





# Production of PROM (Phosphate Rich Organic Manure):

An Emerging Biofertilizer,

# Manufacturing of PROM Fertilizer –

Toward a Sustainable Agriculture

No. - 4997/23237



## **Introduction**

Phosphate rich organic manure is a type of fertilizer used as an alternative to di ammonium phosphate and single super phosphate Phosphorus is required by all plants but is limited in soil, creating a problem in agriculture. In many areas phosphorus must be added to soil for the extensive plant growth that is desired for crop production. The solubility depends upon PH of the soil, ambient condition and bacteria present in the soil.





Phosphate Rich Organic Manure is produced by co-composting high-grade (32% P2O5 +/- 2%) rock phosphate in very fine size (say 80% finer than 54 microns).

Phosphate Rich Organic Manure (PROM) is a value added product produced by co-compositing high-grade rock phosphate in fine size with organic matter collected from various sources such as FYM, straw of paddy or wheat, pressmud, karanj cake or waste from fruit industries and distillery etc. Phosphate Solubilizing Bacteria (PSB) and nitrogen fixing bacteria are added to improve the efficiency.



Production of phosphorus rich organic manure (PROM) by composting of press mud and distillery waste with rock phosphate into a value added product standardized to contain 18% P2O5 with 22% moisture is a highly promising, natural, better and cheaper substitute of di-ammonium phosphate (DAP). The agronomic evaluation of PROM on paddy crop resulted in an enhancement of 29.41% yield over the DAP.



As the famers are not much familiar with PROM, still use traditional fertilisers for their crops. This is very serious problem for all, these fertiliser harm the soil as well as environment, livestock, humans etc. Excessive use of chemical fertiliser such as Single Super Phosphate (SSP), Diammonium phosphate (DAP), Monoammonium phosphate (MAP) etc. in agriculture mitigates the number of free living beneficial microorganisms; those are directly or indirectly useful for any crop. Because the amount of these fertiliser ustilised by plant upto 30% only. The remaining amount of these fertilisers accumulated in the soil and constantly increases the soil pH.



PROM is manufactured and marketed in India by different agro Industries. PROM is produced by co-composting of high grade (32% P2O5) rock phosphate in very fine size with organic manure such as Compost, Vermi-compost, Cow dung, Soy meal, domestic kitchen waste etc. The efficiency of PROM is totally depended on the particle size of rock phosphate. More the fine of rock phosphate, more the efficiency of PROM. Rock phosphate is soluble phosphate and it is effective in both acidic and alkaline soil.





#### The specific advantages of PROM are:

- 1) The process of production of PROM is highly cost-effective as it is a low energy process that does not demand high temperature or high pressure (operates at ordinary temperature and pressure), needs no chemical catalyst and does not consume any valuable chemicals;
- 2) The raw rock phosphate ore, since is biochemically converted to soluble phosphates, can be fed directly to plants;





3) PROM is (if not, more) effective in agriculture as compared to synthetic fertilisers such as single superphosphate (SSP), di ammonium phosphate (DAP) or monoammonium phosphate (MAP) as evident from successful field studies performed

#### Benefits of PROM

- 1) Contains 3 nutrients -1. Phosphorous 2. Organic carbon 3. Nitrogen
- 2) Acts as alternative to DAP and makes soil soft and enriched with nutrients for Long time



- 3) Supplies phosphorus to the second crop planted in a treated area as efficiently as the first
- 4) Can be produced using acidic waste solids recovered from the discharge of biogas plants, thus makes environment sound
- 5) Due to organic manure presence, leaching and runoff is prevented
- 6) Production of PROM is highly cost-effective as it is a low energy process that does not demand high temperature or high pressure (operates at ordinary temperature and pressure), needs no chemical catalyst and does not consume any valuable chemicals



- 7) Provides micro-nutrients like cobalt, copper, zinc along with primary nutrients.
- 8) PROM is very effective as phosphatic fertilizer even in saline soils where DAP completely failed.
- 9) Enhances the growth of soil microorganism that assist the dissolution of P either applied to the soil or naturally present in the soil.





