

LPG Cylinder Refilling Plant.



LP Gas Industry.



How to Start a Liquefied Petroleum Gas Filling Project

Introduction

LPG – Liquefied Petroleum Gas – describes flammable hydrocarbon gases including propane, butane and mixtures of these gases.

LPG, liquefied through pressurization, comes from natural gas processing and oil refining. LPG is used as heating, cooking and auto fuel. The term is widely used to describe two prominent members of a family of light hydrocarbons called “Natural Gas Liquids” (NGLs): propane (C₃H₈) and butane (C₄H₁₀).



The term “liquefied gas” may seem a contradiction in terms since all things in nature are either a liquid or a solid or a gas. Yet, liquidity is the unique character of LPG that makes it such a popular and widely used fuel. At normal temperature and pressure, LPG is gaseous. It changes to a liquid when subjected to modest pressure or cooling. In liquid form the tank pressure is about twice the pressure in a normal truck tyre, which means it is very safe when properly handled. LPG is a derivative of two large energy industries: the processing of natural gas liquids and the refining of crude oil.



The major sources of commercial LPG are natural gas processing and petroleum refining. Raw natural gas often contains excess propane and butanes which must be removed to prevent their condensation in high-pressure pipelines. In petroleum refining, LPG is collected during distillation, from lighter compounds dissolved in the crude oil, as well as generated in the “cracking” of heavy hydrocarbons. Therefore, LPG can be considered a by-product and its exact composition and properties will vary greatly with the source.



LPG Cylinder Refilling or Bottling Plant

LPG bottling or refilling plant is a plant where LPG is filled into bottles (cylinders) for storage and distribution among various LPG distributors. The plant has the facility to receive bulk LPG by Tank trucks (of various capacities e.g. 12MT, 17MT etc.) or pipeline from a reliable source e.g. Refinery or any other LPG Bottling Plant.



Uses of LPG:

LPG can be used in many applications in the industrial sector namely in space- and process-heating, powering industrial ovens, production of food, kilns, furnaces, production of packing material as well as in powering forklift trucks in warehouses.

- 1) The top most use of LPG is to use as the main fuel for vehicles. It burns better than diesel or petrol and hence, the top most use for LPG is to use it as ignition fuel. It is also more energy efficient and is said to leave lesser damaging impact on the atmosphere and the environment.**
- 2) LPG is also popularly used as a refrigerant. Since butane and propane are both considered to be energy efficient, LPG serves as a great hydrocarbon.**
- 3) LPG is also used as a chemical feedstock.**

- 4) Apart from being used as a motor fuel, it is also a great fuel used for other purposes.**
- 5) LPG is also used for agricultural purposes in drying processes.**
- 6) As a great industrial fuel, LPG is also used in solution heating processes.**
- 7) The other main use of LPG is as domestic fuel or what we know as cooking fuel. LPG gas is a combination of propane and butane. Even these individual components have many domestic uses. Like propane is used in portable stoves as well as barbeques and butane is used in deodorants and even gas lighters used to light gas ovens in the kitchens and even cigarettes.**
- 8) LPG is also used in centralized heating solutions both for domestic as well as industrial premises.**

- 9) **The paper industry as well as the food processing industry is also one of the top most industries which rely heavily on LPG. It has also a major role in the plastic industry and is even used in making explosives.**
- 10) **LPG is also used to produce electrical energy by running turbines.**



Advantages:

- **Compared to petrol, running the vehicle engine on LPG results in around a 10% increase in consumption.**
- **A very important advantage of LP Gas as a fuel is the cost of itself.**
- **It has a higher heating value, allowing you to heat your home at a lower price.**
- **LPG is easy to transport**
- **Due to higher octane rating, the combustion of LPG is smoother and knocking is eliminated and the engine runs smoothly.**
- **When LPG leaks past the rings into the crankcase, it does not wash oil from cylinder walls and does not generate black carbon. Hence, the lubricating layer is not washed away. Thereby, the engine life is increased by 50%.**

- **Due to the absence of carbon deposits on the electrodes of the spark plugs, the life of the spark plugs is increased.**
- **Using LPG is very easy as it can be utilized without the need for significant infrastructural changes and technological requirements.**
- **LPG offers energy solutions that are extremely economical.**
- **LPG cannot be tampered with and hence its purity is maintained.**
- **LPG generates the minimum greenhouse gas discharge out of all the existing fossil fuels. It comprises really less quantity of Nitrogen, Sulphur, and other particulate substances that are detrimental to the atmosphere. Research states that cooking with LPG actually helps in bringing down the greenhouse emission by up to 70 percent.**

Market Outlook

The global liquefied petroleum gas (LPG) market is highly competitive, featuring a large number of equally balanced competitors. The top five companies accounted for 17.2% of the global market in 2013.

