

Lead Production

(Litharge, Refined Lead, Red Lead & Grey Lead)



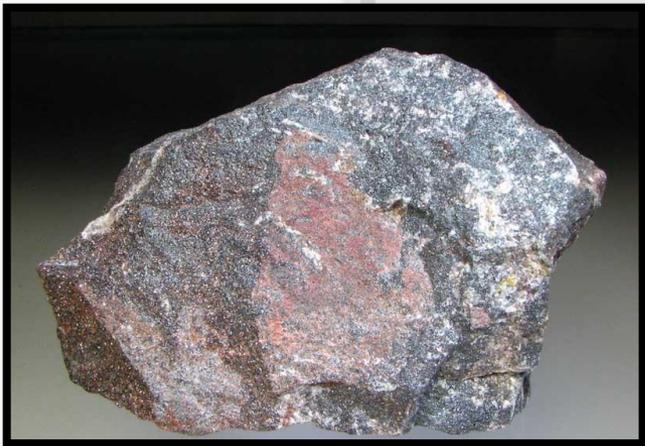
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Introduction

Lead is a soft and malleable metal belonging to the carbon group. It is the heaviest non-radioactive element which occurs naturally on earth in the form of four isotopes: lead-208, 207, 206, and 204. It is generally found in ores with copper, silver and zinc and is extracted together with these metals. Lead compounds exist in two main oxidation states: +4 and +2. It is widely used in construction activities, production of weights, lead-acid batteries, and as a radiation shield.

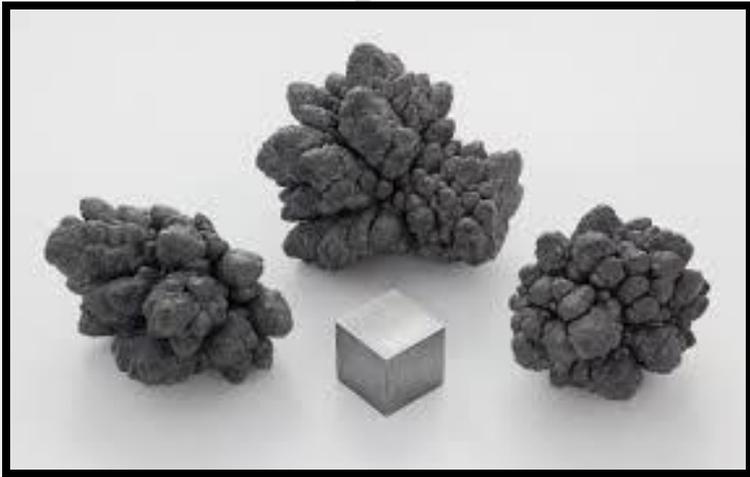


Conventional lead-acid batteries have a significant history in providing energy storage for a wide range of end-use applications, in mobile as well as stationary applications.

Usually, lead is found in conjunction with other metals such as silver and zinc and is mined as a by-product. The ore is first mined post which it is concentrated, smelted and refined in a blast furnace with limestone and coke to remove and recover the other metals.

The lead metal is primarily extracted from sulphide ore i.e. galena, which has the 86.6% lead content. Two other minerals commercially mined for lead are cerussite and anglesite. Over 95% of all lead mined is derived from one of these three minerals.

The principal usage of lead is for the manufacturing of lead-acid batteries which is used for both automotive and industrial applications. Lead is also used in remote access power systems, load levelling systems, in compounds in the glass and plastics industries and radiation shielding. Lead is a metal which effectively resists corrosive effects of atmospheric gases and acidic substances and it is, therefore, largely used for coating iron-sheets, sheathing cables, lining acid tanks etc.



Batteries (74%): The single largest use of lead is in the manufacture of batteries (74%), which can be sub-divided into SLI (Starting-Lighting-Ignition) batteries (50%) and Industrial Batteries (24%). Demand for both, SLI batteries and Industrial batteries can be further split into demand from new sales and replacement demand. In addition to this, lead acid batteries are used in many other applications where they may provide main or auxiliary power.



SLI Batteries: Lead is the primary ingredient used for manufacturing automotive batteries. These batteries are mainly used in cars and light vehicles, but are also found in other applications such as golf carts and boats. For SLI batteries segment, replacement demand outstrips the demand from the original equipment manufacturers (OEM's) in a ratio of about 3:1. A standard lead acid battery for starting, lighting and ignition of vehicles has the following average composition by weight: Lead metal: 34%; Lead oxide paste: 39%, Electrolyte (free sulphuric acid):11-12% others (ebonite, PVC, paper, etc.): 8-10%, polypropylene 5-6%

Lead is used for cable sheathing especially for electrical cables and telecom cables due to its corrosion resistance, water imperviousness and ductility properties.

