



Magnesium Sulphate (Epsom Salt)

Manufacturing Business.

Profitable Project Opportunities
in Chemical Industry

Introduction

Magnesium sulfate, commonly known as Epsom salt, is a mineral. It works by replacing magnesium in the body and increasing water in the intestines. Magnesium is a naturally occurring mineral that is important for many systems in the body especially the muscles and nerves. Magnesium sulfate also increases water in the intestines.



Magnesium sulfate is used as a laxative to relieve occasional constipation. Magnesium sulfate can be used orally as a laxative to relieve occasional constipation, and to treat low levels of magnesium. Magnesium sulfate as a medication is used to treat and prevent low blood magnesium and seizures in women with eclampsia. It is also used in the treatment of torsades de pointes, severe asthma exacerbations, constipation, and barium poisoning. It is given by injection into a vein or muscle as well as by mouth. As Epsom salts, it is also used for mineral baths.

Magnesium Sulphate is a chemical compound which is a mixture of magnesium, oxygen, and sulphur. Magnesium sulphate often faced as sulphate mineral & epsomite which are commonly known as Epsom Salt.

Applications of magnesium sulphate have spreaded across many industries such as healthcare, agriculture, pharmaceuticals, food additives and other industries as well. In medical, it is used both i.e. internally as well as externally.

Magnesium sulfate is an anhydrous inorganic salt in crystalline solid form composed of magnesium, oxygen, and sulfur. Magnesium sulfate shows very high solubility in water. Magnesium sulfate is odorless. Magnesium sulfate can be prepared artificially by neutralizing sulfuric acid with magnesium carbonate or oxide to obtain the heptahydrate form, but it is usually obtained directly from natural sources. Scientifically magnesium sulfate is represented by molecular formula MgSO_4 .

Magnesium sulfate is also commonly known as Epsom salt (heptahydrate) or English salt, or bitter salt. Magnesium sulfate can also be found in hydrated forms broadly classified as monohydrate and heptahydrate. The monohydrate and heptahydrate forms contain one and seven H₂O molecules, respectively. MgSO₄ is commonly encountered as the heptahydrate sulfate mineral epsomite. It is usually called as Epsom salt.

Magnesium sulfate (anhydrous) is an inorganic salt made up of magnesium, oxygen, and sulfur. The molecular formula of magnesium sulfate is MgSO₄. Magnesium sulfate is also known as Epsom salt (heptahydrate), English salt, and Bitter salt. Magnesium sulfate also occurs in hydrated forms, including monohydrate and heptahydrate.

The monohydrate and heptahydrate forms contain one and seven H₂O molecules, respectively. Magnesium sulfate is commonly encountered as the heptahydrate sulfate mineral epsomite. It is usually called as Epsom salt. Magnesium sulfate exists as white crystalline solid. Magnesium sulfate shows very high solubility in water. Magnesium sulfate is odorless. Magnesium sulfate can be prepared artificially by neutralizing sulfuric acid with magnesium carbonate or oxide to obtain the heptahydrate form, but it is usually obtained directly from natural sources. The only known method for preparing anhydrous magnesium sulfate is by the dehydration of a hydrate.



Another driver for magnesium sulphate market is revolution in agriculture. As new technologies are coming in field of farming, demand for magnesium sulphate is increasing. As new processes are coming out from R&D department of companies about the use of magnesium sulphate demand for magnesium sulphate market is increasing and will keep increasing. On the contrary, allergic reactions such as skin infection, diarrhoea or upset stomach could hamper the growth of the market.



The magnesium sulfate worldwide is most extreme requested in APAC nations, because of land fragmentation, people/ farmers are left with little land property. The needs to get greatest yield from the accessible area assets has produced and will promote create the need of magnesium sulfate utilization in farms. Followed by this, North America and European region holds the second and third position in terms of value and volume.

In gardening and other agriculture processes, magnesium sulfate plays an important role to correct magnesium or sulfur deficiency in soil. Magnesium sulfate is important component of various fertilizers. Magnesium is an essential element in the chlorophyll molecule, and sulfur is another important micronutrient.

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Anhydrous magnesium sulfate exhibits features, which make it a suitable drying agent. The anhydrous magnesium sulfate form is hygroscopic i.e. it readily absorbs water from the air. Magnesium sulfate is also recognized for its use as a beauty product. Athletes prefer magnesium sulfate to soothe sore muscles.