Owing to their higher energy content and ability to burn easily as compared to other fuels, LPG, also known as autogas, is used as fuel in automobiles. The numerous environmental benefits of using autogas is another factor driving its demand. This is because autogas is considered to be greener as compared to other fuels such as gasoline and diesel. Autogas also enjoys legislative policy support and is cost-effective, thus driving its adoption.

LPG is widely used as cooking fuel in residential sectors. The ease in transportation through pipelines, tankers, and cylinders results in the low cost distribution of LPG cylinders. Moreover, the low CO2 emission from LPG makes it one of the best fuels in the cooking sector. LPG is extensively used in the rural sector. The Indonesian government launched a conversion program and distributed LPG cylinders and gas stoves to the rural population. Similarly, the Indian government has also come up with initiatives, supporting the low cost distribution of LPG cylinders to rural sectors. All these factors contribute to the heightened demand for LPG.

By end use, the residential and commercial segment led in 2013, accounting for a 63.25% of the global LPG market. The segment is expected to continue its lead in the market in the coming years.

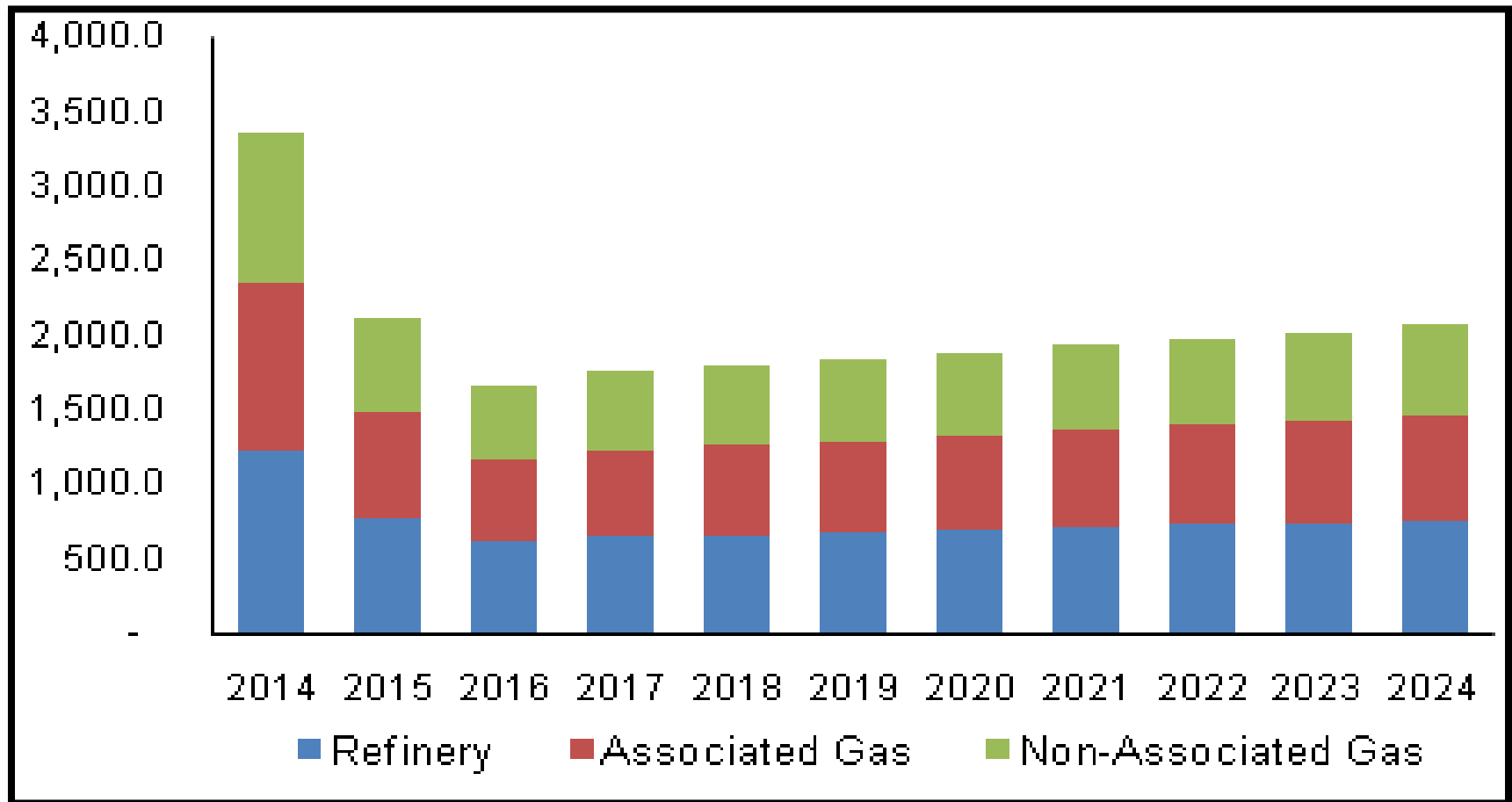
By source, the non-associated gas segment is expected to witness the highest growth rate in the coming years.

