



**Profitable Investment**

**Opportunity in**

**LPG Filling Plant,**

**LPG Gas Cylinder**

**Filling Plant**

# **Introduction**

**Liquefied petroleum gas, or LP gas is one of the most common alternative fuels used in the world today. In fact, in many places, it isn't an alternative fuel at all. LP gas is the mainstay for heating and cooking in certain areas of India and some rural areas of the United States.**



**LPG is a mixture of commercial butane and commercial propane having saturated and unsaturated hydrocarbons. LPG is gaseous at normal atmospheric pressure, but may be condensed to the liquid state at normal temperature, by the application of moderate pressures. Liquefied petroleum gas {LPG} is a flammable mixture of hydrocarbon gases used as a fuel in heating appliances and vehicle. LPG is synthesized by refining petroleum or “wet” natural gas, and is almost derived entirely from fossil fuel.**



**LPG Cylinder is an essential item for filling liquefied petroleum gas used for cooling purpose. The body of LPG cylinder is deep drawn in two pieces then these are welded together to make a compact unit without any leak and defect etc. LPG cylinders are in use in 5 Kg., 12 Kg., 14.2 Kg. & 19 Kg. capacities.**

**LPG is primarily used as a thermal fuel and is consumed by industrial, commercial and household consumers. It burns cleanly, releasing very few sulphur emissions, and posing no ground or water pollution hazards. There are over a thousand applications of LPG particularly in commercial and industrial businesses.**



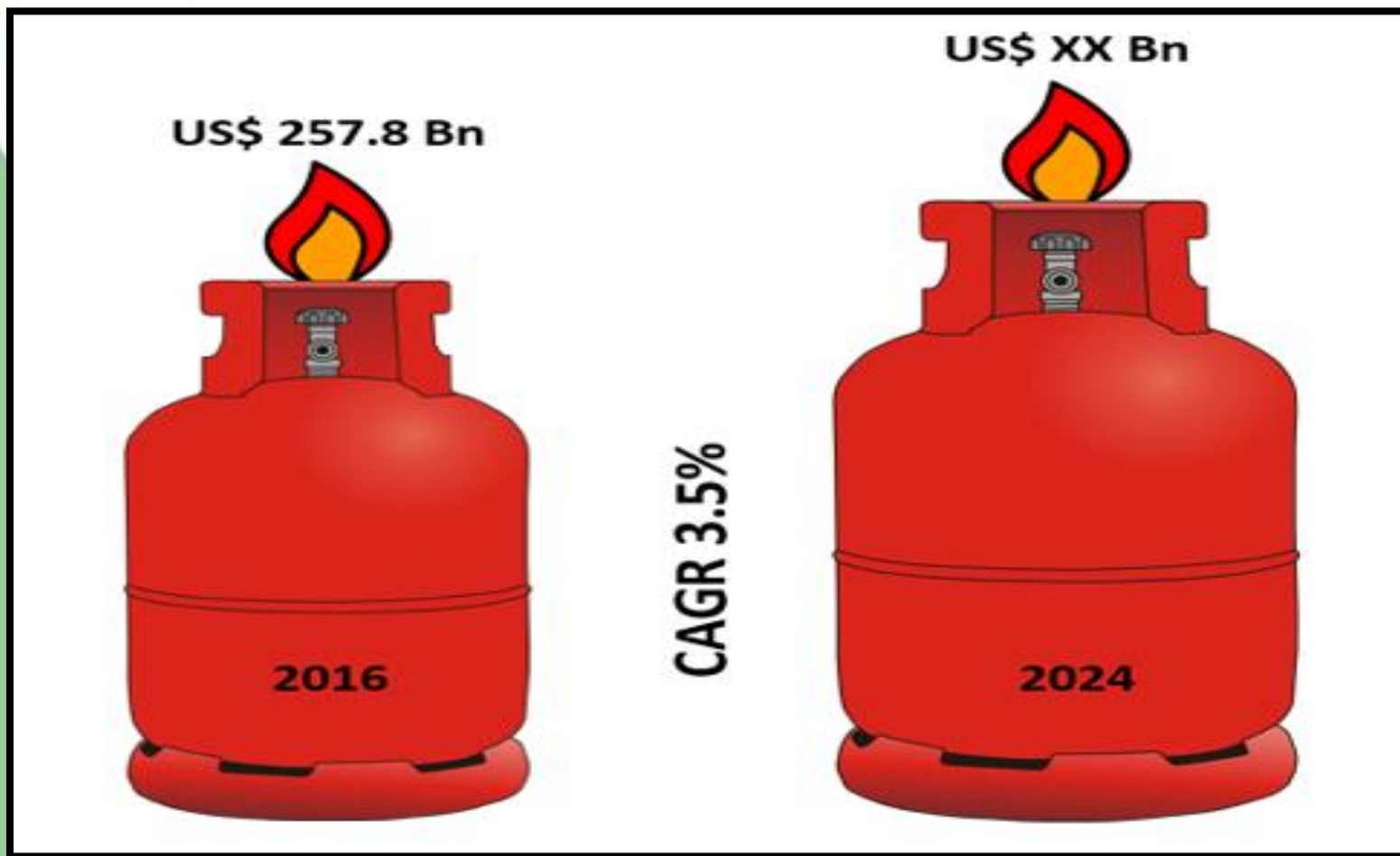
- 1. Industrial customers:** for heating purposes where a readily controlled temperature is needed, i.e. motor vehicle paint shops or as fuel for fork lift trucks within warehouses etc.
- 2. Commercial:** This includes, for example, a shopping centre with a number of restaurants which may have one bulk tank with LPG reticulated to individual restaurants/stores.
- 3. Autogas:** LPG can also be used to power motor vehicles. Vehicles that use autogas are fitted with two fuel tanks, one for autogas and another for petrol/diesel. The vehicle can therefore switch between autogas and petrol/diesel at any time.
- 4. Households:** LPG is mainly used by households for heating and cooking. Recently, residential estates have also started installing LPG reticulation systems supplying gas into the different properties inside these estates.

