Methyl Methacrylate Manufacturing Industry.

Manufacture of MMA

The global MMA demand is forecast to grow at a CAGR of 3.5% to 4.0% in the long-term forecast till 2025.
Introduction

Methyl methacrylate (MMA) is an important acid ester, which is a colorless monomer compound. The most important use of MMA is in the manufacture of poly-methyl methacrylate (PMMA). PMMA is a transparent thermoplastic used as a shatter-resistant option to glass. Due to its excellent tensile strength, flexural strength, transparency, polishing, UV tolerance, and scratch resistance properties, PMMA is used in the form of sheets to produce mobile phone screens, LCD screens, and monitors. It is used as a bone cement.
Uses:

- Methyl methacrylate is used in the manufacture of methacrylate resins and plastics (e.g., Plexiglas).
- The principal uses of methyl methacrylate are: cast sheet and other grades (advertising signs and displays, lighting fixtures, glazing and skylights, building panels and sidings, and plumbing and bathroom fixtures), molding/extrusion powder, and coatings (latex paints, lacquer, and enamel resins).
- Methyl methacrylate is used in the impregnation of concrete to make it water-repellent, and also has uses in the fields of medicine and dentistry to make prosthetic devices and as a ceramic filler or cement.
Market Outlook

Global methyl methacrylate (MMA) market, as an overall, it is projected to reach approximately 3,761 thousand tons by the end of 2023, increasing at a CAGR of around 2% per year in the period 2017-2023. Increasing demand for methyl methacrylate form the automotive, electronics, and construction industries is major factor expected to drive growth of the global methyl methacrylate market over the forecast period.

On the basis of end-use industries, the global methyl methacrylate market has been segmented into construction, automotive, electronics, aviation, and others (medical, paints, and sports). The construction segment is estimated to account for major share in the global methyl methacrylate market in terms of revenue.
Growing use of methyl methacrylate (MMA) for the production of PMMA (Polymethyl methacrylate) and other polymers is expected to drive the growth of the methyl methacrylate market. PMMA is used to produce a variety of automotive components and other parts. Increasing regulations that promote the reduction of vehicle weight to reduce emissions have created demand for plastic based parts, which in turn, has led to rise in use of PMMA in the automotive industry. A wide range of acrylic paints, coatings, inks and adhesives are also being used across building and construction and automotive industries, which is also driving the global methyl methacrylate market.
Global Methyl Methacrylate Market Share (%), By Region, 2017

- SEA and Other Pacific: 28.7%
- China: XX.X%
- North America: XX.X%
- Europe: XX.X%
- Japan: XX.X%
- Middle East and Africa: XX.X%
- Latin America: XX.X%

CAGR of 3.3% (2018-2026)
The growth in demand for adhesives and sealants from building and construction, automotive and other end use industries is anticipated to further drive the demand for methyl methacrylate. Methyl methacrylate based adhesives provide strength and resistance and are reliable for a wide range of applications. They are also used in complex parts and engine components in the automotive industry.

The increasing demand for lightweight, crash-resistant, and fuel-efficient vehicles; growing demand in the automotive and marine industries; superior quality and performance of MMA adhesives; and increasing awareness about advantages of adhesives over conventional techniques are driving the MMA adhesives market. The growing awareness about reducing emissions, increasing recyclability, and minimizing wastage is expected to propel the growth of the market.
Key players operating in the global market include Evonik Industries AG, DowDuPont, Inc., Sumitomo Chemical Company, Limited, Formosa Plastics Corporation, Arkema Inc., Saudi Basic Industries Corporation (SABIC), Kuraray Co., Ltd., Mitsubishi Chemical Holdings Corporation, Asahi Kasei Corporation, and Huntsman International LLC.
Machinery Photographs

Single Screw Extruder

Distillation Column
## Project at a Glance

### PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE</th>
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<tr>
<td><strong>Particulars</strong></td>
<td><strong>Existing</strong></td>
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<tr>
<td>Land &amp; Site Development Exp.</td>
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<tr>
<td>Buildings</td>
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<tr>
<td>Plant &amp; Machineries</td>
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<tr>
<td>Motor Vehicles</td>
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<tr>
<td>Office Automation Equipments</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>Franchise &amp; Other Deposits</td>
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<td>Preliminary &amp; Pre-operative Exp</td>
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<td>Provision for Contingencies</td>
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<tr>
<td>Margin Money - Working Capital</td>
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</table>

