds and soil.**
- **Very much easy to use by the farmer.**
- **High commercial revenues.**



# Market Outlook

**The global liquid fertilizer market to grow at a CAGR of around 3% by 2020. The market is driven by factors such as growing demand for high efficiency fertilizers, convenience of use and application, adoption of precision farming and protected agriculture, and increasing environmental concerns. The high growth potential in emerging markets and untapped regions provides new growth opportunities to the market players. The depletion of soil quality has propelled the use of fertilizers that helps farmers to increase the crop yield by three to four times.**



**The surge in crop acreage and the growing requirement to boost crop production are stimulating many farmers to use liquid fertilizers as plants can immediately absorb these fertilizers and offer faster outcomes. Small-scale farmers are also purchasing liquid fertilizers to reduce their dependency on weather conditions and get an increased yield even in damp, wet, or windy weather. Additionally, there is also a rise in the demand for the proper use of fertilizers as the degradation of soil quality is leading to micronutrient deficiency in crops worldwide.**

**APAC will be the fastest-growing region in the market during the forecast period owing to the increase in hydroponic system field areas, availability of fertilizers at subsidized rates, and rise in mechanization, which has resulted in the increased adoption of technologies such as liquid fertilizer sprayers.**

**Some of the major fertilizer-consuming countries in the region include Australia, Indonesia, Malaysia, the Philippines, Thailand, Vietnam, Japan, South Korea, China, India, Pakistan, and Bangladesh. The demand for fertilizers will see tremendous growth in the region owing to the surge in programs that promote balanced fertilizer use.**

**Moreover, liquid biofertilizers have a shelf life of nearly two years, and they are very tolerant to high temperatures and ultra-violet radiations. Also, the microbe density in such biofertilizers is higher in comparison to solid biofertilizers. They are applied using power sprayers, fertigation tanks, hand sprayers, and as a basal manure mixed along with farmyard manure. These liquid biofertilizers also have a very high enzymatic activity, leading to the high adoption rate amongst farmers.**

**The fruits & vegetables segment is the highest growing among all crop types of the liquid fertilizers market. The production of fruits & vegetables is becoming more intensive and vertically integrated due to continuous technological advancements and growing demand. The global demand for fruits & vegetables is expected to increase in the future, especially in developing regions such as Asia and Latin America due to growing health concerns and increasing disposable income.**

**Asia-Pacific has a high growth potential for liquid fertilizers as this region has many emerging countries such as China and India. Moreover, factors such as high demand for nutritive food and sustainable crop yields, increasing investment in the agriculture sector, and the management of crop production costs are driving the growth of the liquid fertilizers market in this region.**

**Globally, demand for liquid fertilizers is surging due to rising need for increasing agricultural output in order to address growing global food requirements. The major driver of liquid fertilizers market is the need for micro nutrients. Furthermore, increasing soil efficiency and escalating demand for bio fuels and high quality yield are factors propelling the market. Fruits and vegetables exhibit high potential and their production is becoming intensive and vertically integrated due to continuous technological advancements and mounting demands for them.**



**Additionally, investments by the government and private players, increasing research and development activities and new product developments are projected to steer growth in global liquid fertilizers market. Increasing demand for biofuels is associated with the growth of liquid fertilizers market because of liquid fertilizers' use in the production of crops such as wheat, soybean, and sugarcane. However, limited awareness among farmers and huge handling costs are a few deterrents.**

**Some of the major factors driving the market are the demand for increased crop yield to feed the expanding population, need for high-efficiency organic fertilizers, easy usage and application of liquid fertilizers, and adoption of sustainable agricultural practices by farmers.**

**Restrictions in the supply chain, increasing concerns over health and environmental degradation, the high cost of handling and storage, inadequate awareness among the farmers, and strict regulatory framework are some of the restraints of the market. Major opportunities for market growth lie in the emerging economies of the developing countries.**



# Biofertilisers Production

	<b>Biofertilisers Production</b>	
<b>Year</b>	<b>Solid Based (MT)</b>	<b>Liquid Based ('000 Litres)</b>
<b>2012-13</b>	<b>1412</b>	<b>88.0</b>
<b>2013-14</b>	<b>1417</b>	<b>107.9</b>
<b>2014-15</b>	<b>1222</b>	<b>134.7</b>
<b>2015-16</b>	<b>922</b>	<b>255.7</b>
<b>2016-17</b>	<b>82</b>	<b>812.9</b>

