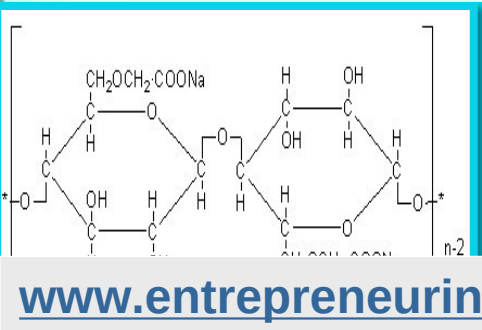
Profitable Project Investment Opportunity in Production of

Polyanionic Cellulose (PAC).

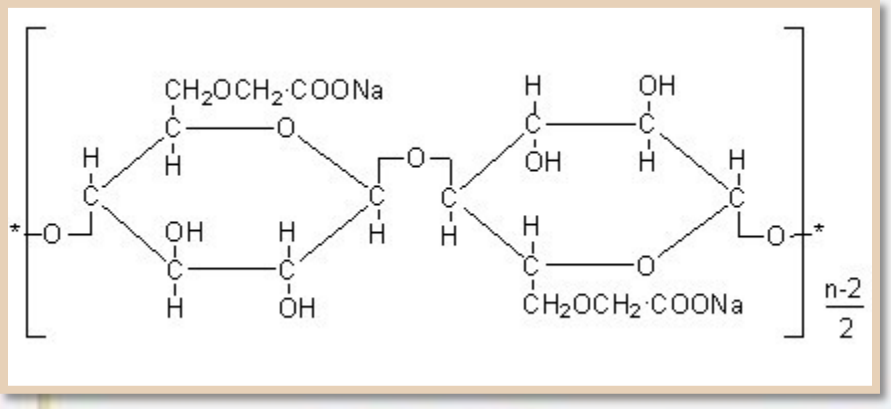
The market is expected to expand at 3.52% CAGR over the period between 2016 and 2022.



Introduction

Polyanionic cellulose, or (PAC), is a safe thickening agent. PAC, a water soluble anionic polymer derived from cellulose, is comprised of the woody parts and cell walls of plants. It is chemically modified from natural cellulose and obtained water soluble cellulose ethers.

PAC is used for many different technical applications. These uses are based mainly on its reaction with water content in the finished product.



It is used alone or in conjunction with other components in the system to create thickening, water-binding, suspension, stabilizing and emulsifying characteristics. Widely used in Oil drilling fluid control additives, especially in salt water wells and offshore drilling applications. It is a combined filtration controller and minimal viscosifier in fresh and salt water base drilling systems. It is ideal in low solid mud, designed for fast penetration.

Uses:

- **Polyanionic Cellulose in Food Production**

Polyanionic Cellulose is widely used as stabilizer, thickener in food production.

As stabilizer, thickener: in Jelly, ice cream, canned to stabilize.

- **Polyanionic Cellulose in Beverage**

Polyanionic Cellulose is widely used as stabilizer, thickener in beverage.

As stabilizer, thickener: in Juice, gravy, vegetable juice to stabilize.

- **Polyanionic Cellulose in Pharmaceutical**

Polyanionic Cellulose is widely used as emulsifier, stabilizer in Pharmaceutical.

As emulsifier, stabilizer: in injections and tablets to bond and become a mask.

- **Polyanionic Cellulose in Cosmetics**
- **Polyanionic Cellulose in Agriculture/Animal Feed**
- **Polyanionic Cellulose in Other Industries**

Polyanionic Cellulose is widely used as Flocculants, chelating agents, emulsifiers, thickeners, water retention agents, sizing agents and film-forming material in various other industries.

As Flocculants, chelating agents, emulsifiers, thickeners, water retention agents, sizing agents and film-forming material: In electronics, pesticides, leather, plastics, printing, ceramics and household chemical industry.

