Magnesium Sulphate (Epsom Salt) Manufacturing Business. Profitable Project Opportunities in Chemical Industry
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 sulfate 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 MgSO₄.
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.
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
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## Project at a Glance

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## Project at a Glance

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## Project at a Glance

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<td>Internal Rate of Return .. ( In %age )</td>
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<td>Fixed Assets Coverage Ratio ( No. of times )</td>
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**Source:** [entrepreneurindia.co](http://www.entrepreneurindia.co)
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?
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6. What is the total project cost for setting up Magnesium Sulphate Manufacturing Business?

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11. Who are the Suppliers and Manufacturers of Raw materials for setting up Magnesium Sulphate Manufacturing Business?

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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?
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1.1.4. Map
1.1.5. Economy and Industry
1.1.6. Transport

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3.1. PHYSICAL PROPERTIES
3.2. CHEMICAL PROPERTIES

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

5. HEALTH BENEFITS

6. USES AND APPLICATIONS
6.1. USES
6.2. MISCELLANEOUS APPLICATIONS

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11.6.2. Name of Director(S)
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15. RAW MATERIAL DESCRIPTION
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  Provision of Contingencies

• Working Capital Requirement Per Month
  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
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- Financial Charges
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- ROI (Average of Total Assets)

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- Fixed Expenses / Cost
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- 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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  • Equity Capital
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  • Determined Capacity P.A of Products/Services
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• 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
Reasons for Buying our Report:

• This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product.

• This report provides vital information on the product like its 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.
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

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- We empower our customers with the prerequisite know-how to take sound business decisions
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Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation
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