



Rigid Polyvinyl Chloride (RPVC) Pipe Manufacturing Industry.

Production of RPVC Pipe

Introduction

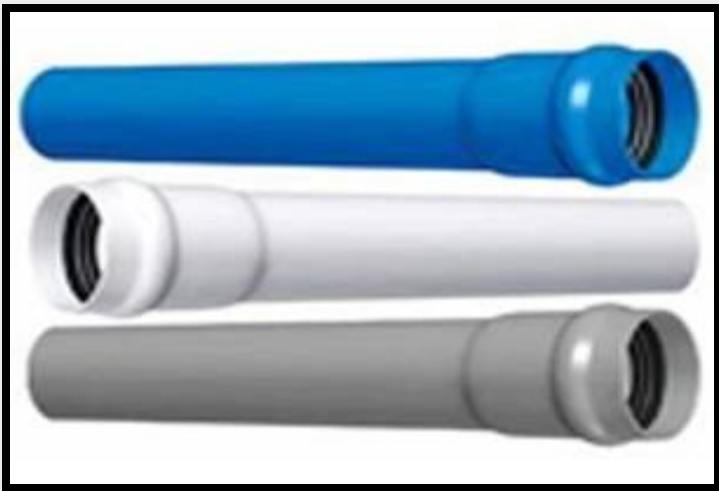
Rigid PVC is a strong, stiff, low cost plastic material that is easy to fabricate and easy to bond using adhesives or solvents. It is also easy to weld using thermoplastic welding equipment.



Rigid Polyvinyl Chloride (RPVC) is a non-flammable material that is resistant to weathering. With the proper additives, RPVC can be UV stabilized so that it withstands sunlight. Because PVC has an excellent resistance to aqueous solutions (like water), it is frequently used in applications that come in contact with water, include doorways, windows, pipes (as in large diameter waste water pipes), and even extruded wire covering. Home plumbing pipes are typically made out of RPVC, so this material is used very heavily in the construction and plumbing industries. RPVC does not function well when it comes in contact with stronger solvents like esters, hydrocarbons, and chlorinated solvents. Excessive heat is also an issue for non-heat-stabilized RPVC.

Advantages:

- **Processed by thermoplastic methods**
- **Wide range of flexibility possible with varying levels of plasticizer**
- **Plastisol processing possible**
- **Non-flammable**
- **Dimensional stability**
- **Comparatively low cost**
- **Good resistance to weathering**



Rigid PVC Pipes are made from Un-plasticized Poly Vinyl Chloride, Suspension Grade, and K Value 67, which is perfectly blended with suitable chemicals. The Rigid PVC Pipes are widely popular in the market owing to their high durability and top class performance.

Rigid PVC Conduit Pipes are extensively used for Agricultural Irrigation & Drinking Water Purpose. These Rigid PVC pipes are fitted in portable water supply system. They are flexible yet tough in texture. These pipes are leak proof in nature and are very efficient in its performance.



Application:

- **Bore-well casing and suction pipes**
- **Chemical processing plants**
- **Installation for brewery pipelines**
- **Hon cultural**
- **For greenhouse technology**
- **Irrigation of golf courses & sports grounds**
- **Internal plumbing, water and waste water suppliers-domestic and industrial**
- **Ventilation of corrosive gases**
- **Effluent lines**
- **Re-Lining of old sewers**

- **Surface water drainage**
- **Irrigation and sprinkling systems**
- **Water Supply**
- **Industrial Piping**
- **Textiles**
- **Packaging**
- **Sanitation**
- **Telecommunications**
- **Poultry**



Advantage:

- **Safe**
- **Resistant to moisture, corrosion, abrasion wearing**
- **Termite proof and UV resistant**
- **Longer lasting and maintenance free**
- **Light weight**
- **Length as per requirement**
- **Convenient jointing**
- **Better flow character**
- **Leak proof**



- **Energy saving**
- **Strong and durable**
- **Long service life**
- **Trouble free performance**
- **Consists of excellent material**



Market Outlook

The India PVC Pipes Market size was valued at \$3,159 million in 2016 and is anticipated to expand at a CAGR of 10.2% to reach \$6,224 million by 2023. 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. PVC pipes are manufactured by extrusion method in a variety of dimensions such as solid wall or cellular core construction. They are corrosion resistant, cost-effective, flame resistant, easy to install & handle, and environmentally sound, with long service life.