Magnesium Sulphate market is expected to worth USD 10,731.05 Million by 2027, at 4.48 % of a CAGR during the anticipated period (2017 – 2027). The global magnesium sulfate market is consist of few leading players who have been holding the control of the global market. However, the market has been influenced by the cosmetic industry players and may witness their penetration due to magnesium sulfate offers a range of application in the cosmetic product formulations. The global magnesium sulfate market is projected to dominate by the leading cosmetic industry leaders since they have invested a huge amount for the product innovation and research.

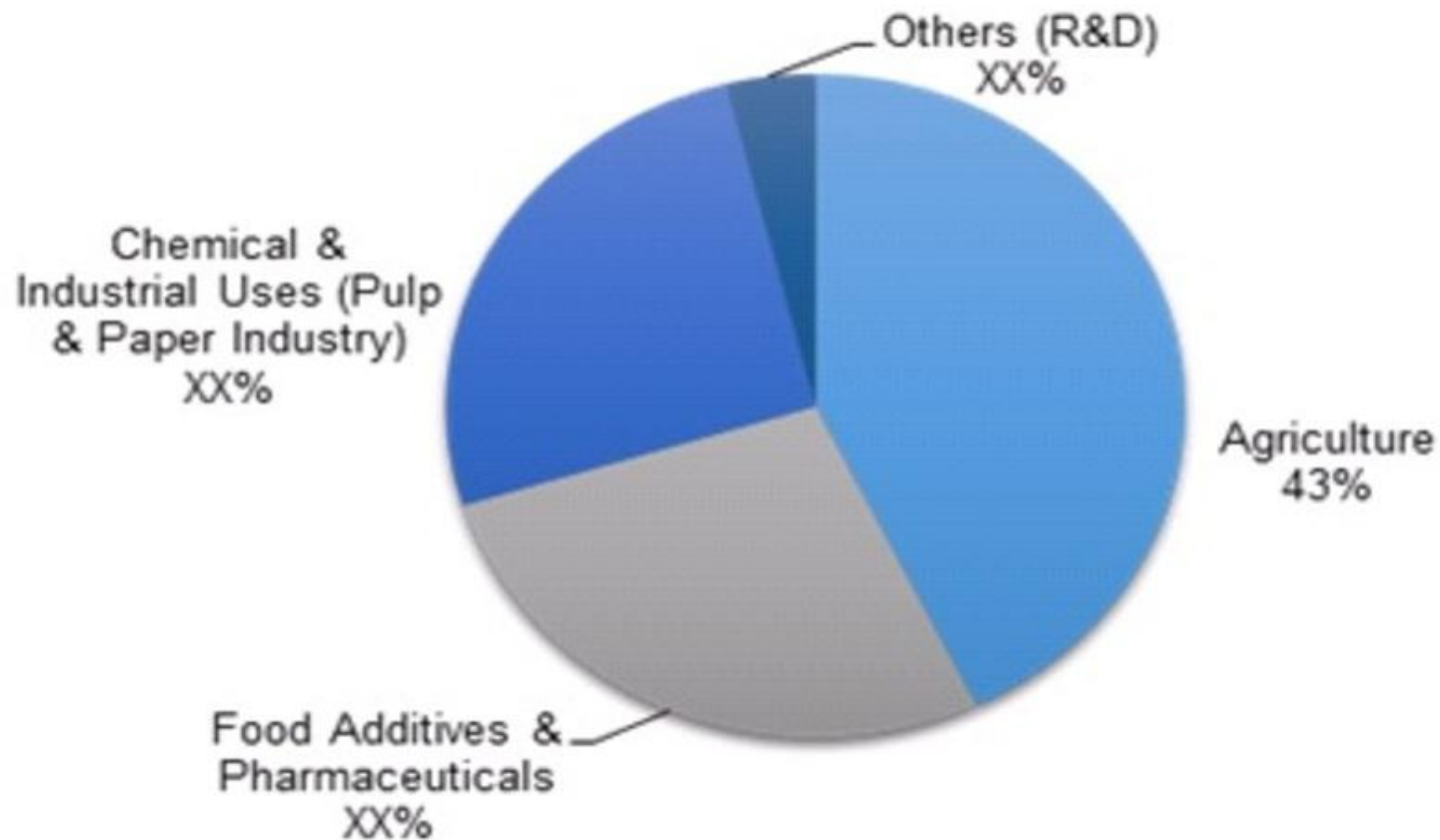
Segmentation

The magnesium sulfate market is segmented based on type, form, application, and region. Based on type, the market is categorized into heptahydrate (Epsom salt), anhydrous magnesium sulphate, monohydrate magnesium sulphate, others. Based on form, the market is classified into crystal, powder, and granules. Based on application, magnesium sulphate market is classified into fertilizer, medical & personal care, food additive, industrial, chemical, and others. Based on region, the global market has been spanned across Asia Pacific, Latin America, North America, Europe, and the Middle East & Africa



