

*Be a Technical Entrepreneur*

# HOW TO SUCCEED IN SMALL SCALE CHEMICAL INDUSTRY

- Know about Chemical Manufacturing
- Select Profitable Chemical Projects
- Build an Efficient Plant with Minimum Investment
- Optimize the Operations of your Industry
- Know about High Potential Chemical Products

**Rasa Bihari Mishra**

*✓ More than 101 Product Categories for You to Evaluate for Your Small Scale Chemical Industry*

# **HOW TO SUCCEED IN SMALL SCALE CHEMICAL INDUSTRY**

By Rasa Bihari Mishra

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## Introduction

- Do you get Excited whenever you see Money-Spinning Chemical Products in the Market?
- Do You Dream of having Your Own Industrial Empire Manufacturing High Profit Chemical Products?
- Are you interested in using Your Chemical Business Knowledge to add Tremendous Value?
- Are You Convinced that Chemical Industry Can Help You Achieve all Your Financial Dreams? And You become Capable of not only Helping Yourself but also the Society.

If your answer to any of the questions is 'Yes', you're not an exception. In fact we all are interested in utilizing our time and energy to achieve our fullest potential and contribute. We want to achieve all our dreams and be successful.

But there're many questions to answer. What's best way to do it. What're the constraints? How to overcome the roadblocks? What about the resources? And many more.

### **Small Scale Chemical Industry Can Help You Achieve What You Want**

When you seriously think about the ways, you'll find small scale chemical industry to be the best choice. Why?

Because small scale chemical industry can help you in making your dream to become a successful industrialist come true.

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Let's get into the details:

- It's a challenge to operate a chemical industry successfully especially when you're new to it. But when you opt for manufacturing at a small scale the operation become easy. Why? Because the number of manufacturing processes become very less and less complicated. And naturally the management becomes easier.
- Huge Investments are required for building a chemical industry. And the business becomes quite risky because of huge investments. Here the small scale chemical industry can help a lot. Since the capital investment gets reduced the financial risk gets reduced significantly. That's not all. Additionally the working capital requirement goes down reducing the risk further.

You need products having huge market demand to run a successful industry. But don't worry. With an innovative small scale chemical industry it's a different story. You can focus on niche products and flourish.

Of course successful implementation calls for industrial experience and techno-commercial expertise. But you must explore the possibility because of multiple advantages.

You've not yet decided. Right?

### **Industrial Leaders have Started With a Small Scale Chemical Industry**

If you're still not fully convinced then study today's chemical industry leaders. Find out how they've started their success journey.

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Today you may be impressed with their huge industrial empires and gigantic business operations. But if you try to find the answer to how they've started their industrial journey you'll find an interesting fact.

Most of them have started with a small scale chemical industry long back.

Most probably you're convinced now that the small scale chemical industry can help you achieve your dreams. But you must make a decision. And then only your requirements will be clear and you'll be focused.

Once you're determined you'll like to know about the critical aspects like:

- How to select right products for your small scale chemical industry
- How to minimize the capital investment and working capital requirement.
- How to maximize the manufacturing performance.
- How to market your products efficiently.
- How to make your business profitable and sustainable.
- How to achieve sustainable growth.

This ebook will help you in starting your own small scale chemical industry and make it profitable and sustainable. It'll provide you with the kind of knowledge and information which you can use right away.

There's always a better way to do things. It doesn't matter what you want to do. It's important how you do it. And this ebook will guide you to make efforts in the right direction.



## **What'll we Learn in this ebook?**

The ebook is divided into two parts.

- Chemical Industry Success
- Profitable Chemical Products

### **Part – I : Chemical Industry Success**

In this first part we'll discuss about the important business aspects which will ensure your success in Chemical Industry.

Before getting into any business you must know about it. When you're interested in small scale chemical industry you need to know about the chemical industry. We'll get into these details in the first chapter : **Know about Chemical Industry**

Once you've some idea about the chemical industry, you can start thinking of profitable chemical project ideas. But it's not enough to think of the project ideas.

You must evaluate those ideas based on your background and the resources available to you.

That's how you can ensure the success of your chemical venture. We'll discuss about them in the second chapter : **How to Select Profitable Chemical Projects**

You'll need an efficient chemical manufacturing facility to start your business. As it's common with any business the availability of funds is a constraint. And especially when it comes to small scale industry the problem is acute.

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That's why it becomes essential to minimize the capital investment without compromising on the output. We'll get into those details in the third chapter : **How to Build the Plant with Minimum Investment**

Once you build your chemical manufacturing facility you must operate your business successfully. In today's competitive business environment maximizing the profitability and achieving business sustainability are difficult.

You need to optimize the business operations. We shall cover this important aspect in the fourth chapter : **How to Optimize the Operations for Profitability and Sustainability**

## **Part – II : Profitable Chemical Products**

Now it's time to enter into the second part – Profitable Chemical Products. When it comes to the chemical products they're basically of two types.

- Products Made By Molecular Conversion
- Products Made By Chemical Formulation

The first category of products are made by Molecular Conversion by using chemical or biochemical reactions. They may be chemical synthesis, fermentation, or enzymatic reactions.

Here there's change in the molecules. Most of the chemicals are made this way. We shall get into more details in the chapter : **Products Made By Molecular Conversion**

However only making chemicals is not enough. They must be made suitable for the society.

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Here comes the importance of Chemical Formulations, the second category of chemical products.

Suitable chemicals are mixed together to make formulations useful to the consumers. There's no chemical conversion. Each and every ingredient in the formulation does its specific job.

Most of the chemical based consumer goods are chemical formulations. Think of the personal care products, powerful cleaning agents, exotic cosmetics, enchanting perfumes, effective agrochemical formulations and many more.

All of them are chemical formulations. We shall discuss about them in the chapter : **Products Made By Chemical Formulation.**

## **101 Chemical Product Categories to Explore**

Chemical products are so numerous and so diverse that it's not at all possible to cover them all.

This ebook mentions about some of them. It's to introduce you to the world of chemical products. To be precise you'll be introduced to 101 chemical product categories in order to ignite your imagination.

You can learn further based on your interests and requirements. There're hundreds of product categories not mentioned in the list. Any of them can be suitable for you. Learn as much as you can about the chemical products.

Only when you evaluate a wide varieties of chemical products you'll be able to select the best one. And in fact that's what is essential. Why?

Because most of the industrial failures are due the lack of proper evaluation of products. The product selection is of utmost importance. That'll form a solid foundation for your industrial venture.

Perhaps you can refer to the Project Reports. You can order the Project Reports of the products you're interested in.

The Project Reports will provide you with the details you'll need to evaluate their suitability for your requirements.

For more details email us at [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) with the list of products you're interested in.

Let's join hands for implementing the powerful techno-commercial tools and developing them further in order to add tremendous value to the chemical industry especially in the small scale sector.

Knowledge is essential for adding value to any business. When it comes to a knowledge intensive business like chemical industry it becomes more important

Let's start learning.

Email this ebook freely to your friends and the people who can benefit from it.

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# Secrets of Flourishing Small Scale Chemical Industry

## How to Become a Successful Industrialist with Minimum Investment

Have you Noticed Something Extraordinary in the Industrial World?

A Few Small Scale Chemical Industries are Incredibly Successful. They've not only maximized the Profitability but growing vigorously.