The major end users for PVC pipes and fittings in India are housing, irrigation and water infrastructure. Agricultural sector accounts for major demand of PVC pipes in India. The PVC pipe market is in its maturity stage. In this industry, most of the players focus to consolidate their market position through strategic expansions and product launches. Major factors that drive the demand for PVC pipe include rise in demand from irrigation & construction industries, growth in focus on rural water management, and rapid urbanization. However, availability of better substitutes, such as HDPE & ABS, and toxicity of PVC material are expected to restrain the market growth. Furthermore, growth in need & awareness for clean water in rural areas and increase in investment in developing economies are anticipated to provide significant opportunities to the industry players across the value chain.

The Indian PVC pipes market is growing at a healthy rate due to tremendous government spending on infrastructure. The construction sector and the agricultural sector are expected to boost demand for PVC pipes in the future. 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 the land where waterlogging is inevitable. In view of the priorities to rural water suppliers, irrigation facilities in the national planning, immense growth in the construction industry and rapid rural electrification, the demand for rigid PVC pipe is growing regularly. The 60% of the total demand of PVC pipe exist today is up to 110 mm outer diameter.

Global PVC Pipes Market

The Global PVC Pipes is expected to witness a significant growth with CAGR of ~7.13% between 2016 and 2023.

PVC pipes are the leader among plastic pipes with across many industries utilizing PVC pipes to multiple degree. PVC pipes over the years have become very demand because of their light weight, easy installation and low maintenance. In the global plastic pipes market PVC pipes started penetrating the pipe market during from the past years.



The main driver for the PVC pipes comes from the construction industries that including the many applications such as water supply, sewage & drainage, housing & commercial, and irrigation. PVC pipes also formed in three types i.e. Post Chlorinated, Plasticized, and Unplasticized PVC pipes. CPVC pipes are expected to register fastest growth in terms of the production capacity in the next years. Rising acceptance of CPVC pipes over galvanized or PVC pipes will lead to the growth in the future. Improved penetration of the companies with expanding distribution network and significant role played by the government in the development of irrigation infrastructure and real estate sector in the country will bolster the growth in the industry.



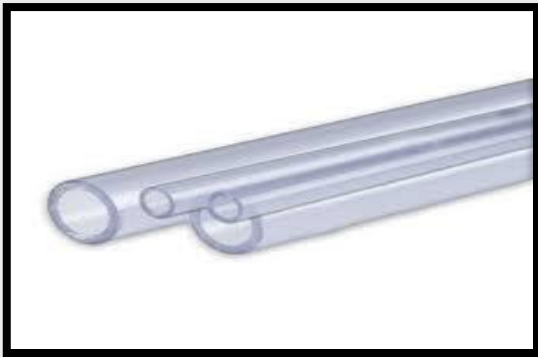
Based on application market is segmented into sewerage, plumbing, water supply, oil & gas, irrigation, and others, Based on end users market is segmented into agriculture, housing, building & construction, telecom industry, and others and based on region market is segmented into North America, Europe, APAC, Latin America, Middle East & Africa.

PVC Pipes are highly used in construction industries that include applications such as water supply, housing and commercial, irrigation, and sewage and drainage.



Penetration of market giants with expanding distribution network along with the notable role played by the government in developing the real estate sector and irrigation infrastructure is anticipated to impact the global market growth positively. With heat and electrical insulation properties, PVC Pipes are also gaining acceptance in electrification application.

Key players of the global high PVC pipes market are China Lesso Group Holdings Ltd. (China), Astral Polytechnik Limited(India), Polypipe Plc (UK), Advanced Drainage Systems, Inc. (US), Amanco (Brazil), National Pipe and Plastics, Inc. (US), Egeplast A. S (Turkey), and Others.



