

# PVC Pipes Manufacturing Project.

## **Production of Polyvinyl Chloride**

# (PVC) Pipes.



## Introduction

Polyvinyl Chloride (PVC) piping is the most widely used plastic piping material. PVC pipe is manufactured by extrusion in a variety of sizes and dimensions and generally sold in 10' and 20' lengths. PVC pipe is available in both solid wall and cellular core construction. Cellular core construction involves the simultaneous extrusion of at least three layers of material into the pipe wall: a solid outer layer, a cellular core intermediate layer, and a solid inner layer.

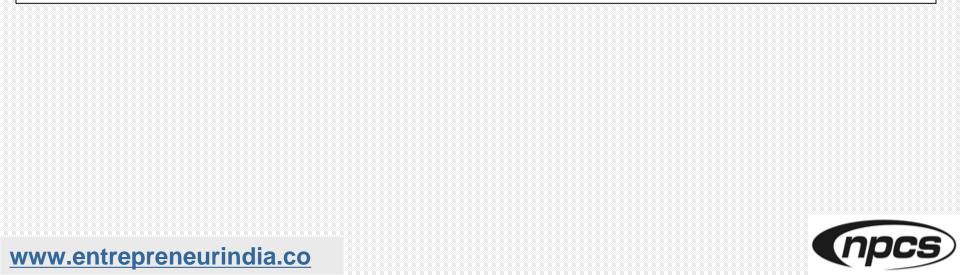


Polyvinyl chloride (PVC) pipe is made from a plastic and vinyl combination material. The pipes are durable, hard to damage, and long lasting. They do not rust, rot, or wear over time.

PVC is a polar polymer with strong intermolecular forces; therefore it is rigid at room temperature. On the other hand, when a plasticizer is added upon fabrication, flexible PVC products are obtained. This versatility is a major advantage of PVC.



**PVC** pipes are used for a variety of purposes e.g. water supply schemes, spray irrigation, deep tube well schemes and land drainage schemes. PVC slotted and corrugated pipes are ideal systems for drainages of water from land where water logging is inevitable. It is widely used by various utility services now-adays too. The usage of PVC pipes also depends upon the size of these pipes too. It is manufactured in different sizes having innumerable usage value.



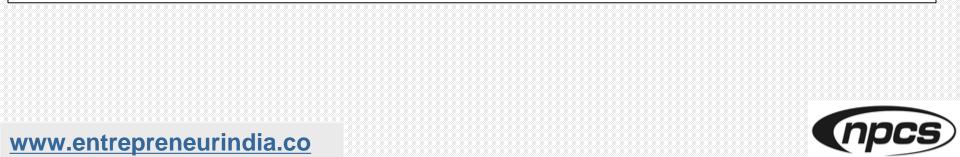
## The Chief Advantage of PVC are:

- Resistance to corrosion
- Light weight
- Toughness
- Rigidity
- Economical in laying, jointing and maintenance
- Ease of fabrication





The PVC pipes are much lighter than cast iron or A. C. pipes. Because of their lightweight PVC pipes are easy to handle, transport, and install. Solvent cementing techniques for jointing PVC pipe lengths is cheaper, more efficient and far simpler. PVC pipes progressively replacing conventional pipes like G.I., Cast Iron, Asbestos Cement or Stone-ware. PVC pipes are light in weight, rates for use under pressure, easy to install, low frictional loss, low on maintenance cost, and have low frictional loss. PVC pipes do not become pitted or tuberculated and are unaffected by fungi and bacteria and are resistant to a wide range of chemicals.



## <u>Market Outlook</u>

India PVC pipes and fittings Market is expected to reach INR 391 billion by FY'2019

Future growth of India PVC pipes and fittings Market is expected to be led by rapidly increasing population leading to increased demand for agricultural production, expanding housing sector and significant role played by the government in the development of irrigation infrastructure and real estate sector in the country.



PVC pipes and fittings market in India has witnessed constant incline in terms of volume of PVC pipes and fittings produced, year on year.

The exports of PVC pipes and fittings in India have witnessed healthy traction in terms of growth as observed over the past few years. India continues to maintain its leading position as the net exporter of PVC pipes and fittings across the world. The availability of cheap labor and low processing costs has made India a manufacturing hub for PVC pipes and fittings with several multinationals setting up their manufacturing facilities in the country.



The export market for PVC pipes in India has grown considerably over the years due to the country's competence in low cost manufacturing and technically trained manpower.

