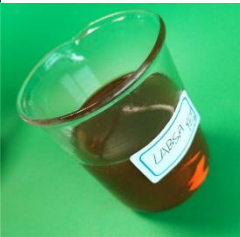




Production of Linear Alkyl Benzene Sulphonic Acid (LABSA).



A major ingredient of Household Detergents, Laundry Powders, Laundry Liquids, Dishwashing Liquids, Other Household Cleaners

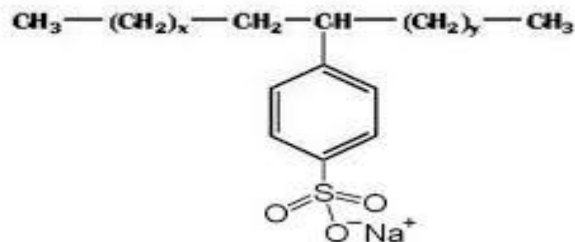
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Introduction

Linear Alkylbenzene Sulphonic Acid can be neutralized with caustic soda (NaOH) to form sodium alkylbenzene sulphonate-an extensively applied anionic surfactant. Linear alkylbenzene sulfonic acid is the largest-volume synthetic surfactant because of its relatively low cost, good performance, the fact that it can be dried to a stable powder and the biodegradable environmental friendliness as it has straight chain. LABSA is not inflammable substance and can dissolve in water, but not in organic solvent. LABSA is quite absorbent and its biodegradability is above 90%.



Linear Alkylbenzene Sulphonic Acid is extensively applied anionic surfactant. It is raw material for detergent industry characterized by detergency, foam, moisture, and emulsion and dispersing.

Linear alkylbenzene sulfonic acid (LABSA) is prepared commercially by sulfonating linear alkylbenzene (LAB). Linear alkylbenzene sulfonate (LAS), the world's largest-volume synthetic surfactant, which includes the various salts of sulfonated alkylbenzenes, is widely used in household detergents as well as in numerous industrial applications.



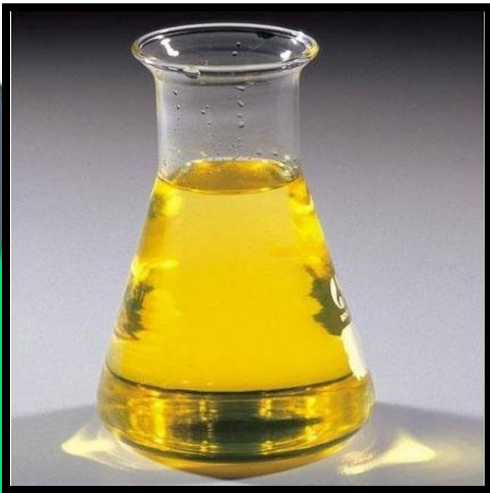
It is highly efficient versatile surfactant suitable for use separately as detergent in acidic environments. As intermediate it is usually neutralized with various bases to produce sulfonates that are used in numerous industries, most commonly in the production of liquid and powder detergents, household and I&I cleaners, laundry detergents, dishwashing liquids, car wash products, hard surface cleaners etc. Besides these s applied in various industrial applications such as agriculture, emulsion polymerization, oil field chemicals etc. Linear Alkyl Benzene Sulphonic Acid is an anionic surfactant with molecules characterized by a hydrophobic and a hydrophilic group. They are nonvolatile compounds produced by sulfonation.

Linear Alkyl Benzene Sulphonic Acid is an anionic surfactant with molecules characterized by a hydrophobic and a hydrophilic group. They are nonvolatile compounds produced by sulfonation. Linear alkyl benzene sulfonic acid are complex mixtures of homologues of different alkyl chain lengths (C10 to C13 or C14) and phenyl positional isomers of 2 to 5-phenyl in proportions dictated by the starting materials and reaction conditions, each containing an aromatic ring sulfonated at the para position and attached to a linear alkyl chain at any position with the exception of terminal one (1-phenyl).

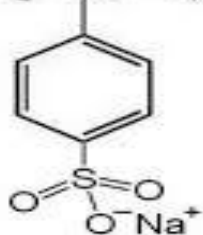


Uses:

High action of detergency, moistening, foaming, emulsion. Widely applied in a variety of detergents and emulsifiers, such as washing powder, daily-use chemical detergent, utensils detergents and textile industry of the cleaning agent, dye, electroplating industry, leather industry, degreasing agents and paper industry's de-coloring agent. Household detergents including laundry powders, laundry liquids, dishwashing liquids and other household cleaners.