**TOTAL** | 0.00 | 855.45 | 855.45 | **TOTAL** | 0.00 | 855.45 | 855.45
## Project at a Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>Annualised Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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<td>EPS USD</td>
<td>CEPS USD</td>
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<td>Per Share USD</td>
<td>%</td>
<td>USD</td>
<td>%</td>
<td>USD</td>
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<td>100.00</td>
<td>513.09</td>
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## Project at a Glance

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<th>Debt / Deposits</th>
<th>Equity as Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<td></td>
<td>Individ Cumulative</td>
<td>Overall</td>
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<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<td></td>
<td>(Number of times)</td>
<td>(Number of times)</td>
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<td></td>
<td></td>
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<tr>
<td>Initial</td>
<td>3.00</td>
<td>3.00</td>
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<td>1-2</td>
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<td>1.59</td>
<td>1.59</td>
<td>1.89</td>
<td>25.76%</td>
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<td>0.99</td>
<td>30.01%</td>
<td>19.65%</td>
<td>13.00%</td>
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<td>3-4</td>
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<td>0.51</td>
<td>32.78%</td>
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<td>1.83</td>
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<td>0.12</td>
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<td>34.56%</td>
<td>27.25%</td>
<td>17.34%</td>
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<td>5-6</td>
<td>3.02</td>
<td>2.02</td>
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<td>0.00</td>
<td>0.11</td>
<td>35.62%</td>
<td>29.32%</td>
<td>18.55%</td>
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</table>
## Project at a Glance

### BEP

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<th>Description</th>
<th>Value</th>
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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>59.01%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>62.04%</td>
</tr>
<tr>
<td>IRR, Payback and FACR</td>
<td></td>
</tr>
<tr>
<td>Internal Rate of Return (In %age)</td>
<td>26.50%</td>
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<tr>
<td>Payback Period of the Project is (In Years)</td>
<td>2 Years 3 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio (No. of times)</td>
<td>3.801</td>
</tr>
</tbody>
</table>
1. What is Methyl Methacrylate (MMA) Manufacturing industry?

2. How has the Methyl Methacrylate (MMA) Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Methyl Methacrylate (MMA) Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Methyl Methacrylate (MMA) Manufacturing plant?
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6. What is the total project cost for setting up Methyl Methacrylate (MMA) Manufacturing Business?

7. What are the operating costs for setting up Methyl Methacrylate (MMA) Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Methyl Methacrylate (MMA) Manufacturing plant?
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- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

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2 Plant Economics
3 Production Schedule
4 Land & Building

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Site Development Expenses
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  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
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<td>Annexure 14</td>
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<td>Total Raw Material Cost</td>
</tr>
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<td>Annexure 16</td>
<td>Raw Material Cost per unit</td>
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<td>Total Lab &amp; ETP Chemical Cost</td>
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<td>Annexure 18</td>
<td>Consumables, Store etc.</td>
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<td>Annexure 19</td>
<td>Packing Material Cost</td>
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<td>Annexure 20</td>
<td>Packing Material Cost Per Unit</td>
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<td>Annexure 21</td>
<td>Employees Expenses</td>
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<td>Annexure 22</td>
<td>Fuel Expenses</td>
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<td>Annexure 23</td>
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<td>Annexure 24</td>
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<td>Annexure 25</td>
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<td>Annexure 26</td>
<td>Other Manufacturing Expenses</td>
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<tr>
<td>Annexure 27</td>
<td>Administration Expenses</td>
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<td>Annexure 28</td>
<td>Selling Expenses</td>
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• Annexure 35 :: Projected Pay-Back Period and IRR
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.

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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

• 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 Methyl Methacrylate (MMA).” provides an insight into Methyl Methacrylate (MMA) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Methyl Methacrylate (MMA) project. The report assesses the market sizing and growth of the Indian Methyl Methacrylate (MMA) 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 Methyl Methacrylate (MMA) sector in India along with its business prospects. Through this report we have identified Methyl Methacrylate (MMA) project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Methyl Methacrylate Manufacturing Industry.

**Manufacture of MMA**
The global MMA demand is forecast to grow at a CAGR of 3.5% to 4.0% in the long-term forecast till 2025.

See 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.

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:

- Good Present/Future Demand
- Export-Import Market Potential
- 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......Read more
Contact us

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- 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

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