The use of PROM will reduce the cost of fertilization to the farmers and will also result into the conservation of phosphate mineral, a non-renewable resource due to the high residual effect. The agronomic efficacy of this new P-fertilizer is higher than that of the complex phosphatic fertilizers available in the market today. 'PROM' is suitable to neutral and alkaline soils, which will prove to be a boon to the Indian farmers. In the long run, this product will be a winner as it has significant price advantage compared to the other chemicals.



Global Organic Fertilizers market registered volume consumption of nearly 18.23 million tons, amounting to approximately USD5.87 billion in 2017. The global organic fertilizers market is projected to witness healthy growth at a CAGR of 7%, reaching more than USD8.25 billion through 2023. The changing perception of farmers and end users towards environment friendly farming methods is driving the demand for organic fertilizers worldwide. The various advantages offered at cheaper prices are escalating the consumption of organic fertilizers over chemical fertilizers globally. In addition to this, constructive government policies pertaining to subsidized prices, wastage reduction, limitations on usage of non-biodegradable raw materials are further influencing the global organic fertilizers market.



# Project at a Glance

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					ı	(`in lacs)
F PROJE	CT		MEANS	OF FINAN	ICE	
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0.00	200.00		Other Type Share	0.00	0.00	0.00
			•			
0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
0.00	111.00	111 00	Cash Subsidy	0.00	0.00	0.00
0.00	111.00	111.00	Oddii Odddidy	0.00	0.00	0.00
0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
			Long/Medium Term Borrowings	0.00	3459.04	3459.04
			<b></b>			<u> </u>
	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
			Unsecured			
0.00	29.00	29.00	Loans/Deposits	0.00	0.00	0.00
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# **Project at a Glance**

4-5 15.25

17.81

5-6

Year	Annu	alised	Book Value		Divide nd		ined ings	Payou t	Probab le Market Price		Yield Price/ Book Value
			_		Per	_				No.of	
	EPS	CEPS	Per S	Share	Share	Per S	Share			Times	
	`	•	`	`	`	%	`	%	`		%
1-						100.0					
2	7.30	9.62	17.30	24.00	0.00	0	7.30	0.00	7.30	1.00	0.00
						100.0					
2-3	9.95	12.02	27.26	18.00	0.00	0	9.95	0.00	9.95	1.00	0.00
						100.0					
3-4	12.63	14.47	39.88	12.00	0.00	0	12.63	0.00	12.63	1.00	0.00
						100.0					

0

100.0

0

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0.00

15.25 0.00

0.00

17.81

15.25

17.81

1.00

1.00



0.00

0.00

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16.89 55.13 6.00

19.27 72.94 0.00

Pr	oject at a	Gla	nce		
Yea	D. S. C. R.	Debt /	<b>Equity</b>	Total	Retur
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		Depo	<b>Equity</b>	Wort	Net
		sits		h	Wort

all

**Debt** 

3.00

1.39

0.66

0.30

0.11

0.00

(Number of

times)

3.00

1.39

0.66

0.30

0.11

0.00

**Profitability Ratio** 

PAT

%

Net

bution

88

55

95

35

75

Contri Ratio

3384. 11.85

3812. 11.44

4353. 11.43

4895. 11.43

5436. 11.42

P/V

%

%

%

%

%

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h

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**GPM** 

%

**PBT** 

%

7.26% 4.60% 2.95%

7.65% 5.41% 3.44%

7.93% 6.03% 3.82%

8.11% 6.48% 4.10%

8.24% 6.82% 4.31%

%

3.37

2.11

1.43

1.03

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**Asset Curre** 

Turno Ratio

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ver

**Ratio** 

3.29

3.42

3.41

3.32

3.20

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1.06

1.19

1.33

1.49

1.84

).	S.	C.	R.	

Individ Cumula Over

(Number of times)

1.39

1.54

1.70

1.88

2.07

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2.07

tive

ual

Initi al

1-

2

4-5

5-6

1.39

2-3 1.70

3-4 2.07

2.52

3.06

# **Project at a Glance**

BEF	)
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BEP -	Maximum	Utilisation	Year

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Payback Period of the Project is (In Years) Fixed Assets Coverage Ratio (No. of times)

15.672



36.77%

39.88%

28.85%

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### Major Queries/Questions Answered in the Report?