- It is used in anionic specialty formulations
- In other industries such as textile industries, it is used as an mercerising or washing agent
- It is used to increase the surface area of distempers
- As main active matter in all forms of Detergents like Cake, Powder and Liquid formulations
- As emulsifier and wetting agent in small quantity with other surfactants in Toilet soaps for foaming
- In Pesticides to improve the quality of spray



Market Outlook

Rapidly growing dish washing liquid demand across the globe, particularly due to positive growth indicators in the food & beverage industry is another factor boosting the global linear alkylbenzene sulfonate market size in the recent years. As dish washing liquid is essentially required in the food & beverage sector.

Linear alkylbenzenes sulfonate (LAS) belongs to the family of organic compounds. Linear alkylbenzenes sulfonate is generally produced from sulfonation reaction of linear alkylbenzene (LAB). The characteristic properties of linear alkylbenzenes sulfonate mainly depends upon the purity of linear alkylbenzene and sulfonation technology used for LAS production.

Changing lifestyle and shifting preference towards the environmental-friendly products have led to significant rise in the demand for linear alkylbenzene sulfonate-based personal care products and detergents. Increasing demand for detergents and cleaners in order to maintain hygiene standard has resulted into increase in demand for linear alkylbenzene sulfonate. Furthermore, industrial norms pertaining to the hygiene standard in the food & beverage, pharmaceutical, healthcare, chemicals and many other industries have led to increase in demand for detergents for industrial cleaning application, which subsequently results into increase in demand for the linear alkylbenzene sulfonate market. Moreover, rising consumer spending, improved lifestyle and increasing demand for personal care products across the globe help to increase the demand for linear alkylbenzene sulfonate.

Apart from this, availability of alternative synthetic chemicals and pricing advantage over the linear alkylbenzene sulfonate-based products may hamper the growth of the market.

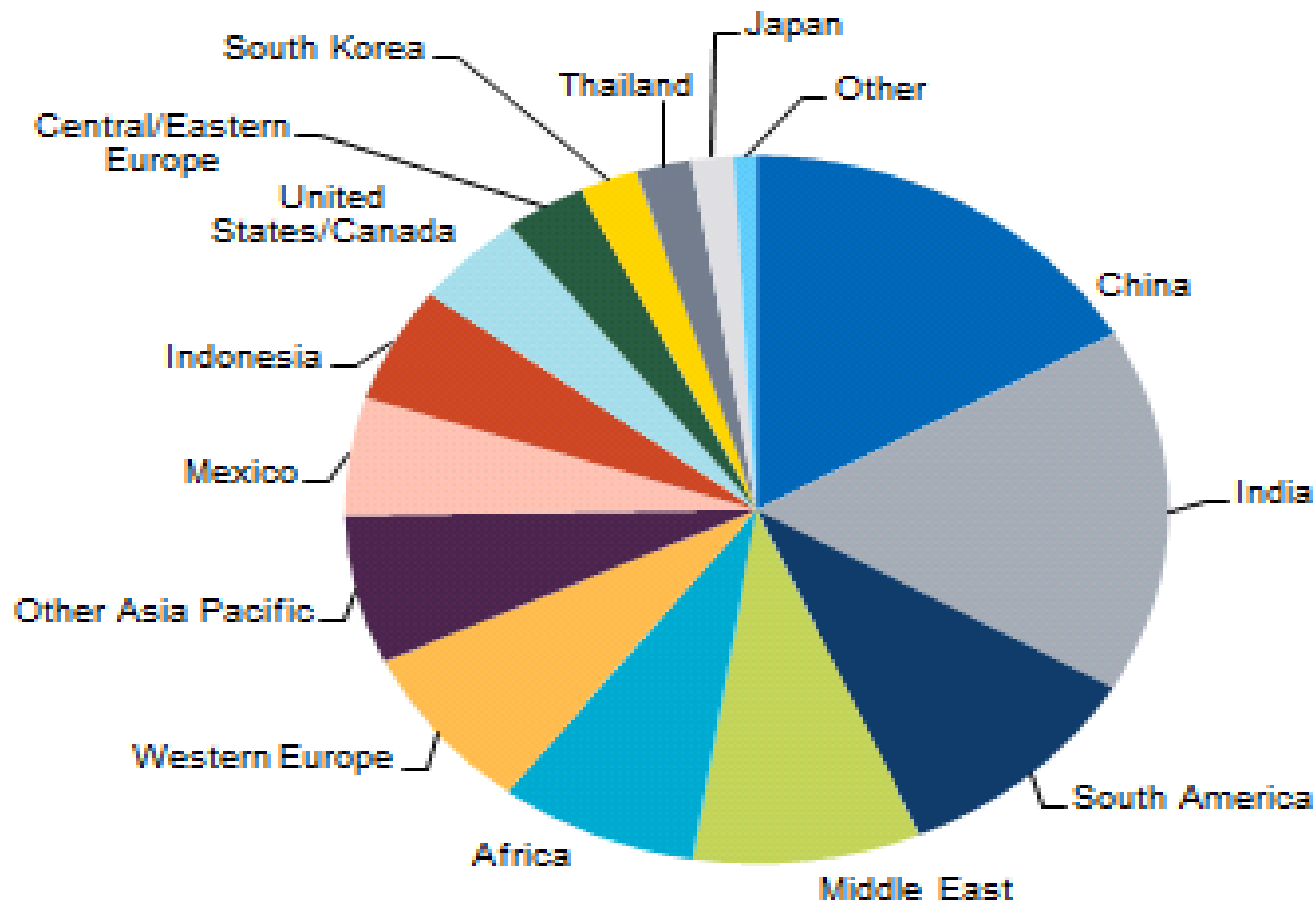
The global linear alkylbenzene sulfonate is mainly dominated by the Asia Pacific (APAC) region and is expected to boost the demand for linear alkylbenzene sulfonate over the forecast period, owing to increasing population coupled with growing lifestyle, increasing per capita expenditure and increasing demand for personal care products. Rapid urbanization, industrial growth and changing consumer preference towards environmental-friendly surfactant & detergents help to drive the linear alkylbenzene sulfonate market in APAC and is expected to register significant growth over the forecast period.