**LPG bottling 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. After receipt of Bulk LPG, filling of LPG into cylinders is done.**

**A key factor influencing the type and size of filling plant will be where the demand for LPG is in the country. In emerging markets this may be difficult to assess and that might influence the choice to look at temporary facilities such as containerized filling. These can be used to sustain a growing market until such time that a more permanent facility can be justified.**

**Global Liquefied Petroleum Gas (LPG) market is projected to witness enormous growth due to wide adoption of LPG as a cooking gas from residential sector replacing other cooking fuels. Further, favorable government initiatives especially in key consuming economies of Asia Pacific such as China, India and Indonesia to promote LPG as the cooking fuel with the focus to substitute conventional cooking fuels such as coal, kerosene and wood is anticipated to drive the demand for Liquefied petroleum gas (LPG) during the forecast period. Further, low greenhouse gases emission characteristics of LPG influencing governments to promote the adoption of LPG as auto fuel. This in turn is projected to drive the demand for LPG over the forecast period. However, volatile crude oil and natural gas price is expected to remain the key challenge for the global liquefied petroleum gas (LPG) market during the forecast period (2016-2024).**

# Liquid Petroleum Gas (LPG) Market-Growth, Future Prospects and Competitive Analysis, 2016-2024





**In terms of end-use, the segments into which the global LPG market is divided are petrochemical and refinery, transportation, residential and commercial, industrial, and others. Of them, the segment of residential and commercial led in 2013 with a share of over 60% in the market. LPG is majorly used as a cooking fuel and also for lighting and eating in the residential and commercial segment.**

**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. Moreover, residential segment accounted for a lion's share in India LPG market in FY16, and the segment is anticipated to continue dominate the market through FY26. This is anticipated to boost adoption of LPG in various end user segments across the country.**



# 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

# Machinery Photographs



**Filling Equipments**



**LPG Storage Tank**



**Fuel 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	0.00	0.00	0.00
Motor Vehicles	0.00	20.00	20.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	117.50	117.50	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Cash Subsidy	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	15.00	15.00	Long/Medium Term Borrowings	0.00	12884.94	12884.94
Provision for Contingencies	0.00	200.00	200.00	Debtentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	6010.92	6010.92	Unsecured Loans/Deposits	0.00	0.00	0.00
<b>TOTAL</b>	<b>0.00</b>	<b>17179.92</b>	<b>17179.92</b>	<b>TOTAL</b>	<b>0.00</b>	<b>17179.92</b>	<b>17179.92</b>

# 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 / Equity as- Deposits Debt	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

# 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 ?**
- 6. What is the total project cost for setting up LPG Cylinder Refilling Plant ?**
- 7. What are the operating costs for setting up LPG Cylinder Refilling Plant ?**
- 8. What are the machinery and equipment requirements for setting up LPG Cylinder Refilling Plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up LPG Cylinder Refilling Plant ?**

**10. What are the requirements of raw material for setting up LPG Cylinder Refilling Plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up LPG Cylinder Refilling Plant ?**

**12. What is the Plant Layout for setting up LPG Cylinder Refilling Plant ?**

- 13. What is the total size of land required for setting up LPG Cylinder Refilling Plant?**
- 14. What will be the income and expenditures for LPG Cylinder Refilling Plant?**
- 15. What are the Projected Balance Sheets of LPG Cylinder Refilling Plant ?**
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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 Plant market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of LPG Cylinder Refilling Plant project. The report assesses the market sizing and growth of the Indian LPG Cylinder Refilling Plant 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 Plant sector in India along with its business prospects. Through this report we have identified LPG Cylinder Refilling Plant project as a lucrative investment avenue.**

# Tags

LPG Cylinder Refilling Plant, LPG Filling Plant, Cylinder Filling Plant, LPG Gas Bottling Plant, Setting up LPG Filling Plant, LPG Filling Plant Design, LPG Filling Plant Business Plan, LPG Gas Plant, LPG Plant, (Liquified Petroleum Gas) Bottling Plant, Gas Filling Plant, LPG Bottling Plant, LPG Filling Plant Equipment, LPG Stations (Cylinders and Autogas Filling Units),LPG Industry, Project Profile on LPG Cylinders, Gas Cylinder Filling, Setting Up LPG Bottling Plant, Business Plan for Liquefied Petroleum Gas (LPG) Filling Plant, Cooking Gas (LPG) Plant Business Plan, LPG Bottling Plant Detailed Project Report, Mini LPG Bottling Plant, Liquified Petroleum Gas (LPG) Filling Plant, Feasibility/Business Plan on Cooking Gas Refilling Plant, Project Report on LPG Bottling Plant, Making Profitable Investment in LPG Gas Bottling, Detailed Project Report on Gas Filling Plant, Project Report on Gas Filling Plant, Pre-Investment Feasibility Study on LPG Cylinder Refilling Plant, Techno-Economic feasibility study on LPG Cylinder Refilling Plant, Feasibility report on LPG Cylinder Refilling Plant, Free Project Profile on LPG Cylinder Refilling Plant, Project profile on LPG Cylinder Refilling Plant, Download free project profile on Gas Filling Plant, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel

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Profitable Investment Opportunity in  
LPG Filling Plant,  
LPG Gas Cylinder Filling Plant**

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## Reports:

### ▪ Detailed Project Reports

**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:**

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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.**

**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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## 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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<https://goo.gl/VstWkd>



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