PAC, short for polyanionic cellulose, is a kind of water-soluble cellulose ether derivative made from natural cellulose by chemical modification, and an important kind of water-soluble cellulose ether. Usually the sodium salt of Polyanionic Cellulose is in application and widely used in petroleum drilling, especially in salt well and offshore oil drilling.

Polyanionic Cellulose is soluble into water to form thick liquid, and it widely used in water-base drilling fluid so as to enhance the drilling fluid viscosity and control the fluid loss. Usually the sodium salt of Polyanionic Cellulose is in application and widely used in petroleum drilling, especially in salt well and offshore oil drilling.

Polyanionic Cellulose used in the fracturing fluid, Polyanionic Cellulose can efficiently carry 'the filler' into the cracks of well, establish the permeability pathway, which can effectively control the fluid into the well structure, reduce the fluid loss, and reduce the pressure drop. Ultra-high viscosity products can replace guar gum, reducing production costs.

In the shape of white to light yellow powder or particles, Polyanionic Cellulose is tasteless, nontoxic, strong in hygroscopicity, and freely soluble in cold and hot water.

Polyanionic Cellulose polymer has excellent heat-resistant stability, salt tolerance and strong antibacterial activity. The slurry or fluid prepared from the product has better fluid loss reducing capability, rejection capability and higher temperature tolerance. Polyanionic Cellulose is widely used in petroleum drilling, especially in salt well and offshore oil drilling.

PAC is an indispensable product for drilling mud making. It is high purity product; the water solution of this white powder is transparent and viscid. As water-soluble polymer, PAC dissolves immediately in cold/hot water and can be used as a thickening agent, rheology controller, bond, stabilizer, colloid protector, suspending agent, and filtrate reducer.

PAC is a good drilling mud additive and also an important material for confecting well liquid, a high mud volume product that featured high acid-resistance and salt-resistance ability. PAC is a good filtrate reducer with the capacity of increasing viscosity and anti-high temperature (150°C) in the freshwater, seawater, or even saturated brine well-completion liquid. PAC is suitable for confecting the completion fluid with these 3 kinds of water above.

Polyanionic cellulose (PAC) is a type of water-soluble cellulose ether derivative manufactured by the chemical modification of natural cellulose. It is a vital type of water-soluble cellulose ether. Polyanionic cellulose finds important applications in offshore exploration & production, drilling & salt well operations in the upstream oil & gas industry. It is a white or yellowish, odorless powder, which is hygroscopic, tasteless, & non-toxic. It is water-soluble at both low as well as high temperatures, and forms a thick liquid when dissolved in water. PAC displays high stability in high temperature applications and exhibits high resistance to salty environments as well. It has also been found to possess anti-bacterial properties.

Polyanionic cellulose slurry displays superior fluid loss reducing capability, rejection capability and higher temperature tolerance in various applications. Furthermore, polyanionic cellulose finds applications across a diverse range of industries for a wide range of uses apart from the oil & gas industry. For instance, food & beverage, pharmaceutical, chemical, plastic and polymer are some of the end use industries worth noting.

In recent times, there has been a rise in the demand for polyanionic cellulose from the fast growing food & beverage industry. This is so because polyanionic cellulose has demonstrated to be more safe vis-à-vis other chemicals, as a food additive, thereby gaining preferential use.

Polyanionic cellulose has also been finding increased usage in water purification processes in the food & beverage industry. It is also being widely used as a stabilizer & thickener in food production. For instance, jelly products & ice creams are stabilized & thickened to a large extent with the use of polyanionic cellulose (PAC). PAC is also advantageous due to its compatibility to be canned & stored for extended periods of time, thereby becoming a popular choice as a food stabilizer. It is also being increasingly used to stabilize gravies and fruit & vegetable juices. The rapid growth of the food & beverages industry has also been contributing to the market growth of polyanionic cellulose at a global level. In the pharmaceutical industry, polyanionic cellulose has been gaining importance as an emulsifier & a stabilizer in the manufacture of injectable medicines & tablets due to its effective bonding properties.