Linear alkylbenzene sulfonic acid (LABSA) is the largest-volume synthetic surfactant because of its relatively low cost, good performance. LAB is straight chained and can be dried to a stable powder, which are biodegradable. LAB is also required for the manufacturing of LABSA and linear alkylbenzene sulfonate (LAS), which comprises the largest global share in synthetic surfactant sector. About 83-87% of LAS is being used in household detergents, dishwashing liquids, laundry liquids, laundry powders, and other household cleaners.

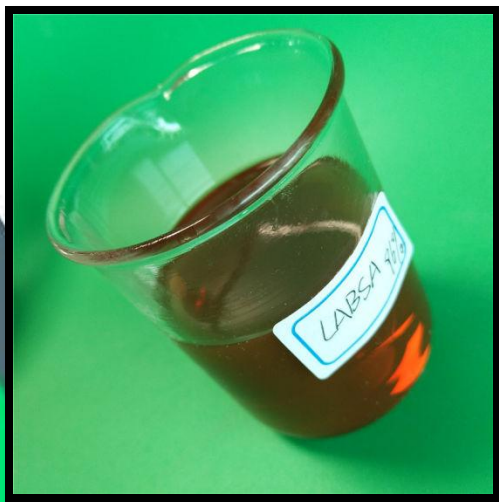
LABSA industry has low technology barrier and is labor intensive industry. Currently, there are many producing companies in the world LABSA industry. The main market players are Ho Tung, CEPSA, Sasol, KAPACHIM, Stepan, New India Detergents, ISU Chemical and Nanjing Gige. The production of LABSA increased to 3211.81 MT in 2016 from 2756.30 MT in 2012 with average growth rate of 3.90%. Global LABSA capacity utilization rate remained at around 73% in 2016



World Consumption of LABSA-2017



About 82–87% of LAS is used in household detergents, including laundry powders, laundry liquids, dishwashing liquids, and other household cleaners. Industrial, institutional, and commercial cleaners account for most of the other applications, but LAS is also used as an emulsifier (e.g., for agricultural herbicides and in emulsion polymerization) and as a wetting agent. Very small volumes are also used in personal care applications.



***The major players in global Linear Alkyl Benzene
Sulphonic Acid market include:***

- **CEPSA**
- **Sasol**
- **KAPACHIM**
- **Stepan**
- **SK**
- **Fogla Group**
- **New India Detergents**
- **ISU Chemical**
- **Solvay**
- **Dada Surfactants**
- **Huntsman**

- **Kao**
- **Tufail**
- **Hansa Group**
- **Miwon Chemical**
- **NCSP**
- **FUCC**
- **Lion**
- **Ho Tung**
- **Nanjing Gige**