- 1. What is Phosphate Rich Organic Manure (PROM) Manufacturing industry?
- 2. How has the Phosphate Rich Organic Manure (PROM) Manufacturing industry performed so far and how will it perform in the coming years?
- 3. What is the Project Feasibility of Phosphate Rich Organic Manure (PROM) Manufacturing Plant?
- 4. What are the requirements of Working Capital for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?



- 5. What is the structure of the Phosphate Rich Organic Manure (PROM) Manufacturing Business and who are the key/major players?
- 6. What is the total project cost for setting up Phosphate Rich Organic Manure (PROM) Manufacturing Business?
- 7. What are the operating costs for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?
- 8. What are the machinery and equipment requirements for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?
- 10. What are the requirements of raw material for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Phosphate Rich Organic Manure (PROM) Manufacturing Business?
- 12. What is the Manufacturing Process of Phosphate Rich Organic Manure (PROM)?



- 13. What is the total size of land required for setting up Phosphate Rich Organic Manure (PROM) Manufacturing plant?
- 14. What will be the income and expenditures for Phosphate Rich Organic Manure (PROM) Manufacturing 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 Phosphate Rich Organic Manure (PROM) ." provides an insight into Phosphate Rich Organic Manure (PROM) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Phosphate Rich Organic Manure (PROM) project. The report assesses the market sizing and growth of the Indian Phosphate Rich Organic Manure (PROM) 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 Phosphate Rich Organic Manure (PROM) sector in India along with its business prospects. Through this report we have identified Phosphate Rich Organic Manure (PROM) project as a lucrative investment avenue.



## Tags

Phosphate Rich Organic Manure Composition, Phosphate Rich Organic Manure Manufacture, How to Make Phosphate Rich Organic Manure, Organic Phosphate Fertilizer, PROM Fertilizer Manufacturing Process, PROM Fertilizer Composition, Biofertilizer and Phosphate Rich Organic Manure, Production of Phosphate-Rich Biofertiliser, Phosphate Rich Organic Manure as Fertilizer, Phosphate Rich Organic Manure, Organic Phosphorus Fertilizers, Organic Phosphorus Fertilizers, Organic Manures, Manure in Organic Production, Making of PROM, Process of Producing Phosphate Rich Organic Manure, Manufacturing of Phosphate Rich Organic Manure, Production of Phosphate Rich Organic Manure, Manufacture of Phosphate Rich Organic Manure, Phosphate Rich Organic Manure Manufacture, Phosphate Rich Organic Manure Manufacturing Plant, Phosphate Rich Organic Manure Production, Phosphate Rich Organic Manure Manufacturing Unit, How to Start Phosphate Rich Organic Manure Manufacturing Business, Phosphate Rich Organic Manure Manufacturing Company, PROM Fertilizer Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Phosphate Rich Organic Manure Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Phosphate Rich Organic Manure Manufacturing Industry in India,



PROM Fertilizer Manufacturing Projects, New project profile on PROM Fertilizer Manufacturing industries, Project Report on Phosphate Rich Organic Manure Manufacturing Industry, Detailed Project Report on Phosphate Rich Organic Manure Manufacturing, Project Report on Phosphate Rich Organic Manure Manufacturing, Pre-Investment Feasibility Study on PROM Fertilizer Manufacturing, Techno-Economic feasibility study on Phosphate Rich Organic Manure Manufacturing, Feasibility report on Phosphate Rich Organic Manure Manufacturing, Free Project Profile on Phosphate Rich Organic Manure Manufacturing, Project profile on Phosphate Rich Organic Manure Manufacturing, Download free project profile on Phosphate Rich Organic Manure Manufacturing, Startup Project for Phosphate Rich Organic Manure Manufacturing, 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, A Future Fertilizer- towards the sustainable agriculture, PROM Technology, Prom Fertilizer Manufacturing Process



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# Production of PROM (Phosphate Rich Organic Manure):

An Emerging Biofertilizer, Manufacturing of PROM Fertilizer –
Toward a Sustainable Agriculture

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#### Reports:

#### Detailed Project Reports

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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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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# NIR PROJECT CONSULTANCY SERVICES

**An ISO 9001:2015 Company** 



#### 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** 



#### Contact us

#### NIIR PROJECT CONSULTANCY SERVICES

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