As the population are growing very rapidly and the demand for food, particularly the quality of food need to increase so as serve the proper nutrients in human body. The large portion of population is very much conscious about health due to the increasing incidences of viruses and diseases. These factors are majorly forcing the government to provide the farmers all the possible help to make use of magnesium sulphate while farming. The decreasing arable land is also one of the major factor why farmers are pressurize to use magnesium sulphate as a fertilizer. Europe is considered as the major exporter of magnesium sulphate due to the larger availability and farmers are intended to use the magnesium sulphate as a key mineral which can improve the food quality.

Global Magnesium Sulphate Market Share Analysis, by Application (2015)



Epsom salt market has been segmented on the basis of form such as granules, powder, crystal and bath bombs. Crystal segment is anticipated to retain its dominance throughout the forecast period. However, bath bomb segment is projected to register a higher growth of 5.07% during the review period. On the basis of application, Epsom salt market is segmented into agriculture, food additives & pharmaceutical, personal care & home care, Chemicals & industrial and others (R&D). Personal care & home care segment is projected to account maximum market proportion during the forecast period. On basis of distribution channel, Epsom salt market is segmented into store based, non-store based. Store based segment also can be sub segmented into drug stores & specialty pharmacies, health & wellness center, supermarkets & hypermarkets, convenience stores and others. Non Store based distribution channel is gaining momentum during the review period by registering a CAGR of 4.99%.

Epsom salt leading market players

- **Bathclin (Japan)**
- **Parfums De Coeur, Ltd (U.S.)**
- **CVS Pharmacy (U.S.)**
- **San Francisco Salt Company (U.S.)**
- **SaltWorks, Inc. (U.S.)**
- **Baymag Inc. (Canada)**
- **K+ S Kali Gmbh (Germany)**

Machinery Photographs



REACTOR



PRECIPITATION MS TANK



EVAPORATOR



STORAGE TANK

Project at a Glance

PROJECT AT A GLANCE				(` in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	65.00	65.00	Capital	0.00	63.95	63.95
Buildings	0.00	68.38	68.38	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	53.34	53.34	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	6.00	6.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	22.25	22.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	191.84	191.84
Preliminary& Pre-operative Exp	0.00	1.50	1.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	5.00	5.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	24.32	24.32				
TOTAL	0.00	255.78	255.78	TOTAL	0.00	255.78	255.78

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`		%
1-2	5.27	8.33	15.27	24.00	0.00	100.00	5.27	0.00	5.27	1.00	0.00
2-3	8.40	11.10	23.68	18.00	0.00	100.00	8.40	0.00	8.40	1.00	0.00
3-4	11.47	13.85	35.15	12.00	0.00	100.00	11.47	0.00	11.47	1.00	0.00
4-5	14.41	16.51	49.56	6.00	0.00	100.00	14.41	0.00	14.41	1.00	0.00
5-6	17.19	19.05	66.75	0.00	0.00	100.00	17.19	0.00	17.19	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.25	1.25		1.57	1.57	2.80		9.97%	5.22%	3.53%	278.12	29.15%	2.63	1.01
2-3	1.59	1.41		0.76	0.76	1.68		11.41%	7.45%	4.83%	321.27	28.87%	2.80	1.19
3-4	1.99	1.59	1.98	0.34	0.34	1.04		12.37%	9.03%	5.77%	367.09	28.86%	2.81	1.43
4-5	2.47	1.78		0.12	0.12	0.68		13.02%	10.15%	6.44%	412.91	28.85%	2.72	1.70
5-6	3.02	1.98		0.00	0.00	0.46		13.43%	10.93%	6.91%	458.73	28.85%	2.57	2.39

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	59.41%
Total BEP (% of Installed Capacity)	62.00%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.12%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	10.287