Machinery Photographs





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	28.00	28.00	Capital	0.00	73.12	73.12
Buildings	0.00	60.30	60.30	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	85.22	85.22	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	54.00	54.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	20.00	20.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	219.37	219.37
Preliminary& Pre-				Debentures /			
operative Exp	0.00	3.00	3.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	8.00	8.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	25.97	25.97				
TOTAL	0.00	292.49	292.49	TOTAL	0.00	292.49	292.49

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	4.12	8.04	14.12	24.00	0.00	100.00	4.12	0.00	4.12	1.00	0.00
2-3	7.37	10.82	21.49	18.00	0.00	100.00	7.37	0.00	7.37	1.00	0.00
3-4	10.53	13.58	32.02	12.00	0.00	100.00	10.53	0.00	10.53	1.00	0.00
4-5	13.55	16.24	45.57	6.00	0.00	100.00	13.55	0.00	13.55	1.00	0.00
5-6	16.38	18.77	61.95	0.00	0.00	100.00	16.38	0.00	16.38	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	1.22	1.22		3.00	3.00	2.83		13.34%	4.26%	3.06%	343.25	34.85%	2.61	0.98
2-3	1.56	1.38		0.84	0.84	1.69		15.08%	7.12%	4.69%	400.43	34.85%	2.82	1.18
3-4	1.96	1.56	1.95	0.37	0.37	1.03		16.25%	9.13%	5.86%	457.64	34.85%	2.85	1.45
4-5	2.43	1.75		0.13	0.13	0.64		17.05%	10.55%	6.70%	514.84	34.85%	2.76	1.76
5-6	2.98	1.95		0.00	0.00	0.42		17.58%	11.54%	7.30%	572.04	34.85%	2.60	2.58



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	63.84%
Total BEP (% of Installed Capacity)	66.90%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.22%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	10.878

Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Rigid Polyvinyl Chloride (RPVC) Pipe Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Rigid Polyvinyl Chloride (RPVC) Pipe Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Rigid Polyvinyl Chloride (RPVC) Pipe Manufacturing Business?**
- 12. What is the Manufacturing Process of Rigid Polyvinyl Chloride (RPVC) Pipe?**

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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 Rigid Polyvinyl Chloride (RPVC) Pipe.” provides an insight into Rigid Polyvinyl Chloride (RPVC) Pipe market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Rigid Polyvinyl Chloride (RPVC) Pipe project. The report assesses the market sizing and growth of the Indian Rigid Polyvinyl Chloride (RPVC) Pipe 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 Rigid Polyvinyl Chloride (RPVC) Pipe sector in India along with its business prospects. Through this report we have identified Rigid Polyvinyl Chloride (RPVC) Pipe project as a lucrative investment avenue.

Tags

#Rigid_PVC_Pipes, #Rigid_Polyvinyl_Chloride_Pipes,
#PVC_Pipes_Manufacturing_Project, PVC Pipes Manufacturing Process, PVC Pipe
Manufacturing Unit, Properties and Applications of Rigid PVC or Polyvinyl Chloride,
How to Start PVC Pipe Manufacturing Business, PVC Pipe Plant, PVC Pipe
Manufacturing Plant Layout, PVC Pipe Manufacturing Process PPT, PVC Pipe
Manufacturing Process Flow Chart Pdf, PVC Pipe Manufacturing Plant Project Report
Pdf, PVC Pipes Production Process,
#I_Want_to_Start_a_Small_Setup_of_PVC_Pipe_Industry? Rigid Polyvinyl Chloride
(RPVC) Pipe, RPVC Pipes, PVC Pipe Industry in India, Indian PVC Pipes,
#Rigid_PVC_Pipe_Manufacture, #Rigid_PVC_Pipe_Manufacturing_Process,
#Rigid_PVC_Pipes_&_Fittings,
#Properties_and_Applications_of_Rigid_PVC_or_Polyvinyl_Chloride_Pipe,
Manufacturing Process of Rigid PVC Pipes, Project Report on PVC Pipe Manufacturing
Plant, #Project_Report_on_Rigid_PVC_Pipe_Manufacturing_Industry, Detailed Project
Report on Rigid PVC Pipe Manufacturing, Project Report on Rigid PVC Pipe
Manufacturing, Pre-Investment Feasibility Study on PVC Pipe Manufacturing, Techno-
Economic feasibility study on RPVC Production, Feasibility report on PVC Pipe
Manufacturing, Free Project Profile on Rigid PVC Manufacturing Business, Project
profile on Rigid PVC Pipe Manufacturing,
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Manufacturing Company, PVC Pipe Manufacturing Business

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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:

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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](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

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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



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