

# Great opportunities in production of

# Linear Alkyl Benzene Sulphonic Acid (LABSA)







### Introduction

Inorganic chemistry's linear alkyl benzene sulfonate is a valuable commodity. Sulfonation of linear alkyl benzene yields alkyl benzene sulfonate, which is used to make detergents and surfactants for ore flotation. For penoizol, it's used as a foaming agent. Although the LABSA has been around for 75 years, its widespread use began in the 1960s due to its excellent primary biodegradability. (ABSK) is a viscous liquid that varies in colour from brown to black depending on the brand. Is divided into three categories: A, B, and V.

Related projects: - <u>Production of Linear Alkyl Benzene</u>

<u>Sulphonic Acid</u>

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ABSK components include Triethanolamine salt alkyl benzene sulfonate (TEM-ABSK), Sulphonic powder, and Triethanolamine salt alkyl benzene sulfonate (TEM-ABSK) (sodium salt of alkyl benzene sulfonate), Some examples include the calcium salt of alkyl benzene sulfonate and others.

Detergents made from ABSK components rather than korrodiruet surface components. ABSK is held in covered warehouses and steel containers that have been packed and sealed. The shelf life of this product is 6 months from the date of manufacture.

Related books: - The Complete Technology Book on Chemical

**Industries** 



# Uses And Application Of Linear Alkyl Benzene Sulphonic Acid

The length of the alkane chains determines the properties of linear alkyl benzene sulfonic acid, which gives it different functionality. Surfactants are used in industry to increase the interaction between polar and non-polar phases like oil, water, or water and minerals. Linear alkyl benzene sulfonate is primarily used in the production of laundry powder, cleaning liquid, dishwashing liquid, and other household cleaners, as well as other industrial applications.

Related videos: - Chemicals (Organic, Inorganic, Industrial)



Sulfonic acid is produced from linear alkyl benzene sulfonic acid. LABSA is a corrosion and rust inhibitor that can be added to oils as a lubricating agent. This surfactant is a great intermediate surfactant. It's normally neutralized with alkali and converted into sulphonates, which are used in a variety of fields. This product is suitable for use in acidic conditions.

Related projects: - Chemicals, Chemicals Organic, Chemicals

<u>Inorganic</u>





# Production of Linear Alkyl Benzene Sulphonic Acid

To know and check the functional conditions, sulfonic acid was prepared in the laboratory by mixing Linear Alkyl Benzene, LAB (produced by Arabic Chemicals for Detergents in Beige, Iraq) with fumic Sulfuric acid at 55–60 Co for one minute residence time. Every pass, which stimulates the construction of some fruitful plants locally, and specifications to be implemented for mass production process flow sheet of high quality sulfonic acid production.

Market Research: - Market Research Report



Foot Print-IR Spectrometry was used to examine samples of the prepared sulfonic acid, revealing that the functional groups sites of the prepared compound match those of the normal Linear Alkyl benzene Sulfonic acid, according to Colthup's tables for spectroscopic analytical data of standard compounds. The reaction is repeatable and has a near-quantitative recovery time of one minute, but it is extremely exothermic.

**Profile:** - **Project Reports & Profiles** 





As a result, a high-efficiency heat exchanger is recommended for providing urgent cooling, and suitable materials selection should be considered for the construction of plant units, such as corrosion resistance and thermal flow homogeneity characteristics to avoid the development of side products that result in the production of low-quality product; hence, auxiliary software should be used. As a result, auxiliary software to monitor the process for high-quality product insurance should be created.





#### **Market Outlook**

Linear Alkyl Benzene Sulphonic Acid is an anionic surfactant with hydrophobic and hydrophilic groups in its molecules. They're sulfonate compounds that aren't volatile. Linear alkyl benzene sulfonic acid is a complex mixture of homologues of various alkyl chain lengths (C10 to C13 or C14) and phenyl positional isomers of 2 to 5-phenyl in proportions determined by the starting materials. And reaction conditions, each of which contains an aromatic ring sulfonate at the para position connected to a linear alkyl chain at any position except the terminal one (1-phenyl).

**Books: - BOOKS & DATABASES** 



The physical and chemical properties of linear alkyl benzene sulfonic vary depending on the alkyl chain length, resulting in formulations for different applications. LABSA is a labor-intensive industry with a low technological barrier. The global LABSA industry currently has a large number of manufacturing firms. The linear alkyl benzene sulfonic acid market in the area is also benefiting from an increase in demand for industrial cleaners to maintain industrial hygiene.



Ho Tung, CEPSA, Sasol, KAPACHIM, Stepan, New India Detergents, ISU Chemical, and Nanjing Gige are the major market players. With an average growth rate of 3.90 percent, LABSA production increased to 3211.81 MT in 2016 from 2756.30 MT in 2012. In 2016, the global LABSA capacity utilization rate remained about 73 percent.