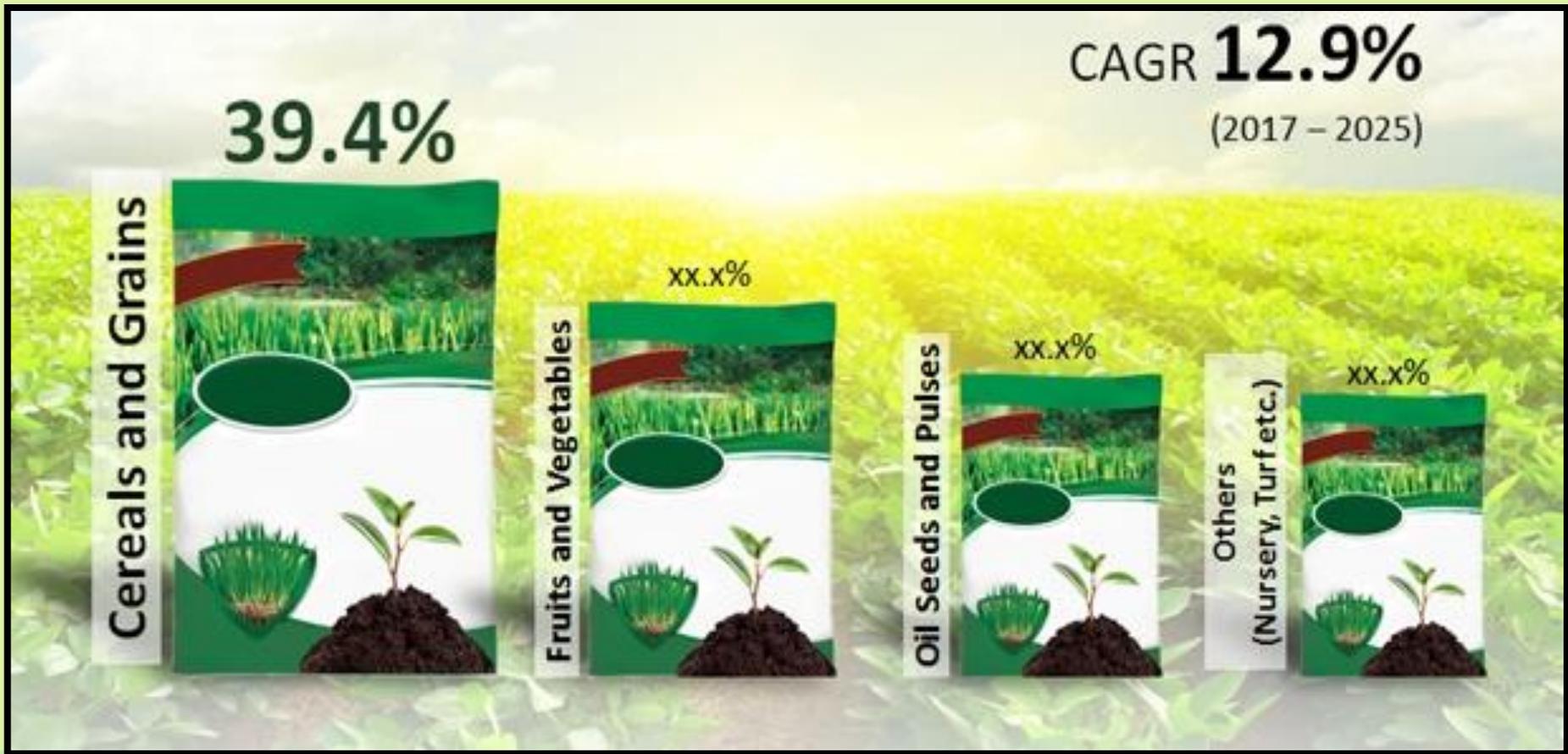
**Some of the key players of the Liquid Fertilizers market includes Agrium Inc., Yara International ASA, Israel Chemical Ltd. (ICL), K+S Aktiengesellschaft, Sociedad Química Y Minera De Chile (SQM), Compo Expert GmbH, Kugler Company, Agroliquid, Plant Food Company, Inc., Haifa Chemicals Ltd. and Rural Liquid Fertilisers (RLF).**