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Magnesium Sulphate Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Magnesium Sulphate Manufacturing Business?**
- 7. What are the operating costs for setting up Magnesium Sulphate Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Magnesium Sulphate Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Magnesium Sulphate Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Magnesium Sulphate Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Magnesium Sulphate Manufacturing Business?**
- 12. What is the Manufacturing Process of Magnesium Sulphate?**

- 13. What is the total size of land required for setting up Magnesium Sulphate Manufacturing plant ?**
- 14. What will be the income and expenditures for Magnesium Sulphate Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Magnesium Sulphate Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Magnesium Sulphate Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Magnesium Sulphate Manufacturing Business?**

18. What are the Personnel (Manpower) Requirements for setting up Magnesium Sulphate Manufacturing Business?

19. What are Statistics of Import & Export for Magnesium Sulphate?

20. What is the time required to break-even of Magnesium Sulphate Manufacturing Business?

21. What is the Break-Even Analysis of Magnesium Sulphate Manufacturing plant?

22. What are the Project financials of Magnesium Sulphate Manufacturing Business?

- 23. What are the Profitability Ratios of Magnesium Sulphate Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Magnesium Sulphate Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Magnesium Sulphate Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Magnesium Sulphate Manufacturing project?**

- 27. What are the Market Opportunities for setting up Magnesium Sulphate Manufacturing plant?**
- 28. What is the Market Study and Assessment for setting up Magnesium Sulphate Manufacturing Business?**
- 29. What is the Plant Layout for setting up Magnesium Sulphate Manufacturing Business?**

Table of Contents of the Project Report

1. PROJECT LOCATION

- 1.1. CITY PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
 - 1.1.1. General
 - 1.1.2. Physical Characteristics
 - 1.1.3. Climate and Rainfall
 - 1.1.4. Map
 - 1.1.5. Economy and Industry
 - 1.1.6. Transport

2. INTRODUCTION

3. PROPERTIES

- 3.1. PHYSICAL PROPERTIES
- 3.2. CHEMICAL PROPERTIES

4. B.I.S. SPECIFICATION

- 4.1. IS 2730 (1977): MAGNESIUM SULPHATE (EPSOM SALT)

5. HEALTH BENEFITS

6. USES AND APPLICATIONS

- 6.1. USES
- 6.2. MISCELLANEOUS APPLICATIONS

7. SAFETY AND HAZARD PROPERTIES

- 7.1. CHEMICAL DANGERS
- 7.2. HAZARDS IDENTIFICATION
- 7.3. FIRE FIGHTING MEASURES

- 7.4. FIRST AID MEASURES
- 7.5. ACCIDENTAL RELEASE MEASURES
- 7.6. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. STABILITY AND REACTIVITY
- 8.2. DISPOSAL CONSIDERATIONS

9. MARKET SURVEY

10. EXPORT & IMPORT: ALL COUNTRIES

- 10.1. EXPORT: ALL COUNTRIES FOR MAGNESIUM SULPHATE
- 10.2. IMPORT: ALL COUNTRIES FOR MAGNESIUM SULPHATE

11. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

- 11.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
- 11.2. PROFITS & APPROPRIATIONS
- 11.3. TOTAL LIABILITIES
- 11.4. TOTAL ASSETS
- 11.5. NET CASH FLOW FROM OPERATING ACTIVITIES
- 11.6. SECTION – I
 - 11.6.1. Name of Company with Contact Details
 - 11.6.2. Name of Director(S)
 - 11.6.3. Plant Capacity
 - 11.6.4. Credit Ratings
 - 11.6.5. Location of Plant
 - 11.6.6. Name of Raw Material(S) Consumed with Quantity & Cost
- 11.7. SECTION – II

- 11.7.1. Assets
- 11.7.2. Cash Flow
- 11.7.3. Forex Transaction
- 11.7.4. Growth in Assets & Liabilities
- 11.7.5. Growth in Income & Expenditure
- 11.7.6. Income & Expenditure
- 11.7.7. Liabilities
- 11.7.8. Liquidity Ratios
- 11.7.9. Profitability Ratio
- 11.7.10. Profits
- 11.7.11. Return Ratios
- 11.7.12. Structure of Assets & Liabilities (%)
- 11.7.13. Working Capital & Turnover Ratios