Global PVC Pipe Market size was valued at \$54,246 million in 2015, and is anticipated to grow at a CAGR of 6.7% to reach \$85,565 million by 2022. Polyvinyl chloride (PVC) is the third largest selling plastic commodity after polyethylene & polypropylene. It is beneficial over other materials owing to its chemical resistance, durability, low cost, recyclability, and others; thus, it can replace wood, metal, concrete, and clay in different applications.



Piping and piping systems are a major application of PVC resin. PVC pipes are manufactured by extrusion method in a variety of dimensions such as solid wall or cellular core construction. These are corrosion resistant, cost-effective, flame resistant, and easy to install & handle, and environmentally sound, with long service life.

PVC pipe has applications in drain-waste-vent (DWV), sewers, water mains, water service lines, irrigation, conduit, and various industrial installations.



Future growth of India PVC pipes and fittings Market is expected to be led by the rising construction of much required residential units and inclining demand of PVC pipes and fittings in agricultural sector to bring in more area under cultivation. This will also be bolstered by the government projects for clean environment and housing for all which includes a large focus on the sanitation facilities for the people.



The Indian PVC pipes and fittings industry, which comprises of segments such as RPVC, PVC and CPVC pipes and fittings has grown significantly over the last few years due to the increase in the demand from irrigation sector on account of the burgeoning population and uncertain weather conditions in the country. The PVC pipes and fittings industry in India is highly fragmented.

"PVC pipes will gradually replace conventional piping systems in the market due to their lower cost and higher durability. CPVC pipes are expected to register fastest growth in terms of the production capacity in the next 5 years from FY'2015-FY'2020. Rising acceptance of CPVC pipes over galvanized or PVC pipes will lead to the growth in the future.

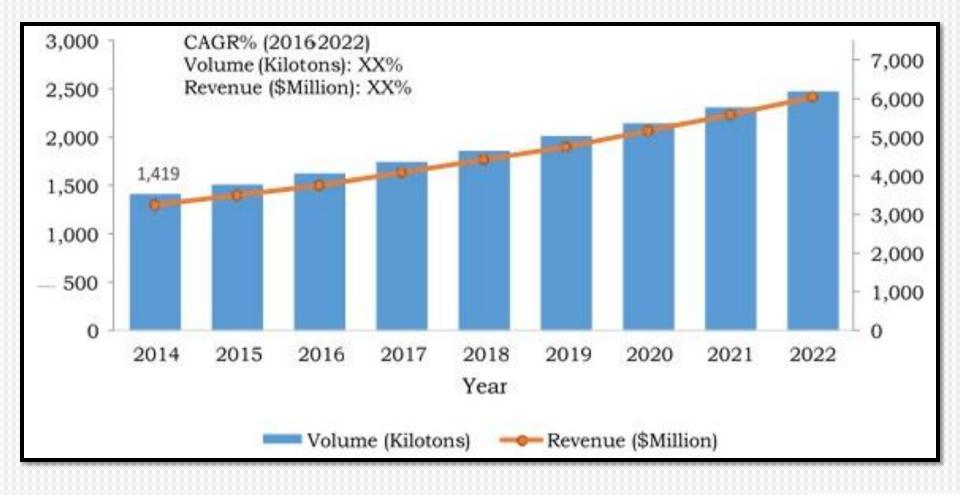


#### **Demand : Past and Future**

Year	(In '000 Metric Tonne)
1990-91	290
2000-01	833
2001-02	956
2002-03	964
2003-04	1064
2004-05	1052
2005-06	1245
2006-07	1320
2007-08	1465
2008-09	1635
2009-10	1830
2010-11	2040
2011-12	2175
2012-13	2330
2013-14	2620
2014-15	2945
2015-16	3110
2016-17	3400
2017-18	3625
2018-19	3860
2019-20	4225