# Biofertilizers Market:

**The demand in the global market for biofertilizers is anticipated to surge at a hearty CAGR of 12.9% within the forecast period from 2017 to 2025, picking up footing from various factors, for example, growing awareness with respect to its wellbeing and environmental advantages, steady move from chemical farming strategies to natural organic ones, developing popularity of biofertilizers in soil fertility administration activities, development of the organic food sector, and ascend in the cost of pesticides and chemical fertilizers. Then again, less awareness in a few potential developing markets, poor framework, and technological limitations are hampering the potential growth of the biofertilizers market.**

# Global Biofertilizers Market Share (%), By Application (2017)



**There are certain factors, which act as drivers for biofertilizers market such as rising environmental awareness, enhancing soil fertility and increasing demand for organic food. Factors restraining the growth of bio fertilizers market are lack of awareness and lower adoption rate by farmers. The unmet demand for fertilizers, formulation of favorable government policies and countries having agriculture dominant economy would provide growth opportunities for this market.**

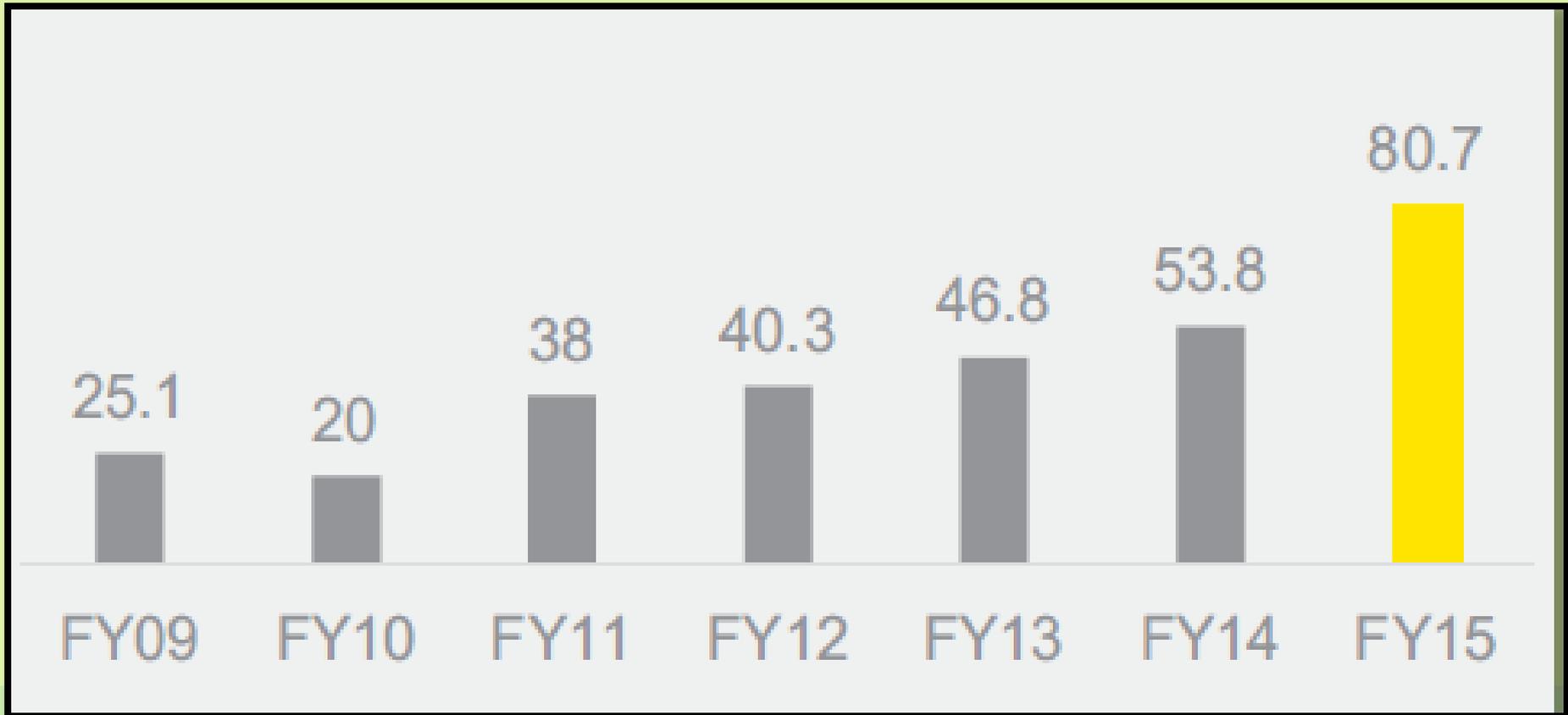
**Based on application, biofertilizers market is segmented into fruits and vegetables, cereals, pulses and oilseeds, plantations and others. Among these, fruits and vegetables are the most produced crop as they are majorly consumed as meals. As food is the primary need of human being, production of fruits and vegetables is going to be most prominent, thus enhancing the scope for bio fertilizers.**