**These handful of Industries are Flourishing where others are finding it difficult to Even Survive.**

Have you ever thought why it's so?

If you study these Industries closely and analyze their business strategies meticulously you'll observe that most of them have adopted Innovations.

**Innovation is Critical for Flourishing Small Scale Chemical Industry**

**In fact most of today's Industrial Leaders have started with a Flourishing Small Scale Chemical Industry long back.**

If you put in the efforts in the Right Direction you can achieve Success.

If You've Decided to Take Your Business to the Next Level, the Book **"Secrets of Flourishing Small Scale Chemical Industry"** can guide you at every stage. It'll not only Help You Maximize the Profitability but also Achieve Extraordinary Business Growth.

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## Project Reports

### Chemical, Pharmaceutical, and Other Process Industries

Do you know why some Industries are Highly Successful whereas Many others are Struggling?

**Isn't it surprising that in spite of tough competition these Industries are not only maximizing the profits but also growing vigorously?**

If you study those Industries closely you'll find an Important Difference.

**All of them have Selected products based on their Strengths and the Resources Available to them.**

You can Match the Products with the Resources Available to You only when You Know the Details. You must know the Product Details, Market, Quality requirements, Raw Materials, Manufacturing Process, Equipments required and so on.

Project Reports can provide you all the Details.

If You are Interested in Selecting the Right Products for Your Industrial Venture Study as many Project Reports as you can.

**You can Order the Project Reports of the Products you're Interested In. Project Reports on hundreds of Profitable Products are available. They'll Help You Select the Right Products for Your Enterprise.**

***Email us at [rbm.finechemicals@gmail.com](mailto:rbm.finechemicals@gmail.com) or [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) for more details.***

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## Know about Chemical Industry

The gifts of Chemical Industry to the modern world are immense. The contributions of the chemical industry towards the quality of life we enjoy today is very high. The coin has two sides. Every good thing has some bad attributes. Chemical industry is no exception. There're ample opportunities as well as difficult challenges.

But unless you know about them in detail you'll not be able to do anything about them. And everything depends on how the chemicals are made. That's the reason why you must know about chemical manufacturing.

### The Manufacturing Processes

The chemical products are made by two types of manufacturing processes.

- Molecular Conversion
- Chemical Formulation

#### Molecular Conversion

When you bring about changes in the molecules of the raw materials, new molecules form. The product molecules and the of the raw material molecules are not the same.

But how to bring about changes in the molecules?

You can achieve molecular conversion by different methods:

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**Chemical Processes :**

Chemical processes use the power of chemical reactions to achieve molecular transformation. Various types of chemical reactions are used to synthesize the products. In most of the cases multiple reaction steps are utilized.

The chemical reactions can be carried out by both continuous or batch processes. However in most of the small scale chemical industries batch processes are used.

**Fermentation Processes :**

In fermentation process microorganisms are used. Molecular transformation is achieved by the biochemical reactions taking place in the microorganisms.

Mostly specially developed microorganisms are utilized. They grow in the fermenters and consume the raw materials. The raw materials get processed by biochemical reactions inside the microorganisms. That's how the raw materials get converted into the products.

**Enzymatic Reactions :**

This process deals with Enzymes. They catalyze the complex biochemical reactions in the living organisms. Enzymatic reactions make use of them.

First of all enzymes are manufactured by using fermentation technology. The enzymes are processed further to make them suitable for use as catalysts for molecular conversion. They're in fact biocatalysts.

In most of the cases chemo-enzymatic processes are used to optimize the synthesis.



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## **Separation and Purification of the Products made by Molecular Conversion :**

Once the molecular conversion is achieved the next task remains to recover the product molecules from the converted mixture. The separation processes must be powerful enough to recover and purify the product molecule efficiently. The final product must meet the customer requirements.

There's another way to get the chemical products:

### **Extraction from Natural Sources :**

It takes advantage of the fact that many useful molecules are available in the natural sources like plants. The product molecules are already made. So there's no necessity of molecular conversion. You just have to recover the molecules from there and purify them.

Do you know which manufacturing process is used more for molecular conversion? It's the chemical processes - chemical synthesis to be exact – are utilized to make major percentage of products especially in small scale chemical industries.

And as far as small scale chemical industries are concerned there's a major benefit in using chemical synthesis. While other manufacturing processes like fermentation and enzymatic technologies call for huge capital investments chemical synthesis processes can be carried out successfully with relatively less investment.

Of course you need to analyze the technical and commercial aspects before finalizing any process. Especially for small scale chemical industry meticulous evaluation is necessary to avoid project failures.

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## **Chemical Formulation**

Chemicals need to be useful to the society. But the customers ask for many features in the products. Different chemicals can perform different functions. So in most of the cases no single chemical molecule can meet all the requirements of the final product.

As a result the only way left is to mix different chemicals. They carry out different functions. Of course some components in the mixture do the major job while others help in meeting minor requirements. We call these chemical mixtures Chemical Formulations.

Irrespective of the manufacturing processes chemical manufacturing has become very challenging.

## **Difficult Challenges to Address**

Unless you know what kind of problems chemical industry is facing today, you can't do anything about them. That's why it becomes necessary to know not only the problems but also the reasons behind them.

The problems become more important for the small scale chemical industries because of the resource constraints.

Let's discuss about the problems small scale chemical industries are facing today.

- Safety and Environmental issues are on the rising trend. It has become exceedingly difficult to address the issues effectively.
- Because of the tough global competition in the market the customers have become very demanding. Now they want highest quality products at lowest price. You know how difficult it is for a small scale chemical industry.

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- Industrial competitors are flooding the market with high quality products at unbelievably low prices. They're using the power of advanced technologies and taking the advantage of higher scale of operation. It's really an issue for the small scale chemical industries.
  - The cost of resources are going up day by day. And to make things worse the selling prices of the finished products are falling sharply. The profit margin is thinning down dangerously.
  - It has become very difficult to comply with the quality system requirements even after investing heavily. Looking to the resources constraints it's really very difficult for the small scale chemical industries.

We've talked about the challenges. Now it's time to look for the opportunities.

## **Incredible Opportunities to Encash**

As far as chemical industry is concerned everything is not bad. There're ample opportunities. And especially for the small scale chemical industries it's necessary to utilize the opportunities wherever it's possible.

Let's list them down:

- Wide varieties of profitable products are already there with Chemical Industry. And many more chemical products of high profit potential are getting added to the list. So there's an opportunity for you to make truck loads of money faster.
- The products of chemical industry are serving the society by fulfilling the human wants to such an extent that the demand is going up day by day.

- When it comes to choosing the right chemical project it's quite easy. Why? It's because of the availability of a long list of highly profitable projects. You can select based on your requirements and the resources available to you.

Now that you've got fair idea not only about the manufacturing processes but also the challenges and the opportunities associated with the chemical manufacturing business.

But unless you select the right project you can't think about chemical manufacturing. Because the business starts from the project finalization.

Let's know more about that in the next chapter...

Email this ebook freely to your friends and the people who can benefit from it.

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## Integrated Technical Training

Effective Technical Training is Not an Option. It's a Must. Why? Because It's to Avoid:

- Non Compliance of Pollution Control requirements in spite of Huge Investments and High Waste Treatment Costs
- Inferior Product Quality in spite of High Manufacturing Cost
- High Resources Consumption leading to Reduced Profit Margins
- Low Productivity and Production Bottlenecks
- Expensive Operational Mistakes resulting in Huge Losses.