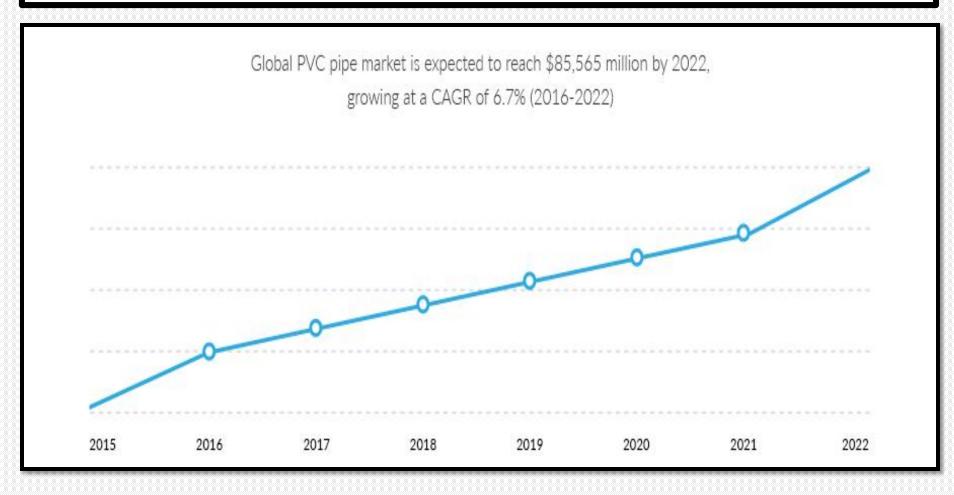
## India PVC Pipe Market, 2014-2022





## **Global PVC Pipe Market**

### (Opportunities and Forecast, 2014-2022)







## **ZLF 300 FEEDER**









#### **VACUUM CALIBRATION TANK**



#### HAUL-OFF AND CUTTER







STACKER

FUEL TANK



#### AIR COMPRESSOR



## Few Indian Major Players are as under

- AML Steel Ltd.
- Ajanta Tubes Ltd.
- Anant Extrusions Ltd.
- Bharat Pipes & Fittings Ltd.
- Bharat Steel Tubes Ltd.
- Fine Plast Polymers Ltd.
- Finolex Industries Ltd.
- Gwalior Polypipes Ltd.
- Jadia Pipes (India) Ltd.



## Few Indian Major Players are as under

- Jain Tube Co. Ltd.
- Omega Pipes Ltd.
- Profitcore Pipes Ltd.
- Raj Irrigation Pipes & Fittings Ltd.
- Sudhakar Plastic Ltd.
- Sudhakar Polymers Ltd.
- Vindhya Pipes & Plastics Ltd.
- Vishal Pipes Ltd.



PROJECT AT A GLANCE						(	` in lacs)			
COST O	F PROJE	СТ	MEANS OF FINANCE							
Particulars	Existing	Proposed	Total	Particulars	Existing	Propose d	Total			
Land & Site Development Exp.	0.00	135.00	135.00	Capital	0.00	108.66	108.66			
Buildings	0.00			Share Premium	0.00		0.00			
Plant & Machineries	0.00		73.50	Other Type Share Capital	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	57.50	57.50	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	325.99	325.99			
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00			
Provision for Contingencies	0.00	7.00	7.00	Unsecured Loans/Deposits	0.00	0.00	0.00			
Margin Money - Working Capital	0.00	55.40	55.40							
TOTAL	0.00	434.65	434.65	TOTAL	0.00	434.65	434.65			



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Year	Annu	alised	Book Value	Debt	Divide nd	Retained I Earnings				P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per \$	Share	Per Share	Per Share				No.of Times	
	Ň	Ň	`	``	``	%	``	%	`		%
1-						100.0					
2	6.24	8.85	16.24	24.00	0.00	0	6.24	0.00	6.24	1.00	0.00
						100.0					
2-3	9.22	11.52	25.45	18.00	0.00	0	9.22	0.00	9.22	1.00	0.00
						100.0					
3-4	12.14	14.18	37.59	12.00	0.00	0	12.14	0.00	12.14	1.00	0.00
						100.0					
4-5	14.95	16.75	52.54	6.00	0.00	0	14.95	0.00	14.95	1.00	0.00
						100.0					
5-6	17.63	19.23	70.16	0.00	0.00	0	17.63	0.00	17.63	1.00	0.00



Year	C	). S. C. R	•	-	Equity as- Equity	Net	n on	Profitability Ratio				Assets Turnov er Ratio		
	Individ ual	Cumulat ive	Overa II					GPM	PBT	PAT	Net Contri bution			
	(Nun	nber of tir	nes)	(Num) tim	ber of les)	%	%	%	% % %					
Initia I				3.00	3.00									
1- 2	1.31	1.31		1.48	1.48	2.57		14.91 %	8.34%	5.52%	488.0 8	39.73 %	2.01	1.08
2-3	1.64	1.47		0.71	0.71	1.51		16.36 %	10.85%	6.99%	493.2 1	34.41 %	2.11	1.28
3-4	2.04	1.64	2.03	0.32	0.32	0.94		17.32 %	12.64%	8.05%	561.8 5	34.30 %	2.10	1.53
4-5	2.50	1.83		0.11	0.11	0.61		17.96 %			630.5			1.82
5-6	3.05	2.03		0.00	0.00	0.41		18.36 %	14.79%	9.35%	699.1 4	34.15 %	1.92	2.57



## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	52.38%
Total BEP (% of Installed Capacity)	54.88%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	27.65%
	2 Years 3

Payback Period of the Project is (In Years) Fixed Assets Coverage Ratio (No. of times) Months 7.749



## **Major Queries/Questions Answered in the Report?**

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



5. What is the structure of the PVC Pipes Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up PVC Pipes Manufacturing plant ?
- 7. What are the operating costs for setting up PVC Pipes Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up PVC Pipes Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up PVC Pipes Manufacturing plant ?