The global Linear Alkyl Benzene Sulphonic Acid market is projected to expand at a CAGR of 3.5 percent from 2021 to 2026, from 3606.9 million USD in 2021 to 4601.4 million USD by the end of 2026.



# **Key Players: -**

- Nirma Ltd.
- Reliance Industries Ltd.
- Tamilnadu Petroproducts Ltd.



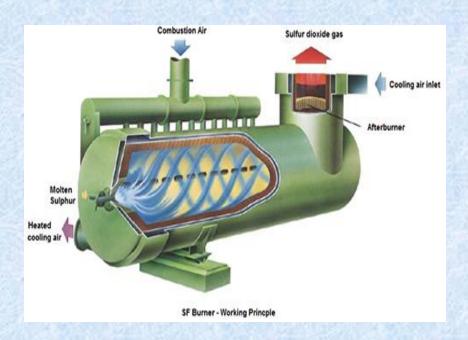


**Sulphur Filtration** 



LAB Storage Tank





Sulphur Melting Furnace

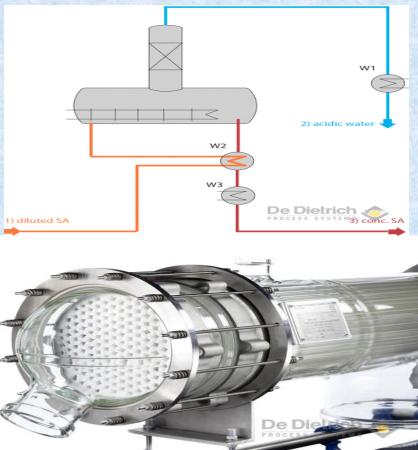


**Dryer** 



#### **Heat Exchanger**







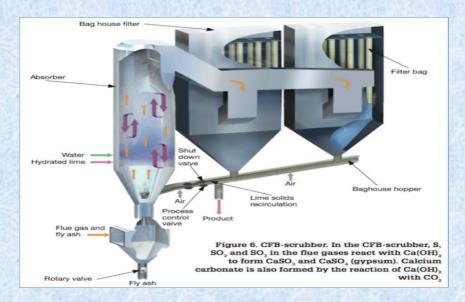


**Converter Column** 



**Turbine** 





#### Scrubber



#### **Caustic Mixing Tank**





**Air Compressor** 



Fuel Storage Tank



#### **Boiler**







#### **Cooling Tower**





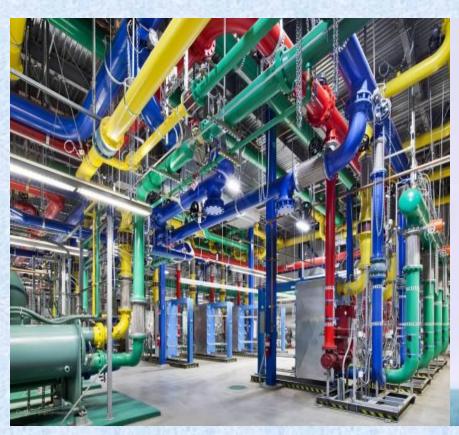


#### Weighing Bridge





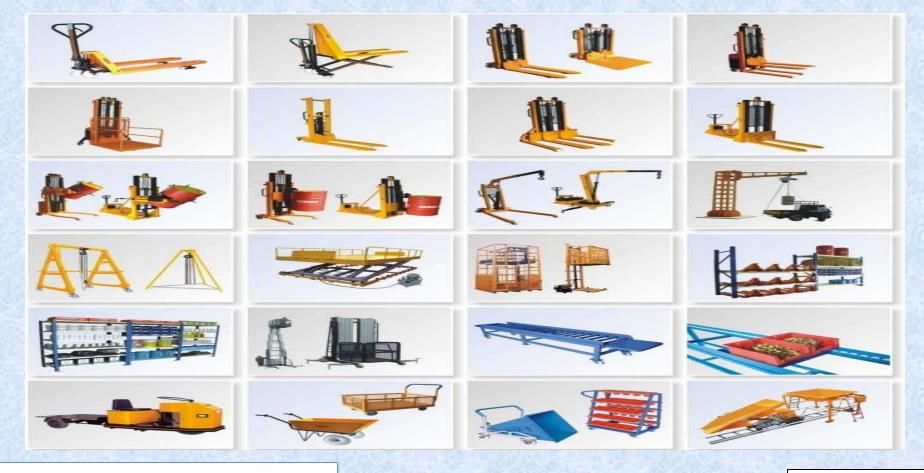
#### Pipeline & Vacuum Pumps







#### **Material Handling Equipments**



116.27

0.00

0.00

0.00

0.00

0.00

348.80

0.00

0.00

465.07

Total

116.27

0.00

0.00

0.00

0.00

0.00

0.00

0.00

465.07

348.80

## **Project at**

**Particulars** 

Land & Site Development

Plant & Machineries

Motor Vehicles

**Equipments** 

& Exp.