But it's a Difficult Challenge to Address. Why? Because...

- It's Technically Complex. it calls for Technical Expertise and tremendous Industrial Experience.
- It's Not a One Time Work. The Operation must be perfect every time.
- It's Not for a Selected few. It's for All Concerned

Employees Must be Trained so that they can perform their jobs Efficiently. Effective Technical Training is the Only Solution.

**Leading Chemical, Pharmaceutical, and Allied Process Industries are Already taking the Advantage of Periodic Technical Training.**

***Perhaps you can consider our Integrated Technical Training Programs for Efficient Operation of Your Manufacturing Facility***

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## **Maximize the Profitability and Achieve Sustainable Industrial Growth**

It's possible only when you address the Industrial Challenges Effectively like:

- Achieving Profit Maximization in spite of High Resources Costs.
- Manufacturing Highest Quality Products at Lowest Cost
- Complying with Stringent Quality System Requirements
- Technological Development to Prepare the Organization for the Future
- Complying with Pollution Control requirements Economically
- Ensuring Safe Industrial Operations
- Achieving Project Success in spite of Difficult Business Constraints

However addressing these Difficult Challenges calls for Technical Expertise and tremendous Industrial Experience.

**Leading Chemical, Pharmaceutical, and Allied Process Industries are Already Investing in Technical Innovations to achieve Extraordinary Output from Ordinary Resources.**

*Perhaps you can consider our End to End Technical Support.*

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## How to Select Profitable Chemical Projects

Finalizing the project details is not easy. You need to select the products and processes. No doubt it's difficult. But it's a must. Why? Because everything gets decided at this stage.

How much you've to invest? What about the technical feasibility? Will you be able to market them successfully? And above all you'd like to know about the profitability and business sustainability.

But you've to start somewhere. The first step will be to think of profitable chemical project ideas.

### Think of Profitable Chemical Project Ideas

It's not that you can't think of chemical project ideas. Going for any idea is one thing. But to think of great ideas based on solid reasons is another thing.

It doesn't matter what is your style of idea generation. But systematic thinking based on important business criteria will definitely help you. It'll help you to keep your thinking process in the right direction and make it productive.

You can utilize the important business criteria like:

- Products available in the market
- Your strengths and interests
- Product cost

You're in search of profitable chemical projects for your small scale chemical industry. You're evaluating many products.

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But whenever you come to know about some chemical formulation based products you get excited. Why?

Because you know a lot about chemical formulations. Thanks to your experience in manufacturing chemical formulations. You've got fair idea about the ingredients used in various chemical formulations. That's precisely the reason why you're searching for profitable products based on chemical formulations.

When you thought of studying the products available in the market you got surprised at the costs they're selling. The cost of one particular category of personal care product was somehow not digestible to you. You were wondering how the products are so expensive. You were really surprised when you find that the selling prices are high irrespective of the manufacturers.

You decided to get into the details. Based on your knowledge you made the list of the ingredients required to make the products. And found out at what cost they're available.

But when you did the cost estimation, you couldn't believe the estimate. It was extremely low. You rechecked the calculation. And of course you ensured that the costs of high quality ingredients are used in the estimation. In fact there was nothing to doubt your estimation. You were quite knowledgeable as far as the manufacturing processes are concerned. Even then you consulted some experts to make sure that you're in the right direction.

Marketing the chemical formulations is difficult especially the products which are used by the common public. Even after considering all types of costs including miscellaneous costs the manufacturing cost is lower. The product is highly profitable at the current price.



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What if you offer the product at half of the existing price in the market?  
You can capture the market. Right?

What if you enhance the quality of your product keeping the selling price at half the selling price? It'll be difficult for your competitors to compete with you. Isn't it?

**So by focusing on the existing market you've selected a potential chemical project for your small scale chemical industry.**

Of course you need to evaluate the chemical project with respect to many other critical business aspects like safety, environment, scale of operation, possibilities of growth and so on. Satisfying all the requirements is difficult. So many of the project ideas may not qualify in the rigorous evaluation process.

That's why it helps to think of hundreds of project ideas especially in the initial phase. And if you're interested in making your evaluations effective invest in the Project Reports.

**The Project Reports will help you think of great chemical project ideas and identify incredible business opportunities.**

Above all the project reports will help you to check whether the project ideas are compatible with your background or not. Why?

Because you're unique. Your background is different from others. And your interests and ambitions are different. Same is the case with the resources available to you. Never ignore this aspect. It's essential for you to succeed in your industrial journey.

## **Shortlisting the Projects**

Thinking about many profitable project ideas is not enough. Why?

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Because you don't know whether they're worth considering. You're not sure whether they're suitable for you. Unless you evaluate them meticulously you'll never be sure about the suitability of the ideas.

Proper evaluation of the business ideas is a must. In fact it's quite challenging and it calls for Techno-Economic expertise.

Even if it's for preliminary evaluation you need to follow a systematic approach. You can consider important business aspects like:

- Market for the products
- Techno-Economic feasibility study
- Resources availability

In the industrial world rigorous project evaluation plays a more important role than you can think of. Why? Because if you study the small scale chemical industries you'll observe that most of them are not at all successful. In fact the reality is worse. Most of them are failures.

But why the small scale chemical industries fail? How come most of them never succeed even after investing huge amount of money. In fact in most of the cases the financial burdens become so heavy that they never recover from the failures.

If you analyse the reasons of industrial failures you'll find one important fact. It's the selection of chemical projects which play the critical role. Meticulous evaluation of chemical projects is essential.

If you want to become a successful entrepreneur you need to evaluate hundreds of projects before finalizing.

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It's especially true for small scale chemical industry and that too in the initial phase. Why? Because you'll save yourself from last minute surprises in the later phase.

### **Project Reports**

If you're interested in making your evaluations effective invest in the Project Reports. The Project Reports will provide you with useful information about the chemical project you're interested in.

It will not only help you in thinking great chemical project ideas but also to evaluate them rigorously.

The most important aspect is to ensure that the chemical project you're talking about is suitable for you. It's not an option. It's necessary. But nobody else can evaluate whether the project suits you or not. You yourself have to do it. Why?

Because you are different from others. You have got your own interests and ambitions. You know about your situation more than others.

That's the reason why you must be knowledgeable. That's the only solution. When you're knowledgeable you can take your own decisions. That's what is essential for success in any industry.

### **Final Project Evaluation**

The time, money and efforts you put in the planning stage are worth. Why? Because you'll get returns multiplied by many folds.

Careful and meticulous planning is a must if you're interested in making your industrial career a resounding success.

That's precisely the reason why you need to analyze each and every aspect before you take the decisions. Both short term and long term effects are important.

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And above all you need to keep your focus on the resources available to you. The idea is to optimally utilize the resources.

That's what the Detailed Techno-Economic Evaluation is.

You need to do the detailing due to multiple compelling reasons like:

- It's quite challenging to decide on the Manufacturing Technology.
- Estimating the Capital Investment correctly is essential so that you can plan for fund arrangement.
- Realistic Project Profitability Analysis can help you in optimizing the production with the market demand.
- Operation planning is essential to match the resources with the requirements.
- Product Costing and planning for the working capital are important.
- Ensuring that you've got proper market for your products and doing the market planning are essential.