Machinery Photographs



Storage Tank



Sulphur Filtration



Heat Exchanger



Converter Column

Project at a Glance

PROJECT AT A GLANCE				(USD in Thousands)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	420.00	420.00	Capital	0.00	1685.43	1685.43
Buildings	0.00	935.00	935.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	2839.00	2839.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	103.50	103.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	5056.28	5056.28
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	260.00	260.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	2144.21	2144.21				
TOTAL	0.00	6741.71	6741.71	TOTAL	0.00	6741.71	6741.71

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	
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	635.35	974.15	645.35	2400.00	0.00	100.00	635.35	0.00	635.35	1.00	0.00
2-3	870.75	1161.53	1516.10	1800.00	0.00	100.00	870.75	0.00	870.75	1.00	0.00
3-4	1124.23	1374.03	2640.33	1200.00	0.00	100.00	1124.23	0.00	1124.23	1.00	0.00
4-5	1373.72	1588.51	4014.05	600.00	0.00	100.00	1373.72	0.00	1373.72	1.00	0.00
5-6	1615.74	1800.60	5629.79	0.00	0.00	100.00	1615.74	0.00	1615.74	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	1.40	1.40		1.47	1.47	7.22		3.05 %	1.39%	0.98 %	5995.22	5.50%	4.82	1.10
2-3	1.65	1.52		0.72	0.72	5.05		3.27 %	1.74%	1.15 %	6543.20	5.14%	4.99	1.14
3-4	1.98	1.66	1.99	0.33	0.33	3.75		3.42 %	2.02%	1.30 %	7467.20	5.13%	5.01	1.18
4-5	2.38	1.82		0.12	0.12	2.91		3.52 %	2.22%	1.42 %	8391.20	5.13%	4.96	1.23
5-6	2.86	1.99		0.00	0.00	2.34		3.59 %	2.37%	1.50 %	9315.20	5.12%	4.88	1.33

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	49.64%
Total BEP (% of Installed Capacity)	52.99%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.95%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	70.286

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 ?**

- 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?**

- 13. What is the total size of land required for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing plant ?**
- 14. What will be the income and expenditures for Linear Alkyl Benzene Sulphonic Acid Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Linear Alkyl Benzene Sulphonic Acid Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing plant?**
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- 18. What are the Personnel (Manpower) Requirements for setting up Linear Alkyl Benzene Sulphonic Acid Manufacturing Business?**
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- 21. What is the Break-Even Analysis of Linear Alkyl Benzene Sulphonic Acid Manufacturing plant?**
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- **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**
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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

Production of Linear Alkyl Benzene Sulphonic Acid (LABSA), Production of Linear Alkybenzene Sulfonic Acid (LAS), Linear Alkylbenzene Sulfonic Acid, LAB-LAS Production, LABSA, Linear Alkyl Benzene, Manufacturing Process of Linear Alkyl Benzene Sulphonic Acid, Linear Alkyl Benzene Production Process, Linear Alkylbenzene Sulfonate Manufacturing Process, Linear Alkyl Benzene Process Flow Diagram, Linear Alkyl Benzene Sulphonic Acid (LABSA), LABSA Manufacturing Process Pdf, Linear Alkyl Benzene Sulphonic Acid Specification, Linear Alkyl Benzene Uses, Linear Alkyl Benzene Sulfonation Process, Linear Alkyl Benzene Sulphonic Acid, Linear Alkylbenzene Sulfonate (LAS), Industrial Chemicals, Sulfonic Acid, Project Profile on Linear Alkyl Benzene, Manufacturing Process of Linear Alkyl Benzene Sulphonic Acid, Linear Alkyl Benzene Manufacture, Linear Alkyl Benzene Sulphonic Acid Industry, Linear Alkylbenzene & Sulphonate, LAB Industry, Project Report on Linear Alkylbenzene Sulfonate Manufacturing Industry, Detailed Project Report on Linear Alkylbenzene Sulfonate Manufacturing, Project Report on Linear Alkylbenzene Sulfonate Manufacturing, Pre-Investment Feasibility Study on Linear Alkylbenzene Sulfonate Production, Techno-Economic Feasibility Study on Linear Alkylbenzene Sulfonate Production, Feasibility Report on Linear Alkylbenzene Sulfonate Production, Free Project Profile on Linear Alkylbenzene Sulfonate Manufacturing, Project Profile on Linear Alkylbenzene Sulfonate Manufacturing, Download Free Project Profile on Linear Alkylbenzene Sulfonate Manufacturing

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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.



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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.

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Website : www.entrepreneurindia.co , www.niir.org

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



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

Contact us

NIIR PROJECT CONSULTANCY SERVICES

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