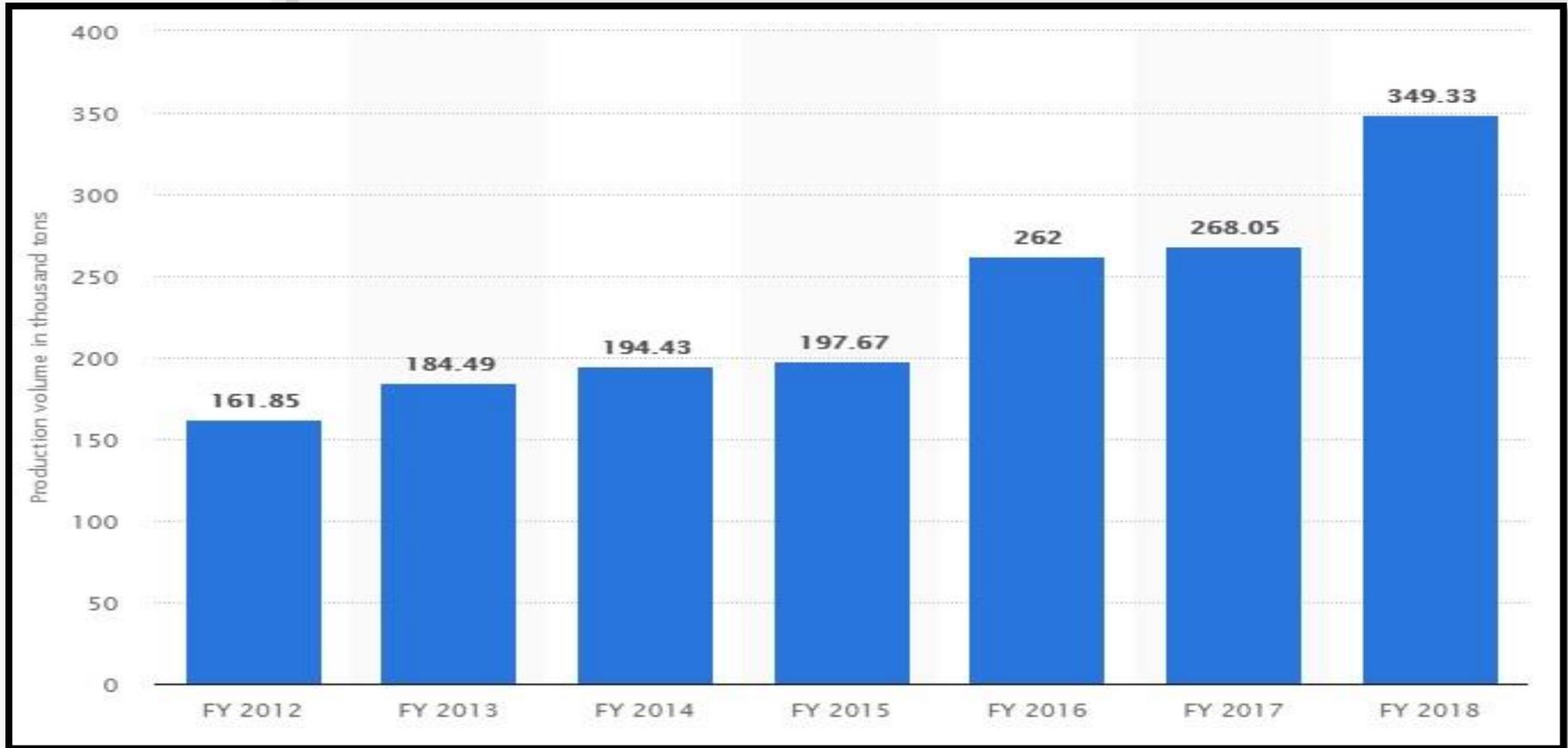
Lead is also used for sheathing of cables which are used in the petrochemical industry, under sea and underground high voltage cables. Though, aluminium or stainless steel sheaths can be used for underground cables, there is no substitute for under-sea cables, as stainless steel or aluminium do not have the same resistance to corrosion by salt water as lead. Similarly, lead exhibits corrosion resistance by oils and hence is used in underground cables by the petrochemical industry as well.



Market Outlook

In India, lead mines are mainly concentrated in the state of Rajasthan. The lead industry in India is poised to perform well on the back of good demand prospects. India is Asia's largest lead consuming market after China where growth is largely dependent on the demand from the automotive sector and the industrial sector. India has the second largest number of mobile subscribers in the world after China, and is currently ranked 5th in global vehicle production. India's growing telecom industry and on-going infrastructure development has boosted the industrial battery demand, as is the case with an expanding photovoltaic market which is planned to reach 227 GW by 2022.