The PAC is having good demand in the domestic & international markets. The present domestic market size is about Rs. 300 crores annually & likely to grow at 9% per annum. Most of the current domestic demand is met by import mainly from China & to some extent from Europe. The proposed facility will reduce the import demand from the other countries.

On the basis of product type, the polyanionic cellulose market can be segmented as follows: Low viscosity polyanionic cellulose, Regular viscosity polyanionic cellulose, High viscosity polyanionic cellulose, extra high viscosity polyanionic cellulose.

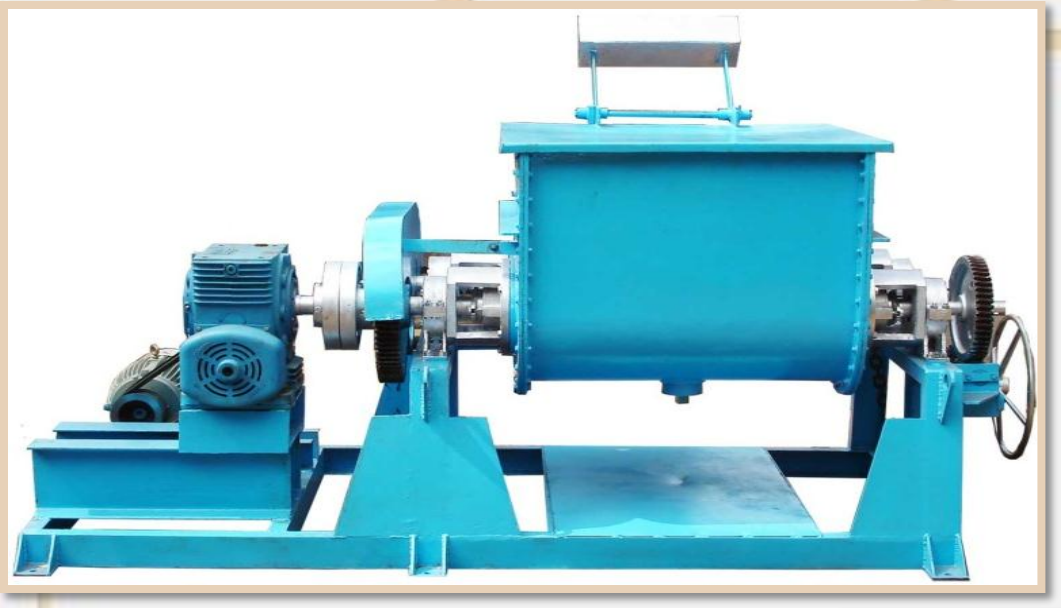
On the basis of end use, the polyanionic cellulose market can be segmented as follows: Oil & gas, Food & beverage, Pharmaceutical, Agrochemical, Electronics, Leather processing, Chemical, Printing, Plastic & polymer, Ceramic, Others.

The market is expected to expand at 3.52% CAGR over the period between 2016 and 2022.

Machinery Photographs

STORAGE TANK

MIXING TANK



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Project at a Glance

PROJECT AT A GLANCE						(` in lacs)
COST OF PROJECT				**MEANS OF FINANCE**		
Particulars	**Existing**	**Proposed**	**Total**	**Particulars**	**Existing**	**Proposed**	**Total**
Land & Site Development Exp.	0.00	130.00	130.00	Capital	0.00	104.66	104.66
Buildings	0.00	84.60	84.60	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	113.50	113.50	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	38.00	38.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	313.99	313.99
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	10.00	10.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	21.55	21.55				
TOTAL	0.00	418.65	418.65	TOTAL	0.00	418.65	418.65