Global Liquefied Petroleum Gas (LPG) market is expected to experience significant growth. The growing demand for LPG in residential and commercial sectors in developing nations has increased the demand for liquefied petroleum gas (LPG) market. Several initiatives taken by the government in the developing nations like Indonesia, China, and India to substitute traditional cooking fuels such as coal, wood, and kerosene with liquefied petroleum gas (LPG) will fuel market growth in the upcoming years. Governments across the world are promoting LPG as auto emission gas because it emits lesser quantities of carbon-dioxide gas into the air causing less pollution.

In addition, rapid urbanization and growing demands of consumers in developing nations are promoting the demand for real estate, infrastructure, cars, electronic devices, and other goods followed by consumption of energy resources. The demand for LPG will continue to rise followed by its consumption particularly in the developing countries where the transportation industry is undergoing rapid growth and development.



Liquefied Petroleum Gas (LPG) Market Revenue by Source, 2014 - 2024, (USD Million)



Liquefied petroleum gas (LPG) is a flammable mixture of various hydrocarbons, and majorly consists of propane and butane. LPG gas is colorless and odorless; and emits less quantity of CO₂ when compared to petrol or diesel. Thus, LPG is extensively used as a cooking fuel, both in commercial and residential setups throughout the country. Application of LPG in the industrial sector is also increasing, owing to growing use of LPG as a feedstock in petrochemical plants in the country. Moreover, rising demand from transport segment and increasing consumption of LPG to produce various chemical components such as propylene, ethylene, butadiene, etc., is further anticipated to boost demand for LPG in the country in the coming years. Furthermore, increasing prices of naphtha, rising LPG imports and expanding distribution network are anticipated to fuel consumption of LPG in India during FY17-FY26.

LPG consumption in India is forecast to surpass 35 MMT by FY26. North region dominated India LPG market over the past few years, and is further forecast to continue dominating the market through FY26. North region comprises several LPG bottling plants, oil refineries and petrochemical plants.

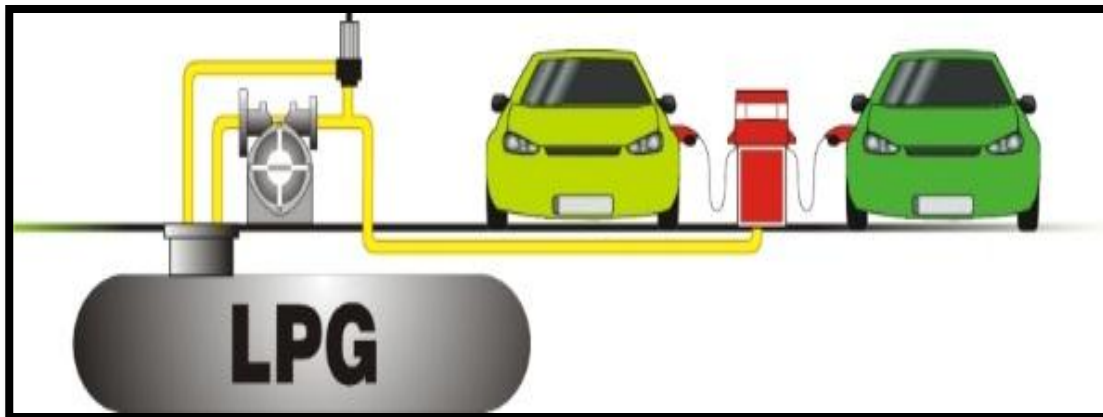


LPG

Demand : Past and Future

Year	(In Million Metric Tonne)
1990-91	2.42
2000-01	7.02
2001-02	7.73
2002-03	8.35
2003-04	9.30
2004-05	10.20
2005-06	10.70
2006-07	10.95
2007-08	11.50
2008-09	12.10
2009-10	13.05
2010-11	14.22
2011-12	15.34
2012-13	16.12
2011-14	16.64
2014-15	18.21
2015-16	19.47
2016-17	20.81
2017-18	22.25
2018-19	23.78
2019-20	25.42
2024-25	38.04

A rapid increase in urban population combined with increasing LPG penetration in rural areas has resulted in a 10% growth in LPG consumption, making India the second largest LPG consumer in the World at 19 million tonne per year. Based on Government's continued efforts to promote clean fuel and increased adoption by consumers, LPG consumption is expected to see a sustained double-digit growth in the years to come.