Volume of Lead Production in India from FY 2012 to FY 2018 (In Thousand Metric Tons)



Growth of the building construction industry is anticipated to be one of the major factors driving the demand for lead over the next few years. Lead is widely used in the construction industry as architectural metals for roofing materials, gutters and gutter joints, and on roof parapets. Moreover, increasing demand for lead-acid batteries for automotive application on account of rising automobile industry is expected to contribute to the growth of the market.

However, growing health concerns regarding the use of lead paints is expected to slow down the growth of the market. North America was the largest consumer for lead owing to its vast construction and automobile industry.



The demand in Europe is expected to rise moderately on account of declining automobile sales. However, future market growth is expected to be from Asia Pacific on account of rising demand for energy in smart grid technology which includes electrical vehicles operated on lead batteries.

This factor is further expected to provide new opportunities for the growth of the market. Development of absorbed glass mat (AGM) lead acid batteries on account of their favorable characteristic of being maintenance-free are also expected to provide growth opportunities for the lead market.



Global Lead Market (KT)

	2013	2014	2015	2016	2017	Jan- May 2017	2018
Mine Production	5,089	4,946	4,850	4,679	4,703	1,923	1,983
Metal Production*	11,225	11,023	10,959	11,158	11,451	4,753	4,829
Metal Usage	11,213	10,995	10,941	11,126	11,594	4,806	4,872

The global mine production of lead amounted to 4,703 KT, of which China (2,400 KT), followed by Australia (313 KT) accounted for 51% and 9.6% of the production respectively. Other nations which contributed to the global mine production of lead were USA (6.7%), Peru (6.4%), Russia (5.3%), and Mexico (4.9%). India accounted for 3.2% of the global mine production during CY17.

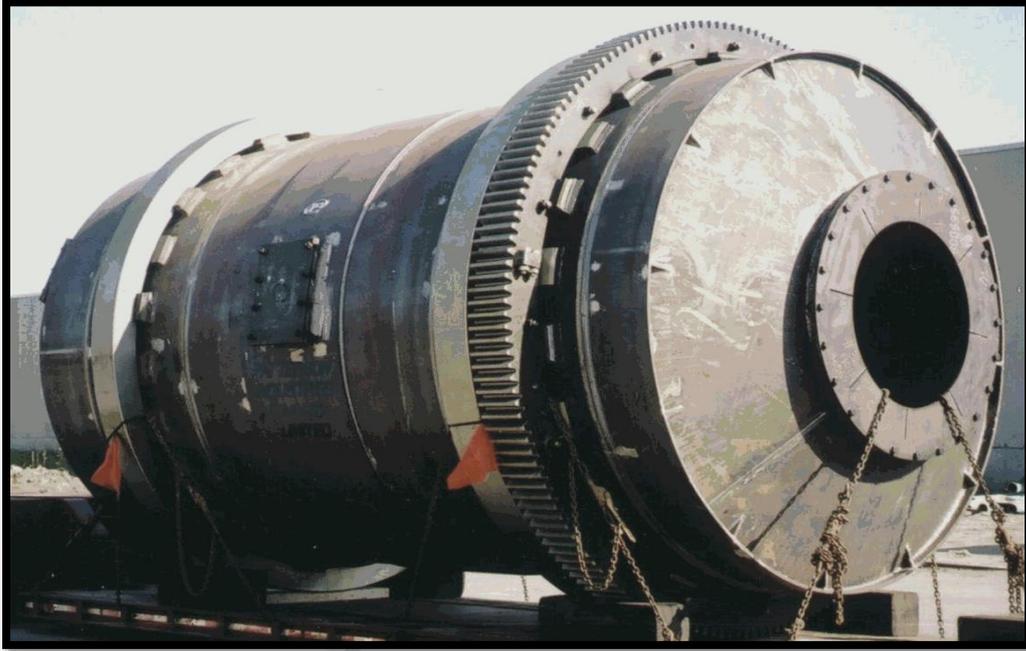
Global refined lead production in CY17 increased by 2.6% to 11,451 KT, and metal consumption increased by 4.2% to 11,594 KT, resulting in a production to consumption deficit of about 143 KT of refined lead. There was an increase in production of refined lead in Europe, Canada, China, India and Kazakhstan while the production was significantly lower in the United States, Australia and the Republic of Korea.

The increase in overall global usage was influenced by a 3.1% rise in demand from China. Refined lead usage also increased in Japan, the Republic of Korea and the United States. In the European region, demand was 3.5% higher due to the increase in usage in Germany, Greece, Italy, Poland and the UK

Lead demand in the global markets is driven by its usage in batteries (80%), rolled and extruded products (6%), pigments and compounds (5%), ammunition (3%), alloys (2%), cable sheathing (1%) and miscellaneous other applications (3%).