**Based on types, the global market for biofertilizers is segmented into nitrogen fixing, phosphate fixing, potash mobilizing and others. Nitrogen fixing bio fertilizer is one of the prominent substitutes for commercial nitrogen fertilizers. The market scope for this bio-fertilizer is vast, as it is majorly used as nitrogen source for rice. Rice is a prominent crop in many countries, namely India, China, Indonesia, Brazil, Japan and others, thus enhancing the market for the nitrogen fixing fertilizers.**



Liquid Fertilizers

# Indian Biofertilizer Industry –Production (In '000 Tons)



**Indian biofertilizer market had grown rapidly in the period FY09 to FY15, the production of biofertilizers in India had more than tripled during FY09-15. The growth is expected to continue in future owing to the strong push by the Government of India (GoI) to promote bioagriculture.**



# Machinery Photographs



**Piolet Scale Fermenters**



**Vertical Autoclave**



**Laminar Air Flow Chamber**



**Hot Air Oven**

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	30.50	30.50	Capital	0.00	38.61	38.61
Buildings	0.00	45.00	45.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	44.38	44.38	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	4.00	4.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	16.00	16.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	5.00	5.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	115.83	115.83
Preliminary& Pre- operative Exp	0.00	1.00	1.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	4.00	4.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	4.56	4.56				
<b>TOTAL</b>	<b>0.00</b>	<b>154.44</b>	<b>154.44</b>	<b>TOTAL</b>	<b>0.00</b>	<b>154.44</b>	<b>154.44</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				
1-2	4.98	8.70	14.98	24.00	0.00	100.00	4.98	0.00	4.98	1.00	0.00
2-3	7.63	10.89	22.61	18.00	0.00	100.00	7.63	0.00	7.63	1.00	0.00
3-4	10.23	13.10	32.84	12.00	0.00	100.00	10.23	0.00	10.23	1.00	0.00
4-5	12.76	15.28	45.61	6.00	0.00	100.00	12.76	0.00	12.76	1.00	0.00
5-6	15.20	17.42	60.81	0.00	0.00	100.00	15.20	0.00	15.20	1.00	0.00



# Project at a Glance

Year	D. S. C. R.			Debt / - 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		
Initial	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
1-2	1.29	1.29		3.00	3.00	1.75		38.20%	22.46%	15.70%	114.66	93.68%	0.79	0.74
2-3	1.57	1.42		0.80	0.80	0.91		43.41%	31.41%	20.63%	131.47	92.06%	0.88	1.33
3-4	1.90	1.57	1.90	0.37	0.37	0.45		46.92%	37.71%	24.21%	150.19	92.03%	0.90	2.12
4-5	2.29	1.73		0.13	0.13	0.20		49.30%	42.23%	26.84%	168.92	92.00%	0.88	3.10
5-6	2.77	1.90		0.00	0.00	0.06		50.87%	45.48%	28.77%	187.64	91.98%	0.83	11.60