Few Indian major players are as under:

- **Adani Dhamra L P G Terminal Pvt. Ltd.**
- **Aegis Gas (LPG) Pvt. Ltd.**
- **Aegis Logistics Ltd.**
- **Alert Petrogas Ltd.**
- **Asia LPG Pvt. Ltd.**
- **Balaji Pressure Vessels Pvt. Ltd.**

Machinery Photographs

Filling Equipments





LPG Storage Tank



Compressed Air System

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	1110.00	1110.00	Capital	0.00	4294.98	4294.98
Buildings	0.00	7515.00	7515.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	2141.50	2141.50	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	117.50	117.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	12884.94	12884.94
Preliminary& Pre-operative Exp	0.00	15.00	15.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	200.00	200.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	6010.92	6010.92				
TOTAL	0.00	17179.92	17179.92	TOTAL	0.00	17179.92	17179.92

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	704.33	964.15	714.33	2400.00	0.00	100.00	704.33	0.00	704.33	1.00	0.00
2-3	950.37	1180.33	1664.70	1800.00	0.00	100.00	950.37	0.00	950.37	1.00	0.00
3-4	1197.09	1400.80	2861.79	1200.00	0.00	100.00	1197.09	0.00	1197.09	1.00	0.00
4-5	1441.13	1621.74	4302.93	600.00	0.00	100.00	1441.13	0.00	1441.13	1.00	0.00
5-6	1681.78	1842.02	5984.71	0.00	0.00	100.00	1681.78	0.00	1681.78	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	1.39	1.39		1.41	1.41	3.49		17.01%	9.98%	6.48%	25653.85	54.99%	1.42	1.28
2-3	1.67	1.53		0.68	0.68	2.23		17.78%	11.72%	7.50%	14922.28	27.41%	1.48	1.37
3-4	2.01	1.68	2.02	0.31	0.31	1.54		18.31%	13.00%	8.27%	16696.72	26.84%	1.48	1.48
4-5	2.43	1.84		0.11	0.11	1.12		18.68%	13.96%	8.84%	18471.16	26.39%	1.46	1.60
5-6	2.93	2.02		0.00	0.00	0.85		18.93%	14.69%	9.29%	20245.60	26.04%	1.41	1.92

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	27.84%
Total BEP (% of Installed Capacity)	31.24%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	30.77%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	11.041

Table of Contents of the Project Report

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the LPG Cylinder Refilling Plant and who are the key/major players ?**
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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 LPG Cylinder Refilling Plant provides an insight into LPG Cylinder Refilling market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of LPG Cylinder Refilling project. The report assesses the market sizing and growth of the Indian LPG Cylinder Refilling 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 LPG Cylinder Refilling sector in India along with its business prospects. Through this report we have identified LPG Cylinder Refilling project as a lucrative investment avenue.

Tags

LPG Filling Plant, LPG Cylinder Filling Plant, LPG Cylinder Plant, LPG Bottling Plant, LPG Gas Refilling Plant, LPG Gas Bottling Plant, LPG Gas Plant, Setting Up LPG Filling Plant, Project Profile on LPG Cylinders, Gas Filling Plant, Profitable Investment Opportunity in LPG Filling Plant, Gas Plant for LPG Cylinder with LPG Refilling, Gas Bottle Refill, Gas Bottle Refill, LPG is Filled into Bottles (Cylinders), Liquefied Petroleum Gas, LPG Gas Cylinder Filling Station and Plant, LP Gas Cylinder Filling Process, LP Gas Industry, LPG Stations (Cylinders and Autogas Filling Units), Mini LPG Bottling Plant, Cost of Setting Up LPG Bottling Plant, LPG Filling Plant Design, LPG Filling Plant Business Plan, LPG Bottling Plant Process Diagram, Project Report on LPG Bottling Plant, Investing in LPG Bottling Plant, Business Plan for Liquefied Petroleum Gas (LPG) Filling Plant, Cylinder Bottling Plant, Setting Up LPG Cylinder Filling Plant, Set Up LPG Bottling Plant, Project Report on LPG Gas Bottling Plant, Detailed Project Report on LP Gas Cylinder Filling, Project Report on LPG Gas Cylinder Filling Plant, Pre-Investment Feasibility Study on LPG Cylinder Refilling Plant, Techno-Economic feasibility study on LPG Gas Bottling Plant, Feasibility report on LPG Gas Cylinder Filling Plant, Free Project Profile on LP Gas Cylinder Filling, Project profile on LPG Gas Cylinder Filling Plant, Download free project profile on LPG Cylinder Refilling Plant

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Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)



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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.

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And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
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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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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*
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- *Laboratory Testing Services*
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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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