- **10.** What are the requirements of raw material for setting up PVC Pipes Manufacturing plant ?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up PVC Pipes Manufacturing plant ?
- 12. What is the Manufacturing Process of PVC Pipes ?



13. What is the total size of land required for setting up PVC Pipes Manufacturing plant ?

14. What will be the income and expenditures for PVC Pipes Manufacturing plant ?

**15.** What are the Projected Balance Sheets of PVC Pipes Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up PVC Pipes Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up PVC Pipes Manufacturing Business?



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20. What is the time required to break-even of PVC Pipes Manufacturing 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 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

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on PVC Pipes " provides an insight into the PVC market in India with focus on uses and applications, Pipes Manufacturing Process, Process Flow Sheets, Plant Layout and Project **Financials of PVC Pipes** project. The report assesses the market sizing and growth of the Indian PVC Pipes 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 PVC Pipes sector in India along with its business prospects. Through this report we have identified PVC Pipes project as a lucrative investment avenue.





PVC Pipe Production, PVC Pipe Manufacturing Process, PVC Pipe Making Process, How to Start PVC Pipe Manufacturing Business, PVC Pipe Manufacturing Unit, PVC Pipe Plant, PVC Pipe Production Process, How is PVC Pipe Made?, PVC Pipe Manufacturing Business Plan, Plastic Pipe Production, PVC for Piping Industry, PVC Pipe Manufacturing, PVC Pipe Making Business, PVC Pipe Production Plant, PVC Pipes Manufacturing Unit in India, Production of PVC Pipes, PVC Pipe Manufacture, PVC Pipe Manufacturing Industry, Project Report on PVC Pipe Manufacturing Unit, Project Report on PVC (Polyvinyl Chloride) Pipes Manufacturing Industry, Start PVC Pipe Manufacturing Factory, PVC Pipe Production Plant, Plant for PVC Pipes Production, Pipe Manufacture In India, Polyvinyl Chloride (PVC) Production and Manufacturing Process, Manufacturing of PVC Pipes, Making of PVC Pipes, PVC Pipe Factory, How to Make PVC Pipe, PVC Pipes Manufacturing Project Report, Start PVC Pipe Manufacturing Plant, PVC Pipe Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, PVC Pipe Based Small Scale Industries Projects, Project profile on small scale industries, How to Start PVC Pipe Manufacturing Industry in India, PVC Pipe Manufacturing Projects, New project profile on PVC Pipe Manufacturing industries, Project Report on PVC Pipe Manufacturing Industry, Detailed Project Report on PVC Pipe Manufacturing, Project Report on PVC Pipe Manufacturing,



Pre-Investment Feasibility Study on PVC Pipe Manufacturing, Techno-Economic feasibility study on PVC Pipe Manufacturing, Feasibility report on PVC Pipe Manufacturing, Free Project Profile on PVC Pipe Manufacturing, Project profile on PVC Pipe Manufacturing, Download free project profile on PVC Pipe Manufacturing, Industrial Project Report, Project consultant, Project consultancy, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for PVC Pipe Manufacturing, Startup Project, Startup ideas, Project for startups, Startup project plan, Business start-up, Business Plan for a Startup Business, Great Opportunity for Startup, Small Start-up Business Project, 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, Detailed Project Plan Report



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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.



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- 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......<u>Read more</u>



# Contact us

# **NIIR PROJECT CONSULTANCY SERVICES**

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Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

www.entrepreneurindia.co

https://goo.gl/VstWkd





# An ISO 9001:2015 Company

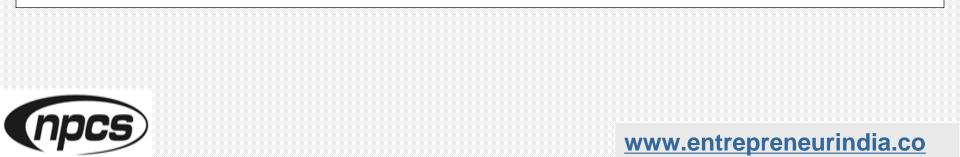


# Who are we?

- 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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