Some important Reports which can help you here are:

- Detailed Project Report
- Techno-Economic Feasibility Report
- Market Survey Report

Now it's the time to finalize the right project out of the few you've shortlisted so far.

Meticulous planning and focusing on the detailing can save you from making expensive mistakes. In fact it's essential for the success of your enterprise.

Now you are very much clear about how to think of great project ideas and how to evaluate them properly. It's essential to finalize the project.

But unless you have the manufacturing facility you'll not be able to manufacture the products. As building a manufacturing facility is concerned the most important aspect is the capital investment.

You'd like to minimize the investment. Right?

Let's know more about that in the next chapter...

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# Secrets of Flourishing Small Scale Chemical Industry

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If you study these Industries closely and analyze their business strategies meticulously you'll observe that most of them have adopted Innovations.

**In fact most of today's Industrial Leaders have started with a Flourishing Small Scale Chemical Industry long back.**

If you put in the efforts in the Right Direction you can achieve Success.

If You've Decided to Take Your Business to the Next Level, the Book **"Secrets of Flourishing Small Scale Chemical Industry"** can guide you at every stage. It'll not only Help You Maximize the Profitability but also Achieve Extraordinary Business Growth.

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# Secrets of Active Pharmaceutical Ingredients Manufacturing Success

## How to achieve Business Success and make Significant Contribution

Are you interested in getting associated with the High Potential Fast Growing Industry having Highest Contribution to the Society?

**It's the Pharmaceutical Industry which is offering Incredible Opportunities to Succeed.**

You can associate with Pharmaceutical Industry by Manufacturing Active Pharmaceutical Ingredients. Why?

Because the Active Pharmaceutical Ingredients give the power to the Medicines to fight with Life Threatening Diseases.

But it's tough to succeed in this business because of difficult Issues like:

- Manufacturing these Complex Molecules is extremely difficult.
- It's difficult to meet the Stringent Quality System requirements even after investing heavily.
- High Market Fluctuations is making the Manufacturing Difficult.

It calls for Technical Expertise and Tremendous Industrial Experience

**If You're Serious about utilizing the Opportunities the Book "Secrets of Active Pharmaceutical Ingredients Manufacturing Success" can guide you at every stage.**

***Email us at [rbm.finechemicals@gmail.com](mailto:rbm.finechemicals@gmail.com) or [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) for more details.***

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## **Build Your Plant with Minimum Investment**

Building a chemical manufacturing facility is something you can't take lightly. Why?

It's because of two reasons:

- One, it's one of the most important initiative of your business. In fact the future of your business depends on it.
- Second, it's not easy to build a successful chemical manufacturing facility. You need to consider diverse aspects including both short-term and long-term effects before taking the plunge.

**But when it comes to building your manufacturing facility the most important goal is to Minimize the capital investment without comprising with the efficiency.**

### **Technology is Important**

Building a successful chemical manufacturing facility demand clarity on many aspects like:

- In a chemical manufacturing facility various raw materials like Starting materials, Intermediates, Solvents, Reagents, Catalysts are used. That's why its important to know about their availability, quality requirements, consumption norms, purchasing prices and so on.
- The quality of your products and the prices at which you'll sell them are important. Why? Because customers want better quality products at lower prices.



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- Manufacturing Performance with respect to Manufacturing Cost, Product Quality, and Production Capacity is very important.

If you study the above points closely you'll observe that everything depends on the technical know-how. That's precisely the reason why selecting the best available technology is not an option. It's a necessity.

But your plant design must do justice to the demands of the technology. Why? Because you need to implement the technology in an optimum way to maximize the manufacturing performance. So a well designed manufacturing plant is important.

Let's see how.

## **Optimized Engineering Design**

A well designed chemical manufacturing facility serves three important business goals:

- The aim is to minimize the capital investment without compromising on the business objectives.
- The aim is to achieve excellent manufacturing performance consistently. The performance with respect to Cost, Quality and Capacity must be well above the industry average.
- Finally it's the successful plant commissioning is what is important. Smooth plant commissioning and achieving more than hundred percent production capacity from the day one is the goal.

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Chemical Manufacturing Facility design proceeds through various stages.

- Process Development
- Scale Up
- Basic Engineering Design
- Detailed Engineering Design

You've taken care of the designed part. Now you've to think of constructing the manufacturing facility.

## **Constructing the Manufacturing Facility**

Constructing the chemical manufacturing facility takes you still closer to your industrial dream.

Before constructing your manufacturing facility you need to aim for achieving three important business objectives.

- It's necessary to construct the facility within the budget. Project cost escalation can adversely affect your business. That's the reason why you must get personally involved in monitoring and controlling the project.
- The facility must be proper with respect to production, maintenance, safety, environment and other critical industrial requirements.
- You must be able to complete the project before the schedule and start the manufacturing right away without any modifications or alterations.

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No doubt the construction of an efficient chemical manufacturing facility is challenging. Efficient project engineering and management function can help a lot here. Successful project involves many critical functions like:

- It may involve many engineering functions like Civil, Electrical, mechanical and others.
- Project safety and complying with the statutory requirements are of utmost importance. Necessary approvals and permits are essential.
- Project coordination plays a very important role. Because all the functions are interdependent. When all agencies work co-operate with each other for a common goal project success is guaranteed.

In today's competitive business environment it helps a lot to hire the services of the experts.

You've constructed a well designed manufacturing facility. The work of your project team is completed. Already the plant is handed over to the operation team. Now it's time to run your business efficiently.

Let's see how to do that in the next chapter...

Email this ebook freely to your friends and the people who can benefit from it.

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# Secrets of Manufacturing Money-Making Chemical Formulations

## How to Make Maximum Profit with Minimum Investment

Do you have any idea about the Products which can fetch you Highest Profit but can be manufactured with Lowest Investment?

**Chemical Formulations. You can Make Money with Little Investment with the Right Chemical Formulations.**

But it's extremely difficult to succeed in Chemical Formulations Manufacturing Business. Why? It's Because of the Business Issues like:

- Tough Competition in the Market Place
- The Quality of the Formulations must meet the tough Demands of the Customers
- It's extremely difficult to design the Formulations which can satisfy all business aspects.
- Marketing Chemical Formulations is not easy.

It calls for Technical Expertise and Tremendous Industrial Experience to address the issues effectively.

If You're Serious about Making Money with Chemical Formulations the Book "**Secrets of Manufacturing Profitable Chemical Formulations**" can guide you at every stage. It'll not only Help You in Maximizing the Profitability but also achieve Sustainable Growth.

***Email us at [rbm.finechemicals@gmail.com](mailto:rbm.finechemicals@gmail.com) or [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) for more details.***

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# Secrets of Successful Batch Chemical Manufacturing

## How to Maximize the Profitability and achieve Sustainable Business Growth

Do you know How High Profit and High Demand Chemical, Pharmaceutical, and other Products are made?

**Most of them are made by Batch Chemical Manufacturing!**

But Batch Chemical Manufacturing is full of Difficult Challenges like:

- Customers are Demanding Products of Highest Quality at Lowest Prices.
- Wide Fluctuations in the Market is Making Manufacturing Difficult.
- Increasing Resources Prices is Making it Difficult to Maintain the Profitability.
- Complying with Pollution Control requirements is getting Difficult and Expensive
- Making Your Operation Inherently Safer and Accident Free.