# Project at a Glance

## **BEP**

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	45.79%
Total BEP (% of Installed Capacity)	50.35%
<b>IRR, PAYBACK and FACR</b>	
Internal Rate of Return .. ( In %age )	23.78%
Payback Period of the Project is ( In Years )	2 Years 4 Months
Fixed Assets Coverage Ratio ( No. of times )	2.145

# Major Queries/Questions Answered in the Report?

- 1. What is Liquid Biofertilizer Manufacturing industry ?**
- 2. How has the Liquid Biofertilizer Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Liquid Biofertilizer Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Liquid Biofertilizer Manufacturing plant ?**

- 5. What is the structure of the Liquid Biofertilizer Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Liquid Biofertilizer Manufacturing Business?**
- 7. What are the operating costs for setting up Liquid Biofertilizer Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Liquid Biofertilizer Manufacturing plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Liquid Biofertilizer Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Liquid Biofertilizer Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Liquid Biofertilizer Manufacturing Business?**

**12. What is the Manufacturing Process of Liquid Biofertilizer?**



- 13. What is the total size of land required for setting up Liquid Biofertilizer Manufacturing plant ?**
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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 Liquid Biofertilizer.” provides an insight into Liquid Biofertilizer market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Liquid Biofertilizer project. The report assesses the market sizing and growth of the Indian Liquid Biofertilizer 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 NPCS, 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 Liquid Biofertilizer sector in India along with its business prospects. Through this report we have identified Liquid Biofertilizer project as a lucrative investment avenue.**

# Tags

#Production\_of\_Liquid\_Biofertilizers, #Liquid\_Bio\_Fertilizers, #Liquid\_Biofertilizer\_Production, Liquid Biofertilizers Unit, Liquid Biofertilizer Manufacturing Plant, #Bio\_Fertilizer\_Plant, Liquid Bio Fertilizer Plant, Liquid Biofertilizer Manufacture, Bio-Fertilizer Unit, Liquid Biofertilizer Manufacturing, Manufacturing of Liquid Biofertilizers, Biofertilizers for Plants, Bio Fertilizer Plant Cost in India, Fertilizer Manufacturing Plant Cost in India, #Small\_Scale\_Biofertilizer\_Production, Liquid Biofertilizer Formulation Pdf, Liquid Biofertilizer Formulation PPT, Setting Up of Liquid Biofertilizer Manufacturing Plant, Biofertilizer Manufacturing Business Ideas, Setting up a Bio-Fertilizers Unit, Bio Fertilizer Production, Biofertilizer Manufacturing Business, #How\_to\_Start\_Biofertiliser\_Production\_Unit, Liquid Bio Fertilizer Manufacture India in India, Manufacturing of Biofertilizers, Liquid Biofertilizer Production Unit, Production of a Potential Liquid Plant, Formulation of New Liquid Biofertilizer, #Biofertilizer\_Production\_Process\_Pdf, Start a Biofertilizer Manufacturing Unit, #Project\_Report\_on\_Liquid\_Biofertilizer\_Manufacturing\_Industry, Detailed Project Report on Liquid Biofertilizer Manufacturing, #Project\_Report\_on\_Liquid\_Biofertilizer\_Production, Pre-Investment Feasibility Study on Liquid Biofertilizer Manufacturing Industry, Techno-Economic feasibility study on Liquid Biofertilizer Production, Feasibility report on Liquid Biofertilizer Production, Free Project Profile on Liquid Biofertilizer Manufacturing Business, Project profile on Liquid Biofertilizer Production, Download free project profile on Liquid Biofertilizer Production, Commercial Liquid Biofertilizers for growth of Plants, Bio Fertilizer Business Opportunities, Small Scale Biofertilizer Production, Liquid Biofertilizer Manufacture, Bio Fertilizer Manufacturing Process, Profitable Liquid Biofertilizer Production Business Ideas, Making of Liquid Fertilizer, Fertilizer Liquid Production Process, How to Prepare Liquid Fertilisers, Fertilizers Compounds, Fertilizer Formulation, #Liquid\_Biofertilizer\_Formulation, Large Scale Production of Biofertilizers

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**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)**



# Contact us

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# **Niir PROJECT CONSULTANCY SERVICES**

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# 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*
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- *Business Plan*
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## 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

# Contact us

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