**Deposits** 

Exp

Capital

TOTAL

Office Automation

Franchise & Other

Technical Knowhow Fees

Preliminary& Pre-operative

**Provision for Contingencies** 

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Margin Money - Working

Exp.

Buildings

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Existing Proposed

T	at		Gla	an	ce	
СО	ST OF F	PROJ	IECT			

5.00

87.10

246.20

12.00

41.50

20.00

0.00

3.00

36.00

14.27

465.07

Total

5.00 Capital

87.10 Share Premium

41.50 Cash Subsidy

0.00 Borrowings

246.20 Other Type Share Capital

12.00 Reserves & Surplus

20.00 Internal Cash Accruals

3.00 Debentures / Bonds

Unsecured

36.00 Loans/Deposits

14.27

465.07 TOTAL

Long/Medium Term

**Existing Proposed** 

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

MEANS OF FINANCE

**Particulars** 

# Project at a Glance

Year	Annu	alised	Book Value	Debt	Dividend	l Reta Earn		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per	Share	Per Share	Per S	Share			No.of Times	
	`	•	•	`	`	%	`	%	•		%
1-2	4.10	9.18	14.10	24.00	0.00	100.00	4.10	0.00	4.10	1.00	0.00
2-3	6.55	10.95	20.66	18.00	0.00	100.00	6.55	0.00	6.55	1.00	0.00
3-4	8.98	12.79	29.63	12.00	0.00	100.00	8.98	0.00	8.98	1.00	0.00
4- 5	11.34	14.65	40.97	6.00	0.00	100.00	11.34	0.00	11.34	1.00	0.00
5- 6	13.61	16.49	54.58	0.00	0.00	100.00	13.61	0.00	13.61	1.00	0.00



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Assets Curren

	oject at		JIGI	
Year	D. S. C. R.	Debt/ - Deposit		

Return on Net n Worth

PAT

%

**Profitability Ratio** 

Turnove t Ratio r Ratio

Net

ution

Contrib Ratio

IU	ject a	c a Giarro
r	D. S. C. R.	Debt/ - Equity Total Deposit as- Net s Debt Equity Worth

Individu Cumulati Overal al

Initial

2-3

3-4

5

4-

5-

1-2 1.36

1.61

1.90

2.24

2.65

ve

(Number of times)

1.61

1.75

1.90

(Number of times)

%

P/V

1.36 1.48

1.90

3.00 3.00 1.70 1.70 0.87

23.09 % 27.84 31.03

**GPM** 

%

**PBT** 

%

11.69% 9.47% 332.81 12.96 18.80%

66.03 % 66.03 % 66.03

1.08 0.84 1.22 1.33 1.95

0.15 0.15 0.00 0.00

0.40

0.87 1.08 0.40 0.57 0.28

0.11

%

1.96

%

% 33.20 % 34.63

%

23.77% 27.27%

29.76%

388.27 15.53 443.74 % 17.44 % 499.20

554.67

18.83

1.28 % 66.03 % 1.27 2.67 66.03 1.21 7.04

## Project at a Glance

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48.89%

54.93%

**BEP** 

BEP - Maximum Utilisation Year

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

22.31% 2 Years 4 Months



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

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# Major Queries/Questions Answered in the Report?

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



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

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- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing plant?
- 10. What are the requirements of raw material for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing Business?
- 12. What is the Manufacturing Process of Linear Alkyl Benzene Sulphonic Acid?

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- 13. What is the total size of land required for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing plant?
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- 8. EXPORT: ALL COUNTRIES
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(npcs)					
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		A STATE OF THE PARTY OF THE PAR	
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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

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



# **Tags**

#LinearAlkylBenzeneSulfonate #LinearAlkylBenzeneSulfonateMarket #LASProduction #LABSProduction #LASBusiness #ChemicalBusiness **#ChemicalIndustry** #ChemicalProduction DetailedProjectReport #businessconsultant **#BusinessPlan #NPCS** #feasibilityReport #entrepreneurindia #startupbusiness **#ProjectReport** #startup #projectconsultancy **#businessopportunity #IndustryDemands** #profitablebusiness #ManufacturingBusiness



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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:

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- 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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# NIIR PROJECT CONSULTANCY SERVICES

**AN ISO 9001: 2015 CERTIFIED COMPANY** 

www.niir.org



# 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

www.niir.org



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.