It calls for Technical Expertise and Tremendous Industrial Experience to address the issues effectively.

If You're Serious about Batch Chemical Manufacturing the Book "**Secrets of Successful Batch Chemical Manufacturing**" can guide you at every stage. It'll not only Help You in Maximizing the Profitability but also achieve Sustainable Growth.

***Email us at [rbm.finechemicals@gmail.com](mailto:rbm.finechemicals@gmail.com) or [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) for more details.***

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## Optimize the Operations of Your Industry

Operating a chemical manufacturing business is not easy. Why? It's because you have to not only address the industrial issues effectively but also achieve the profitability.

It's possible when all the critical functions are efficient in achieving the business objectives.

Let's consider them one by one.

### Efficient Manufacturing

Achieving excellent manufacturing performance is essential for business success. Why?

Because the manufacturing facility is the heart of your business. Unless your manufacturing function is efficient your business objectives will never get fulfilled.

Let's see how:

- You've to maintain your manufacturing facility properly so that the operation is efficient.
- Achieving the production capacity is important in to order to meet the growing market demand.
- You must ensure the quality of your products so that you can not only fulfill the customer requirements but also surpass their expectations.

- 
- Controlling the manufacturing cost is the most important initiative you can take. It's essential because customers always want better prices.

## **Innovative Sales and Marketing**

If you can't sell your products at a suitable price expecting business success is meaningless. Why? Because manufacturing quality products is not enough. Unless you're able to sell you can't generate any revenue and of course profit.

Your marketing function must be efficient enough to understand the customer requirements and coordinate with other functions to offer your products to them. You need to ensure that your products match the requirements with respect to cost, quality, and delivery details. But there's an issue. Why?

Because even if your products meet all the requirements you won't be able to sell if the customers are not convinced. You need to reach the prospective customers and convince them about the superiority of your products.

But how to do that?

It's the advertising which can help you accomplish this important goal. In order to get into the advertising details you must see in which category your products fall into.

If you focus you'll observe that the products fall into two broad categories:

- 
- **Consumer Goods** : First type is the consumer goods where you sell them to the individual customers.
  - **Industrial Goods** : The second type is industrial goods where you sell them to the industries.

In order to market your products efficiently you need to focus on two important functions.

### **Market Development**

First of all you need to put in massive efforts to know who are your ideal customers and what they want.

The idea is not only to satisfy them but also to make them delighted. And you can do it by offering better products with respect to cost, quality and delivery.

### **Effective Advertising**

Unless your ideal customers know about your products how will they be interested in them? That's why advertising becomes necessary.

It's to make them aware about your products and the benefits your products offer. They need to understand what they're losing by not buying your products.

But how to advertise?

Basically there're two ways to advertise:

- Offline advertising
- Online advertising



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Both offline advertising and online advertising have their own plus and minus points. But in today's digital era online advertising is getting more and more important especially for the small scale industries. Why?

Because when it comes to small scale industries the marketing budget is limited. The online advertising helps in this aspect by reaching more customers effectively with less cost.

Marketing innovations call for careful evaluation of the situation with respect to the type of products you're manufacturing and the market conditions.

An optimized combination of both offline and online advertising can help a lot in achieving this important business objective.

## **Continuous Improvement of the Business Processes**

Gone are the days when maintaining the business performance at constant level was enough.

But today it's different especially for chemical manufacturing business. You need to improve continuously. Why?

Because your competitors are working hard to go ahead of you. They're investing their resources in Improvement.

- They're improving the quality of their products in order to capture the market and improve the profitability.
- They're putting in massive efforts to reduce the manufacturing cost so that they can compete in the market place.

- They're trying to enhance the productivity so that they can meet the market demand effectively and achieve the leadership position.
- They're investing in efficient business management systems to enhance the business performance.
- They're implementing innovation initiatives continuously to maximize the profitability and achieve business sustainability

So in today's competitive business environment continuously improving the business performance has become a necessity.

Let's now explore the second part of the ebook and know about Profitable Chemical Products.

Email this ebook freely to your friends and the people who can benefit from it.

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## How to Develop Efficient Technology for Profitable Batch Chemical Manufacturing Products

- Are you interested in manufacturing the products having High Profit Margin?
- Would You like the Manufacturing Processes be Environment Friendly and Safe?
- Are you interested in Making Products of Highest Quality at Lowest Cost?

If your answer to any of the questions is 'Yes' you need the Right Technology. Why?

**Because only a Highly Efficient Technology can Meet all the Business Requirements.**

But Procuring the Technology is Not an Option. Why? Because:

- It's Very Expensive.
- You'll Never Get the Best Technology for Your Products.
- You'll be Dependent on the Technology Provider.

**So the Only Option left for You is to Develop Your Own Technology**

But Developing Cost-Efficient Technology is Not Easy! It calls for Expertise.

If You're Serious about Developing Your Own Technologies the Book **"How to Develop Efficient Technology for Profitable Batch Chemical Manufacturing Products"** can guide you at every stage. It'll not only Help You Develop Cost-Efficient Technology Quickly but also Minimize the Investment.

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## How to Develop Efficient Technology for Profitable Chemical Formulations

- Are you interested in Making High Profit Chemical Formulations?
- Would You like to Enhance the Product Quality to Capture the Market?
- Are you Interested in Minimizing the Manufacturing Cost?

If your answer to any of the questions is 'Yes' you need the Right Technology. Why?

**Because only a Highly Efficient Formulation Technology can Meet all the Business Requirements.**

But Procuring the Technology is Not an Option. Why? Because:

- It's Very Expensive.
- You'll Never Get the Best Technology for Your Formulations.
- You'll be Dependent on the Technology Provider.

**So the Only Option left for You is to Develop Your Own Technology**

But Developing Cost-Efficient Technology is Not Easy! It calls for Expertise.

If You're Serious about Developing Your Own Technology the Book "**How to Develop Efficient Technology for Profitable Chemical Formulations**" can guide you at every step of the Developmental Process. It'll not only Help You Develop Cost-Efficient Technology Quickly but also Minimize the Manufacturing Cost.

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## **Part – II : Profitable Chemical Products**

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## Profitable Chemical Products

Before getting into the details of the chemical products you must ensure product suitability.

### Suitable Molecular Conversion based Products

How can you decide which kind of products are suitable for making in your small scale chemical plant?

Though it's extremely important it's not very easy to finalize because of changing business environment. It calls for detailed analysis of the technical and economic situations.

We've already discussed about the product selection. But looking to it's importance it's better to re-evaluate this aspect.

And it helps when you consider the critical business aspects like:

- The market demand
- The availability of the raw materials
- The details of the available technologies and the status of advanced research.
- Pollution Control requirements
- Safety aspects
- Product Quality requirements
- Selling prices and their fluctuations along with the cost of manufacturing.

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In today's changing business environment it's no longer an one time activity. It's an ongoing initiative. Looking to it's importance you don't have any other option than to continually evaluate.

So the products which are made today in small scale industries may not be suitable tomorrow. The same aspect applies to the large scale industry.

That's the reason why it's extremely difficult to specify which products are suitable for your small scale chemical industry

In fact it's a huge opportunity for you to maximize the profitability and achieve sustainable growth. Why?