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	5.21	8.34	15.21	24.00	0.00	100.00	5.21	0.00	5.21	1.00	0.00
2-3	8.16	10.89	23.38	18.00	0.00	100.00	8.16	0.00	8.16	1.00	0.00
3-4	11.03	13.41	34.40	12.00	0.00	100.00	11.03	0.00	11.03	1.00	0.00
4-5	13.76	15.85	48.16	6.00	0.00	100.00	13.76	0.00	13.76	1.00	0.00
5-6	16.36	18.18	64.52	0.00	0.00	100.00	16.36	0.00	16.36	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		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.25	1.25		1.58	1.58	2.06		19.72%	10.46%	7.22%	391.08	51.73%	1.58	0.88
2-3	1.57	1.40		0.77	0.77	1.13		22.36%	14.83%	9.69%	456.26	51.73%	1.72	1.23
3-4	1.94	1.57	1.93	0.35	0.35	0.63		24.12%	17.87%	11.45%	521.43	51.73%	1.74	1.69
4-5	2.37	1.74		0.12	0.12	0.35		25.27%	20.00%	12.70%	586.61	51.73%	1.69	2.23
5-6	2.89	1.93		0.00	0.00	0.18		25.99%	21.47%	13.59%	651.79	51.73%	1.59	4.28

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	55.55%
Total BEP (% of Installed Capacity)	58.49%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	24.52%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	4.599

Major Queries/Questions Answered in the Report?

1. What is Polyanionic Cellulose (PAC) Manufacturing industry ?

2. How has the Polyanionic Cellulose (PAC) Manufacturing industry performed so far and how will it perform in the coming years ?

3. What is the Project Feasibility of Polyanionic Cellulose (PAC) Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Polyanionic Cellulose (PAC) Manufacturing plant ?

5. What is the structure of the Polyanionic Cellulose (PAC) Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Polyanionic Cellulose (PAC) Manufacturing Business?

7. What are the operating costs for setting up Polyanionic Cellulose (PAC) Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Polyanionic Cellulose (PAC) Manufacturing plant ?

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10. What are the requirements of raw material for setting up Polyanionic Cellulose (PAC) Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Polyanionic Cellulose (PAC) Manufacturing Business?

12. What is the Manufacturing Process of Polyanionic Cellulose (PAC) ?

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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 Polyanionic Cellulose (PAC)." provides an insight into Polyanionic Cellulose (PAC) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Polyanionic Cellulose (PAC) project. The report assesses the market sizing and growth of the Indian Polyanionic Cellulose (PAC) 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 Polyanionic Cellulose (PAC) sector in India along with its business prospects. Through this report we have identified Polyanionic Cellulose (PAC) project as a lucrative investment avenue.

Tags

Polyanionic cellulose, Polyanionic Cellulose Manufacture, PAC Manufacturing, Polyanionic Cellulose (PAC), Polyanionic Cellulose Production Process, Manufacturing Process of Polyanionic cellulose, Polyanionic Cellulose Chemical, Applications and Uses of Polyanionic Cellulose, Polyanionic Cellulose Manufacturing Process, Polyanionic Cellulose Industry, Polyanionic Cellulose Low Viscosity, PAC Low Viscosity, Polyanionic Cellulose (PAC) Drilling Additive, Polyanionic Cellulose Manufacture in India, Polyanionic Cellulose (PAC) Industry, Polyanionic Cellulose UL –PAC HV for Drilling Fluid, polyanionic cellulose uses, PAC (Polyanionic Cellulose), Drilling Fluids and Mud Chemicals Manufacture, Project Report on Polyanionic Cellulose Manufacturing Industry, Detailed Project Report on Polyanionic Cellulose Production, Project Report on Polyanionic Cellulose Production, Pre-Investment Feasibility Study on Polyanionic Cellulose Production, Techno-Economic feasibility study on Polyanionic Cellulose Production, Feasibility report on Polyanionic Cellulose Production, Free Project Profile on Polyanionic Cellulose Production ,Project profile on Polyanionic Cellulose Production, Download free project profile on Polyanionic Cellulose Production

Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on

Profitable Project Investment Opportunity in Production of Polyanionic Cellulose (PAC).

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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

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- *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

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https://goo.gl/VstWkd

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