www.entrepreneurindia.co



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

www.entrepreneurindia.co

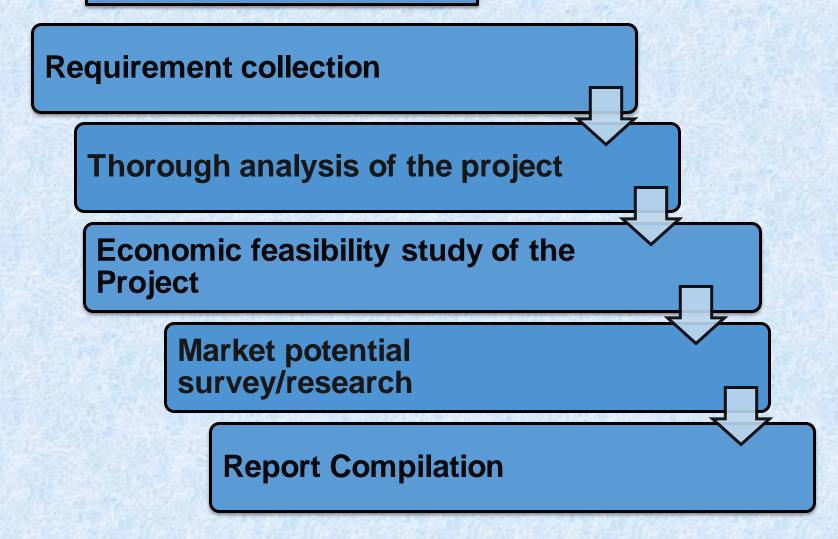


### How are we different?

- 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



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### Who do we Serve?

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



### **Sectors We Cover**

- o Ayurvedic And Herbal Medicines, Herbal Cosmetics
- o Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues,
   Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- o 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
- o 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 & Hospitability 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
- o Organic Farming, Neem Products Etc.



### Sectors We Cover cont...

- o 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
- o Plantations, Farming And Cultivations
- o Plastic Film, Plastic Waste And Plastic Compounds
- o Plastic, PVC, PET, HDPE, LDPE Etc.



### Sectors We Cover cont...

- Potato And Potato Based Projects
- Printing And Packaging
- o 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



# MARKET RESEARCH REPORTS



# Objective

- №To get a detailed scenario of the industry along with its structure and classification
- №To provide a comprehensive analysis of the industry by covering aspects like:
  - ⊗Growth drivers of the industry
  - &Latest market trends
  - ⊗Insights on regulatory framework
  - **SWOT** Analysis

  - ⊗Foreign Trade
  - ⊗Porters 5 Forces Analysis



# Objective

- ⊗To provide forecasts of key parameters which helps to anticipate the industry performance
- ⊗To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ™To help an entrepreneur/manager in keeping abreast with
   the changes in the industry
- ⊗To evaluate the competitive landscape of the industry by detailing:
  - ⊗Key players with their market shares
  - >> Financial comparison of present players



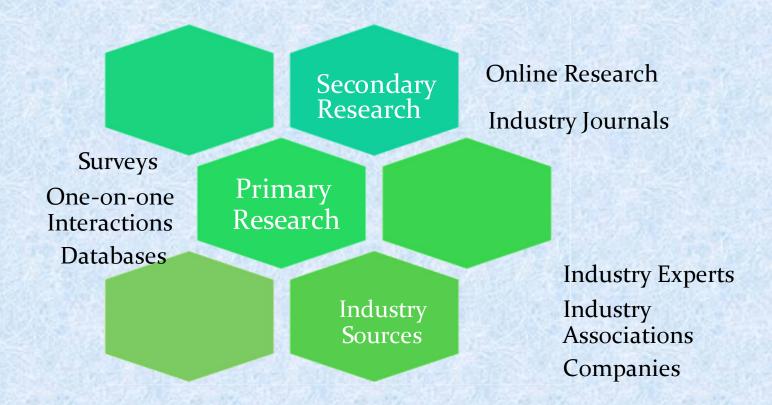
# Clientele

- **®Venturist/Capitalists**
- >> Entrepreneur/Companies
- **∞**Investment Funds
- ⊗Foreign Investors, NRI's
- ®Project Consultants/Chartered Accountants
- **∞**Banks
- **∞**Corporates

Click here for list



### Data Sources





# Scope & Coverage





# Our Team

©Our research team comprises of experts from various financial fields:

∞MBA's

⊗Financial Planners

research veterans with decades of experience



# Structure of the Report

- •1. Overview
- •2. Market Analysis
  - □2.1Growth Drivers
  - □2.2Emerging Trends in the Industry
  - □2.3Regulatory Framework
  - □2.4SWOT Analysis
  - □2.5Herfindahl-Hirschman Index (HHI)
- •3. Market Forecasts
- •4. Key Players



# Structure of the Report

Cont

- №5. Key Financials and Analysis
- ≈5.1 Contact Information
- ≈5.2 Key Financials
- ≈5.3 Financial comparison
- 806. Industry Size & Outlook

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# Contact us

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