Because when you identify the incongruences you can add massive value and develop great business ideas. Of course you must be knowledgeable about chemical manufacturing.

Study the manufacturing processes of hundreds of products. Put in massive efforts to collect relevant technical and commercial information. Evaluate the products and processes with an integrated approach. Optimize the diverse business aspects.

The outcome will surprise you. You'll be able to develop extremely profitable projects.

Now let's discuss about the profitable chemical products. And to start with let's talk about the products made by molecular conversion.

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## Products Made By Molecular Conversion

When you're talking about molecular conversion what you mean is the molecular change. As we've discussed earlier there're various manufacturing processes to bring about the molecular change.

Now, let's talk about the products. If you study the products of chemical industry you'll find hundreds of product ranges. And under each product range there may be hundreds of products.

Let's discuss about some of the product ranges under different industry categories.

### Active Pharmaceutical Ingredients

It's the active molecules in the medicines which actually do the job of fighting with the diseases. That's why they're called Active Pharmaceutical Ingredients or API.

Active Pharmaceutical Ingredients have complex molecular structures with special properties. That's the reason why they're so effective against the diseases.

The market demand for effective medication is going up due to various reasons. Many of the profitable active pharmaceutical ingredients can be made in your small scale industry. So it makes business sense to explore the possibilities of making them.

Different active pharmaceutical ingredients cater to different medication categories. Some of the product categories you can consider are:



- 
- Antibiotics
  - Antifungal Molecules
  - Antiviral Molecules
  - Antiparasitic Molecules
  - Antihypertensive molecules
  - Antiplatelet agents
  - Anticoagulants
  - Cholesterol lowering agents
  - Antidiabetic Molecules
  - Anticancer Molecules
  - Proton Pump Inhibitors
  - Pain Killers
  - Vitamins and Nutraceuticals

But it's a knowledge intensive industry. You must be knowledgeable in order to be successful in this business.

Now let's see how to make Active Pharmaceutical Ingredients manufacturing fast and easy.

## **Making Pharmaceutical Intermediates**

Most of the active pharmaceutical ingredients are made by chemical synthesis. However it becomes difficult to synthesize them because of the complexity of the reaction mechanisms and multiple reaction steps.

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Even if you utilize other processes of manufacturing, starting from the basic raw materials makes the process difficult. But how to make the manufacturing easy?

Here the pharmaceutical intermediates come into the picture. You start with pharmaceutical intermediates and your manufacturing processes become short and easy.

Multiple pharmaceutical Intermediates are required to manufacture a single active pharmaceutical ingredient. That's the reason why they're in high demand.

Some of them can be made in your small scale industry. If you can make high quality products at reduced manufacturing costs, you can make huge profits.

## **Agrochemicals and Intermediates**

It's essential to enhance the agricultural output. Why? Because in order to make food available to all it's necessary to make agriculture efficient. And you need different types of agrochemicals for addressing the agricultural issues.

- Herbicides control the weeds and unwanted plants.
- Insecticides are very effective in controlling the insects.
- Fungicides are effective in killing the parasitic fungi and their spores.

However the agrochemical manufacturing is capital intensive. But if you analyze the technical and commercial aspects meticulously you can select the right products for your small scale chemical industry.

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Some of the products categories you can evaluate are:

- Herbicides and their intermediates
- Insecticides and their intermediates
- Fungicides and their intermediates
- Plant growth regulators
- Biofertilizers
- Biopesticides
- Botanical Pesticides

## **Dyes and their Intermediates**

Whenever you're getting fascinated by colorful dresses or feeling happy to use colored papers, you're enjoying the gifts of chemical industry. Why? Because these colorful things wouldn't have been possible without Dyes.

Dyes are chemicals used to color wide varieties of substances like textiles, paper, leather and others.

Dyes are classified in many ways. Some of the major types of dyes you can consider are:

- Reactive Dyes and their intermediates
- Disperse Dyes and their intermediates
- Direct Dyes and their intermediates
- Solvent Dyes and their intermediates

- 
- Acid Dyes and their intermediates
  - Basic Dyes and their intermediates
  - Vat Dyes and their intermediates
  - Special dyes and their intermediates

## **Pigments and their intermediates**

When you look outside you see the colorful world. You're living in a house painted with your favorite colour. You've chosen the color of your car. The same is the case with many things you're using. What makes them colorful. They're pigments.

Pigments are chemicals used to make wide varieties of substances like paints, plastics, rubber, ink, cosmetics and others. They're mixed with the materials to color them.

The pigments can be inorganic or organic. Some of pigment industry product categories you can consider are:

- Chromium based Pigments
- Iron Oxide Pigments
- Phthalocyanine Pigments
- Azo pigments and their intermediates
- Lake Pigments

---

## Surfactants and detergents

Surfactants are chemicals which lower down the surface tension between two phases. They may be between two liquids, liquid and gas or solid and liquid. Surfactant molecules have both hydrophilic – water loving - and hydrophobic – water hating – functional groups.

They're important because of their effectiveness in the functions like cleaning, foaming, antifoaming, emulsifying, dispersing and others. That's the reason why they're used in making wide number of products like cleaning agents, paints, emulsifying agents, adhesives, and so on.

They can be divided into four categories.

- Anionic surfactants
- Cationic surfactants
- Amphoteric surfactants
- Non Ionic surfactants

Many of these molecules call for high capital investment. But there are many products in each category which you can make in your small scale industry . You need to analyze the technical and commercial aspects carefully before taking the decision

## Perfumery Chemicals

Exotic fragrances and flavors attract everybody. The fragrant substances may be natural like flowers or your favorite scent. Irrespective of whether they're natural or artificial the fragrance is because of certain chemicals.

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These molecules get vaporized and reach us as fragrances. We call them perfumery chemicals.

Most of the perfumery chemicals are made by two types of manufacturing processes:

- The first one involves extraction of perfumery ingredients from the natural sources. Various essential oils and other perfumery substances are isolated from the natural sources.
- The second process concerns with chemical synthesis. Today major percentage of perfumery chemicals are manufactured by chemical synthesis.

Many perfumery chemicals are manufactured in the industry. They're used in many industries. Some of them are suitable for manufacturing in large scale whereas some of them can be made in a small scale industry.

These molecules are classified in various ways. Some of them you can consider are classified as per their chemical structures.

- Esters
- Aldehydes
- Ketones
- Alcohol
- Aromatic chemicals
- Lactones
- Terpenes
- Miscellaneous Chemicals

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You can find many profitable products in each category. As I have mentioned above you need to analyze the technical and commercial aspects in order to select the right one for your business.

## **Inorganic Chemicals**

Thousands of Inorganic Chemicals are manufactured regularly. It's because they're not only used for various applications but also to synthesize a wide variety of products. If you study the details you can always find suitable products for your small industry.

Let's list down some of the product ranges:

- Calcium Compounds
- Chromium based products
- Aluminum Compounds
- Iron Compounds
- Copper based Products
- Sodium Compounds

## **Chemicals Used in Different Industries**

Most of the industries need chemicals for efficient manufacturing of their products. They may need these chemicals for smooth functioning of their manufacturing processes. Or they may need them to ensure the final product quality.

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Most of the industries need many chemicals in large quantities. Once you study their manufacturing processes meticulously you'll find profitable chemical products. And if you're able to make high quality products at low cost you can make your industrial venture highly profitable.