12. COMPANY PROFILE OF MAJOR PLAYERS

13. EXPORT & IMPORT STATISTICS DATA OF INDIA

- 13.1. EXPORT STATISTICS DATA ON MAGNESIUM SULPHATE
- 13.2. IMPORT STATISTICS DATA ON MAGNESIUM SULPHATE

14. PRESENT MANUFACTURERS

15. RAW MATERIAL DESCRIPTION

- 15.1. CHEMICAL CHARACTERIZATION

16. MANUFACTURING PROCESS

- 16.1. RAW MATERIAL REQUIREMENTS
- 16.2. PROCESS
- 16.3. FORMULA

17. PROCESS FLOW DIAGRAM

18. SUPPLIERS OF PLANT & MACHINERY

19. SUPPLIERS OF RAW MATERIAL

20. PHOTOGRAPHS/IMAGES FOR REFERENCE

- 20.1. MACHINERY PHOTOGRAPHS
- 20.2. RAW MATERIAL PHOTOGRAPHS
- 20.3. PRODUCT PHOTOGRAPHS

21. PLANT LAYOUT

22. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER

Project Financials

- **Project at a Glance** **Annexure**
 - Assumptions for Profitability workings1
 - Plant Economics.....2
 - Production Schedule.....3
 - Land & Building.....4
- Factory Land & Building
Site Development Expenses

- **Plant & Machinery.....5**
 - Indigenous Machineries**
 - Other Machineries (Miscellaneous, Laboratory etc.)**
- **Other Fixed Assets.....6**
 - Furniture & Fixtures**
 - Pre-operative and Preliminary Expenses**
 - Technical Knowhow**
 - Provision of Contingencies**
- **Working Capital Requirement Per Month.....7**
 - Raw Material**
 - Packing Material**
 - Lab & ETP Chemical Cost**
 - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
 - Utilities & Overheads (Power, Water and Fuel Expenses etc.)**
 - Royalty and Other Charges**
 - Selling and Distribution Expenses**
- **Salary and Wages9**
- **Turnover Per Annum10**
- **Share Capital.....11**
 - Equity Capital**
 - Preference Share Capital**

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
 - **Revenue/Income/Realisation**
 - **Expenses/Cost of Products/Services/Items**
 - **Gross Profit**
 - **Financial Charges**
 - **Total Cost of Sales**
 - **Net Profit After Taxes**
 - **Net Cash Accruals**

- **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

- **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- **ROI (Average of Fixed Assets)**
- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

- **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**
- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**
- **Achievable Efficiency/Yield % of Products/Services/Items**
- **Net Usable Load/Capacity of Products/Services/Items**
- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

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- **Achievable Efficiency/Yield % of Products/Services/Items**
- **Net Usable Load/Capacity of Products/Services/Items**
- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21 :: Employees Expenses**
- **Annexure 22 :: Fuel Expenses**
- **Annexure 23 :: Power/Electricity Expenses**
- **Annexure 24 :: Royalty & Other Charges**
- **Annexure 25 :: Repairs & Maintenance Expenses**
- **Annexure 26 :: Other Manufacturing Expenses**
- **Annexure 27 :: Administration Expenses**
- **Annexure 28 :: Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

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- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

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

Tags

Magnesium Sulphate, Production of Magnesium Sulphate, Manufacturing of Magnesium Sulphate, Manufacturing Process of Magnesium Sulphate, Method of Producing Magnesium Sulphate, Magnesium Sulphate Production, Process of Making Magnesium Sulphate, Magnesium Sulfate Uses, Preparation of Magnesium Sulfate, Manufacture of Magnesium Sulphate, How to Produce Magnesium Sulfate, Chemical Compound, Method of Making Magnesium Sulfate, Production and Application of Magnesium Sulfate, Magnesium Sulphate Manufacturing Plant, Magnesium Sulphate Manufacturing Process, Magnesium Sulphate Formula, Magnesium Sulphate Manufacturing Unit, Magnesium Sulphate/Epsom Salts, Epsom Salts, (Heptahydrate), English Salt, Bitter Salt, Heptahydrate, Magnesium Sulfate Heptahydrate, Project Report on Magnesium Sulphate Manufacturing Industry, Detailed Project Report on Magnesium Sulphate Manufacturing, Project Report on Magnesium Sulphate Production, Pre-Investment Feasibility Study on Epsom Salts Production, Techno-Economic feasibility study on Magnesium Sulphate Manufacturing, Feasibility report on Magnesium Sulphate Manufacturing, Free Project Profile on Magnesium Sulphate Production, Project profile on Magnesium Sulphate Production, Download free project profile on Epsom Salts Production

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Magnesium Sulphate (Epsom Salt)
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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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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.

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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