PVC Pipes Manufacturing Project.
Production of Polyvinyl Chloride (PVC) Pipes.
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-a-days 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.
Market Outlook

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.
## Polyvinyl Chloride

### Demand: Past and Future

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<td>2019-20</td>
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India PVC Pipe Market, 2014-2022
Global PVC Pipe Market

(Opportunities and Forecast, 2014-2022)

Global PVC pipe market is expected to reach $85,565 million by 2022, growing at a CAGR of 6.7% (2016-2022)
Machinery Photographs

ZLF 300 FEEDER
EXTRUSION MOULD

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

### Project At a Glance

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<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
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<th>Existing</th>
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<td>434.65 TOTAL</td>
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## Project at a Glance

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<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
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## Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as-Equity Debt</th>
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<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
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## Project at a Glance

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<td>Payback Period of the Project is ( In Years )</td>
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<td>Fixed Assets Coverage Ratio ( No. of times )</td>
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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?

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- Plant & Machinery
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

- Other Fixed Assets

- Working Capital Requirement Per Month
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
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<td>Share Capital</td>
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  - Equity Capital
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- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio
• Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
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- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
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• Annexure 16 :: Raw Material Cost per unit

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• Annexure 19 :: Packing Material Cost

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• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
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• Good Present/Future Demand
• Export-Import Market Potential
• Raw Material & Manpower Availability
• Project Costs and Payback Period

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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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