However many of these molecules call for high capital investment. But there are many products in each category which you can make in your small scale industry . You need to analyze the technical and commercial aspects carefully before taking the final decision.

Let's see the product categories to focus on:

- Chemicals used in Rubber Industry
- Chemicals used in Paper Industry
- Chemicals used in Water Treatment
- Chemicals used in Food Processing
- Construction Chemicals
- Electronics Chemicals
- Chemicals used in Textile Industry
- Chemicals used in Plastics Industry
- Chemicals used in Waste Water Treatment
- Excipients for Pharmaceutical Formulation
- Chemicals used in Biotechnology Industry

Molecular conversion based products cover an wide range. There are thousands of product categories. And each category has hundreds of products.



Many products call for huge capital investment. And so they can only be made in large industries. Where as there are many products for which the investment requirements are minimum.

That's why you can always select the products for your small scale industry based on the investment requirements. However careful analysis of the technical and commercial aspects is essential to select the right products.

Now it's the time to know about the other type of products – the products made by Chemical Formulation.

Let's get into the details in the next chapter...

Email this ebook freely to your friends and the people who can benefit from it.

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## Integrated Technical Training

Effective Technical Training is Not an Option. It's a Must. Why? Because It's to Avoid:

- Non Compliance of Pollution Control requirements in spite of Huge Investments and High Waste Treatment Costs
- Inferior Product Quality in spite of High Manufacturing Cost
- High Resources Consumption leading to Reduced Profit Margins
- Low Productivity and Production Bottlenecks
- Expensive Operational Mistakes resulting in Huge Losses.

But it's a Difficult Challenge to Address. Why? Because...

- It's Technically Complex. it calls for Technical Expertise and tremendous Industrial Experience.
- It's Not a One Time Work. The Operation must be perfect every time.
- It's Not for a Selected few. It's for All Concerned

Employees Must be Trained so that they can perform their jobs Efficiently. Effective Technical Training is the Only Solution.

**Leading Chemical, Pharmaceutical, and Allied Process Industries are Already taking the Advantage of Periodic Technical Training.**

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## **Maximize the Profitability and Achieve Sustainable Industrial Growth**

It's possible only when you address the Industrial Challenges Effectively like:

- Achieving Profit Maximization in spite of High Resources Costs.
- Manufacturing Highest Quality Products at Lowest Cost
- Complying with Stringent Quality System Requirements
- Technological Development to Prepare the Organization for the Future
- Complying with Pollution Control requirements Economically
- Ensuring Safe Industrial Operations
- Achieving Project Success in spite of Difficult Business Constraints

However addressing these Difficult Challenges calls for Technical Expertise and tremendous Industrial Experience.

**Leading Chemical, Pharmaceutical, and Allied Process Industries are Already Investing in Technical Innovations to achieve Extraordinary Output from Ordinary Resources.**

*Perhaps you can consider our End to End Technical Support.*

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## Products Made By Chemical Formulation

Chemical formulations make the chemicals useful to the society. That's the reason why most of the consumer products are chemical formulations.

Basically the chemical formulations are of two types:

- Bulk Chemical Formulations : You use high volume low value bulk chemicals to make Bulk Chemical Formulations.
- Fine Chemical Formulations : You use low volume high value fine chemicals to make Fine Chemical Formulations.

Most of the chemical formulations require less capital investment. That's the reason why manufacturing chemical formulations is an incredible opportunity for small scale industry.

Various types of products are made by chemical formulation. Let's see the product ranges.

### Paints and Coatings

If you closely observe the colorful objects in the modern world you'll find one interesting fact. Most of them are painted or coated. That's the reason why paints and coatings of different varieties are in demand.

Paints and Coatings are Bulk Chemical Formulations. Different types of paints are available in the market and you can always select the type of paint you want to manufacture in your small industry.

Of course some product categories may not be suitable to manufacture at small scale.

Let's see the product categories related to paints and coatings.

- Decorative Paints
- Domestic Paints
- Automotive Paints
- Industrial Paints.
- Enamel
- Varnish
- Lacquer
- Distemper
- Special Paints and Coatings

For effective application of paints and coatings you need the products like:

- Paint Primer
- Paint Thinner
- Paint Additives
- Putty

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## **Cosmetics and Personal Care Products**

All of want to look attractive and presentable to the world. Cosmetics serves that purpose very well. Various types of cosmetics and personal care products are available to beautify and take care of almost all parts of our body.

Most of the cosmetics and personal care products are Fine Chemical Formulations. They're low volume high value products. Both natural and synthetic ingredients are used to make formulations.

Different types of Cosmetics and personal care products are available. You can always select the right products for your small scale industry from the wide range.

Let's see the product categories:

- Deodorants and Antiperspirants
- Baby Products
- Bath Products
- Eye Makeup Preparations
- Facial Makeup Preparations
- Foot Care Products
- Hand Care Products
- Skin Care Products
- Hair Care Products
- Lip Care Products
- Nail Care Products

- 
- Oral Care Products
  - Saving Products
  - Sun Care Products
  - Perfumery Preparations

## **Cleaning Agents**

Cleaning Agents are essential for modern life. Why? Because everything gets dirty with usage. So cleaning and washing to get rid of dirt and soil are necessary. We want perfectly washed fresh smelling clothes to wear. We want perfectly cleaned linens.

Here the Cleaning Agent come to the picture. They're powerful enough to clean everything so that they look as good as new. These are Bulk Chemical Formulations. Wide varieties of cleaning agents are available to meet different cleaning requirements. So it's not difficult to select the products to make in your small industry.

Let's check the product categories

- Laundry Detergents
- Dish Washing Detergents
- Fabric Softener
- Floor Cleaners
- Carpet Cleaning Agents
- Car Wash Preparations
- Oven Cleaning Products

- 
- Bathroom Cleaning Agents
  - Toilet Cleaners
  - Metal Cleaner
  - Windows and Glass Cleaners
  - Industrial Cleaners
  - Drain Cleaners

## Disinfectant Formulations

Disinfection is necessary to maintain healthy environment. Why? Because there are pathogens – disease causing microorganisms – everywhere. The pathogens can grow anywhere and multiply very fast. In order to save ourselves from dangerous diseases it's essential to control the pathogens.

Disinfecting Agents are powerful enough to either kill the pathogens or stop them from multiplying. That's how they help in maintaining healthy environment. They're bulk chemical formulations.

We use different types of disinfecting agents to make our living environment healthy. And most of these formulations are suitable for manufacturing in small scale industry.

Let's list down some products categories:

- Chlorine Disinfectants
- Alcohol based Disinfectants
- Aldehydes based Disinfecting Formulations



- 
- Hydrogen Peroxide based Disinfecting Formulations
  - Phenolic Disinfecting Formulations
  - Disinfecting Formulations based on Quaternary Ammonium Compounds

## **Agrochemical Formulations**

Agrochemicals are essential for enhancing the agricultural efficiency. But manufacturing agrochemical molecules is not enough. Why? Because farmers can't use the chemical compounds as such. They need to be properly formulated with other ingredients in order to make them useful to the farmers.

That's why agrochemical formulations are important. They're Bulk Chemical Formulations containing agrochemical molecules as active ingredients. You can make different formulations for different applications. If you analyze the technical and commercial aspects you'll find most of the products are suitable for small scale industry.