Machinery Photograph



Rotary Furnace



Refining Kettle



Ingot Casting Machine



Moulds

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propos ed	Total
Land & Site Development Exp.	0.00	65.00	65.00	Capital	0.00	90.28	90.28
Buildings	0.00	115.00	115.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	82.50	82.50	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	23.00	23.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash			
Franchise & Other Deposits	0.00	0.00	0.00	Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Long/Medium Term Borrowings	0.00	270.83	270.83
Provision for Contingencies	0.00	7.50	7.50	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	48.10	48.10	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	361.10	361.10	TOTAL	0.00	361.10	361.10

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	6.59	9.85	16.59	24.00	0.00	100.00	6.59	0.00	6.59	1.00	0.00
2-3	9.57	12.43	26.17	18.00	0.00	100.00	9.57	0.00	9.57	1.00	0.00
3-4	12.55	15.06	38.72	12.00	0.00	100.00	12.55	0.00	12.55	1.00	0.00
4-5	15.44	17.66	54.16	6.00	0.00	100.00	15.44	0.00	15.44	1.00	0.00
5-6	18.22	20.18	72.38	0.00	0.00	100.00	18.22	0.00	18.22	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	1.41	1.41		1.45	1.45	3.49		7.31%	3.96%	2.66%	350.1	15.6%	3.38	1.08
2-3	1.75	1.57		0.69	0.69	2.18		8.00%	5.10%	3.31%	398.0	15.2%	3.52	1.21
3-4	2.15	1.75	2.15	0.31	0.31	1.46		8.46%	5.94%	3.79%	454.6	15.2%	3.50	1.37
4-5	2.63	1.94		0.11	0.11	1.04		8.78%	6.54%	4.15%	511.2	15.2%	3.40	1.54
5-6	3.20	2.15		0.00	0.00	0.77		8.98%	6.96%	4.40%	567.8	15.2%	3.25	1.91

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	50.80%
Total BEP (% of Installed Capacity)	53.90%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	30.39%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	18.600

Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Lead Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Lead 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**
- **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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- **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 Lead Production (Litharge, Refined Lead, Red Lead & Grey Lead).” provides an insight into Lead market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Lead project. The report assesses the market sizing and growth of the Indian Lead 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 Lead sector in India along with its business prospects. Through this report we have identified Lead project as a lucrative investment avenue.

Tags

#Lead_Production, How Lead is Made, Lead Production Process, #Lead_Manufacture, Lead Manufacturing, #Lead_Manufacturing_Process, #Litharge, Refined Lead, #Red_Lead_&_Grey_Lead, #Litharge_Plant, Litharge Manufacturing Plant, Litharge Manufacture, Lead Processing, #Lead_Industry, Lead Production Process, Extraction of Lead, #Refined_Lead_Production, #Red_Lead_Manufacture, Red Lead Manufacturing Plant, Manufacture of Red Lead, Process of Making Red Lead, #Project_Report_on_Lead_Production_Industry, Detailed Project Report on Lead Production, Project Report on Lead Production, Pre-Investment Feasibility Study on Lead Production, Techno-Economic feasibility study on Lead Production, #Feasibility_report_on_Lead_Production, Free Project Profile on Lead Production, Project profile on Lead Production, Download free project profile on Lead Production, Business Ideas that'll Make you Money in 2019, Best Business Ideas in India, Business Ideas in India for Beginners, Most Profitable Industries, What are the Most Successful Small Businesses? Which is the Best Profitable Business? Which is the Most Profitable Industry in India? Which Business is the Most Profitable in India? New Manufacturing Business Ideas, Extremely Profitable Manufacturing Business Ideas, Lucrative Business Ideas, Greatest Business Ideas for Young Entrepreneurs, Small Business Ideas to Make Money, Fastest Growing Industries to Start a Business, Which Industry is Growing Fast? Which Industries are Booming? Best Industries for Starting a Business, Best Small Businesses Opportunities 2019, Industries for Hot Start-Ups, Growing Industries to Start a Business, Booming Industries, Biggest Growth Industries for Start-Ups, How to Start a Business, Starting your own Business, Industrial Manufacturing Business Ideas, Best List of Manufacturing Business Ideas, Most Profitable Business to Start in India, Start your own Industry, Starting a Business, Money Making Manufacturing Businesses, Most Profitable Manufacturing Business to Start in India, Moneymaking Startup Business Ideas

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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](#)



Contact us

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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*
- *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



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You**

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