Let's see some of product categories

- Herbicide Formulations
- Insecticide Formulations
- Fungicide Formulations
- Plant Growth Enhancing Formulations
- Micronutrients Formulations

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## Lubricants

Lubricants are used to reduce the friction between the surfaces. When the surfaces mutually in contact move a lot of heat is generated due to friction. Lubricants help in reducing the heat generation and transfer the heat. They are essential for internal combustion engines used in vehicles and machineries.

Different lubricating formulations are required for different machines and different applications.

Many of the products need high investments and there for not suitable for small scale industry. But if you evaluate the technical and commercial aspects meticulously you'll find many products suitable for small scale industry.

## Adhesives

Adhesive Formulation are used to join the objects. The adhesive material fills the space between the surfaces of the objects and makes bonding. They're bulk chemical formulations. They're made by formulating bonding agents, solvents and other ingredients.

Different adhesives varieties are used for different applications. You can make many of them in your small scale industry.

Let's list down some product categories:

- Starch based Adhesives
- Epoxy Adhesives
- Hot Melt Adhesives

- 
- Structural Adhesives
  - Pressure Sensitive Adhesives
  - Dental Adhesives

## **Industrial Chemical Formulations**

Most of the industries need Chemical Formulations for smooth functioning of their manufacturing processes. Different Chemical Formulation categories are required for different industries.

If you get into the details of technical and commercial aspects you'll find most of the products are suitable for small scale industry.

Let's see some of product categories based on the type of industry:

- Textile Auxiliaries
- Food Additives
- Chemical Formulations for Construction Industry
- Chemical Formulations for Electronics Industry
- Chemical Formulations for Wood Industry
- Plastic and Rubber Additives
- Chemical Formulations for Water Treatment
- Chemical Formulations for Waste Water Treatment
- Chemical Formulations for Paper Industry
- Oil Field Chemical Formulations

There are thousands of profitable chemical products to choose from. Only when you evaluate a wide varieties of products you'll be able to select the best one.

Perhaps you can refer to the Project Reports. You can order the Project Reports of the products you're interested in.

The Project Reports will provide you with the details you'll need to evaluate their suitability for your requirements.

For more details email us at [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) with the list of products you're interested in.

We've almost reached the end of the ebook. Now it's the time to conclude.

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## Project Reports

### Chemical, Pharmaceutical, and Other Process Industries

Do you know why some Industries are Highly Successful whereas Many others are Struggling?

**Isn't it surprising that in spite of tough competition these Industries are not only maximizing the profits but also growing vigorously?**

If you study those Industries closely you'll find an Important Difference.

**All of them have Selected products based on their Strengths and the Resources Available to them.**

You can Match the Products with the Resources Available to You only when You Know the Details. You must know the Product Details, Market, Quality requirements, Raw Materials, Manufacturing Process, Equipments required and so on.

Project Reports can provide you all the Details.

If You are Interested in Selecting the Right Products for Your Industrial Venture Study as many Project Reports as you can.

**You can Order the Project Reports of the Products you're Interested In. Project Reports on hundreds of Profitable Products are available. They'll Help You Select the Right Products for Your Enterprise.**

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# Secrets of Flourishing Small Scale Chemical Industry

## How to Maximize the Profitability and Grow Sustainably

Have you Noticed Something Extraordinary in the Industrial Word?

A Few Small Scale Chemical Industries are Incredibly Successful. They've not only maximized the Profitability but growing vigorously. In fact these handful of Industries are Flourishing where others are finding it difficult to Even Survive.

Have you ever thought why it's so?

If you study these Industries closely and analyse their business strategies meticulously you'll observe a common aspect among these ventures.

All of them have adopted Innovations wholeheartedly.

**In fact most of today's Industrial Leaders have started with a Flourishing Small Scale Chemical Industry long back.**

Of course implementing Innovations effectively is Not Easy. However if you put in the efforts in the right direction you can achieve what you want. But you've to Decide.

If You've Decided to Take Your Business to the Next Level, the Book **"Secrets of Flourishing Small Scale Chemical Industry"** can guide you at every stage. It'll not only Help You Maximize the Profitability but also Achieve Extraordinary Business Growth.

*Email us at [rbm.finechemicals@gmail.com](mailto:rbm.finechemicals@gmail.com) or [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) for more details.*

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## Let's Conclude

You've already learnt what it takes to become successful in chemical industry. You have already known that there're thousands of profitable chemical products to choose from.

Especially you've been introduced to 101 chemical product categories.

And you've known about the most powerful initiatives for adding tremendous value in any industry. They're nothing but Innovations especially the Disrupting Technical Innovations.

But the best part in the whole equation is you. You're reading the concluding part of the ebook. It tells many things about you. You're different from the masses. You don't spend your time only thinking about achieving your industrial dreams. You're willing to put in massive efforts to achieve success.

**In fact you've what it takes to become a successful industrialist.**

Sometimes you may lose the enthusiasm. Sometimes the goal may seem too far. Many a times you may feel you don't have the resources what it takes to be successful.

That's where the application oriented Learning Materials come in to the picture. Please refer to them whenever you're in a not knowing what to do kind of situation. These Learning Materials are powerful enough to keep yourself motivated.

At last the most important thing. You must be action oriented. Successful Technical Entrepreneurs take action.

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As I've mentioned earlier you've taken the first step – by reading this ebook. Now it's time to maintain the momentum.

In order to succeed in any industry you must think differently. Why?

Things are continuously changing in the industrial world. In fact the only permanent thing is change. And this situation will remain for years to come.

Human wants are changing. And a number of newer wants are getting added to the list. The wants are getting modified to suit the changed environment. The customer expectations have increased. They're demanding better products at lower prices.

New technologies are being developed. Earlier technologies are getting obsolete. Especially in chemical industry many aspects of manufacturing is changing.

With the change in route of synthesis raw material situations are changing. Raw material requirements are changing. And so their availability. The raw material costs are varying in a great pace.

But as a technical entrepreneur you must make efforts to find answer to the questions like:

- How can you utilize the technological advances?
- Can you make quality products from alternative raw materials which are available at cheaper prices?
- Can you modify the quality of the existing products to suit new applications?
- Can reduce the manufacturing costs significantly in order to create new markets and expand the existing markets significantly?



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- Can you use locally available raw materials to make value added products?
  - Can you reduce the environmental impacts significantly by employing process innovations?
  - Can you significantly increase the usage of renewable resources for making chemical products?

The answers to the above questions will make you think in a targeted way. And it's important. Why? Because unless you concentrate your efforts towards achieving your goals, it'll be difficult for you to move fast. In today's competitive business environment speed is important.

Be Action Oriented. Learn what is useful to you. Invest in application oriented education. Explore the opportunities to be successful. Learn as much as you can. Your success will depend on how knowledgeable you are.

We're preparing useful learning materials to help you fulfill your industrial dreams. Do order the books as mentioned earlier and expand the application oriented knowledge.

These books will put wings to your imagination. They'll not only introduce you to the lucrative world of Technical Entrepreneurship but also make you capable of bringing in disrupting innovations and add value.

Email us at [rbm.innovations@gmail.com](mailto:rbm.innovations@gmail.com) with your comments and suggestions. Your opinion is very important to us. It will help us in making the learning materials useful.